California Fish and Game Commission

Meeting Binder

Volume 4

Agenda Items 15-17

May 5-6, 2026

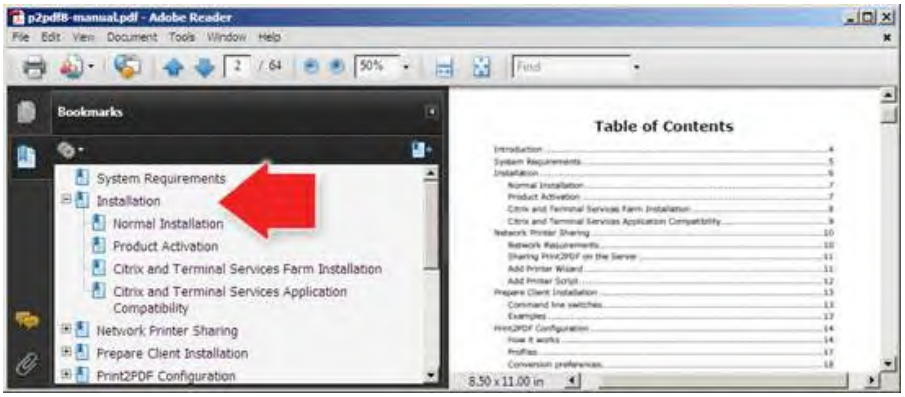
Goleta

EASY GUIDE TO USING THE BINDER

1. Download and open the binder document using portable document reader (pdf) software like Adobe Acrobat/Reader.

2. If a bookmark panel does not automatically appear on either the top or left side of the screen, click/tap on the “bookmark symbol” located near the top left-hand corner.

3. To make adjustments to the view, use the Page Display option in the View tab. You should see something like:



4. We suggest leaving open the bookmark panel to help you move efficiently among the staff summaries and numerous supporting documents in the binder. It’s helpful to think of these bookmarks as a table of contents that allows you to go to specific points in the binder without having to scroll through hundreds of pages.

5. You can resize the two panels by placing your cursor in the dark, vertical line ↔ located between the panels and using a long click /tap to move in either direction.

6. You may also adjust the sizing of the documents by adjusting the sizing preferences located on the Page Display icons found in the top toolbar or in the View tab.

7. Upon locating a staff summary for an agenda item, notice that you can obtain more information by clicking/tapping on any item underlined in blue.

8. Return to the staff summary by simply clicking/tapping on the item in the bookmark panel.

9. Do not hesitate to contact staff if you have any questions or would like assistance.

Overview of California Fish and Game Commission Meeting

- Welcome to a meeting of the California Fish and Game Commission. This is the 157th year of operation for the Commission, in partnership with the California Department of Fish and Wildlife. Both organizations originated from the Board of Fish Commissioners in 1870.

- The Commission's goals include preserving California's wildlife heritage and conserving our natural resources through informed decision making. These meetings play a vital role in achieving those goals. In that spirit, we provide the following information to support effective and efficient progress toward that end.

- We are operating under the Bagley-Keene Open Meeting Act and these proceedings are being recorded and broadcast.

- In the unlikely event of an emergency, please note the location of the nearest emergency exits at your location.

- Items may be heard in any order pursuant to the determination of the presiding commissioner, which is Commissioner Murray today.

- The amount of time for each agenda item may be adjusted based on time available and the number of speakers.

- If you are here at the in-person location, speaker cards need to be filled out **legibly** and turned in to staff **before** we start the agenda item.

- If you are online or on the phone, you will receive additional instructions in a few minutes.

- We will ask how many speakers we have before taking public comment; please be prepared and listen closely for your name or phone number to be called.

- When you speak, please state your name and any affiliation. Please be respectful and note that disruptions will not be tolerated. Time is precious so please be concise.

- To receive meeting agendas and regulatory notices about those subjects of interest to you, please visit the Commission's website, www.fgc.ca.gov, and sign up for our electronic mailing lists.

- If you want the Commission to consider a regulation change, all petitions for regulation change must be submitted in writing on the authorized form, FGC 1, which is available on the Commission's website or directly from staff.

- For members of the public, if you have access to the Internet and are not planning to make public comment, you may listen to the meeting via our regular webcast by visiting the commission website at www.fgc.ca.gov (link is on right side).

- **Reminder!** Please silence your mobile devices and computers to avoid interruptions.

Introductions for California Fish and Game Commission Meeting

Commission Members

Eric Sklar	President (Saint Helena)
Darius W. Anderson	Vice President (Kenwood)
Jacque Hostler-Carmesin	Member (McKinleyville)
Samantha Murray	Member (La Jolla)
Erika Zavaleta	Member (Santa Cruz)

Commission Staff

Melissa Miller-Henson	Executive Director
David Thesell	Deputy Executive Director
Mike Yaun	Legal Counsel
Susan Ashcraft	Marine Advisor
Ari Cornman	Wildlife Advisor
Gabe Lopez	Program Manager
Sherrie Fonbuena	Administrative Officer, Regulatory Analyst
Caroline Newell	Environmental Scientist
Jenn Bacon	CESA and Regulatory Analyst
David Haug	Regulatory Analyst
Kelsey Leaird	Executive Analyst
Cynthia McKeith	Staff Services Analyst
Amanda Specht	California State Sea Grant Fellow
Jessica Shaw	Seasonal Clerk

California Department of Fish and Wildlife Staff

Meghan Hertel	Director
Chad Dibble	Deputy Director, Wildlife and Fisheries Division
Craig Shuman	Regional Manager, Marine Region
Eric Kord	Assistant Chief, Marine Enforcement
Claire Waggoner	District Habitat Enforcement Manager, Marine Region

Special guests who are present:

Commissioners
Eric Sklar, President
Saint Helena
Darius Anderson, Vice President
Kenwood
Jacque Hostler-Carmesin, Member
McKinleyville
Samantha Murray, Member
La Jolla
Erika Zavaleta, Member
Santa Cruz

STATE OF CALIFORNIA
Gavin Newsom, Governor

Fish and Game Commission

Wildlife Heritage and Conservation
Since 1870

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www.fgc.ca.gov

Klamath River Basin and Central Valley Sport Fishing *and* Regional Marine Protected Area Petitions (San Luis Obispo through Santa Barbara Counties, including Northern Channel Islands and Santa Barbara Island)

Revised* Meeting Agenda
May 5-6, 2026

Hilton Garden Inn Santa Barbara/Goleta
6878 Hollister Avenue
Goleta, CA 93117

- **May 5** will focus on *Regional MPA Petitions (San Luis Obispo through Santa Barbara counties)*
- **May 6** will focus on *Klamath River Basin* and *Central Valley Sport Fishing and Regional MPA Petitions (Northern Channel Islands and Santa Barbara Island)*

Join us in person in Goleta to provide public comment or observe the meeting.

Options for Remote Public Comment via Zoom or Phone

To join the meeting remotely via Zoom (video and audio), click directly on the meeting link at https://us02web.zoom.us/j/89046108064. You can access detailed instructions for joining by phone or Zoom by clicking here or visit the Commission meetings page at fgc.ca.gov/meetings; for instructions on how to join by phone (audio only), refer to Option 3.

The Commission will make a reasonable effort to provide the public additional opportunities to observe or provide comment in the meeting through the Zoom webinar platform by computer, mobile device, or telephone connections. However, the Commission cannot guarantee the accessibility or functionality of the remote connection options. Should technical issues affect remote attendee access or webinar quality, an attempt will be made to resolve them; however, the meeting will continue with in-person attendees.

Option for Remote Observation Without Public Comment

To watch or listen only on the day of the meeting visit http://www.fgc.ca.gov (link is on the right side of the page). The Commission will make a reasonable effort to live-stream the meeting to allow the public to observe the meeting from a remote location without providing comments. However, the Commission cannot guarantee the accessibility or functionality of the webcast.

*** This agenda has been revised to:**

- **Amend the descriptions of Agenda Items 2-5 (Petitions 2023-28MPA, -29MPA, -19MPA, and -20MPA, respectively) to clarify the proposed petition actions and reflect the intent of tribal leads or co-leads as clarified during the April 14, 2026 Tribal Committee meeting.**
- **Amend the descriptions of Agenda Items 6, 8 and 11-14 (Petitions 2023-34MPA, -18MPA, -27MPA, -14MPA and -15MPA, respectively) to clarify the proposed petition actions.**
- **Renumber Agenda Item 8 (Petition 2023-18MPA) to sub-item 8(A).**
- **Add sub-item 8(B) to schedule Petition 2022-04, submitted by the City of Lompoc in 2022. The Commission referred the petition to the Department for review and subsequently requested that it be included in the Department's MPA petitions evaluations, which were presented at the Commission's April 2026 meeting. The petition was inadvertently omitted from this agenda and prior public materials; it is now included to ensure opportunity for public input within the context of the current MPA petition process.**

Meeting Goals, Expectations, and Format

The California Fish and Game Commission (Commission) is holding this meeting as one of three regional meetings (April 21, May 5-6, and May 19) to consider recently evaluated marine protected area (MPA) petitions. We expect to hear comments from people with varied perspectives and deeply held values about California's ocean and coastal places. In these meetings, the Commission is committed to supporting an environment where everyone can safely participate, while also protecting free speech. Meeting goals, expectations, and format information have been created to support a respectful, constructive environment where all voices are heard; we share them here to enhance transparency for regional meeting participants.

Regional Meeting Goals

- Provide a safe and inclusive environment for sharing knowledge, experiences, and perspectives..
- Uphold the Commission's Justice, Equity, Diversity, and Inclusion (JEDI) Policy and goals, including centering principles of environmental justice and access for underserved communities; recognizing and honoring the perspectives and traditional knowledge and practices of California tribes and tribal communities; and working from a shared understanding of key JEDI-related definitions and terms.
- Ensure all commissioners can hear and participate in petition dialogue in real time.
- Receive overview of petitions, ask questions, and discuss petitions and evaluations.

- Daylight areas of agreement or disagreement, as well as potential modifications and compromises.
- Gather input to inform Commission recommendations or make requests for additional information for future consideration.
- Deliberate on petition content without making final decisions, which will occur at later publicly noticed Commission meetings; real-time negotiation or resolution may not be possible within the meeting time.

Regional Meeting Expectations: Commitment to a Respectful Environment and Free Speech

We acknowledge that regional meeting participants care deeply about California's marine and coastal places and public trust resources. These meetings are intended to provide space to openly and respectfully share relevant information and perspectives on MPA petitions. The following content is intended to set expectations and tone for these meetings.

The Commission is committed to creating and maintaining an environment where all participants feel safe, respected, and able to contribute meaningfully. It therefore strongly discourages personal attacks, intimidation, harassment, hateful expressions (including racial or other identity-based comments), or other conduct that targets individuals rather than issues. These comments can diminish the quality of public dialogue, discourage community participation, and potentially reduce the likelihood that commissioners will give weight to comments delivered in this manner.

The Commission upholds the right to free speech. All individuals possess this right and are entitled to use their full speaking time to express their views, including critiques, alternative perspectives, and disagreement. However, disruptions to the meeting will not be tolerated. Profanity, obscenity, personal threats or attacks on members, staff or other commenters, references to protected characteristics, offensive speech, yelling, interruptions, audible and disruptive reactions, or disputing another speaker during their speaking time may constitute a disruption to the meeting, depending on the circumstances.

The Commission may restrict an individual's right to speak when necessary to avoid disrupting the orderly conduct of the meeting. In these cases, the presiding commissioner may gavel or mute a speaker's microphone. If the disruptive behavior continues, after a call for decorum and a warning, the person or people disrupting the orderly conduct of the meeting may be removed from the meeting, the meeting may be suspended, and the room may be cleared.

Regional Meeting Participation Logistics: Day of Engagement and Written Comments

Participating in Person, on Zoom, or by Phone

All meetings are subject to the Bagley-Keene Open Meeting Act and open to the public. Participation and comment are available in person, via Zoom webinar, or by phone; meetings are also live streamed for listening or viewing only. The presiding commissioner will explain how to indicate your interest in speaking and time limits. Staff are available to answer logistical questions. Audio and video archives are posted to the Commission website after each meeting.

To speak on an agenda item in-person, please complete a "speaker card" and provide it to the designated staff member before the agenda item is announced. Please complete one speaker card per agenda item. Cards will be available near the entrance of the meeting room. In-person speakers will be identified in groups; please line up when your name is called.

To speak on an agenda item via Zoom or phone, please "raise" your hand either through the Zoom function or by pressing *9 once on your phone when prompted at the beginning of the agenda item. Speakers on Zoom or phone will be identified by your display name or the last three digits of your phone number; listen closely for when your name or number is called.

Visual Presentations: Slides, Videos, and Graphics

All electronic presentations must be submitted by the Supplemental Comment Deadline and approved by the Commission executive director before the meeting.

- Electronic presentations must be provided by email to fgc@fgc.ca.gov. If the file is too large to send via email, contact staff to identify an alternative method for submitting the file.
- Specify to which meeting date and petition/geography it pertains.
- All electronic formats must be Windows PC compatible.
- If presenting at the in-person meeting location, it is recommended that you bring a print copy of your presentation in case of technical difficulties.
- Approval is at the discretion of the presiding commissioner and is not guaranteed.

Persons with Disabilities or Accommodation Needs

Individuals with disabilities and/or needing reasonable accommodation to participate in Commission meetings may contact the Civil Rights Office (CRO) of the California Department of Fish and Wildlife at civilrights@wildlife.ca.gov. Requests for facility or meeting accessibility and requests for American Sign Language interpreters should be submitted at least 72 hours before the meeting to help ensure that the requested accommodation can be met. If an accommodation is no longer needed, please notify CRO immediately.

Individuals relying on an interpreter are entitled to at least twice the allotted speaking time pursuant to Government Code Section 11125.7(c), and are asked to provide at least 72 hours' notice. Additional time for other accommodation needs may be granted at the presiding commissioner's discretion to ensure equal opportunity to address the Commission.

Written Public Comments and Submission Deadlines

The public is encouraged to submit written comments on any agenda item. Written comments can be more detailed than what you may have the opportunity to share with commissioners in verbal comments made during the meeting. If written comments are received before the deadline, they will be shared with Commissioners before the meeting; you may wish to refer to your full written comments during your verbal testimony at the meeting.

Submit written comments by one of three methods:

- E-mail to fgc@fgc.ca.gov
- Mail to California Fish and Game Commission, P.O. Box 944209, Sacramento, CA 94244-2090

- Deliver to California Fish and Game Commission, 715 P Street, 16th Floor, Sacramento, CA 95814 (call at least one business day in advance to arrange delivery)

Meeting Date	***Comment Deadline****	***Supplemental Comment Deadline***
May 5-6, 2026	April 22, 5:00 PM	April 30, 12:00 PM
May 5-6, 2026	May 6, 5:00 PM	May 14, 12:00 PM

* Written comments received at the Commission office by the ***Comment Deadline*** will be made available to the Commissioners prior to the meeting, made available to the public, and may be posted online with meeting materials.

** Written comments received at the Commission office by the ***Supplemental Comment Deadline*** will be made available to Commissioners at the meeting but not posted online.

After these deadlines, written comments may be delivered in person to the meeting. Please bring twelve (12) copies of written comments and hand them to the designated staff member just prior to speaking.

Regional Meeting Expectations: Agenda and Format

Meeting Agenda

The meeting agenda outlines the planned sequence of items, during which presentations, discussion, and public comment will occur. Each meeting includes a designated public comment period for each agenda item, as well as a "general public comment" agenda item for topics not on the agenda.

Meeting Format

For each regional meeting, the Commission will discuss from four to seven MPA petitions (with eight to fifteen proposed actions). Information on which petitions will be heard at which regional meetings is available in the petition distribution tables.

During regional meetings, each MPA petition agenda item will follow the same general format:

- Petitioner presentation for 10-12 minutes, depending on whether a petition is tribally led or co-led and on the number of nested actions within the petition, covering:
    - Regulatory actions requested
    - Purpose of requested action
    - Updates since petition was submitted in November 2023 or since amended in March 2025
    - A focus on regionally or locally relevant components, especially if a petition spans multiple regions
- Commission staff re-cap of evaluation recommendations
- Commissioner questions
- Ceded speaker time
- Public comment and Commission discussion

Regional Meeting Expectations: Guidelines on Speaker Time

Under Commission procedures, the presiding commissioner allocates a maximum speaking time (typically one to three minutes, with exceptions) for each agenda item. For the regional MPA petition meetings, the Commission aims to support a more flexible, conversational dialogue, whenever possible, to reflect the spirit of Marine Resources Committee meetings. The Commission understands that many participants travel long distances or rearrange commitments to attend, whether in person or remotely.

The Commission expects the regional meetings to be well attended, potentially with large numbers of speakers. The Commission is committed to hearing all scheduled petitions, while also maximizing the amount of information and number of viewpoints shared by attendees.

To balance these goals, the presiding commissioner will seek to ensure discussions are focused, respectful, and efficient, and that as many voices as possible can be heard. In that spirit, the presiding commissioner will specify a target maximum speaking time for those wishing to speak on a petition.

Tools the Presiding Commissioner May Use to Maximize Viewpoints Shared

To help participants prepare for regional meetings, we share here proposed speaker time guidelines, as well as other tools the presiding commissioner may use to manage large numbers of speakers on any given petition. Note that at any time, the presiding commissioner may choose to use these or other tools to focus comments and/or maximize participation. Please keep these guidelines in mind as you prepare your public comments.

- **If there are 25 or fewer speakers:** Speakers may be asked to speak for no more than **two to three minutes** each.
- **If there are more than 25 speakers*:*** Speakers may be asked to speak for no more than **one minute** each.

If there are large numbers of speakers for any petition: The presiding commissioner may also choose to rely on group sentiment tools to allow participants to indicate their views, when there is not enough time for all individuals to speak. These tools are strategies to broaden participation, not to limit viewpoints.

- **Levels-of-Support Checks:** Quick indicators such as “I like it,” “I can live with it,” or “I cannot support it”
- **Group Sentiment Capture:** Hand-raising or digital reactions when not everyone can speak individually
- **Time Management Adjustments:** Modifying pacing, structure, or feedback tools so all petitions can be addressed during the meeting

Additional Time for Speakers with Ceded Time

A speaker may be approved to speak for up to **three minutes if five or more** participants cede their time to them. This allows a group to designate spokespeople to provide comment on a specified MPA petition agenda item. Participants ceding their time:

- Must be present (in person or on Zoom) when the agenda item is called; and
- forego their own opportunity to speak on that agenda item.

If you plan to cede time:

- **In-person:** the five participants ceding their time must complete speaker cards and approach the staff table with the spokesperson before the agenda item begins so staff can confirm the presence of those ceding time.
- **Remote (via Zoom or phone):** participants who wish to cede their time must notify the Commission at fgc@fgc.ca.gov by the Supplemental Comment Deadline and include the name of the individual to whom they are ceding time. All individuals ceding time must also be present on Zoom or phone during the agenda item.

Considerations for Giving Effective Public Comment

When addressing the Commission, please give your name and the name of any organization you represent. To facilitate a positive meeting experience for all, please remember to:

- Respect the meeting environment, other speakers, staff, and commissioners, as outlined above.
- Treat all participants with courtesy and recognize diverse experiences.
- Listen respectfully; one person speaks at a time.
- Avoid personal accusations, stereotyping, or deliberate misinformation.
- Come prepared and keep comments centered on the topic.
- Focus on clear, concise contributions that support productive dialogue.
- If there are several speakers with the same concerns, you are encouraged to appoint a spokesperson and avoid repetitive comments.
- Treat disagreements as shared problems to solve.
- When offering critique, propose alternative ideas when appropriate.
- To help first-time participants organize comments, it may be helpful to focus on:
    - Do you support or oppose the petition and why?
    - Why is it important to you, your community, or your work?
    - What action(s) would you like the Commission to consider?

May 5, 2026; 8:00 AM

Call to Order and Roll Call to Establish a Quorum

1. Consider Approving Agenda and Order of Items

Discussion and Action Items: Marine Protected Areas

Marine Protected Area (MPA) Petitions *(San Luis Obispo County through mainland Santa Barbara County)*

For each MPA petition, receive presentations from the petitioner(s), followed by public comment and discussion. The Commission may develop recommendations for consideration at a future meeting. *No formal action will be taken today.*
(Pursuant to Section 662, Title 14, California Code of Regulations)

Viewing petitions and public comments:

- *MPA petitions and compiled public comments to date are available to view through the Commission's website at California Marine Protected Areas - Initial Webpage or Status of MPA Petitions for Reg Change (with the exception of Petition 2022-04).*

Viewing petition evaluations:

- *Department petition evaluations with recommendations are available to view through the Department's Bin 2 MPA Petition Evaluations StoryMap.*
- *A recording of the Department's presentation of MPA petition evaluations and recommendations, given during the April 15-16, 2026 Commission meeting, can be viewed by visiting the CAL-SPAN Network for April 15.*
- *California Ocean Protection Council petition policy letter (see Latest News dated March 20, 2026) and evaluations (date in June TBD) are available to view through OPC's website at California Ocean Protection Council.*

2. Petition 2023-28MPA_AM2 (Tribally Co-led)
Request to designate a new state marine conservation area (SMCA) near Point Sal — using boundaries proposed in November 2025 — that allows recreational take of finfish by hook and line from shore and take during mission-critical operations at Vandenberg Space Force Base, and to consult with tribes to identify a tribal name for the SMCA.

3. Petition 2023-29 MPA_AM1 (Tribally Co-led)
Request to designate a new MPA near Carpinteria as "Mishopshno SMCA" — using the slightly larger proposed boundaries — that allows recreational take of finfish by hook and line from shore, and includes a tribal take exemption for the Santa Ynez Band of Chumash Indians.

4. Petition 2023-19MPA (Tribally Led)
Request to designate a new MPA near Morro Bay as "Chitqawi SMCA" that only includes a tribal take exemption for the Santa Ynez Band of Chumash Indians.

5. Petition 2023-20MPA (Tribally Led)
Request to expand a boundary at Point Buchon State Marine Reserve (SMR), and to re-name Point Buchon SMCA as the Chumash Co-Managed SMCA and add a tribal take exemption for the Santa Ynez Band of Chumash Indians.

6. Petition 2023-34MPA
Request to change the classification of Point Buchon SMCA to an SMR**.**

7. Petition 2023-33MPA_AM1
Request to expand a boundary at Point Conception SMR**.**

8. Petition 2023-18MPA and Petition 2022-04

(A) **Petition 2023-18MPA**
Request to change the classification of a portion of Vandenberg SMR by creating a narrow, nearshore **"**ribbon**"** SMCA, along the entire SMR length, to allow recreational take of finfish by hook and line from shore; make non-regulatory changes at two MPAs; and simplify take regulations at Kashtayit SMCA

(B) **Petition 2022-04**
Request to change the classification of a portion of Vandenberg SMR by creating a narrow**,** nearshore **"**ribbon**"** SMCA along the half-mile stretch of beach known as Surf Beach, to allow recreational take of finfish by hook and line from shore**.**

Note: Petition 2022-04 was submitted prior to the 2023 MPA petitions process. The Commission referred the petition to the Department for review in 2022 and subsequently requested it be included in the Department's MPA petitions evaluations, which were presented at the Commission's April 2026 meeting. The petition is included here to ensure opportunity for public input within the context of the current MPA petition process..

Recess

May 6, 2026; 8:00 AM

Call to Order and Roll Call to Establish a Quorum

Discussion and Action Items – Sport Fishing

9. Central Valley Sport Fishing
Consider adopting proposed amendments to Central Valley sport fishing regulations and taking final action under the California Environmental Quality Act. (Amend subsections 7.40(b)(4), (43), (66) and (80), Title 14, California Code of Regulations)

10. Klamath River Basin Sport Fishing
Consider adopting proposed amendments to Klamath River Basin sport fishing regulations and taking final action under the California Environmental Quality Act. (Amend subsection 7.40(b)(50), Title 14, California Code of Regulations)

Discussion and Action Items - MPAs

MPA Petitions (northern Channel Islands and Santa Barbara Island)
For each MPA petition, receive presentations from the petitioner(s), followed by public comment and discussion. The Commission may develop recommendations for consideration at a future meeting. *No formal action will be taken today*.
(Pursuant to Section 662, Title 14, California Code of Regulations)

Viewing petitions and public comments:

- *MPA petitions and compiled public comments to date are available to view through the Commission's website at California Marine Protected Areas - Initial Webpage or Status of MPA Petitions for Reg Change (with the exception of Petition 2022-04).*

Viewing petition evaluations:

- *Department petition evaluations with recommendations are available to view through the Department's Bin 2 MPA Petition Evaluations StoryMap.*
- *A recording of the Department's presentation of MPA petition evaluations and recommendations, given during the April 15-16, 2026 Commission meeting, can be viewed by visiting the CAL-SPAN Network for April 15.*
- *California Ocean Protection Council petition policy letter (see Latest News dated March 20, 2026) and evaluations (date in June TBD) are available to view through OPC's website at California Ocean Protection Council.*

11. Petition 2023-18MPA
Request to remove San Miguel Island Special Closure; remove the area of Frenchy's Cove from the brown pelican Anacapa Island Special Closure, and consider removing the 20-foot net-and-trap depth closure at Anacapa Island Special Closure**.**

12. Petition 2023-27MPA_AM1
Request to modify Anacapa Island SMCA or Anacapa Island Special Closure to protect eelgrass meadows through one of three options related to disallowing deployment of lobster traps in part or all of the SMCA or increasing the special closure depth restriction**.**

13. Petition 2023-14MPA
Request to allow commercial take of red sea urchins in Naples SMCA and Anacapa Island SMCA**.**

14. Petition 2023-15MPA_AM2
Request to change the classification of Footprint SMR, Santa Barbara Island SMR, and Gull Island SMR to SMCAs to allow take of pelagic finfish species through one of several options**.**

15. Petition 2023-33MPA_AM1
Request to expand the boundaries of Gull Island SMR and South Point SMR.

16. Future Meetings and New Business

Review logistics and agenda items for the next Commission meeting (May 19). Consider any changes to previously approved meeting dates or locations and introduce any new business for inclusion on a future meeting agenda.

General Public Comment

17. General Public Comment for Items Not on the Agenda

Receive public comment regarding topics within the Commission's authority that are not included on the agenda.

Note: The Commission may not discuss or take action on any matter raised during this item, except to decide whether to place the matter on the agenda of a future meeting (sections 11125 and 11125.7(a), Government Code).

Adjourn

California Fish and Game Commission
Meeting Schedule

Note: As meeting dates and locations can change, please visit www.fgc.ca.gov for the most current list of meeting dates and locations. All Commission meetings will include a webinar/teleconference option for attendance, and every effort will be made to ensure that committee meetings include the same.

Meeting Date	Commission Meeting	Committee Meeting
May 14, 2026		**Wildlife Resources** Natural Resources Headquarters Building 715 P Street, 2nd Floor Sacramento, CA 95814
May 19, 2026	**Marine Protected Area Petitions** (Los Angeles through San Diego counties, including Santa Catalina Island) Holiday Inn Express 35 Via Pico Plaza San Clemente, CA	
June 17-18, 2026	Natural Resources Headquarters Building 715 P Street, 2nd Floor Sacramento, CA 95814	
July16, 2026		**Marine Resources** Natural Resources Headquarters Building 715 P Street, 2nd Floor Sacramento, CA 95814
August 11, 2026		**Tribal** Natural Resources Headquarters Building 715 P Street, 2nd Floor Sacramento, CA 95814
August 12-13, 2026	Natural Resources Headquarters Building 715 P Street, 2nd Floor Sacramento, CA 95814	
September 10, 2026		**Wildlife Resources** Natural Resources Headquarters Building 715 P Street, 2nd Floor Sacramento, CA 95814
October 14-15, 2026	Natural Resources Headquarters Building 715 P Street, 2nd Floor Sacramento, CA 95814	

Meeting Date	Commission Meeting	Committee Meeting
November 12, 2026		**Marine Resources** Natural Resources Headquarters Building 715 P Street, 2nd Floor Sacramento, CA 95814
December 15, 2026		**Tribal** Natural Resources Headquarters Building 715 P Street, 2nd Floor Sacramento, CA 95814
December 16-17, 2026	Natural Resources Headquarters Building 715 P Street, 2nd Floor Sacramento, CA 95814	

Other Meetings of Interest

Meetings listed here are organizations for which the Commission: (1) is a member, or (2) takes action based upon regulations developed by that organization.

Association of Fish and Wildlife Agencies

- September 13-16, 2026 – Lancaster, PA

Pacific Fishery Management Council

- June 11-16, 2026 – Spokane, WA
- September 17-22, 2026 – Vancouver, WA
- November 13-18, 2026 – Garden Grove, CA
- December 31, 2026 – Location TBD

Pacific Flyway Council

- August or September 2026 – Date and location TBD

Western Association of Fish and Wildlife Agencies

- June 1-5, 2026 – Boise, ID

Wildlife Conservation Board

- May 28, 2026 – Sacramento, CA
- August 27, 2026 – Sacramento, CA
- November 19, 2026 – Sacramento, CA

Staff Summary for May 5-6, 2026

15. Marine Protected Area (MPA) Petition 2023-33MPA_AM1

Today's Item **Information ☒** **Action ☐**

Receive a presentation from the petitioners, followed by public comment and discussion for Petition 2023-33MPA_AM1: *Request to expand the boundaries of Gull Island State Marine Reserve (SMR) and South Point SMR.*

Summary of Previous/Future Actions

• Received 20 MPA petitions; referred to the Marine Resources Committee and the Department for review	December 2023; February 2024
• Granted or denied all individual actions in the 5 "bin 1" MPA petitions	December 2024
• Received Department bin 2 petition evaluations for 10 non-tribally led or co-led petitions	April 15-16, 2026
• Received petitioners' presentation and discussed region-specific petitioned actions in bin 2 MPA petitions from Del Norte through Monterey counties	April 21, 2026
• **Today, receive petitioners' presentation and discuss bin 2 MPA petitions from San Luis Obispo through Santa Barbara counties, northern Channel Islands, and Santa Barbara Island**	**May 5-6, 2026**
• Receive petitioners' presentation and discuss bin 2 MPA petitions from Los Angeles through San Diego counties and Catalina Island	May 19, 2026
• Receive Department bin 2 evaluations for 5 tribally led or co-led petitions	Date to be determined

Background

In November 2023, the Commission received Petition 2023-33MPA (Exhibit 1), alongside 19 other petitions proposing changes to the state's MPA network and management program. In February 2024, the Commission referred all MPA petitions to the Department for its evaluation and recommendation, while developing and updating guidance over time.

For detailed background information and key documents related to the process leading to this stage — including the companion document to the Department's evaluations for non-tribally led or co-led petitions, the Department's evaluations presentation, and a letter from the California Ocean Protection Council providing input to complement the Department's evaluations — see the *Introduction to Bin 2 MPA Petitions and Evaluation*.

Petition Amendments

Bin 2 petitioners were provided until March 2025 to submit formal amendments to their original petitions for inclusion in the Department's evaluation. This petition was formally amended (AM1) by the March 2025 deadline (Exhibit 1; 2023-33MPA_AM1); however, the amendment did not affect the proposed actions for South Point SMR or Gull Island SMR (this agenda item).

Overview of Actions in Petition 2023-33MPA_AM1 Relevant to This Region

This petition, submitted by Environment California and Azul, proposes seven actions that expand six MPAs and establish one new MPA to protect kelp; two of the seven petitioned actions are located in this region (action numbers from the Department's evaluation included for reference):

Action 3. Expand South Point SMR westward by approximately 26.3 square miles

Action 4. Expand Gull Island SMR northward by approximately 1.8 square miles

Stated Intent

The petitioner proposes changes to protect kelp beds identified by recent analyses as "highly persistent, historically stable, and currently in good condition." The petitioner states that "…removing, to the extent possible, direct human impacts on these resilient kelp forests that are potential climatic refuges will not only help these areas persist, but will also enhance the state's restoration efforts for other kelp forests in decline." See Exhibit 1 for more details.

Public Comments

The Commission has received public comments on MPA petitions continuously since petitions were submitted in late 2023. Staff has compiled into a single packet the comments received for this petition that were included in committee or Commission meeting binders or supplemental handouts from the December 2023 through the April 2026 Commission meetings (Exhibit 2). Comments received after the April 2026 Commission meeting but before this meeting's comment deadline are included as exhibits to this staff summary.

Petition Evaluations

On March 20, 2026, the Department publicly released its evaluations and recommendations for the ten petitions that were not tribally led or co-led, including for Petition 2023-33MPA_AM1 (Exhibit 3). The Department also released a companion document, to offer essential context that is intended to be reviewed before the individual petition evaluations.

In addition, on March 20, 2026 the California Ocean Protection Council (OPC), in its role as policy lead for the MPA network, sent a letter to the Commission outlining its overarching perspectives on the MPA petitions, including the tribally led and co-led petitions (see OPC news release, dated March 20, 2026). OPC indicated that it plans to provide more detailed input on the bin 2 petitions using a policy lens, intended to complement the Department's evaluations. OPC now anticipates transmitting its evaluation for consideration at the June 2026 Commission meeting.

Today's Meeting

Today, the petitioners will present Petition 2023-33MPA_AM1, and describe any proposed changes since the March 2025 amendment deadline. This meeting provides petitioners with an opportunity to engage in dialogue with the Commission alongside robust public participation.

All meeting participants are encouraged to review the Regional Meeting Expectations and Guidelines (included in the agenda) as a reference for engaging in today's meeting.

Significant Public Comments

1. A concerned urchin diver from the Ventura/Oxnard area expresses strong opposition to the proposed expansion of the South Point SMR. The commenter states that closures compress fishing effort into fewer accessible areas, placing strain on the livelihoods of local urchin divers and causing severe damage to the local urchin diving community. The commenter disagrees with the petitioners' assertions regarding the benefits of SMR expansion for kelp health and asks the Commission to deny the petition. (Exhibit 4)
2. An organization representing commercial fishermen, industry partners, and others dependent upon access to California's coastal resources opposes the proposed expanded closures around Santa Rosa Island. They emphasize the area's importance for multiple fisheries and urge the Commission to deny the petition or require socioeconomic, effort-displacement, cumulative-impact, and economic-impact analyses before proceeding. (Exhibit 5)
3. A recreational angler and diver from northern California urges the Commission to deny the petition, asserting that the proposed actions would significantly limit in-shore recreational fishing access (Exhibit 6).

Recommendation

Commission staff: Based on the day's discussion, consider what additional information, if any, will be needed to inform a Commission decision on the petition.

Department: Deny the petition actions, for the reasons detailed in Exhibit 3. In summary:

General Considerations Applying to All Proposed Actions in Petition 2023-33MPA_AM1

- The proposed actions are not expected to improve the MPA Network ecologically or from a management perspective. They do not advance Decadal Management Review (DMR) recommendations or address a demonstrated performance issue or emerging management challenge
- Although kelp declines and climate change are key concerns, the proposed actions are not the most effective means of addressing these issues.
- The assumption that adding or expanding MPAs around persistent kelp patches will improve kelp stability, resilience, or recovery is not supported by site-specific mechanistic evidence. MPAs are an important conservation tool, but they are not a standalone or flexible mechanism for kelp restoration or long-term kelp persistence.

- The proposed changes could introduce regulatory constraints that limit future restoration opportunities. Kelp restoration and management should instead be guided by the forthcoming kelp restoration and management plan (KRMP), which will outline a framework for developing and implementing effective strategies and best practices.
- The proposed MPA expansions and new MPA could interact with permitting and regulatory authorities of other agencies, including the State Water Resources Control Board and the Regional Water Quality Control Boards, particularly regarding point-source (e.g., wastewater treatment) and non-point-source (e.g., stormwater) discharges into MPAs.
- The DMR concluded that the MPA network is functioning effectively to achieve Marine Life Protection Act (MLPA) goals. Significant regulatory changes should therefore meet a high threshold of demonstrated conservation need and science-based benefit, supported by rigorous analysis, robust tribal and stakeholder engagement, and iterative statewide collaboration to maintain the scientific integrity of the MPA Network and uphold MLPA mandates.

Action 3 - Specific Considerations

- The proposed expansion would not meaningfully improve the design of South Point SMR or the MPA Network, or advance adaptive management recommendations from the DMR.
- During the Channel Islands MPA planning process, expanded boundaries to capture more kelp forest were considered at South Point SMR. However, as a deliberate outcome of the process, the western area towards Bee Rock/Cluster Point was not retained in the final design due to concerns that the additional area would significantly increase economic impacts to fisheries, particularly for lobster and urchin, which are concerns that remain relevant today.
- The petitioner did not provide sufficient evidence to warrant expanding South Point SMR.

Action 4 - Specific Considerations

- Gull Island SMR currently meets the criteria necessary to support MPA Network ecological objectives and contributes to Network-wide habitat replication of several key habitats, including kelp.
- The proposed expansion would not meaningfully improve the design of Gull Island SMR or the MPA Network, or advance adaptive management recommendations from the DMR.
- The petition proposes to expand the MPA north to include Posa Anchorage on the southwest side of Santa Cruz Island. This area was initially included in the working draft recommendation developed by CDFW and the National Oceanic and Atmospheric Administration during the Channel Islands MPA planning process but was later redesigned to exclude the anchorage. This decision remains relevant today.

- Inclusion of this area would impose unnecessary socioeconomic impacts, particularly to the squid fishery.
- The petitioner did not provide sufficient evidence to warrant expanding the boundary of Gull Island SMR.

Exhibits

1. Petition 2023-33MPA_AM1, received November 30, 2023 and amended March 14, 2025
2. Packet of comments, received November 2023 through April 17, 2026
3. Department evaluation of Petition 2023-33MPA_AM1, received March 20, 2026
4. Letter from Christopher Nelson, received April 19, 2026
5. Letter from David Colker, Executive Director, Ventura County Commercial Fishermen's Association, received April 21, 2026
6. Email from Rick Duenas, received April 22, 2026

Motion (N/A)

Staff Summary for May 5-6, 2026

16. Administrative Items – Future Meetings and Business

Today's Item **Information ☐** **Action ☒**

Review and consider any changes to logistics and draft agenda items for the next Commission meetings (May 19 and June 17-18). Consider any changes to previously approved meeting dates or locations and introduce any new business for inclusion on a future meeting agenda.

Summary of Previous/Future Actions

- Approved the draft agenda items for the May 5-6 and May 19 Commission meetings — February 11-12, 2026
- Approved the draft agenda items for the June 17-18 Commission meeting — April 15-16, 2026
- **Today, discuss and consider approving any changes to draft agenda items or logistics for future meetings** — **May 5-6, 2026**

Background

The Commission has one additional regional marine protected area petitions meeting scheduled for May 19 in San Clemente. The next regularly scheduled Commission meeting is June 17-18, 2026 in Sacramento. Draft agenda items for the two meetings were approved at previous meetings (Exhibit 1).

Significant Public Comments (N/A)

Recommendation

Commission staff: Based on today's discussion, provide any new direction regarding logistics and agenda topics for the May 19 and June 17-18 Commission meetings.

Exhibits

1. Draft agenda items for next Commission meetings (May 19, June 17-18)

Motion

Moved by _____ and seconded by _____ that the Commission changes future meeting logistics or agenda items to: _____.

Staff Summary for May 5-6, 2026

17. General Public Comment for Items Not on the Agenda

Today's Item **Information ☒** **Action ☐**

Receive public comment regarding topics within the Commission's authority that are not included on the agenda.

Summary of Previous/Future Actions (N/A)

Background

This item is to provide members of the public an opportunity to address the Commission on topics not on the agenda. Staff may include written materials and comments received prior to the meeting as exhibits in the meeting binder (if received by the written comment deadline), or as supplemental materials and comments at the meeting (if received by the supplemental comment deadline).

General public comments are categorized as either: (1) requests for non-regulatory action or (2) informational-only. Under the Bagley-Keene Open Meeting Act, the Commission cannot discuss or take action on any matter not included on the agenda, other than to schedule issues raised by the public for consideration at future meetings. Thus, non-regulatory requests (any request of the Commission that does not require a regulation change) generally follow a two-meeting cycle (receipt and direction).

Any non-regulatory request submitted during today's meeting, and unrelated to marine protected areas, will be received by the Commission at its next regularly scheduled meeting (currently June 17-18, 2026) under "Non-regulatory requests from previous meetings."

Significant Public Comments (N/A)

Recommendation

Commission staff: Consider whether to add any future agenda items to address issues that are raised during public comment.

Exhibits

1. Santa Barbara Harbor Commission opposes proposed marine protected area expansions, citing conflicts with the Commission's Coastal Fishing Communities Policy and significant economic risks to local fishing-dependent businesses, and requests that decisions on the petitions be deferred pending a full socioeconomic impact review and consideration of stakeholder-driven alternatives, received March 5, 2026
2. Chris Arechaederra, Executive Director, Coastal Conservation Association California (CCA California), states that comments made by an individual during the April 14, 2026 Tribal Committee meeting were inappropriate and do not reflect the views of CCA California. As a result, the organization plans to revoke the individual's membership for failing to meet CCA California's standards of conduct. Received April 16, 2026.

3. A longtime commercial fisherman and two members of the public collectively share their support of science-based decision making in the MPA review process, calling for stronger public engagement — particularly for the Channel Islands — and continued improvement of regional fisheries management, expanding the MPA network to enhance biodiversity and climate resilience through larger, connected reserves, and strong enforcement, received between April 16 and April 22, 2026
4. Kaspar Kazazian, California Surf Fishing, supports allowing shore fishing in the expanded Duxbury State Marine Conservation Area (SMCA), expresses concern that other shore fishing petitions are being assessed by the Department using outdated 2009 criteria, requests the petitions be reevaluated using more current criteria, and requests that shore fishing remain an accessible, equitable, and economically important activity, received April 17, 2026
5. The San Diego Fishermen's Working Group, Alliance of Communities for Sustainable Fisheries, and California Fisherman's Resiliency Association raise concerns regarding the California Ocean Protection Council's approach to the MPA petition process, asserting that adaptive management is being applied inconsistently and that existing regulatory measures, pending federal closures, and scientific findings showing limited biodiversity or resilience gains from expanded MPAs are not being fully considered. They caution that additional closures may displace fishing effort without addressing broader stressors and affirm support for tribal co-management within existing MPAs while opposing further MPA expansions. Received April 18, 2026.
6. Darren Gertler disputes the need for MPA expansion proposals, noting California's fisheries are already effectively managed and additional closures could limit future fishing access and reduce opportunities for youth to develop stewardship connections, received April 20, 2026
7. Monica Martinez, Chair, Santa Cruz County Board of Supervisors, opposes Petition 2023-33MPA and supports the Departments recommendation to deny it due to limited scientific justification, the presence of existing healthy kelp forests in the proposed areas, insufficient community outreach, and potential impacts on local fishing access, received April 21, 2026
8. Tom Hafer, Secretary, Morro Bay Commercial Fishermen's Organization, contests the addition of more MPA designations, asserting that current scientific evidence does not show increases in biodiversity, biomass, or climate-resilience benefits. They state that expanding MPAs would negatively affect the commercial fishing sector, and recommend restoring fishing access, reinstating seasonal spawning closures, and consider adding slot limits as alternative measures. Received April 21, 2026.
9. Patrick Spalding urges the Commission to deny Petition 2023-23MPA noting that the region is already highly regulated, the petition provides no scientific evidence linking fishing restrictions to kelp restoration, and the proposed changes would harm local communities by removing long standing access for over 100,000 residents, received April 22, 2026

Motion (N/A)

Amended Petition

California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

March 14th, 2025

Re: Amendments to Petition to Modify CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests

Dear President Zavaleta and Honorable Commissioners,

Attached is Environment California Research & Policy Center & Azul's request to amend Petition 2023-33MPA. We are amending four of the petition's seven actions following conversations with community members and stakeholders.

We believe that these amendments will allow the state to balance long-term, strong protections for stable kelp forest habitat areas with compatible community uses like shore-based subsistence fishing, and create clarity at Natural Bridges around what uses are prohibited where.

On the following page, Table A ("Table A -- Cover message, Request to Amend Petition 2023-33MPA, Table of proposed amendments") outlines which action IDs we are seeking to amend. Detailed descriptions of our proposed amendments and justifications can be found in Table 2 ("Table 2-- Amendments to Petition to Modify the CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests"), where we have annotated our changes in red underline and ~~black strikethrough~~. Our updated petition form, narrative and appendix A, alongside new support letters are attached following those forms. Our request concludes with the original support letters we submitted with Petition 2023-33MPA.

Thank you for this opportunity, and please reach out if you need any additional information.

Sincerely,

Laura Deehan
State Director
Environment California Research & Policy Center

Table A -- Cover message, Request to Amend Petition 2023-33MPA, Table of proposed amendments

Contact Organization	Petition Tracking Number	Unique Action ID	Affected MPA	MLPA Action Category (modify, establish, abolish)	Action Type	Action Category	Proposed Action	Justification
Laura Deehan, Environment California Research and Policy Center and Azul	2023-33MPA	2023-33MPA_1	Cabrillo State Marine Reserve (SMR)	Modify	Boundaries	Boundary change-expansion	Expand westward and northward by ~~15.2 sq mi~~ ~9.99 sq mi	Stakeholder feedback--commercial fishers (see Table 2)
Laura Deehan, Environment California Research and Policy Center and Azul	2023-33MPA	2023-33MPA_2	Point Dume SMCA	Modify	Boundaries, Regulations	Boundary change-expansion, regulatory change	Expand westward by 4.6 sq mi	Stakeholder feedback--recreational fishers (see Table 2)
Laura Deehan, Environment California Research and Policy Center and Azul	2023-33MPA	2023-33MPA_6	Natural Bridges SMR	Modify	Boundaries	Boundary change-expansion	Expand southward by ~~13.7 sq mi~~ 14.5 sq mi	Stakeholder feedback--MPA collaborative (see Table 2)
Laura Deehan, Environment California Research and Policy Center and Azul	2023-33MPA	2023-33MPA_7	N/A	Establish	Establish new MPA	Establish new MPA	Designate 3.2 sq mi as a new ~~SMR~~ SMCA near Pleasure Point	Stakeholder feedback--recreational fishers (see Table 2)

State of California – Fish and Game Commission
PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE

Tracking Number: (2023-33MPA)

To request a change to regulations under the authority of the California Fish and Game Commission (Commission), you are required to submit this completed form to: California Fish and Game Commission, (physical address) 1416 Ninth Street, Suite 1320, Sacramento, CA 95814, (mailing address) P.O. Box 944209, Sacramento, CA 94244-2090 or via email to FGC@fgc.ca.gov. Note: This form is not intended for listing petitions for threatened or endangered species (see Section 670.1 of Title 14).

Incomplete forms will not be accepted. A petition is incomplete if it is not submitted on this form or fails to contain necessary information in each of the required categories listed on this form (Section I). A petition will be rejected if it does not pertain to issues under the Commission's authority. A petition may be denied if any petition requesting a functionally equivalent regulation change was considered within the previous 12 months and no information or data is being submitted beyond what was previously submitted. If you need help with this form, please contact Commission staff at (916) 653-4899 or FGC@fgc.ca.gov.

SECTION I: Required Information.

Please be succinct. Responses for Section I should not exceed five pages

1. Person or organization requesting the change: Environment California Research and Policy Center and Azul

Name of primary contact person: Laura Deehan, Environment California
Address:
Telephone number:
Email address:

2. **Rulemaking Authority (Required) -** Reference to the statutory or constitutional authority of the Commission to take the action requested: Authority cited: Sections 200, 205(c), 265, 399, 1590, 1591, 2860, 2861 and 6750, Fish and Game Code; and Sections 36725(a) and 36725(e), Public Resources Code.

3. **Overview (Required) -** This joint petition from Environment California and Azul requests minor or modest expansions for 6 state MPAs and the designation of one new State Marine Park in order to enhance protections for California's kelp forests – a critical ecosystem and habitat type that provides myriad benefits for both human and marine communities, and which has experienced significant declines in the last decade due to natural and human-related causes. In particular, the regulation changes put forth in this petition seek to enhance protections for resilient, stable, and persistent kelp forest patches as identified by recent analyses and peer-reviewed research. Proposed boundary and regulation changes include (see Table 1):

i. Cabrillo SMR - expand westward and northward by ~~15.2 sq mi~~ ~9.9 sq mi
ii. Point Dume SMCA - expand westward by 4.6 sq mi
iii. South Point SMR - expand westward by 26.3 sq mi
iv. Gull Island SMR - expand northward by 1.8 sq mi
v. Point Conception SMR - expand eastward by 14.6 sq mi

vi. Natural Bridges SMR - expand southward by ~~13.7 sq mi~~, eastward to the edge of Natural Bridges State Beach by ~14.5 sq mi

vii. Pleasure Point, Santa Cruz - designate 3.2 sq mi as a new State Marine ~~Reserve~~ Conservation Area

4.. **Rationale (Required) -** The state of California has experienced significant losses of its kelp forest cover since the designation of the MPA network. While we could not know which areas would persist in the face of extreme threats at the time the MPA network was originally established, new data and research has since helped to identify kelp beds that have persisted and are most resilient in the face of climatic and other disturbances. Enhancing protections for the state's most resilient, stable, and persistent kelp forest patches now will allow us to preserve what we have left, and increase our chances of restoration in the future. Removing, to the extent possible, direct human impacts on these resilient kelp forests that are potential climatic refugees will not only help these areas persist, but will also enhance the state's restoration efforts for other kelp forests in decline. By focusing resources on the immediate protection of already identified important areas with outsized conservation benefits, the state can advance the goals of the Marine Life Protection Act, advance the new 30x30 target, and take a cost-effective approach to kelp restoration by protecting the natural regeneration potential of kelp forest ecosystems statewide.

See Petition Narrative attached for comprehensive rationale and methods behind site selection.

Primary contacts:
Laura Deehan, Environment California,
Marcela Gutiérrez-Graudiņš, Azul,

SECTION II: Optional Information

5. Date of Petition: 11/29/23

6. Category of Proposed Change

- ☐ Sport Fishing
- ☐ Commercial Fishing
- ☒ Hunting
- ☐ Other, please specify: MPAs, Section 632.

7. The proposal is to: (*To determine section number(s), see current year regulation booklet or https://govt.westlaw.com/calregs*)

- ☒
- ☐ Amend Title 14 Section(s):Westlaw regulations.
- ☐ Add New Title 14 Section(s): Click here to enter text.
- ☐ Repeal Title 14 Section(s): Click here to enter text.

8. If the proposal is related to a previously submitted petition that was rejected, specify the tracking number of the previously submitted petition Click here to enter text. Or ☒ Not applicable.

9. **Effective date**: If applicable, identify the desired effective date of the regulation. If the proposed change requires immediate implementation, explain the nature of the emergency: As soon as is practicable for the State of California

10. **Supporting documentation:** Identify and attach to the petition any information supporting the proposal including data, reports and other documents:
    - Petition Narrative (Amended)
    - Appendix A - Highly persistent kelp beds and "medium priority" restoration sites warranting protection with expanded California MPAs, as identified by Ospina-Giraldo et al. 2023 and Arafeh-Dalmau et al. 2021
    - Table 1 - Proposed Boundary and Regulation Changes
    - Table 2 - Amended Proposed Boundary and Regulation Changes
    - Appendix B - Letters of support:
        - Petition signed by over 10,000 members of the public, collected in 2024
        - Petition signed by 6,000 members of the public, collected by CALPIRG Students
        - Updated letters (2) from 52 scientists
        - Updated letter from 17 businesses
        - Petitioner's letter of support
        - Joint letter from Drs. Nur Arafeh-Dalmau, Fiorenza Micheli, Kyle Cavanaugh, Dawn Murray, and Carolina Olguin-Jacobson
        - Letter from Dr. Tom Bell, Woods Hole Oceanographic Institute
        - Letter from Hannah Nevins, Santa Cruz seabird biologist
        - Joint letter from 27 scientists, researchers, and educators
        - Letter from Assemblymember Dawn Addis, 30th District
        - Letter from Fred Keeley, Mayor of Santa Cruz
        - Joint letter from 21 NGOs
        - Letter from Environmental Action signed by 2,487 members of the public
        - Letter signed by 214 CALPIRG students
        - Letter from 4 California college student leaders
        - Petition signed by over 7,000 members of the public, collected in 2023

11. **Economic or Fiscal Impacts:** Identify any known impacts of the proposed regulation change on revenues to the California Department of Fish and Wildlife, individuals, businesses, jobs, other state agencies, local agencies, schools, or housing:

    Enhanced, long-term protection of highly resilient kelp forest areas will bolster the diverse stakeholders, interests and industries that benefit from our coastal marine resources. Low-impact, non-consumptive recreational activities such as diving, snorkeling, and surfing will be unaffected - and even enhanced - by expanded MPAs, which will also provide enhanced research and education opportunities. Short-term impacts to recreational and commercial fishermen will be outweighed by larger benefits in the future, as has been demonstrated here in California and around the world (Bucaram et al. 2018, Medoff et al 2022). For example, an analysis of CDFW fisheries data found that regional and statewide fishery landings and values do not appear to have been negatively impacted by MPAs (Murray and Hee 2019), and an analysis of California spiny lobster fishery found that short-term losses were compensated for by a 225% increase in total catch after 6 years of MPA designation (Lenihan et al. 2021).

12. **Forms:** If applicable, list any forms to be created, amended or repealed:

SECTION 3: FGC Staff Only

Date received: Click here to enter text.

FGC staff action:

- ☐ Accept - complete
- ☐ Reject - incomplete
- ☐ Reject - outside scope of FGC authority

Tracking Number

Date petitioner was notified of receipt of petition and pending action: _____

Meeting date for FGC consideration: _____

FGC action:

- ☐ Denied by FGC
- ☐ Denied - same as petition _____

Tracking Number

- ☐ Granted for consideration of regulation change

Petition to Modify the CA Marine Protected Area Network
to Enhance Protections for California's Most Resilient Kelp Forests
Joint Submission by Environment California and Azul

PETITION NARRATIVE

Overview

California has experienced severe losses of its kelp forests since the designation of its statewide MPA network. At the time the MPA network was established, we could not know which kelp beds would be most resilient in the face of climate-related threats. However, in light of new data and research identifying the location of the state's persistent and stable kelp beds, adaptive management of the MPA network to better protect these kelp areas is therefore of critical importance.

This petition seeks to strengthen the statewide MPA network's protections for California's most resilient, stable, and persistent kelp forest patches – preserving what we have left now, to increase our chances of successful restoration in the future. Removing, to the extent possible, direct human impacts on these resilient kelp forests that are potential climatic refuges will not only help these areas persist, but will also enhance the state's restoration efforts for other kelp forests in decline. These efforts will also benefit kelp-forest dependent species, such as endangered Southern sea otters and threatened species of abalone. By focusing resources on the immediate protection of already identified important areas with outsized conservation benefits, the state can advance the goals of the Marine Life Protection Act, advance the new 30x30 target, and take a cost-effective approach to kelp restoration by protecting the natural regeneration potential of kelp forest ecosystems statewide.

Importance and decline of California's kelp forests

California's kelp forests provide numerous and invaluable ecological and environmental benefits. These underwater ecosystems serve as critical nurseries for a wide variety of marine species, providing shelter and food for numerous fish, invertebrates, and marine mammals, including the endangered Southern sea otter. Kelp acts as a natural water filter, as it absorbs excess nutrients and helps maintain water quality by reducing the risk of harmful algal blooms. Kelp forests may also play a role in carbon sequestration, capturing atmospheric carbon dioxide and helping to mitigate climate change. In addition to their ecological importance, kelp forests offer enormous cultural and economic benefits to California. They hold enormous cultural and economic significance for many of the Tribes and Indigenous communities that call California's coastal waters home. They support thriving commercial and recreational fisheries, contributing to the state's economy. The beauty and biodiversity of these forests attract tourists and divers, bolstering the state's tourism industry. Moreover, kelp can act as a buffer against coastal erosion, protecting shorelines from the damaging impacts of storms and waves.

However, kelp forests in California have experienced a significant decline in recent years due to a combination of natural and human-induced factors. One of the most important drivers of this

decline is the warming of ocean waters, which has been linked to climate change. Sustained elevated sea temperatures known as "marine heatwaves" have caused significant stress to kelp populations, leading to widespread loss of kelp stands, increased susceptibility of key urchin predators to disease, and exploding populations of herbivorous sea urchins. The recent 2014-2016 marine heatwave left California's kelp forests decimated, with over 90% of bull kelp reported lost in Northern California and significant losses reported across the state (Bell et al. 2023, Arafeh-Dalmau et al. 2023). Human activities have also played a role in the degradation of kelp forests. Overfishing and removal of key predators like sea otters, predatory fishes, California spiny lobster, rock crab, and sea stars have disrupted food webs and resulted in trophic cascades in these ecosystems, allowing herbivorous species to graze on kelp unchecked. Additionally, coastal development, pollution, and nutrient runoff degrade water quality and promote the growth of invasive species that outcompete native kelp. The loss of kelp cover across the state has widespread economic and ecological impacts, has led to the closure of the recreational red abalone fishery in Northern California and has hindered Southern sea otter population expansion, as great white shark bite mortalities increase where kelp cover has declined at the northern and southern edges of this iconic species' range (Nicholson et al. 2018, Moxley et al. 2019).

The decline of California's kelp forests since the time the MPA network was completed seriously threatens the state's marine biodiversity, fisheries, and overall ecological health and undermines the goals of the Marine Life Protection Act. This adaptive management review cycle is critically timed to respond to kelp loss. It is vital to increase protections immediately to confer as much resilience as possible to future disruptions.

MPAs and kelp forest conservation

Around the world, MPAs have been found to enhance the overall health and resilience of ocean ecosystems (Edgar et al. 2014, Jacquemont et al. 2022), and to promote long-term kelp forest stability (Peleg et al. 2023). By providing long-term protections for predator species within their boundaries - such as southern sea otters, California spiny lobster, rock crabs, wolf eels, and predatory fishes like California sheephead - MPAs help to regulate local populations of kelp consumers, thereby having cascading positive impacts on kelp growth and persistence (Eisaguirre et al. 2020, Kawamata & Taino 2021, House & Allen 2022, Heineke et al. 2023). Promoting intact food webs and natural ecological processes can also help to improve overall resilience in the face of other natural and man-made stressors that MPAs cannot directly mitigate, such as warming ocean temperatures and nutrient runoff (Roberts et al. 2017, Arafeh-Dalmau et al. 2023). Noting these benefits and abilities, the California MLPA specifically identified kelp forests as one of the habitats requiring greater protection (MLPA Section 2856(a)(2)(A)).

We have seen the benefits of long-term protection of California's kelp forests. The Decadal Management Review of the statewide MPA network found that, while kelp species across the state experienced large-scale declines during the 2014-2016 marine heatwave, "overall, kelp canopy was more stable and appeared to be more resilient inside MPAs" (CA MPA DMR 2022). The South Coast region's kelp forests, in particular – where fishing pressure was highest before the implementation of the MLPA – seem to have benefited from protections, with increases in

California sheephead and California spiny lobster within MPAs thought to help facilitate grazer suppression and lead to more stable giant kelp abundance during and after the marine heatwave (DMR Kelp Forest Technical Report 2021).

MPAs can also serve as a complementary management measure for kelp restoration. While California's MPAs were not explicitly designed with the restoration of kelp forests in mind, MPAs in general are considered a form of indirect kelp restoration due to their ability to promote intact food webs through reduced fishing pressure, which in turn helps to reduce kelp grazing pressure, as described above (Hopf et al. 2022). In addition, stable kelp forests help to promote natural regeneration of nearby areas, by providing a supply of propagules to recovering populations close by (Arafeh-Dalmau et al. 2021, Giraldo-Ospina et al. 2023). A recent global synthesis of kelp restoration found that the most successful restoration projects are those located near existing stable kelp forests (Eger at al. 2022). MPAs that protect these stable kelp forests can help to promote their continued persistence by removing extractive or destructive activities, and potentially further boost kelp restoration efforts by promoting healthy predator populations that "spillover" into nearby areas (e.g. Lenihan et al. 2021), helping to reduce grazer pressure in a broader area (Kawamata & Taino 2021). Harnessing the power of these dense, stable, and resilient kelp beds for the natural regeneration of nearby areas using area-based protection can also free up much-needed resources needed for intensive, direct restoration efforts elsewhere.

Based on this new and growing scientific evidence base, the state should protect more of California's most stable and resilient kelp forests now, in order to enhance the conservation benefits and ability of our statewide MPA network to meet the goals of the MLPA while giving kelp restoration efforts a leg up in the future.

<u>Identifying resilient kelp forests in California</u>

Since the creation of California's MPA network, new research has emerged utilizing satellite and in-situ data over a decades-long year timescale to identify the kelp forests exhibiting higher levels of persistence and stability in California.

A multi-institution team of researchers used satellite data to provide high-resolution maps of the most persistent giant kelp and bull kelp patches in California during the last 35 to 38 years (Arafeh-Dalmau et al. 2021, Arafeh-Dalmau et al. 2023). Importantly, these studies analyzed the extent to which highly persistent kelp patches are protected within the state's MPA network, and found that these important kelp forest areas are currently not adequately protected among regions. Only 20.9 % of the most highly persistent giant kelp forests in Central California, 8.4% in Southern California, and less than 1% in Northern California are fully protected in MPAs (Arafeh-Dalmau et al. 2021). Bull kelp is even less well protected – only 3.4% of the the most highly persistent bull kelp forests in Northern Central California, and 0.1% of those in Northern California are fully protected in MPAs (Arafeh-Dalmau et al. 2023). The authors of these studies recommend increasing protections for these important and highly persistent kelp forest areas.

In addition, the Ocean Protection Council recently funded the development of an ecologically-focused, spatially explicit prioritization tool to identify priority kelp restoration sites in

California waters (Giraldo-Ospina et al. 2023). Notably, this research used in-situ data as well as satellite imagery to determine the stability and current status of kelp forests across California's coastline, making the resulting prioritization index particularly robust. Of particular importance to this petition, the tool identifies kelp beds that have been historically stable, that persisted or bounced back quickly during the 2014-2016 marine heatwave, and that are currently doing well compared to other kelp forests – namely, the most stable and resilient kelp forest areas in state waters. Characterized as "medium priority" restoration sites – that is, historically stable kelp beds that are currently in good condition – these areas have a large potential for enhancing the natural regeneration and/or successful restoration actions of nearby kelp beds. The authors suggest potential actions: "Monitor these sites for triggers that may warrant intervention; Defend these sites from current or future threats; and Study these sites to understand the mechanisms of resistance to the marine heatwave."

In light of these new studies, and in line with the site classifications put forth by Giraldo-Ospina et.al, we strongly recommend the state take action to protect as much of these newly-identified, stable, highly resilient kelp forest patches as possible with well-protected MPAs in the coming years. Protecting these iconic, dense kelp beds is one of California's best shots at preserving – and eventually restoring – our critically important kelp forest ecosystems quickly and cost-effectively.

Proposed areas for additional or enhanced MPA protections

Using spatially-explicit data detailing where highly persistent kelp beds and "medium priority" restoration sites overlap, as outlined by Arafeh-Dalmau et al. 2021, 2023, and Giraldo-Ospina et al. 2023, we identified areas where additional protections are necessary to promote the continued persistence and stability of California's healthiest kelp forests (see Table 1).

Preference was given to areas already within or adjacent to existing California MPAs, recognizing the substantial scientific and stakeholder input involved in creating the original network through the MLPA process, and in order to adhere as much as possible to the original intent and science-based spacing guidelines provided by the SAT during the creation of the network. We recommend reducing spacing between MPAs in some places is necessary to increase the representation of these highly persistent and resilient kelp beds that have a greater chance of persisting into the future in our state MPA network. We also encourage the state to consider whether there are other areas of highly persistent and resilient kelp not included in this proposal that would be good candidates for new or expanded MPA protections.

To develop the proposal further, we collected information through interviews and other personal communications with scientists including Dr. Anita Giraldo-Ospina and Dr. Nur Arafeh Dalmau, who graciously provided data, assisted with the interpretation of results to identify the recommended areas, and reviewed the proposal for accuracy. We also gathered expert input and data from individuals, local community groups, MPA Collaborative Network members, conservation organizations, and more. While their cooperation should not be taken as an endorsement, we greatly appreciate the information and guidance provided by these individuals which contributed to the overall accuracy and scientific validity of this proposal.

We did not focus on “high priority” restoration sites identified by Giraldo-Ospina et al. 2023, in order to avoid proposing MPA protections for areas that may require more intensive, direct restoration methods, such as grazer suppression activities, that are not currently permitted within MPA boundaries. However, we urge the state to consider what, if any, direct restoration activities might be compatible with different MPA designations within the state’s network (e.g. line 20 of the MPA Collaborative Network’s Vetted Regulation Recommendations), recognizing that the impacts of climate change may still degrade some kelp beds within MPAs in the future, and proactive restoration efforts may be warranted.

Since submitting our petitions in 2023, we have received feedback from community members and stakeholders, including members of the recreational and commercial fishing communities. Based on this feedback, we have revised the boundaries and regulations in several of the areas where we have proposed changes. These changes can be found in red in Table 1.

As noted in our original petitions, ~~Finally, it should be noted that~~, while the general location and specific boundaries for proposed areas are listed in Table 1, we continue to be ~~are~~ happy to work with State and its partners to refine the proposed areas and boundaries in more detail, keeping in mind CDFW MPA design guidelines and the state’s interest in taking a holistic approach for reviewing petitions and enhancing the network to meet the statewide 30x30 goal.

Socioeconomic impacts

Enhanced, long-term protection of highly resilient kelp forest areas will bolster the diverse stakeholders, interests and industries that benefit from our coastal marine resources. Low-impact, non-consumptive recreational activities such as diving, snorkeling, and surfing will be unaffected – and even enhanced – by expanded MPAs, which will also provide enhanced research and education opportunities. Short-term impacts to recreational and commercial fishermen will be outweighed by larger benefits in the future, as has been demonstrated here in California and around the world (Bucaram et al. 2018, Lenihan et al. 2021, Medoff et al. 2022). For example, an analysis of CDFW fisheries data found that regional and statewide fishery landings and values do not appear to have been negatively impacted by MPAs (Murray and Hee 2019), and an analysis of California spiny lobster fishery found that any short-term losses were compensated for by a 225% increase in total catch after 6 years of MPA designation (Lenihan et al. 2021).

Relevance to MLPA Goals and DMR Recommendations

Enhancing the protection of kelp forests in California aligns strongly with Goals 1, 2, 3, and 4 of the California MLPA. By safeguarding California’s most resilient and stable kelp forests, as detailed in this petition, we will preserve critical habitat for a diverse range of marine species, from endangered sea otters to commercially valuable fish species. Kelp forests play a crucial role in the recovery and sustainability of marine life populations, as they serve as nurseries and refuges for many species, including those targeted by fisheries. These vibrant ecosystems also offer intrinsic value by supporting biodiversity and exceptional natural beauty, and their recreational and scientific use and enjoyment make them vital for the public (MLPA Section 2856(a)(2)(A)).

In addition, the regulation and boundary changes proposed by this petition specifically advance DMR Recommendation #4 - “Apply what is learned from the DMR to support proposed changes to the MPA Network and Management Program”. The DMR found that California MPAs helped to promote kelp forest resilience and recovery during and after the severe 2014-2016 marine heatwave. In the face of increasing climate impacts and as we struggle to recover from recent kelp forest declines across the state, expanding the MPA network in key, targeted areas can help to ensure the continued persistence of our remaining, most resilient kelp forests.

Relevance to Broader State Processes, Policies, and Goals

We applaud the actions that the State of California has already taken to respond to the severe declines in kelp forest cover across the state, including recent commercial kelp harvest closures in Northern California, annual harvest limits in Northern California, and the initiation of a statewide Kelp Restoration and Management Plan. We strongly support taking a whole-ocean approach to ensuring sustainable and effective management of kelp in our state waters (Crowfoot et al. Objective 3.2).

The MPA changes proposed in this petition complement the state’s ongoing kelp restoration and management work. They will also help to reduce the state’s costs associated with kelp restoration – harnessing the ability of well-protected, resilient kelp beds to promote the natural regeneration of nearby areas, allowing the state to direct more of its much-needed resources and funding for intensive restoration efforts in harder-hit areas with little kelp cover left.

Finally, this petition aligns strongly with the statewide goal set by both Governor Newsom and the legislature to conserve 30% of our coastal waters by 2030. If implemented in its entirety, the actions proposed in this petition will see an additional ~1.5% of state waters protected in highly to fully-protected areas, while helping the network to better achieve the goals set forth in the MLPA.

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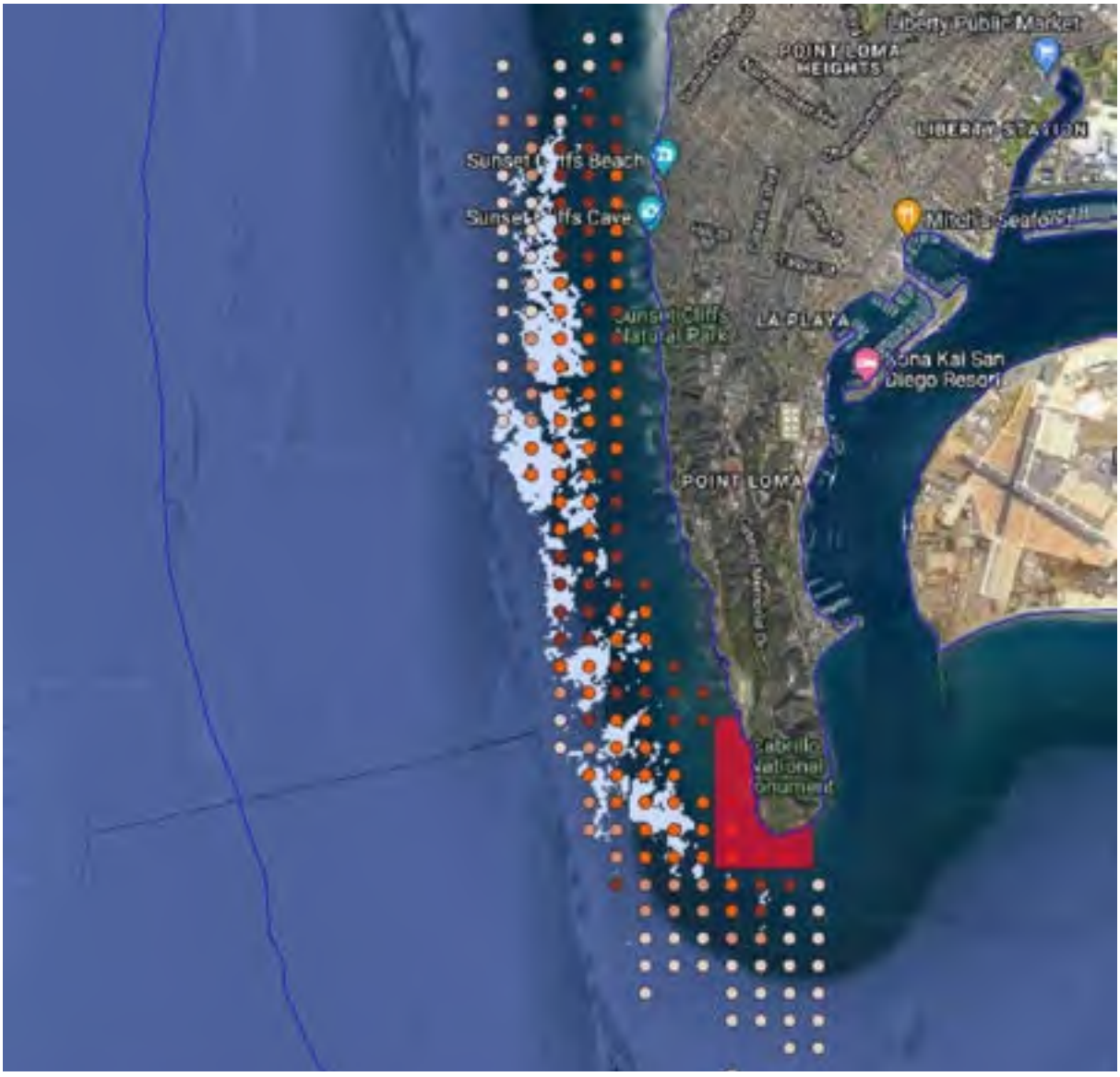
Appendix A
Distribution of Highly Persistent Kelp Beds Near State MPAs Proposed for Expansion

Highly persistent kelp beds identified by Arafeh-Dalmau et al. 2021 are depicted by light blue pixels. Priority kelp restoration sites characterized by Ospina-Giraldo et al. 2023 are shown using colored circles. “High priority” restoration sites are dark red, “medium priority” sites are bright orange, and “low” and “very low” priority sites are light and very light gray.

Existing California MPAs are denoted by red, purple, or blue polygons, and the 3 nm state waters limit is shown as a blue line.

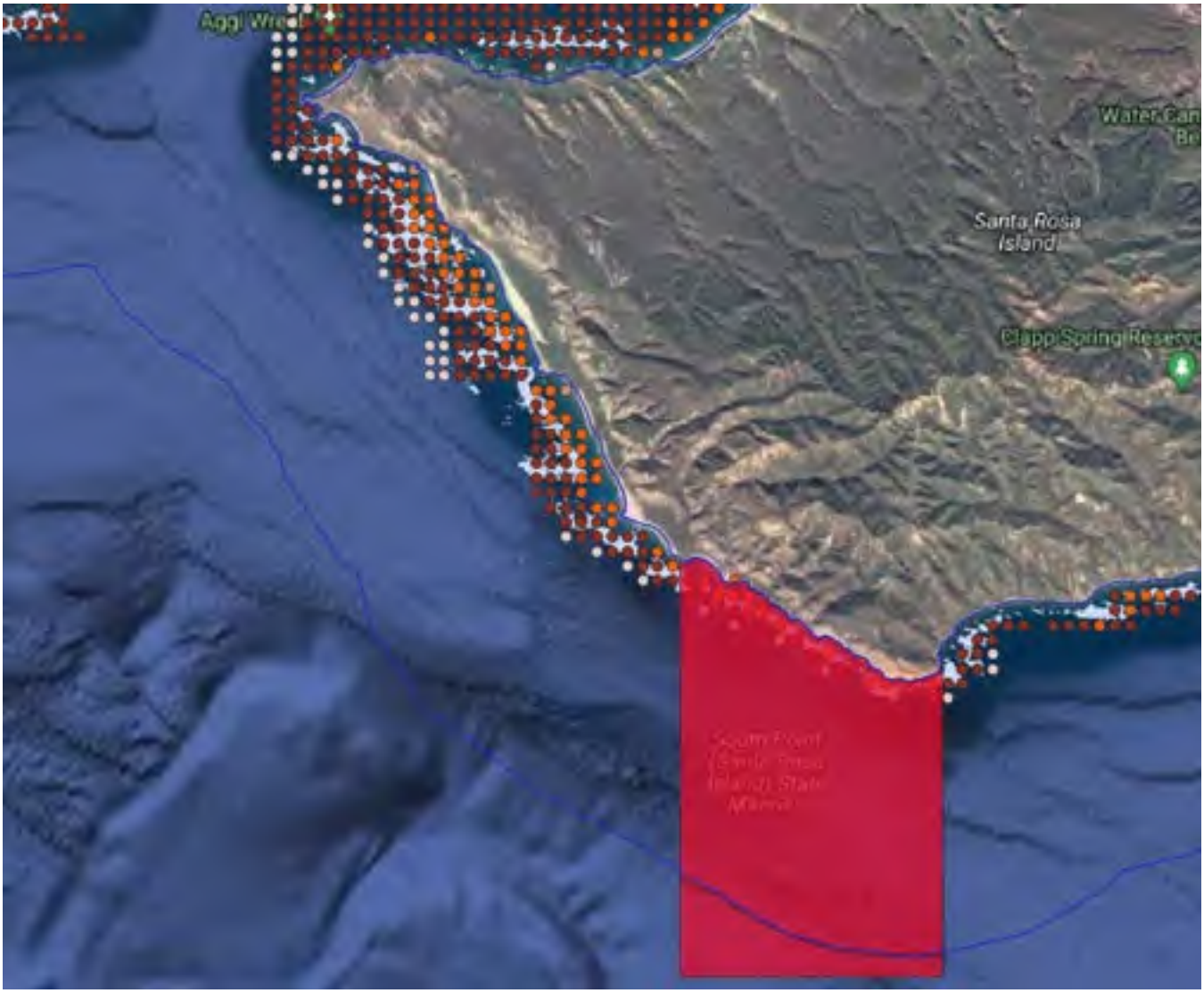
<u>Cabrillo SMR</u>



Point Dume SMCA

Gull Island SMR

South Point SMR



Point Conception SMR

Natural Bridges SMR

Pleasure Point, Santa Cruz

TABLE 1 - Petition to Modify the CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests

Name	Proposed action	Brief description	Proposed regulations and boundary change	Historical context	Notes
Cabrillo State Marine Reserve (SMR)	Expand by 15.2 sq miles	Large patches of dense, stable kelp forests exist along a large stretch of coast along Point Loma to the north of the very small existing SMR. Expansion is compatible with Cabrillo SMR's current goal to "protect diverse kelp forest, surfgrass, sandy seafloor, and intertidal and nearshore rocky reef habitat". Approximately 1,000,000 people visit the area annually which provides access to the ocean for thousands of school children and other groups. Recreational and subsistence fishing is common here.	No change in regulations. Maintain existing eastern and southern boundaries. Shift the western boundary to the edge of state waters per state MPA design and size guidelines, and shift the northern boundary to a visible geographic landmark at Swordfish Point to bring resilient kelp beds along the western shore of Point Loma within MPA protections. The new proposed boundaries would form straight lines, follow the mean high tide line, and follow the state waters boundary from the current southeast corner of the SMR to approximately the following coordinates: - Southwest corner: 32° 66.223' N lat. 117° 30.345' W long. - Northwest corner: 32° 72.539' N lat. 117°31.664' W long. - Northeast corner: 32° 72.529' N lat. 117°25.836' W long.	This area was initially included in a large proposed SMR ("Point Loma SMR", Proposal C) in recognition that this is an area of greater biological diversity than other areas. However, the state opted for a reserve far smaller than the science-based minimum size guidelines to avoid conflict with fishing grounds offshore.	To balance kelp forets protection with recreation and low-impact subsistence fishing, we are willing to consider the creation of a new SMCA alongside the existing SMR that allows for recreational hook-and-line fishing and spearfishing.
Point Dume State Marine Conservation Area (SMCA)	Expand by 4.6 sq mi	A large, dense, resilient kelp bed is located immediately west of the current SMCA's boundaries. We propose a small expansion of the SMCA to protect this important kelp bed. Currently, the SMCA protects nearly 16 square miles of sandy beach and seafloor habitat, rocky shores, kelp forests, surfgrass beds, an upwelling zone, and less than a quarter square mile of deep submarine canyon, which together create an area of high biodiversity. This SMCA also provides for excellent surfing, diving, tidepooling, and whale watching opportunities.	No change in regulations. Shift the western boundary to the edge of El Sol County Beach to bring the highly resilient patch of dense kelp forest just west of the current SMCA into MPA protection. The proposed new western boundary forms a straight line extending southward from the mean high tide line to the 3 nm state waters limit at approximately the following coordinates: - Northwest corner: 34°0413' N lat. 118°9063' W long. - Southwest corner: 33°9899' N lat. 118°9063' W long.	The kelp beds within the proposed expansion area were part of a historic SMP proposal ("Lechuza SMP", Proposal C) that sought to protect these persistent kelp beds along the Malibu Coast. This proposed SMP was not taken up by the state at the time, likely in favor of designating the Point Dume SMR/SMCA complex just to the east and to maintain spacing guidelines. In addition, the Point Dume SMR/SMCA boundaries were placed to the west of Point Dume in order to leave waters to the east of the point open/unprotected to accomodate for heavy commercial and recreational use - suggesting that the western side of the point was seen as less desirable for commercial and recreational interests.	
South Point SMR	Expand by 26.3 sq mi	The Northern Channel Islands contain some of the largest remaining resilient kelp beds in state waters, although large portions of the islands have experienced die-offs and are rated as "high priority" sites by Ospina-Giraldo et al. 2023. The stretch of coastline to the northwest of South Point SMR on Santa Rosa Island contains one of the largest contiguous resilient kelp beds on the islands. The SMR currently protects around 13 square miles of ocean habitat including rocky reefs, sandy seafloor, surfgrass beds, and small patches of highly resilient kelp forests. Expansion would help to bring the large stretch of resilient kelp bed to the northwest under MPA protection, and is compatible with the SMR goal to "protect the rocky reef, kelp forest, sandy plain habitat found here". This area is remote and only accessible via boat. Backcountry beach camping along the South Point SMR shoreline is permitted from September 16 through December 3.	No change in regulations. Shift the western boundary of the SMR to the westernmost tip of Santa Rosa Island with protections extending south to the 3 nm state waters limit, bringing a large, contiguous patch of resilient kelp forest along the southwest coastline under MPA protections. The new western boundary should form a straight line extending south, connecting the island's westernmost tip and the 3 nm state waters limit at approximately the following coordinates: -Northwest corner: 34°0013' N lat. 120°2507' W long. -Southwest corner: 33°938' N lat. 120°2507' W long.	South Point SMR was established as one of the 13 Channel Islands MPAs in 2003 and re-established with no changes as part of the state MPA network in 2012.	
Gull Island SMR	Expand by 1.8 sq mi	The Northern Channel Islands contain some of the largest remaining resilient kelp beds in state waters, although large portions of the islands have experienced die-offs and are rated as "high priority" sites by Ospina-Giraldo et al. 2023. A small area of unprotected coastline to the northwest of Gull Island SMR contains highly resilient kelp beds worth protecting. Expansion is compatible with the SMR goal to "protect the rocky reef, kelp forest, sandy plain habitat found here".	No change in regulations. Shift the northern boundary of the SMR to the mean high tide line along the southwest coastline of Santa Cruz Island, to bring the highly resilient kelp beds at Posa Anchorage under MPA protection. The new northern boundary should follow the mean high tide line until it joins with an extension of the existing western boundary, at approximately 34°000' N lat.	Gull Island SMR was established as one of the 13 Channel Islands MPAs in 2003 and re-established with no changes as part of the state MPA network in 2012.	
Point Conception SMR	Expand by 14.6 sq mi	A very large patch of resilient kelp forest exists just outside the current eastern boundary of Point Conception SMR. Ospina-Giraldo et al 2023 identified this patch as having a lower risk of future losses compared to nearby kelp patches, and being valuable for natural regeneration and long-term monitoring ("cluster 2" in Hypothetical Use Case #4). Data from an existing shore-based radar system that has been deployed at the site since 2020 shows the area immediately east of the currently MPA appears to be used largely for transit, rather than fishing. Access to this area is currently limited, allowing for additional protections to confer high conservation value while minimizing socioeconomic impacts.	No change in regulations. Maintain existing western and southern boundaries, and shift eastern boundary westward between Arroyo San Agustin and Canada de la Agujas beaches to bring the large resilient kelp bed to the east of Point Conception SMR within MPA protections. The new eastern boundary should form a straight line between the mean high tide line and the 3nm state waters boundary at approximately the following coordinates: -Northeast corner: 34°45' N lat. 120°3445' W long. -Southeast corner: 34°40' N lat. 120°3445' W long.	The proposed expansion area appears to have been initially included in a larger proposed SMR during the MLPA planning process (South Coast Proposal C) in recognition of this area's biological and oceanographic importance. The rationale for the smaller current boundaries for Point Conception SMR is unclear from the historical documents provided.	

Natural Bridges SMR	Expand by 13.7 sq mi	Multiple patches of resilient kelp forest exist just offshore from the current SMR boundaries. The original intent of this SMR was to protect the intertidal zone from tidepooling and shore fishing while leaving skiff fishing unimpacted. However, increasing climate impacts, the critical condition of the state's kelp forests, and strong public support for expanded protections, warrant a reevaluation and expansion of this SMR to protect these highly resilient kelp beds and newly vulnerable marine populations.	No change in regulations. Maintain existing western and eastern boundaries, and shift southern boundary out to the 3nm state waters limit to protect the resilient kelp beds and deeper habitats and pelagic waters per CFDW design and feasibility guidelines, as well as recently published peer-reviewed guidelines for climate-resilient MPA design (Arafeh-Dalmau et al. 2023).	The Natural Bridges SMR was designed as an intertidal SMR, specifically to avoid socio-economic impacts. The preferred option of siting a SMR that extends to greater depth range (as identified in the IDC proposal) was not pursued in an effort to reduce socio-economic impacts by avoiding siting SMRs adjacent to Santa Cruz harbor.	
Pleasure Point SMR	Designate ~3.2 sq mi	A large, dense patch of resilient kelp forest exists just off Pleasure Point. The kelp beds of the northern Monterey Bay are some of the largest and most persistent in the state. This area in particular is a well-known and popular surfing location, with little commercial fishing taking place (pers. comms H. Nevins) and minimal recreational hook-and-line fishing and spearfishing occurring when surf conditions are flat. There are strong access points to the area, many educational and recreational opportunities, and a growing, colloquially named "shark park" nearby as the presence of juvenile white sharks increases. See letter from H. Nevins in Appendix B detailing the broader conservation value of the area.	We propose a no-take SMR to best protect this large kelp forest from all destructive and extractive activities. See Column F for an acceptable alternative, and additional consideration. Proposed regulations are as follows: "*It is unlawful to injure, damage, take, or possess any living, geological, or cultural marine resource*." Proposed boundaries range from the northeastern edge of Trees Beach along the mean high tide line to the tip of Soquel Point. From the mean high tide line, the proposed boundary extends south (offshore) by 2.5 sq mi, in keeping with CDFW design guidelines and recent peer-reviewed guidelines for climate-resilient MPA design recommending a variety of habitats and depth ranges be represented within an MPA (Arafeh-Dalmau et al. 2023). While this area would not meet the state's minimum size guidelines, we recognize the importance of this area for recreational fishing and believe a strategically placed MPA of this size would protect as much of the kelp forest as possible while minimizing economic impact to the larger region, and providing conservation benefits to the broader region as detailed in Appendix A's letter from H. Nevins.	n/a	To balance kelp forest protection with recreation and low-impact subsistence fishing, we are willing to consider a new Pleasure Point SMCA that allows for recreational hook-and-line fishing and spearfishing. In addition, to better protect the ecologically rich and biologically important waters of Soquel Cove nearby, we strongly suggest the state consider designating a larger State Marine Park (or State Marine Conservation Area allowing for all recreational activities) alongside, or in tandem with, the Pleasure Point detailed here for enhanced recreational and ecological benefits (see Appendix A letter from H. Nevins).

TABLE 2 - Amendments to Petition to Modify the CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests

Name	Proposed action	Brief description	Proposed regulations and boundary change	Historical context	Notes/Justification
Cabrillo State Marine Reserve (SMR)	Expand by ~~15.2 sq miles~~ ~9.9 sq mi	Large patches of dense, stable kelp forests exist along a large stretch of coast along Point Loma to the north of the very small existing SMR. Expansion is compatible with Cabrillo SMR's current goal to "protect diverse kelp forest, surfgrass, sandy seafloor, and intertidal and nearshore rocky reef habitat". Approximately 1,000,000 people visit the area annually which provides access to the ocean for thousands of school children and other groups. Recreational and subsistence fishing is common here.	No change in regulations. Maintain existing eastern and southern boundaries. Shift the western boundary to the edge of state waters per state MPA design and size guidelines, and shift the northern boundary to a visible geographic landmark at New Hope Rock, such as the collection of buildings north of Building 609 ~~Swordfish Point~~ to bring resilient kelp beds along the western shore of Point Loma within MPA protections. The new proposed boundaries would form straight lines, follow the mean high tide line, and follow the state waters boundary from the current southeast corner of the SMR to approximately the following coordinates: - Southwest corner: 32° 66.223' N lat. 117° 30.345' W long. - Northwest corner: ~~32° 72.539' N lat. 117°31.664' W long.~~ 32° 42' 12.7188" N lat 117° 18' 53.5788" W long ~~- Northeast corner: 32° 72.529' N lat. 117°25.836' W long.~~ 32° 42' 12.7188" N lat 117° 15' 20.3976" W long	This area was initially included in a large proposed SMR ("Point Loma SMR", Proposal C) in recognition that this is an area of greater biological diversity than other areas. However, the state opted for a reserve far smaller than the science-based minimum size guidelines to avoid conflict with fishing grounds offshore.	To balance kelp forets protection with recreation and low-impact subsistence fishing, we are willing to consider the creation of a new SMCA alongside the existing SMR that allows for recreational hook-and-line fishing and spearfishing. Following conversations with local stakeholders, we are proposing a smaller reserve that will still protect areas of stable kelp forest while allowing for local commercial lobster fishing north of New Hope Rock
Point Dume State Marine Conservation Area (SMCA)	Expand by 4.6 sq mi	A large, dense, resilient kelp bed is located immediately west of the current SMCA's boundaries. We propose a small expansion of the SMCA to protect this important kelp bed. Currently, the SMCA protects nearly 16 square miles of sandy beach and seafloor habitat, rocky shores, kelp forests, surfgrass beds, an upwelling zone, and less than a quarter square mile of deep submarine canyon, which together create an area of high biodiversity. This SMCA also provides for excellent surfing, diving, tidepooling, and whale watching opportunities.	~~No change in regulations.~~ Propose allowing recreational take from shore by hook and line and spearfishing. Shift the western boundary to the edge of El Sol County Beach to bring the highly resilient patch of dense kelp forest just west of the current SMCA into MPA protection. The proposed new western boundary forms a straight line extending southward from the mean high tide line to the 3 nm state waters limit at approximately the following coordinates: - Northwest corner: 34°0413' N lat. 118°9063' W long. - Southwest corner: 33°9899' N lat. 118°9063' W long.	The kelp beds within the proposed expansion area were part of a historic SMP proposal ("Lechuza SMP", Proposal C) that sought to protect these persistent kelp beds along the Malibu Coast. This proposed SMP was not taken up by the state at the time, likely in favor of designating the Point Dume SMR/SMCA complex just to the east and to maintain spacing guidelines. In addition, the Point Dume SMR/SMCA boundaries were placed to the west of Point Dume in order to leave waters to the east of the point open/unprotected to accomodate for heavy commercial and recreational use - suggesting that the western side of the point was seen as less desirable for commercial and recreational interests.	- The Santa Ynez Band of Chumash Indians are exempt from this SMCA's take regulations - it is a culturally important area - Petition 2023-14MPA, submitted by the California Sea Urchin Commission, proposes to expand take even further by allowing for the commercial take of urchins within this SMCA. - Except for the petition above, FGC meetings and staff summary Nov/Dec notes show no complaints submitted by fishing interests in the Point Dume region We recieved requests from recreational fishers that this change would increase access for subsistence fishing and we feel this approach balances recreation and kelp conservation We would also be open to allowing recreational hook and line and spear fishing from non-motorized watercraft, should there be a legal pathway to creating that form of exemption
South Point SMR	Expand by 26.3 sq mi	The Northern Channel Islands contain some of the largest remaining resilient kelp beds in state waters, although large portions of the islands have experienced die-offs and are rated as "high priority" sites by Ospina-Giraldo et al. 2023. The stretch of coastline to the northwest of South Point SMR on Santa Rosa Island contains one of the largest contiguous resilient kelp beds on the islands. The SMR currently protects around 13 square miles of ocean habitat including rocky reefs, sandy seafloor, surfgrass beds, and small patches of highly resilient kelp forests. Expansion would help to bring the large stretch of resilient kelp bed to the northwest under MPA protection, and is compatible with the SMR goal to "protect the rocky reef, kelp forest, sandy plain habitat found here". This area is remote and only accessible via boat. Backcountry beach camping along the South Point SMR shoreline is permitted from September 16 through December 3.	No change in regulations. Shift the western boundary of the SMR to the westernmost tip of Santa Rosa Island with protections extending south to the 3 nm state waters limit, bringing a large, contiguous patch of resilient kelp forest along the southwest coastline under MPA protections. The new western boundary should form a straight line extending south, connecting the island's westernmost tip and the 3 nm state waters limit at approximately the following coordinates: -Northwest corner: 34°0013' N lat. 120°2507' W long. -Southwest corner: 33°938' N lat. 120°2507' W long.	South Point SMR was established as one of the 13 Channel Islands MPAs in 2003 and re-established with no changes as part of the state MPA network in 2012.	Santa Rosa Island is a traditional home of the Chumash Located where warm water currents from the tropics and cold water currents from Alaska converge = ecologically rich and important area
Gull Island SMR	Expand by 1.8 sq mi	The Northern Channel Islands contain some of the largest remaining resilient kelp beds in state waters, although large portions of the islands have experienced die-offs and are rated as "high priority" sites by Ospina-Giraldo et al. 2023. A small area of unprotected coastline to the northwest of Gull Island SMR contains highly resilient kelp beds worth protecting. Expansion is compatible with the SMR goal to "protect the rocky reef, kelp forest, sandy plain habitat found here".	No change in regulations. Shift the northern boundary of the SMR to the mean high tide line along the southwest coastline of Santa Cruz Island, to bring the highly resilient kelp beds at Posa Anchorage under MPA protection. The new northern boundary should follow the mean high tide line until it joins with an extension of the existing western boundary, at approximately 34°000' N lat.	Gull Island SMR was established as one of the 13 Channel Islands MPAs in 2003 and re-established with no changes as part of the state MPA network in 2012.	

TABLE 2 - Amendments to Petition to Modify the CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests					
Point Conception SMR	Expand by 14.6 sq mi	A very large patch of resilient kelp forest exists just outside the current eastern boundary of Point Conception SMR. Ospina-Giraldo et al 2023 identified this patch as having a lower risk of future losses compared to nearby kelp patches, and being valuable for natural regeneration and long-term monitoring ("cluster 2" in Hypothetical Use Case #4). Data from an existing shore-based radar system that has been deployed at the site since 2020 shows the area immediately east of the currently MPA appears to be used largely for transit, rather than fishing. Access to this area is currently limited, allowing for additional protections to confer high conservation value while minimizing socioeconomic impacts.	No change in regulations. Maintain existing western and southern boundaries, and shift eastern boundary westward between Arroyo San Agustin and Canada de la Agujas beaches to bring the large resilient kelp bed to the east of Point Conception SMR within MPA protections. The new eastern boundary should form a straight line between the mean high tide line and the 3nm state waters boundary at approximately the following coordinates: -Northeast corner: 34°45' N lat. 120°3445' W long. -Southeast corner: 34°40' N lat. 120°3445' W long.	The proposed expansion area appears to have been initially included in a larger proposed SMR during the MLPA planning process (South Coast Proposal C) in recognition of this area's biological and oceanographic importance. The rationale for the smaller current boundaries for Point Conception SMR is unclear from the historical documents provided.	Ecologically rich and important to Indigenous Chumash people The remoteness of its location makes it one of the least-visited mainland marine protected areas (MPAs) along California's south coast
Natural Bridges SMR	Expand by ~~13.7 sq mi~~ ~14.5 sq mi	Multiple patches of resilient kelp forest exist just offshore from the current SMR boundaries. The original intent of this SMR was to protect the intertidal zone from tidepooling and shore fishing while leaving skiff fishing unimpacted. However, increasing climate impacts, the critical condition of the state's kelp forests, and strong public support for expanded protections, warrant a reevaluation and expansion of this SMR to protect these highly resilient kelp beds and newly vulnerable marine populations.	No change in regulations. Maintain existing western ~~and eastern~~ boundary, shift eastern boundary to encompass Natural Bridges State Beach and shift southern boundary out to the 3nm state waters limit to protect the resilient kelp beds and deeper habitats and pelagic waters per CFDW design and feasibility guidelines, as well as recently published peer-reviewed guidelines for climate-resilient MPA design (Arafeh-Dalmau et al. 2023).	The Natural Bridges SMR was designed as an intertidal SMR, specifically to avoid socio-economic impacts. The preferred option of siting a SMR that extends to greater depth range (as identified in the IDC proposal) was not pursued in an effort to reduce socio-economic impacts by avoiding siting SMRs adjacent to Santa Cruz harbor.	Proximity of Santa Cruz Harbor to other ports, many fishermen travel within and beyond the region to conduct their fishing activities. We would consider a southern boundary that is closer to shore, like near the continental shelf, if the state recieves feedback to indicate such a change would better balance conservation with fishing interests. Santa Cruz MPA collaborative had identified this expansion as option that would clarify and reduce confusion around permitted uses at the state beach.
Pleasure Point ~~SMR~~ SMCA	Designate ~3.2 sq mi	A large, dense patch of resilient kelp forest exists just off Pleasure Point. The kelp beds of the northern Monterey Bay are some of the largest and most persistent in the state. This area in particular is a well-known and popular surfing location, with little commercial fishing taking place (pers. comms H. Nevins) and minimal recreational hook-and-line fishing and spearfishing occurring when surf conditions are flat. There are strong access points to the area, many educational and recreational opportunities, and a growing, colloquially named "shark park" nearby as the presence of juvenile white sharks increases. See letter from H. Nevins in Appendix B detailing the broader conservation value of the area.	We propose a State Marine Conservation Area ~~no-take SMR~~ to protect this large kelp forest from ~~all~~ most destructive and extractive activities. Proposed regulations are as follows: "*It is unlawful to injure, damage, take, or possess any living, geological, or cultural marine resource with the following exceptions: recreational take from shore by hook and line and spearfishing*." Proposed boundaries range from the northeastern edge of Trees Beach along the mean high tide line to the tip of Soquel Point. From the mean high tide line, the proposed boundary extends south (offshore) by 2.5 sq mi, in keeping with CDFW design guidelines and recent peer-reviewed guidelines for climate-resilient MPA design recommending a variety of habitats and depth ranges be represented within an MPA (Arafeh-Dalmau et al. 2023). While this area would not meet the state's minimum size guidelines, we recognize the importance of this area for recreational fishing and believe a strategically placed MPA of this size would protect as much of the kelp forest as possible while minimizing economic impact	We acknowledge the deliberate effort during the MLPA planning process to avoid siting MPAs near recreational access areas to allow for small vessels and kayaks to access fishing opportunities. However, in light of changing conditions, the extreme and significant losses of kelp cover over the past 10 years, and strong public support for additional protections, increased protections are warranted for this last remaining, resilient kelp area. Sufficient access remains for recreational use in immediate vicinity.	To balance kelp forest protection with recreation and low-impact subsistence fishing, we are proposing a new ~~willing to consider a new~~ Pleasure Point SMCA that allows for shore-based recreational hook-and-line fishing and spearfishing. In addition, to better protect the ecologically rich and biologically important waters of Soquel Cove nearby, we strongly suggest the state consider designating a larger State Marine Park (or State Marine Conservation Area allowing for all recreational activities) alongside, or in tandem with, the Pleasure Point detailed here for enhanced recreational and ecological

California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

March 14th, 2025

Re: Amendments to Petition to Modify CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests; Petition to Increase Level of Protection and Streamline Enforcement for Several California State MPAs

Dear President Zavaleta and Honorable Commissioners,

As scientists, researchers, and educators who work to understand our changing oceans and inspire the next generation of ocean stewards, we write to express our continued support for the expansion and strengthening of California's network of Marine Protected Areas (MPAs) to help safeguard the state's diverse marine ecosystems and ensure the long-term resilience of our ocean habitats.

Globally, the ocean is at a critical juncture, with escalating global temperatures, declining biodiversity, and a growing number of endangered marine species. California's coastal ecosystems have not been spared these global trends: Northern California has lost more than 95% of its kelp forests since 2014, and kelp forests statewide have experienced declines over the past decade.[1] Only an average of 55 Pacific leatherback turtles are now found foraging off California's coast every year, a notable decrease from the yearly average of 128 Pacific leatherbacks observed in the region from 1990 to 2003.[2] Marine heatwaves have doubled over the last 30 years and have become more intense and longer in duration, putting stress on California's marine species and ecosystems.[3]

Through its adaptive management process California has a unique opportunity to take bold, effective and science-based action to conserve its marine biodiversity by expanding and strengthening its groundbreaking network of state MPAs. MPAs, like state parks on land, protect unique and important ocean habitats from destructive human activities that can damage the integrity of marine ecosystems. Globally and in California, strongly protected and well-enforced MPAs have been shown to be highly effective in conserving biodiversity, enhancing ecosystem

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[1] Meredith McPherson et. al, Large-scale shift in the structure of a kelp forest ecosystem co-occurs with an epizootic and marine heatwave, Communications Biology, March 5, 2021

[2] Benson, Scott R., Karin A. Forney, Jeffrey E. Moore, Erin L. LaCasella, James T. Harvey, and James V. Carretta. "A Long-Term Decline in the Abundance of Endangered Leatherback Turtles, Dermochelys Coriacea, at a Foraging Ground in the California Current Ecosystem." *Global Ecology and Conservation* 24 November 2020.

[3] IPCC (2021). Summary for Policymakers. In: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [Masson-Delmotte VP, Zhai A, Pirani SL, Connors C, Péan S, et al. (Eds.)].;

resilience, and mitigating the impacts of climate change on our oceans.[4] Well-designed and well-implemented reserves better preserve natural interactions within ecosystems, allowing for greater resiliency in the face of rising global temperatures and changing environmental conditions.[5]

California's network of MPAs, established through the 1999 Marine Life Protection Act (MLPA), has now been in place for over a decade. The state's Decadal Management Review (DMR) analyzed a decade of monitoring data and showed that the MPA network has generally been effective at protecting ocean habitats and increasing fisheries-targeted species' biomass.[6] Now, in the face of increasing threats, we need to build on this system and maintain California's role as a national and global leader in the effort to protect our ocean habitats.

That's why we, as scientists, researchers, and educators, urged you to expand and strengthen our state's network of MPAs via the adaptive management process of the DMR during the initial round of proposals submitted in November 2023.

Specifically, we supported the expansion of the MPA network to include additional protections for California's most resilient kelp forests. While these vital and iconic ecosystems have faced declines statewide in recent years, kelp forests in some areas have persisted or bounced back quickly in the face of marine heatwaves and other disturbances.[7] By expanding protections for these resilient forests under the MLPA, the state can minimize direct human impacts in these relatively healthy areas, helping to ensure their continued persistence and enhancing the effectiveness of restoration efforts for declining kelp ecosystems nearby. Globally, kelp restoration has been most successful in places adjacent to/contiguous with healthy kelp forest ecosystems.[8]

Enhancing the protection of California's kelp forests strongly aligns with Goals 1, 2, 3, and 4 of the MLPA by preserving natural diversity, sustaining marine life populations, protecting marine habitats for their intrinsic value, and improving recreational and educational opportunities while minimizing human disturbance. Safeguarding resilient kelp ecosystems will ensure critical habitat preservation for diverse marine species, including endangered sea otters and commercially valuable fish.

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[4] James Horrox, Kelsey Lamp and Steve Blackledge. New Life for the Ocean: How Marine Protections Keep Our Waters Wild. Environment America Research & Policy Center & Frontier Group, February 3, 2021

[5] Kirsten Grorud-Colvert *et al.*, The MPA Guide: A framework to achieve global goals for the ocean. *Science* **373** ,eabf0861(2021). DOI:10.1126/science.abf0861

[6] California Department of Fish and Wildlife. (2022). California's Marine Protected Area Network Decadal Management Review.;

[7] Arafeh-Dalmau et al., Integrating climate adaptation and transboundary management: Guidelines for designing climate smart marine protected areas, One Earth 6, 1–19 November 17, 2023 ª 2023 Published by Elsevier Inc.

[8] Eger, A.M., Marzinelli, E.M., Christie, H., Fagerli, C.W., Fujita, D., Gonzalez, A.P., Hong, S.W., Kim, J.H., Lee, L.C., McHugh, T.A., Nishihara, G.N., Tatsumi, M., Steinberg, P.D. and Vergés, A. (2022), Global kelp forest restoration: past lessons, present status, and future directions. Biol Rev, 97: 1449-1475.

It is also vital that existing California MPAs are able to achieve their stated goals of conserving biodiversity and ecosystem health. During the initial proposals, we encouraged the state to consider increasing protections for MPAs that are currently only lightly or minimally protected, especially in places where weaker or more complicated regulations lead to poor compliance and enforcement. Research has shown that highly and fully protected areas, where few if any destructive or extractive activities are allowed, provide greater ecological benefits than lightly or minimally protected areas.[9] This global research has been borne out in California's coastal MPAs: Recent research that evaluated the conservation performance of 59 of California's MPAs shows that the network provides positive results that span across multiple ecosystems, with a significant increase in the fish biomass of species targeted by fishing inside fully protected zones.[10] Ten years after establishing fully protected areas in the Channel Islands National Marine Sanctuary, fish targeted by fishing became 50% more abundant and their total biomass increased by 80%.[11] These benefits can extend beyond MPA boundaries through positive spillover effects, increasing fish populations in surrounding waters. Another study found that MPAs provide benefits to California spiny lobster fisheries through spillover effects. Over six years, lobster populations grew significantly faster inside MPAs, and commercial catch increased by 225% in the fishing block containing these MPAs.[12]

The state's network currently protects 12% of state waters in highly- or fully-protected MPAs, as defined by Grorud-Colvert et al. (2021), which leaves 4% of the network lacking the most effective conservation protections.[13] By expanding the level of protection to areas already identified as ecologically important, we can ensure that the area's vulnerable marine resources have the chance to recover and flourish, aligning with the goals of the MLPA and the state's commitment to protect more of its coastal waters.

Our ocean is not just a source of clean air, wildlife, and natural beauty but also a mystery that beckons exploration and discovery. It is our moral imperative to lead the nation and the world in taking bold actions to preserve the sea by following the guide of science, ensuring its future and the well-being of the communities that rely on it for their survival and prosperity.

President Zavaleta and Honorable Commissioners, you have a chance to take up this imperative and champion the expansion and strengthening of California's network of Marine Protected Areas. By doing so, you will leave a lasting legacy of marine stewardship that will keep California at the forefront of ocean conservation, nationally and globally.

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[9] Kirsten Grorud-Colvert *et al.*, The MPA Guide: A framework to achieve global goals for the ocean. *Science* **373** ,eabf0861(2021). DOI:10.1126/science.abf0861

[10] Smith et al., "Conservation benefits of a large marine protected area network that spans multiple ecosystems", Society for Conservation Biology, doi: doi.org/10.1111/cobi.14435, January 2025

[11] Scott L. Hamilton et al., "Incorporating Biogeography into Evaluations of the Channel Islands Marine Reserve Network," Proceedings of the National Academy of Sciences USA, 107(43): 18272-18277, doi: 10.1073/pnas.0908091107, October 2010

[12] Lenihan et al., "Evidence that spillover from Marine Protected Areas benefits the spiny lobster (Panulirus interruptus) fishery in southern California", Scientific Reports, January 2021. Retrieved from https://www.nature.com/articles/s41598-021-82371-5

[13] *Ibid.*

Thank you for your unwavering commitment to the welfare of our ocean and for considering this urgent matter. Together, we can ensure a healthier, more abundant future for the unique marine ecosystems that define California.

Sincerely,

Dr. De'Marcus Robinson
NOAA CCME Postdoc, Florida A&M University

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PhD Candidate, Institute of the Environment and Sustainability at UCLA

Dr. Tina Treude
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California Fish and Game Commission
P.O. Box 944209
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March 14th, 2025

Dear Governor Newsom and Honorable Commissioners of the California Fish and Game Commission:

As marine and environmental scientists, academics and researchers, we are writing to emphasize the critical state of California's marine ecosystems and the importance of ocean conservation. We strongly support expanding Marine Protected Areas (MPAs) to protect our ocean. Following the submission of 20 petitions in the adaptive management process, we support proposals that expand MPAs to better protect kelp forests and strengthen enforcement against illegal fishing, while opposing proposals that would reduce protections for the network.

California's ocean faces unprecedented threats from rising ocean temperatures, biodiversity loss, and other climate stressors. We have lost more than 90% of its kelp forests since 2014, impacting threatened species such as the southern sea otters as they lose their habitat.[14] Marine heatwaves have doubled over the last 30 years, becoming more intense and longer in duration, putting stress on California's marine species and ecosystems.[15]

More than one-fifth of the world's coral reefs have been effectively destroyed, and many of those that remain face imminent collapse[16]. Average acidity levels have risen by approximately 30 % since the industrial era started, as the oceans have absorbed carbon dioxide emitted to the atmosphere, and are projected to affect our waterways and food sources that we rely on[17]. This change in ocean chemistry may make the ocean uninhabitable for certain marine species and bring serious consequences for ocean ecosystems and food webs. About 90 percent of global fish stocks are classified as fully exploited, overexploited or depleted[18]. About a tenth are hovering on the edge of collapse. The effects of this loss reverberate throughout marine ecosystems; declines in biodiversity exponentially weaken an ecosystem's ability to recover from disturbances, worsen water quality and lead to widespread resource collapse.

In the face of this urgent crisis, California has the opportunity to take bold, effective action. Our ocean holds some of the most biodiverse ecosystems in the world, and our state has been a global leader in ocean conservation.[19] At this critical juncture, the marine conservation path that

[14] Meredith McPherson et. al, Large-scale shift in the structure of a kelp forest ecosystem co-occurs with an epizootic and marine heatwave, Communications Biology, March 5, 2021
[15] García-Reyes, Marisol, Andrew Leising, Rebecca Asch, Steven Bograd, and Tessa M Hill. Rep. Indicators of Climate Change in California, "Coastal Ocean Temperature", *California Office of Environmental Health Hazard Assessment,* 2022.
[16]Daniel Dickinson, "*Bringing the coral reefs back to life"*, UN News, United Nations, June 2020
[17] NOAA, "Ocean Acidification", Resources, February 2025
[18] Mukhisa Kituyi and Peter Thomson, " 90% of fish stocks are used up – fisheries subsidies must stop emptying the ocean," World Economic Forum, July 13, 2018.
[19] CA Department of Fish and Wildlife "About California's Marine Protected Areas", 2025

California chooses has the opportunity to set the course for the nation and the world. Over two decades ago, the state passed the groundbreaking Marine Life Protection Act (MLPA), which called on the state to create a network of MPAs to enhance sustainable ocean ecosystems[20] As threats to California's coastal ecosystems continue, it is critical that MPAs are strengthened and expanded to protect more of our kelp forests. Protecting specific habitat areas, including the remaining areas of stable kelp forests, is a crucial step in safeguarding our diverse marine species and ensuring the long-term well-being of our ocean environments. Kelp forests provide habitat for marine species, create natural barriers to climate change stressors, serve as carbon sinks and support local businesses that depend on California's ocean.[21] By expanding protections for resilient forests under the MLPA, the state can minimize direct human impacts in these relatively healthy areas helping to ensure their continued persistence and enhancing the effectiveness of restoration efforts for declining kelp ecosystems nearby.[22]

No-take MPAs (i.e., "fully" protected MPAs) are especially impactful in conserving and restoring marine ecosystems. Expanding MPAs is critical to close coverage gaps within the network and strengthen protective effectiveness. Recent research that evaluated the conservation performance of 59 of California's MPAs shows that the network provides positive results that span across multiple ecosystems, with a significant increase in the fish biomass of species targeted by fishing inside fully protected zones[23]. Ten years after establishing fully protected areas in the Channel Islands National Marine Sanctuary, fish targeted by fishing became 50% more abundant and their total biomass increased by 80%[24]. These benefits can extend beyond MPAs through positive spillover effects, increasing fish populations in surrounding waters[25]. Another study found that MPAs provide benefits to California spiny lobster fisheries through spillover effects. Over six years, lobster populations grew significantly faster inside MPAs, and commercial catch increased by 225% in the fishing block containing these MPAs[26]. All of these metrics tell a story about the effectiveness of MPAs as a tool to improve the health of the marine ecosystem; ocean spaces with more species, and more diverse individuals, have a better chance of survival as climate change intensifies.

Further, no-take marine reserves can improve ecosystem resilience, as the ocean is faced with myriad stressors. By providing areas that serve as buffers against climate change, fully protected MPAs adapt to changing environmental conditions because they better preserve natural

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[20]California Marine Protected Areas "California State MPAs".
[21] Corryn Wetzel, "Kelp forests capture nearly 5 million tonnes of CO2 annually", New Scientist, April 2023
[22] CA Department of Fish and Wildlife "About California's Marine Protected Areas", 2025
[23] Smith et al., "Conservation benefits of a large marine protected area network that spans multiple ecosystems", Society for Conservation Biology, doi: doi.org/10.1111/cobi.14435, January 2025
[24] Scott L. Hamilton et al., "Incorporating Biogeography into Evaluations of the Channel Islands Marine Reserve Network," Proceedings of the National Academy of Sciences USA, 107(43): 18272-18277, doi: 10.1073/pnas.0908091107, October 2010
[25] Boris Worm et al., "Impacts of Biodiversity Loss on Ocean Ecosystem Services," Science, 314, 787-790, doi: 10.1126/science.1132294, November 2006, 789, archived at https://web.archive.org/web/20200707013658/https://www3.epa.gov/region1/npdes/schillerstation/pdfs/AR-024.pdf
[26] Lenihan et al., "Evidence that spillover from Marine Protected Areas benefits the spiny lobster (Panulirus interruptus) fishery in southern California", Scientific Reports, January 2021. Retrieved from https://www.nature.com/articles/s41598-021-82371-5

interactions within ecosystems, allowing for greater resiliency.[27] On the other hand, lightly protected areas do not have the same benefits for biodiversity as fully protected marine reserves and highly protected areas that achieve similar conservation outcomes. As California moves forward to protect more ocean space, areas that count as "conserved" should align with a clear scientific standard that effectively protects biodiversity.

We oppose proposals that promote unsustainable fishing practices that place pressure on California's marine ecosystems, creating cascading effects on the whole marine species that depend on them. These practices threaten to disrupt vital ecological relationships and damage the long-term health of our coastal waters.

To ensure an effective implementation of MPAs, we support proposals that strengthen comprehensive enforcement mechanisms to minimize poor compliance and prevent illegal fishing. Research has shown that greatest ecological benefits can be achieved in areas with few extractive activities[28]. However, without effective monitoring and well-defined rules, activities may continue in MPAs that threaten the marine ecosystems they were designed to protect. Therefore, we advocate for expanding MPAs while ensuring robust enforcement measures.

Enhancing the protection of California's kelp forests strongly aligns with Goals 1, 2, 3, and 4 of the MLPA by preserving natural diversity, sustaining marine life populations, protecting marine habitats for their intrinsic value, and improving recreational and educational opportunities while minimizing human disturbance. [29] Safeguarding resilient kelp ecosystems will ensure critical habitat preservation for diverse marine species, including endangered sea otters and commercially valuable fish.

In order to keep track of progress and allow California's efforts to set the standard nationally and globally, the state should use scientific criteria to distinguish between different levels of protection and classify existing protected areas. A scientific framework should be applied to evaluate proposals for areas that need to be conserved or areas where protections should be strengthened for existing MPAs.

Our ocean is a source of clean air, wildlife, and natural beauty, but also a mystery that beckons preservation and exploration. We cannot afford to lose more of our vital kelp forests. California has the opportunity to lead the nation and the world in taking bold action to preserve the sea,

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[27] Jankowska, Emilia, et al. "Climate Benefits from Establishing Marine Protected Areas Targeted at Blue Carbon Solutions." *Proceedings of the National Academy of Sciences*, vol. 119, no. 23, 2022.
[28] Ibid Kirsten Grorud-Colvert et al., The MPA Guide: A framework to achieve global goals for the ocean. Science 373 ,eabf0861(2021). DOI:10.1126/science.abf0861

[29] "Marine Life Protection Act." CDFW. https://wildlife.ca.gov/Conservation/Marine/MPAs/MLPA.

ensuring its future and the well-being of the communities that rely on it for their survival and prosperity.

Sincerely,

Dr. Timothy Lyons
Distinguished Professor of Biogeochemistry, University of California Riverside

Dr. Michael Parsons
Researcher, University of California Irvine

Dr. Polly Campbell
Associate Professor, University of California Riverside

Dr. Benjamin Blonder
Associate Professor, the Department of Environmental Science, Policy, and Management at UC Berkeley

Dr. Ellen Druffel
Distinguished Professor, University of California Irvine

Dr. Janine Barjnath-Rodino
Director of Meteorology & Professor of Atmospheric & Oceanic Sciences, UCLA

Dr. Annie Rosen
Graduate Student, UCLA

Dr. Nattamon Maneenoi
PhD Student, UCLA

Dr. Karen Holl
Professor, University of California, Santa Cruz

Dr. Madeleine Fairbairn
Associate Professor, University of California, Santa Cruz

Dr. Martin Connors

Visiting Researcher, UCLA

Dr. Eva Zlimen
Graduate Student UCLA Earth Planetary & Space Sciences

Dr. James McWilliams
Professor, UCLA

Dr. Edward Schwieterman
Assistant Professor UC Riverside

Dr. Flora Lu
Professor of Environmental Studies, UC Santa Cruz

Dr. Iris Holzier
Assistant Teaching Professor, Environmental Studies Program at University of California Santa Barbara

Dr. Elizabeth Ackert
Associate Professor, University of California Santa Barbara

Dr. Guillermo Terrén Serrano
Climate Innovation Fellow, California NanoSystems Institute at University of California Santa Barbara

California Fish and Game Commission
715 P Street, 16th floor,
Sacramento, CA 95814

March 14th, 2025

RE: CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests

Dear President Zavaleta and Honorable Commissioners:

As marine and environmental businesses and recreationists, we know first hand the value California's nature holds for residents and visitors alike. California's ocean holds some of the most biodiverse ecosystems in the world and the state has been a global leader in ocean conservation to keep it that way. Now, we are writing to you to urge the Fish and Game Commission (FGC) to prioritize strengthening the state's existing network of Marine Protected Areas (MPAs) so that California can continue to safeguard its treasured ocean life and set an example for the nation and the globe of responsible environmental stewardship.

California's coastline serves as a captivating haven for individuals seeking to revel in its myriad wonders. Our coast offers many recreational activities, such as surfing, swimming, kayaking, scuba diving, whale watching, and an array of other pursuits. That is why, as business owners and community members who rely on a vibrant ocean, we are worried about the ongoing biodiversity crisis in our ocean. Over the last half-century, marine vertebrate populations have declined by nearly 50 percent, and the number of endangered marine species is growing globally.[30] Marine heatwaves have doubled over the last 30 years, and have become more intense and longer in duration, putting stress on California's marine species and ecosystems.[31]

Climate change, combined with coastal pollution and marine debris, harms wildlife through entanglement, ingestion and habitat disruption.[32] Unsustainable fisheries remain the number one driver of biodiversity loss in the ocean.[33] Yet overfishing continues. About 90 % of global fish stocks are classified as fully exploited, overexploited or depleted.[34] On the U.S. West Coast, six commercially caught fish stocks, including three species of salmon, remain on the overfished and

[30] Doebeli, Anna G., et al. "How Does the Environmental State "See" Endangered Marine Animals?" *Environmental Science & Policy*, vol. 124, 2021, pp. 293-304, https://doi.org/10.1016/j.envsci.2021.07.001. Accessed 31 Jan. 2024.
[31] García-Reyes, Marisol, Andrew Leising, Rebecca Asch, Steven Bograd, and Tessa M Hill. Rep. Indicators of Climate Change in California, "Coastal Ocean Temperature", *California Office of Environmental Health Hazard Assessment,* 2022.
[32] California Coastal Commission, "The Problem with Marine Debris," April, 2023
[33] Eduardo Brondizio et al., "Global assessment report on biodiversity and ecosystem services of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services," Zenodo, May 4, 2019.
[34] Mukhisa Kituyi and Peter Thomson, " 90% of fish stocks are used up – fisheries subsidies must stop emptying the ocean," World Economic Forum, July 13, 2018.

overfishing list.[35] Overfishing can result in cascading effects throughout the marine ecosystems; declines in biodiversity's ability to recover from disturbances, widespread ecosystem/habitat collapse and undermining the ocean's ability to perform its role as a carbon sink.[36] As a business that relies on the ocean's ecosystem for sustenance and profits, these statistics are extremely worrisome.

In the face of this urgent crisis, the California government has the opportunity to take robust and effective action. As the adaptive management process following the submission of 20 petitions has opened up, we support proposals that expand MPAs to better protect kelp forests and strengthen enforcement against overfishing. Research has shown that greatest ecological benefits can be achieved in areas with few extractive activities[37].

No-take marine reserves (i.e., "fully" protected MPAs) are one of the most effective ways to conserve biodiversity and ecosystem function and improve ecosystem resilience, as the ocean is faced with myriad stressors. Marine reserves provide areas that serve as buffers against the impacts of climate change and are able to adapt to acidifying waters, rising sea levels, intensified storm events, and decreases in oxygen availability. Ten years after establishing fully protected areas in the Channel Islands National Marine Sanctuary, fish targeted by fishing became 50% more abundant and their total biomass increased by 80%[38].

We oppose proposals to weaken the MPA network as that could place more pressure on California's marine ecosystems. We've lost over 90% of our kelp forests off the coasts of Northern California since 2014[39], creating detrimental effects on the whole marine species that depend on them. We cannot afford to lose more of these vital kelp forests.

Stronger MPA coverage and healthier marine ecosystems are critical for local marine businesses like us who depend on California's vibrant ocean. California's ocean economy provides 1,035 million jobs for California residents, over $143 billion in output, and $84 billion in gross state product (GSP), contributing to about 7% of the state's workforce.[40] However, if we continue to not take any action to preserve the ocean, then this will decrease over time. Not only will hundreds of thousands of people be out of a job, but we will not receive the intrinsic benefits we receive from having access to our beautiful California coasts. We are asking the government to take real action to prevent this great loss, as we rely on the ocean for so much more than just our livelihoods.

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[35] NOAA Fisheries, "Status of Stocks 2023 ," Sustainable Fisheries, February 10, 2025.
[36] UNFCCC, "How overfishing harms the climate", Plenty of Fish? June 10, 2022.
[37] Ibid Kirsten Grorud-Colvert et al., The MPA Guide: A framework to achieve global goals for the ocean. Science 373 ,eabf0861(2021). DOI:10.1126/science.abf0861
[38] Scott L. Hamilton et al., "Incorporating Biogeography into Evaluations of the Channel Islands Marine Reserve Network," Proceedings of the National Academy of Sciences USA, 107(43): 18272-18277, doi: 10.1073/pnas.0908091107, October 2010
[39] U.S. National Science Foundation, "Collapse of Northern California kelp forests will be hard to reverse. NSF Stories, March 17, 2021.
[40] Los Angeles County Economic Development Corporation, "Ocean Economy," LAEDC, 2020.

A broad set of Californians love the ocean, and our community should be included in making decisions that impact our state's coastal waters. It's important that the diversity of California's ocean users is reflected in this political process. This includes youth, recreational users, conservation groups, businesses, ocean lovers and more.

The ocean is a source of clean air to breathe, wildlife to marvel at, beauty and mystery. It is imperative that California continue to lead the nation and world in taking bold action for the sake of the sea and its future.

Sincerely,

Central Coast Outdoors

Dive Outdoors

Enjoy Napa Valley

Kayak Connection

La Jolla Sea Caves Kayak, LLC

Otter Bay Wetsuits

SpitSea Dive

Malibu Divers

Channel Islands Expeditions

Ocean Safaris

SunSwept Sailing

Bamboo Reef Dive Centers

Eco Dive Center

Blue Holic Scuba

Hobie Surf Shop/Fragile Ocean

Girl in the Curl LLC

California Dive Guy

CALPIRG Students

Governor Newsom signed Executive Order N-82-20 in which he supported the creation of more Marine Protected Areas (MPAs). These help give safe havens for the animals in the area, animals like the California Sea Lion, our iconic Elephant Seals, and the adorable Harbor Seals which all use the Channel Islands National Marine Sanctuary along with others along the coast, the Southern Sea Otters which rely on the kelp forests in our MPAs, the humongous Mola Mola which live in and around the Point Lobos SMR, our protected Abalone which like in MPAs like Sea Lion Cove SMCA and the Edward F. Ricketts SMCA, and so many more.

These amazing animals are why we are advocating for expanding California's network of MPAs, in particular to protect key kelp forests along the coast.

In the past month, CALPIRG volunteers engaged over 12,000 UC students in one-on-one conversations, and educated over 18,000 overall about expanding Marine Protected Areas in California. We have experienced overwhelming support!

CALPIRG Students

Dear California State Leaders,

While approximately 16% of California's coastal waters are conserved, only 12% have the level of protection scientists say is needed to defend against biodiversity loss and climate impacts. California's unique network of 124 Marine Protected Areas (MPAs) makes the state a global leader in protecting the critical habitats and life existing in and around our oceans. However, with a warming planet, and historic species extinctions, it is clear that California must strengthen and expand our existing network of protections with highly and fully protected MPAs. Highly protected areas only allow light extractive activities, while fully protected areas do not allow any extractive or environmentally destructive activities. I am asking you to call for the adoption of more highly and fully protected marine areas, which must be the standard for protecting 30% of our ocean by 2030.

Visit https://tinyurl.com/calpirgoceans
or scan the QR Code to view student support

Signed,
6,000 UC Students

CALPIRG activists also educated middle school students in the Los Angeles area about the benefits of MPAs for endangered species. Over 200 students and their teachers participated in a lesson about the endangered Southern Sea Otter and the importance of habitat protection through Marine Protected Areas!

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UCSD Tiffany Hsiao
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UCSD Ashley (Ningjia) Xu
UCSD June Akpata
UCSD Qiurui Tian
UCSD Shayan Boghani
UCSD Caroline Zhang
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UCSD Haemanth Velmurugan
UCSD Parinaz Asareh
UCSD Zixiao Yan
UCSD Feennette Navarro
UCSD Kaiya MacLeod

ENVIRONMENT CALIFORNIA

Clean air. Clean water. Open spaces.

Dear Gov. Newsom and California officials,

As decades of pollution, industrial-scale fishing, and climate change threaten the ocean, I urge you to support expanding California's marine protected areas to provide safety for marine wildlife. Please protect the state's last remaining kelp forests and strengthen enforcement in existing marine protected areas.

With your leadership, California can create a safe harbor for wildlife, including sea otters, shore birds, and sea turtles. And our state can continue to lead the country and the world in ocean conservation.

Sincerely,

Assembly District 2

Manley, Sebastopol,CA,95472

Andrew Cook, Sebastopol,CA,95472

Tyson Dickinson, Sebastopol, CA,95472

Gary Pace, Sebastopol,CA,95472

Raleigh Elliott, Sebastopol,CA,95472

Mark Allen, Sebastopol,CA,95472

Jacob Paradise, Sebastopol,CA,95472

Darryl Bush, Sebastopol,CA,95472

Wilbert Brown, Sebastopol,CA,95472

Tom Moore, Sebastopol,CA,95472

Michael Brandt, Sebastopol,CA,95472

David Banks, Sebastopol,CA,95472

James Brown, Sebastopol,CA,95472

Stephen Lebbert, Sebastopol,CA,95472

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Jon Stong, Santa Rosa,CA,95404

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Carol Buckner, Santa Rosa,CA,95404

Megan Hernandez, Santa Rosa,CA,95404

Sara Jones, Santa Rosa,CA,95404

Cynthia Miller, Santa Rosa,CA,95404

Cindy Bishop, Santa Rosa,CA,95404

Erin Moilanen, Santa Rosa,CA,95404

Pam Zimmerman, Santa Rosa,CA,95404

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Karri Haven, Sebastopol,CA,95472

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Sunny Galbraith, Sebastopol,CA,95472

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Rob Wallace, Sebastopol,CA,95472

Gale Brownell, Sebastopol,CA,95472

Davy Figaro, Sebastopol,CA,95472

Oscar Villicaña Lopez, Sebastopol,CA,95472

Manie Steyn, Sebastopol,CA,95472

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Julie Bloomberg, Napa,CA,94559

Dianne Weyna, Napa,CA,94559

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JoAnn Consiglieri, Sonoma,CA,95476

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Bill Clark, Santa Rosa,CA,95404

Jon Martinez, Santa Rosa,CA,95404

Brooke Banks, Chico,CA,95928

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Constanitae Petros, Sonoma,CA,95476

William Rivera, Napa,CA,94558

Assembly District 6

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Steven Keil, Sacramento,CA,95818

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David Becker, Sacramento,CA,95818

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Mary Curran, Sacramento,CA,95818

Terry Stigge, Sacramento,CA,95818

Alec Martin, Sacramento,CA,94205

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Mike Betts, Novato,CA,94945

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Brian Martin, Novato,CA,94945

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Ryan Mckim, Larkspur,CA,94939

Richard Fister, Larkspur,CA,94939

Edward Gerstenfeld, Larkspur,CA,94939

John Glenn, Larkspur,CA,94939

Chris Santas, Larkspur,CA,94939

James Hunnewell, Larkspur,CA,94939

Tim Gerstein, Larkspur,CA,94939

Donald Walker, Larkspur,CA,94939

Tom Flynn, Larkspur,CA,94939

Richard Cohan, Larkspur,CA,94939

Jeffrey Jones, Larkspur,CA,94939

Robert Newcomer, Larkspur,CA,94939

Brian Powell, Larkspur,CA,94939

James Sievert, Larkspur,CA,94939

Jim Stevenson, Mill Valley,CA,94941

Chris Gilmor, Mill Valley,CA,94941

Grant Stewart, Mill Valley,CA,94941

Jack Pesso, Mill Valley,CA,94941

Elliott Jacobs, Mill Valley,CA,94941

Bart Ferrell, Mill Valley,CA,94941

Bill Hager, Mill Valley,CA,94941

Mark Jamison, Mill Valley,CA,94941

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James Workman, Mill Valley,CA,94941

Bruce Barnett, Mill Valley,CA,94941

Aron Knickerbocker, Mill Valley,CA,94941

Robert Matthew, Mill Valley,CA,94941

Eric Eisenberg, Mill Valley,CA,94941

Mario Barrios, Mill Valley,CA,94941

David Griffs, Mill Valley,CA,94941

Lawrence Westlake, Mill Valley,CA,94941

Randi Lachter, Mill Valley,CA,94941

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Michael Ina, Mill Valley,CA,94941

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Ryan Fedoroff, Mill Valley,CA,94941

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William Berger, Mill Valley,CA,94941

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Philip Mickelson, Mill Valley,CA,94941

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Jon Duncanson, Mill Valley,CA,94941

Steve Edelson, Mill Valley,CA,94941

Alton Moore, Fairfax,CA,94930

Justin Piatt, Fairfax,CA,94930

David Faro, Fairfax,CA,94930

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Allan Kratche, Fairfax,CA,94930

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Carroll Covey, Sausalito,CA,94965

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David Hersh, Sausalito,CA,94965

John Hefler, Sausalito,CA,94965

David Hanchette, Corte Madera,CA,94925

Kevin Krumwiede, Corte Madera,CA,94925

Arthur Young, Corte Madera,CA,94925

Steve Johnson, Corte Madera,CA,94925

Alice Moore, Corte Madera,CA,94925

Ellie Kennedy, Corte Madera,CA,94925

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Lauren De Remer, Sausalito,CA,94965

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Ellen Lerner, San Anselmo,CA,94960

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Aileen Murphy, Larkspur,CA,94939

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Melissa Polick, Mill Valley,CA,94941

Katherine Edwinson, Mill Valley,CA,94941

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Sylvia Donati, Corte Madera,CA,94925

Barbara Kristoff, Corte Madera,CA,94925

Shelley Mitchell, Corte Madera,CA,94925

Suzanne Herrero, Corte Madera,CA,94925

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Kress Jack, Mill Valley,CA,94941

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Maria Troncoso, Mill Valley,CA,94941

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Amy Hiraga, Mill Valley,CA,94941

Stacey DeGooyer, Petaluma,CA,94952

Janet Marshall, Petaluma,CA,94952

Susan Victor, Petaluma,CA,94952

Deborah Defaria, Petaluma,CA,94952

Carol Harrison, Petaluma,CA,94952

Gail Hamilton, Petaluma,CA,94952

Jennifer Newman, Petaluma,CA,94952

Tammy Siebold, Petaluma,CA,94952

Melissa Hatheway, Petaluma,CA,94952

Cynthia Granados, Petaluma,CA,94952

Norma Liner, Petaluma,CA,94952

Michelle Torres, Petaluma,CA,94952

Catherine Podesta, Petaluma,CA,94952

Jane Weatherwax, Petaluma,CA,94952

Emily Roeder, Petaluma,CA,94952

Corrie Johnson, Petaluma,CA,94952

Sharen Schrock, Petaluma,CA,94952

Alison Marks, Petaluma,CA,94952

Mary Neidel, Petaluma,CA,94952

Amy Hogan, Petaluma,CA,94952

Sheri Remail, Petaluma,CA,94952

Janice Hardy, Petaluma,CA,94952

Raye Lynn Thomas, Petaluma,CA,94952

Debra Dickerson, Petaluma,CA,94952

Patricia Maher, Petaluma,CA,94952

Julia Allen, Petaluma,CA,94952

Linda Munsch, Petaluma,CA,94952

Rebekah Brown, Petaluma,CA,94952

Dorothy Skinner, Petaluma,CA,94952

Monica Shanahan, Petaluma,CA,94952

Ann Belove, Petaluma,CA,94952

Mary Turner, San Rafael,CA,94901

Melissa Millerick, San Rafael,CA,94901

Judith Milani, San Rafael,CA,94901

Jason Heffernan, San Rafael,CA,94901

Emilie Albertoli, San Rafael,CA,94901

Alexandra Sakellariou, San Rafael,CA,94901

Linda Burke, San Rafael,CA,94901

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Amy Gladin, San Rafael,CA,94901

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Mimi Rysso, San Rafael,CA,94901

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Elaine Mont-Eton, San Rafael,CA,94901

Nathalie Costello, San Rafael,CA,94901

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Maureen McGowan, San Rafael,CA,94901

Elise Falcone Rankin, San Rafael,CA,94901

Barbara Mares, San Rafael,CA,94901

Alexa Calabro, San Rafael,CA,94901

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Cayla Coleman, San Rafael,CA,94901

Rachel Jensen, San Rafael,CA,94901

Susan Gatrill, San Rafael,CA,94901

Padma Rao, San Rafael,CA,94901

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Rebecca Walters, San Rafael,CA,94901

Karen Bouris, San Rafael,CA,94901

Annika Osborn, San Rafael,CA,94901

Lynne Serra, San Rafael,CA,94901

Christine Christiansen, San Rafael,CA,94901

Suzanne Hudson, San Rafael,CA,94901

Chelsea Cundiff, San Rafael,CA,94901

Gillian Kneass, San Rafael,CA,94901

Kate Williams, San Rafael,CA,94901

Alba Moreno, San Rafael,CA,94901

Sandra Wong, San Rafael,CA,94901

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Alezz Laielen, San Rafael,CA,94901

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Robyn Fernsworth, San Rafael,CA,94901

Joya Cory, San Rafael,CA,94901

Judith Diehl, San Rafael,CA,94901

Suzanna Gratz, San Rafael,CA,94901

Dulce Mcallister, San Rafael,CA,94901

Kathi Walsh, San Rafael,CA,94901

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Laura Yoklanich, San Rafael,CA,94901

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Kathleen Vanoni, San Rafael,CA,94903

Sandy Mixsell, San Rafael,CA,94903

Terri Delangis, San Rafael,CA,94903

Margaret Hoopongarner, San Rafael,CA,94903

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Nada Grkinich, San Rafael,CA,94903

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J P Perino, Novato,CA,94945

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Betty Matrui, Novato,CA,94945

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Smith Amy, Novato,CA,94945

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Kristi Epke, San Anselmo,CA,94960

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Sandra Brady, San Anselmo,CA,94960

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Jerri Linn, San Anselmo,CA,94960

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Kathleen Ames, San Anselmo,CA,94960

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Lisa Travaglini, San Anselmo,CA,94960

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Jeanne Imai, San Anselmo,CA,94960

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Leanora Kent, San Anselmo,CA,94960

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Cindie Tashima, San Anselmo,CA,94960

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Gina Martinez, San Anselmo,CA,94960

Katherine Acker, Novato,CA,94945

Karla Martinez, Novato,CA,94945

Karen Retter, Novato,CA,94945

Kaya Farmer, Novato,CA,94945

Lin Pa, Novato,CA,94945

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Randall Hamilton, Berkeley,CA,94708

William Caruthers, Berkeley,CA,94708

Ray Barraza, Kensington,CA,94708

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Paul Oglesby, Albany,CA,94706

Boris Alekraniwrosky, Albany,CA,94706

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Noah Weber, Albany,CA,94706

Doug Kagawa, Albany,CA,94706

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John Pillette, Albany,CA,94706

Brett Harvey, Albany,CA,94706

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Sabra Stepak, El Cerrito,CA,94530

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Amanda Morrison, El Cerrito,CA,94530

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Alice Towey, El Cerrito,CA,94530

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Deby Plaza, El Sobrante,CA,94803

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Daniel J, Oakland,CA,94611

Jamar Qyaise, Oakland,CA,94609

Heather Zulim, Oakland,CA,94609

Martine Johannessen, Oakland,CA,94609
Audrey Hudson, Oakland,CA,94609

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Midori J Nishio, Lafayette ,CA ,94549

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Marco Jennison, Walnut Creek ,CA ,94596

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Alvin McLean, Walnut Creek ,CA ,94597

Daniel Klopfstein, Walnut Creek ,CA ,94597

Ron Renirie, Walnut Creek ,CA ,94597

Rich Wieking, Walnut Creek ,CA ,94597

James Stevenson, Walnut Creek ,CA ,94597

Charles Askin, Walnut Creek ,CA ,94597

Scott Somers, Walnut Creek ,CA ,94598

H. W. Fawcett, Walnut Creek ,CA ,94598

Rick Stover, Walnut Creek ,CA ,94598

Danny Fried, Walnut Creek ,CA ,94598

Dennis Hwang, Walnut Creek ,CA ,94598

Elwood Lentz, Walnut Creek ,CA ,94598

David Beeby, Walnut Creek ,CA ,94598

Derek Lee, Walnut Creek ,CA ,94598

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Janet Green, Walnut Creek ,CA ,94598

Dave Seaborg, Walnut Creek ,CA ,94598

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John Cassani, Walnut Creek ,CA ,94595

Ted Holenan, Walnut Creek ,CA ,94595

John Patterson, Walnut Creek ,CA ,94595

Jerry Blair, Walnut Creek ,CA ,94595

Nancy West, Walnut Creek ,CA ,94595

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Adam Peters, Walnut Creek ,CA ,94596

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Stevan Cavalier, Walnut Creek ,CA ,94596

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Gerald Pleasant, Walnut Creek ,CA ,94596

Richard Wright, Walnut Creek ,CA ,94596

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Tricy Otten, Walnut Creek ,CA ,94596

Larry Bellows, Walnut Creek ,CA ,94596

Peter Stone, Walnut Creek ,CA ,94596

Gary Durbin, Walnut Creek ,CA ,94596

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Channing Jones, Orinda ,CA ,94563

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Nicholas Ross, Orinda ,CA ,94563

William Finzer, Orinda ,CA ,94563

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Robert Schier, Orinda ,CA ,94563

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Jack Andrews, Orinda ,CA ,94563

Filip Filippou, Orinda ,CA ,94563

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Steve Saldivar, Pleasanton ,CA ,94566

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David Cerqua, Pleasanton ,CA ,94566

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Steven Thaw, Moraga ,CA ,94556

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Don Kelsey, Lafayette ,CA ,94549

Bart Tangredi, Lafayette ,CA ,94549

Aaron White, Lafayette ,CA ,94549

Richard Carlson, Lafayette ,CA ,94549

Steven M Reilly, Lafayette ,CA ,94549

Ambrose Yau, Lafayette ,CA ,94549

Jeffrey Moore, Lafayette ,CA ,94549

Andrew Yost, Lafayette ,CA ,94549

Kyle Lind, Lafayette ,CA ,94549

John Tammen, Lafayette ,CA ,94549

Sanford Livingston, Lafayette ,CA ,94549

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Justin Graham, Lafayette ,CA ,94549

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Rory Snyder, Lafayette ,CA ,94549

Craig Latimer, Lafayette ,CA ,94549

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Gwenn Lennox, Lafayette ,CA ,94549

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Vanessa Coker, Danville ,CA ,94526

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Natalie Harnish, Lafayette ,CA ,94549

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Heather Morgan, Walnut Creek ,CA ,94596

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Louise Benvenue, Orinda ,CA ,94563

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Morgan Mitchell, Pleasanton ,CA ,94566

Beth Eliason, Orinda ,CA ,94563

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Cameryn Breen, Lafayette ,CA ,94549

Sue Zhang, Lafayette ,CA ,94549

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Melissa Chatteroon, Lafayette ,CA ,94549

Leah Henrikson, Lafayette ,CA ,94549

Elaine Zahad, Lafayette ,CA ,94549

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Judy Selland, Lafayette ,CA ,94549

Laura Heinrich, Lafayette ,CA ,94549

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Kristina Svensson, Lafayette ,CA ,94549

Marie Barton, Lafayette ,CA ,94549

Elma Lear, Lafayette ,CA ,94549

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Judith Marks, Orinda ,CA ,94563

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Traute Greene, Walnut Creek ,CA ,94597

Sarah Pohl, Walnut Creek ,CA ,94597

Arlene Ferguson, Walnut Creek ,CA ,94597

Meredyth Young, Walnut Creek ,CA ,94597

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Mary Kastner, Walnut Creek ,CA ,94598

Moira Chanese, Walnut Creek ,CA ,94598

Mary Ann Wittenberg, Walnut Creek ,CA ,94598

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Joan Friedman, Walnut Creek ,CA ,94598

Glenda Dugan, Walnut Creek ,CA ,94598

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Cynthia Mataraso, Walnut Creek ,CA ,94598

Chelsea Bourell, Walnut Creek ,CA ,94595

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Lu Einer, Walnut Creek ,CA ,94596

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Stacey Alexeeff, Walnut Creek ,CA ,94596

Stacy Hogue, Walnut Creek ,CA ,94596

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Peri Gould, Walnut Creek ,CA ,94596

Bruce E, Walnut Creek ,CA ,94596

Tristan Jardini, Walnut Creek ,CA ,94596

Jeanette Elrod, Walnut Creek ,CA ,94596

Johanne Poulin, Walnut Creek ,CA ,94596

Bart Smith, Walnut Creek ,CA ,94596

Nancy Westermeyer, Walnut Creek ,CA ,94596

Azfar Haq, Walnut Creek ,CA ,94596

Carolyn Poetzsch, Walnut Creek ,CA ,94596

Aidin Sabet, Walnut Creek ,CA ,94596

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Arjun Ra, Walnut Creek ,CA ,94596

Leo Carrillo, Walnut Creek ,CA ,94597

Mary Hruska, Walnut Creek ,CA ,94597

Connie Ferrando, Walnut Creek ,CA ,94598

Chris Giangregorio, Walnut Creek ,CA ,94598

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Kelly Brown, Walnut Creek ,CA ,94598

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Matthew Rosenthal, Walnut Creek ,CA ,94598

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Bo Espinosa-Setchko, Orinda ,CA ,94563

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Kelly Tuggle, Orinda ,CA ,94563

Sean Munding, Orinda ,CA ,94563

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Spencer Ott, Pleasanton ,CA ,94566

Chris Beatty, Pleasanton ,CA ,94566

Yuh Ling Yasui, Pleasanton ,CA ,94566

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Scott Taylor, Moraga ,CA ,94556

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Simon Calloway, Danville ,CA ,94526

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Devon Walton, Lafayette ,CA ,94549

Ronit Jorgensen, Lafayette ,CA ,94549

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Jason Mass, San Francisco ,CA ,94131

Michael Henchen, San Francisco ,CA ,94131

Sean Cafferty, San Francisco ,CA ,94131

Joseph Taylor, San Francisco ,CA ,94110

Marcus Keller, San Francisco ,CA ,94110

Daniel Mason, San Francisco ,CA ,94110

Mark Reynolds, San Francisco ,CA ,94110

Owen Whitmare, San Francisco ,CA ,94110

Jacob Smolowe, San Francisco ,CA ,94110

Tracy Wymer, San Francisco ,CA ,94110

Haldon Morgan, San Francisco ,CA ,94110

Tony Iluccy, San Francisco ,CA ,94110

Jim Hyden, San Francisco ,CA ,94110

Ted Desmarais, San Francisco ,CA ,94110

Clay Young, San Francisco ,CA ,94110

John Doll, San Francisco ,CA ,94110

Roger Lake, San Francisco ,CA ,94110

Will Arensman, San Francisco ,CA ,94110

Richard Perry, San Francisco ,CA ,94110

Daniel Steiger, San Francisco ,CA ,94110

Dennis Hayes, San Francisco ,CA ,94110

Paul McElvoy, San Francisco ,CA ,94110

William White, San Francisco ,CA ,94110

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David Wolf, San Francisco ,CA ,94110

Steven Braunstein, San Francisco ,CA ,94114

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Paul Reeberg, San Francisco ,CA ,94114

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Simmy Cover, San Francisco ,CA ,94110

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Catherine Merrill, San Francisco ,CA ,94110

Jenifer Sims, San Francisco ,CA ,94110

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Angie Zarikos, San Francisco ,CA ,94114

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Siri Margerin, San Francisco ,CA ,94117

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Keli Wong, San Francisco ,CA ,94110

Nick Scheer, San Francisco ,CA ,94110

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Kim McGee, San Francisco ,CA ,94110

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Montana Stearns Ayster, San Francisco ,CA ,94110

Micheal Rodgers, San Francisco ,CA ,94110

Leo Milles, San Francisco ,CA ,94110

Anjal Pong, San Francisco ,CA ,94110

Keyvon Silva, San Francisco ,CA ,94110

Devante Horne, San Francisco ,CA ,94110

Liz Monore, San Francisco ,CA ,94110

Mercedes Cordero, San Francisco ,CA ,94110

James McKinney, San Francisco ,CA ,94110

Ben Obrock, San Francisco ,CA ,94110

Katherine Eddinger, San Francisco ,CA ,94110

Isaac Boss, San Francisco ,CA ,94110

Kathryn Jensen, San Francisco ,CA ,94110

Alex Currit, San Francisco ,CA ,94110

Addy Williams, San Francisco ,CA ,94110

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Ethan Wynne-Wade, San Francisco ,CA ,94110

Tal Honig, San Francisco ,CA ,94110

Nina Fujikawa, San Francisco ,CA ,94110

Melissa Kennedy, San Francisco ,CA ,94110

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Sisse Leegaard, San Francisco ,CA ,94114

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Megan Aldridge, San Francisco,CA ,94114

Tanya Ivanov, San Francisco,CA 94114

Debbie Mobley, San Francisco ,CA ,94114

Claire Batista, San Francisco ,CA ,94114

Gregory Egan, San Francisco ,CA ,94114

Chris Mancini, San Francisco ,CA ,94114

Sophia Woods, San Francisco ,CA ,94114

Katie M, San Francisco ,CA ,94114

Cooper Knutson, San Francisco ,CA ,94114

Kelly Mullin, San Francisco ,CA ,94114

Chiko Nog, San Francisco ,CA ,94114

Vincent Po, San Francisco ,CA ,94114

Basia Gorska, San Francisco ,CA ,94115

Oliver Montaga, San Francisco ,CA ,94107

Glenda Dayao, San Francisco ,CA ,94107

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Claudio Salusso, San Francisco ,CA 94118

Cynthia Koster, San Francisco ,CA 94118

Emily LaRocca, San Francisco ,CA 94118

Emma Ziegler, San Francisco ,CA 94118

Jean Johnson, San Francisco ,CA 94118

A. Alessandra, San Francisco ,CA 94118

Emily Risk, San Francisco ,CA 94118

Christine Linnenbach, San Francisco ,CA 94118

Sarah Croteau, San Francisco ,CA 94118

Camille Smith, San Francisco ,CA 94118

Mary Powell, San Francisco ,CA 94131

Carrie Singleton, San Francisco ,CA 94131

Dana Isaac, San Francisco ,CA 94131

Thea Stoller, San Francisco ,CA 94131

Stacy Bissell, San Francisco ,CA 94131

Si Lead, San Francisco ,CA 94117

Shy Baniani, San Francisco ,CA 94117

Eliana Baskouta, San Francisco ,CA 94117

Evan Owski, San Francisco ,CA 94117

Cheyenne Belmont, San Francisco ,CA 94117

Jordan Kline, San Francisco ,CA 94117

Kieran Maesaka, San Francisco ,CA 94118

Baylie Fuller, San Francisco ,CA 94118

Brittany Rogers, San Francisco ,CA 94118

Therese Folco, San Francisco ,CA 94118

Kalyxa Roman, San Francisco ,CA 94118

Nathan Nkemere, San Francisco ,CA 94117

Aj Gabriel, San Francisco ,CA 94117

Assembly District 20

Tim Holmes, San Leandro ,CA 94577

Colin Neunuebel, San Leandro ,CA 94577

Jeremy Ouellette, San Leandro ,CA 94577

Tom Stone, San Leandro ,CA 94577

Art Galicia, San Leandro ,CA 94577

Alan Marcus, San Leandro ,CA 94577

James Bennett, San Leandro ,CA 94577

Raymond Mac, San Leandro ,CA 94577

Jay Slean, San Leandro ,CA 94577

Darryl Gaines, San Leandro ,CA 94577

Greg Brown, San Leandro ,CA 94577

Eric Bahm, San Leandro ,CA 94577

Don Patterson, San Leandro ,CA 94577

Thomas Huetteman, San Leandro ,CA 94577

Joseph Sartelle, San Leandro ,CA 94577

William Berystrom, San Leandro ,CA 94577

Owen Rubin, San Leandro ,CA 94577

Barry Grushkowitz, San Leandro ,CA 94577

Mike Gomez Jr, San Leandro ,CA 94577

Robert Disilverio, San Leandro ,CA 94577

Martin Vitz, San Leandro ,CA 94577

David Bardoff, San Leandro ,CA 94577

Keith Robertson, San Leandro ,CA 94577

George Mamoulelis, San Leandro ,CA 94577

Pete Murakami, San Leandro ,CA 94577

Daniel Hinckley, San Leandro ,CA 94577

Benjamin Guerrero, San Leandro ,CA 94577

Grant Gladman, San Leandro ,CA 94577

Damien Sykes, San Leandro ,CA 94577

Rebecca Delaney, San Leandro ,CA 94577

Rachel Fenyves, San Leandro ,CA 94577

Jacquelyn Diaz, San Leandro ,CA 94577

Patty Vonnegut, San Leandro ,CA 94577

Margaret Howard, San Leandro ,CA 94577

Elizabeth Ross, San Leandro ,CA 94577

Carol Suto, San Leandro ,CA 94577

Nancy Kocot, San Leandro ,CA 94577

Valerie Bogdanos, San Leandro ,CA 94577

Tracie Kinser, San Leandro ,CA 94577

Carole Wright, San Leandro ,CA 94577

Constance Silva, San Leandro ,CA 94577

Sharon Morris, San Leandro ,CA 94577

Sandra Godfrey, San Leandro ,CA 94577

Leticia Serna, San Leandro ,CA 94577

Jenny Murdoff, San Leandro ,CA 94577

Marta Calvo, San Leandro ,CA 94577

Chloe Santos, San Leandro ,CA 94577

Emily Rich, San Leandro ,CA 94577

Cheryl Shonnard, San Leandro ,CA 94577

Maureen Spranza, San Leandro ,CA 94577

Tiffany Howell, San Leandro ,CA 94577

Kathy Dubuque, San Leandro ,CA 94577

Jackie Vogelsang, San Leandro ,CA 94577

Cynthia Davies, San Leandro ,CA 94577

Angele Zacarias, San Leandro ,CA 94577

Alexandria Johnson, San Leandro ,CA 94577

Kathryn Gholson, San Leandro ,CA 94577

Richard Willie, San Leandro ,CA 94577

Charles O'Connor, San Leandro ,CA 94577

Aniesha Sapp, San Leandro ,CA 94577

Alexis Underwood, San Leandro ,CA 94577

Karen Difrummolo, San Leandro ,CA 94577

Ravi Whitworth, San Leandro ,CA 94577

Brittany Hodges, San Leandro ,CA 94577

Laila Thompson, San Leandro ,CA 94577

Jennifer Heller, San Leandro ,CA 94577

Lorin Peters, San Leandro ,CA 94577

Julian Quaye, San Leandro ,CA 94577

Jean Richardson, San Leandro ,CA 94577

Mary Barloga, San Leandro ,CA 94577

Patricia Yazolino, San Leandro ,CA 94577

Diane Neptune, San Leandro ,CA 94577

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Rienie Bartolini, San Leandro ,CA 94577

Assembly District 21

Michael Pickett, Menlo Park ,CA 94025

Glen Bethel, Palo Alto ,CA 94303

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James Kearney, Menlo Park ,CA 94025

Jeff McGinnis, Palo Alto ,CA 94303

Dan Mau, Redwood City ,CA 94061

Brad Toussaint, Redwood City ,CA 94061

Thomas Cincotta, Redwood City ,CA 94061

Edward Greenwald, Redwood City ,CA 94061

James Boyson, Redwood City ,CA 94061

James D Jurow, Redwood City ,CA 94061

Humberto Perez, Redwood City ,CA 94061

Ken Harris, Redwood City ,CA 94061

Frank Skoglund, Redwood City ,CA 94061

Christopher Hollstein, Redwood City ,CA 94061

Justin Hand, Redwood City ,CA 94061

Steve Leonard, Redwood City ,CA 94061

Kurt Hemmingsen, Redwood City ,CA 94061

Robert Olson, Redwood City ,CA 94062

David Strausberg, Redwood City ,CA 94062

Cohen Guy, Emerald Hills ,CA 94062

Thomas Kavanaugh, Redwood City ,CA 94062

Cal Sloan, Redwood City ,CA 94062

Wallace Bradford, Redwood City ,CA 94062

Tom Lyons, Redwood City ,CA 94062

Marc Beban, Redwood City ,CA 94062

Raymundo Ortiz, Redwood City ,CA 94062

Mark Moucton, Emerald Hills ,CA 94062

Chad Reade, Redwood City ,CA 94062

Adam Brown, Redwood City ,CA 94062

Cory Place, Redwood City ,CA 94062

Randy Engler, Redwood City ,CA 94062

Donald Johnson, Redwood City ,CA 94062

Hector Barragan, Redwood City ,CA 94062

Michael Wenz, Redwood City ,CA 94062

John Pinkston, Atherton ,CA 94027

John Pink, Redwood City ,CA 94062

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Sydney Graham, Redwood City ,CA 94062

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Judy Webster, Redwood City ,CA 94061

Lauren Byrne, Redwood City ,CA 94061

Keisha Thoene, Redwood City ,CA 94061

Janice Byrns, Redwood City ,CA 94061

Cindy Merritt, Redwood City ,CA 94061

Patty Doody, Redwood City ,CA 94061

Patti Fletcher, Redwood City ,CA 94061

Gail Ragains, Redwood City ,CA 94061

Sarah Kemper, Redwood City ,CA 94061

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Stacy Emory, Redwood City ,CA 94061

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Michelle Discher, Redwood City ,CA 94061

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Rebecca La Londe, Redwood City ,CA 94062

Mary McGlynn, Redwood City ,CA 94062

Patricia Kracht, Redwood City ,CA 94062

Katharine Edwards, Redwood City ,CA 94062

Pat Martinez, Redwood City ,CA 94062

Linda Bunt, Redwood City ,CA 94062

Margaret Tracy, Redwood City ,CA 94062

Wendy Tawaratsumida, Redwood City ,CA 94062

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Josefina Ayarza, Redwood City ,CA 94062

Jennifer Overby, Redwood City ,CA 94062

Lynn Egan, Redwood City ,CA 94062

Amanda Trice, Redwood City ,CA 94062

Anna Sheikh, Redwood City ,CA 94062

Kathleen Bakshi, Redwood City ,CA 94062

Heather Kinser, Redwood City ,CA 94062

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Catherine Taylor, Redwood City ,CA 94062

Gloria Maldonado, Redwood City ,CA 94062

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Jacqueline Rogers, Redwood City ,CA 94062

Lori Beasley, Redwood City ,CA 94062

Heather Sutherland, Redwood City ,CA 94062

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Shelly Hayes, Redwood City ,CA 94062

Sue Mitchell, Redwood City ,CA 94062

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Cheryl Powell, Redwood City ,CA 94062

Camille Johnson, Redwood City ,CA 94062

Sandra Lyon, Emerald Hills ,CA 94062

Diane Leeds, Emerald Hills ,CA 94062

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Patricia Baile, Menlo Park ,CA 94025

Lisa Conrad, Menlo Park ,CA 94025

Donatella Rossignoli, Menlo Park ,CA 94025

Gabrielle Castro, Menlo Park ,CA 94025

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Steven Zelinger, Menlo Park ,CA 94025

Gabby Rubio, Menlo Park ,CA 94025

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Katherine HaffnerZoccatelli, Menlo Park ,CA 94025

Jennifer Squires, Menlo Park ,CA 94025

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Nirl London, Menlo Park ,CA 94025

Tad Egami, Menlo Park ,CA 94025

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Carter Berg, Menlo Park ,CA 94025

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Jeff Myers, Menlo Park ,CA 94025

Alinne Ortiz, Menlo Park ,CA 94025

Kevin Eklund, Menlo Park ,CA 94025

Tracey Rauen, Menlo Park ,CA 94025

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Keiran Thompson, Menlo Park ,CA 94025

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Laurie Jarrett, Palo Alto ,CA 94303

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Sharon Prentice, Palo Alto ,CA 94303

Wheilin Hwang, Palo Alto ,CA 94303

Tomas Diaz-Wahl, Palo Alto ,CA 94303

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Anonymous Donor, Redwood City ,CA 94062

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M Zahid, Redwood City ,CA 94062

Marvan Taghvaie, Redwood City ,CA 94062

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Assembly District 23

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Rob Lockhart, Half Moon Bay ,CA 94019

Philip Barnett, Half Moon Bay ,CA 94019

Jerrold Buck, Half Moon Bay ,CA 94019

Stewart Sterling, Half Moon Bay ,CA 94019

John Raithel, Half Moon Bay ,CA 94019

Antonio Ramirez, Half Moon Bay ,CA 94019

John Szabo, Half Moon Bay ,CA 94019

Scott Holmes, Half Moon Bay ,CA 94019

Nicholas Bruno, Half Moon Bay ,CA 94019

Richard Hernandez, Half Moon Bay ,CA 94019

Richard Moore, Half Moon Bay ,CA 94019

Tim Riley, Half Moon Bay ,CA 94019

Thomas Goodson, Half Moon Bay ,CA 94019

Charlie Hodgin, Half Moon Bay ,CA 94019

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Monte Hoskins, Menlo Park ,CA 94025

Ken Fuson, Menlo Park ,CA 94025

Mahmood Sulieman, Menlo Park ,CA 94025

Thomas Jaramillo, Menlo Park ,CA 94025

Steve Foug, Menlo Park ,CA 94025

Dan Diederich, Menlo Park ,CA 94025

Terence Kenney, Menlo Park ,CA 94025

David Korn, Menlo Park ,CA 94025

Bill Greer, Menlo Park ,CA 94025

Jim Tufts, Menlo Park ,CA 94025

Ed Luck, Menlo Park ,CA 94025

Michael Svihura, Menlo Park ,CA 94025

Robert Hall, Menlo Park ,CA 94025

Christopher Sharp, Menlo Park ,CA 94025

Douglas Kaufman, Menlo Park ,CA 94025

Julian Cortella, Menlo Park ,CA 94025

Peter Kim, Menlo Park ,CA 94025

Robert Caletti, Menlo Park ,CA 94025

Sally Finkle, Menlo Park ,CA 94025

John Morris, Menlo Park ,CA 94025

Kevin Moore, Menlo Park ,CA 94025

Steve DeLaet, Menlo Park ,CA 94025

David Rubin, Menlo Park ,CA 94025

Joe Adelson, Menlo Park ,CA 94025

Powell Pocsi, Menlo Park ,CA 94025

Tyler Jackson, Menlo Park ,CA 94025

Mark Reott, Menlo Park ,CA 94025

Mark Doherty, Menlo Park ,CA 94025

David Pellone, Menlo Park ,CA 94025

Daniel Wegener, Menlo Park ,CA 94025

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Michel Streuli, Atherton ,CA 94027

George Wu, Atherton ,CA 94027

Herbert Schneider, Atherton ,CA 94027

Steve Hayes, Atherton ,CA 94027

Leonard Jackie, Atherton ,CA 94027

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Lee Berg, Palo Alto ,CA 94303

Michael Hendershot, Palo Alto ,CA 94303

James Anderson, Palo Alto ,CA 94303

Joel Brown, Palo Alto ,CA 94303

William Queen, Palo Alto ,CA 94303

Victor Rising, Palo Alto ,CA 94303

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Peter Underhill, Palo Alto ,CA 94303

Jon Stone, Palo Alto ,CA 94303

Andrei Sarna-Wojcicki, Palo Alto ,CA 94303

Richard Winden, Palo Alto ,CA 94303

Skip Shapiro, Palo Alto ,CA 94303

Peter Robinson, Palo Alto ,CA 94306

Paul Gibson, Palo Alto ,CA 94306

Art Mcgarr, Palo Alto ,CA 94306

Jonathan Loeb, Palo Alto ,CA 94306

Singh Keshaw, Palo Alto ,CA 94306

Rob Schlub, Palo Alto ,CA 94306

Ronald Kaplan, Palo Alto ,CA 94306

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Darren Raymond-Lombardo, Menlo Park ,CA 94025

Eric Bunje, Menlo Park ,CA 94025

Clifford Brunk, Menlo Park ,CA 94025

Kellen Glinder, Menlo Park ,CA 94025

Gene McDaniel, Menlo Park ,CA 94025

Jon Hazard, Menlo Park ,CA 94025

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Donald Shockey, Menlo Park ,CA 94025

George Cole, Menlo Park ,CA 94025

Jeffrey Garrett, Menlo Park ,CA 94025

Narada Hess, Menlo Park ,CA 94025

John Donald, Menlo Park ,CA 94025

Brian Cioffi, Menlo Park ,CA 94025

Chris Martin, Menlo Park ,CA 94025

Jim Pagee, Menlo Park ,CA 94025

Sidney Miller, Palo Alto ,CA 94301

George Herman, Palo Alto ,CA 94301

David Pirie, Palo Alto ,CA 94301

Stephen Sherman, Palo Alto ,CA 94301

Michael Campbell, Palo Alto ,CA 94301

Tyler Hoffman, Palo Alto ,CA 94301

Alan Polish, Palo Alto ,CA 94301

Hal Rucker, Palo Alto ,CA 94301

Mark Ostrau, Palo Alto ,CA 94301

Dennis Boyle, Palo Alto ,CA 94301

Robert Fisher, Palo Alto ,CA 94303

Charles Hoke, Palo Alto ,CA 94303

Byron Brown, Palo Alto ,CA 94303

Peter Noone, Palo Alto ,CA 94303

James Holmlund, Palo Alto ,CA 94303

Jon De Feo, Palo Alto ,CA 94303

Barry Gleeson, Palo Alto ,CA 94303

Abramson Tzuia, Palo Alto ,CA 94303

David Chen, Palo Alto ,CA 94303

Michael Grossmam, Palo Alto ,CA 94303

Dieter Jundt, Palo Alto ,CA 94303

Michael Torgersen, Palo Alto ,CA 94303

John Dukovic, Palo Alto ,CA 94303

Jonathan Ward, Palo Alto ,CA 94303

Volker Schellenberger, Palo Alto ,CA 94303

Kwame Adwere-Boamah, Palo Alto ,CA 94303

Rex Grignon, Palo Alto ,CA 94303

Peter Capak, Mountain View ,CA 94040

Elaine Anderson, Mountain View ,CA 94040

Molly Carlson, Mountain View ,CA 94040

Zale Mitchner, Mountain View ,CA 94040

Steven Olsen, Mountain View ,CA 94040

Lester Su, Mountain View ,CA 94040

Charles Cump, Mountain View ,CA 94040

Martin Griss, Mountain View ,CA 94040

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Charles Zissman, Mountain View ,CA 94040

David Lehoty, Mountain View ,CA 94040

Steve Chessin, Mountain View ,CA 94040

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Benjamin Hollin, Mountain View ,CA 94040

Mattew Wheeler, Mountain View ,CA 94040

Douglas Starr, Mountain View ,CA 94040

Allen Atwood, Mountain View ,CA 94040

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Stephan Sochoux, Redwood City ,CA 94061

Peter HEadland, Redwood City ,CA 94061

Terry Langeman, Redwood City ,CA 94061

Hugh McLaughlin, Mountain View ,CA 94040

Robert Buschini, Menlo Park ,CA 94025

Stephanie Anderson, Palo Alto ,CA 94301

Haiyan Chen, Palo Alto ,CA 94303

Anne Contreras, Palo Alto ,CA 94303

Mary Lou Meeks, Palo Alto ,CA 94303

Lisa Jewett, Half Moon Bay ,CA 94019

Wendy Lama, Half Moon Bay ,CA 94019

Bonnie Thielemann, Menlo Park ,CA 94025

Kathleen Balestra, Atherton ,CA 94027

Art Mcgarr, Palo Alto ,CA 94306

Janet Bernadicou, Menlo Park ,CA 94025

Sabine Lenz, Palo Alto ,CA 94301

Kathleen Alley, Mountain View ,CA 94040

Anne Blakeley, Mountain View ,CA 94040

Moira Turner, Mountain View ,CA 94040

Donna Monferdini, Mountain View ,CA 94040

Denise Shine, Mountain View ,CA 94040

Catherine Helgeson, Mountain View ,CA 94040

Gail Prager, Mountain View ,CA 94040

Margaret Suozzo, Mountain View ,CA 94040

Fara Brock, Mountain View ,CA 94040

Patricia Gilbert, Mountain View ,CA 94040

Pearly Varghese, Mountain View ,CA 94040

Marla Denning, Mountain View ,CA 94040

Stephanie Channing, Mountain View ,CA 94040

Patricia Parfett, Mountain View ,CA 94040

Shirley Luna, Mountain View ,CA 94040

Monica Rogers, Mountain View ,CA 94040

Dianne Mar, Mountain View ,CA 94040

Karen O'Brien, Mountain View ,CA 94040

Joanne Donovan, Mountain View ,CA 94040

Darlene Plamondon, Mountain View ,CA 94040

Susan Arnold, Mountain View ,CA 94040

Kathleen Murcheck, Mountain View ,CA 94040

Cindy Kelly, Mountain View ,CA 94040

Janis Carey, Mountain View ,CA 94040

Janice La Duke, Mountain View ,CA 94040

Ann Baker, Redwood City ,CA 94061

Sandra Langeman, Redwood City ,CA 94061

Bridget Madigan, Redwood City ,CA 94061

Kanna Garcia, Redwood City ,CA 94061

Jane Creighton, Redwood City ,CA 94061

Laurel Dawson, Redwood City ,CA 94062

Cara Rudolf, Palo Alto ,CA 94301

Kiara Kramer, Palo Alto ,CA 94301

Mary Nemerov, Palo Alto ,CA 94301

Susan Farrell, Palo Alto ,CA 94301

Patricia Harrell, Palo Alto ,CA 94301

Mike Karen, Palo Alto ,CA 94301

Ruth Letts, Palo Alto ,CA 94301

Susan Nolan, Palo Alto ,CA 94301

Allison Chao, Palo Alto ,CA 94301

Peggy Boyle, Palo Alto ,CA 94301

Anne Rerolle, Palo Alto ,CA 94303

Sheela Narayanaswami, Palo Alto ,CA 94303

Maxene Choi, Palo Alto ,CA 94303

Yvette Cooper, Palo Alto ,CA 94303

Cathy Berwaldt, Palo Alto ,CA 94303

Kathleen Mc Connell, Palo Alto ,CA 94303

Lea Eisen Nilsson, Palo Alto ,CA 94303

Catherine Christen, Palo Alto ,CA 94303

Charmaine Furman, Palo Alto ,CA 94303

Lori Sitrin, Palo Alto ,CA 94303

Barbara Bogner, Palo Alto ,CA 94303

Eugina Merken, Palo Alto ,CA 94303

Rudolph Jaklitsch, Palo Alto ,CA 94303

Joanne Carey, Palo Alto ,CA 94303

Ingrid Totic, Palo Alto ,CA 94303

Natalie Docktor, Palo Alto ,CA 94303

Doree Tschudy, Palo Alto ,CA 94303

Margaret Myers, Palo Alto ,CA 94303

Marsha Blauwkamp, Palo Alto ,CA 94303

Edith Jacobi, Palo Alto ,CA 94303

Nancy Atkinson, Palo Alto ,CA 94303

Judy Lee-Squire, Palo Alto ,CA 94303

Helene Demoulin, Palo Alto ,CA 94303

Caroline Peres, Palo Alto ,CA 94303

Susie Poon, Palo Alto ,CA 94303

Midori Hosobuchi, Palo Alto ,CA 94303

Marcia Hopwood, Palo Alto ,CA 94303

Jeanne Schaefer, Palo Alto ,CA 94303

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Patricia Wipfler, Palo Alto ,CA 94306

Amelia Tung, Palo Alto ,CA 94306

Victoria Smith, Palo Alto ,CA 94306

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Susan Luttner, Palo Alto ,CA 94306

Emi Sullivan, Palo Alto ,CA 94306

Diane Baldwin, Palo Alto ,CA 94306

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Michelle DeWolf, Menlo Park ,CA 94025

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Jonried Davila, Menlo Park ,CA 94025

Laura Lane, Menlo Park ,CA 94025

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Britte Cheng, Menlo Park ,CA 94025

Catherine Keeler, Menlo Park ,CA 94025

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Tonya Bliss, Menlo Park ,CA 94025

Judith Rino, Menlo Park ,CA 94025

Maricela Valencia, Menlo Park ,CA 94025

Christie Giacomozzi, Menlo Park ,CA 94025

Kristina Johnson, Menlo Park ,CA 94025

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Trish Ballard, Menlo Park ,CA 94025

Jennifer Yu, Menlo Park ,CA 94025

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Jody Buckley, Menlo Park ,CA 94025

Simonne Greene, Menlo Park ,CA 94025

Naomi Baer, Menlo Park ,CA 94025

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Rachel Tasch, Menlo Park ,CA 94025

Tracey Ireland, Menlo Park ,CA 94025

Andrea Mallick, Menlo Park ,CA 94025

Susan Lacoste, Menlo Park ,CA 94025

Carol Mince, Menlo Park ,CA 94025

Sarah Conlon, Menlo Park ,CA 94025

Michele McNellis, Atherton ,CA 94027

Cori Bates, Atherton ,CA 94027

Naomi Reynolds, Atherton ,CA 94027

Sue Thomas, Atherton ,CA 94027

Susan Stevick, Atherton ,CA 94027

Mary Ann Gianocca, Half Moon Bay ,CA 94019

Stephanie Izzarelli, Half Moon Bay ,CA 94019

Susan Jones, Half Moon Bay ,CA 94019

Lisa Claybaugh, Half Moon Bay ,CA 94019

Janet Jarvis, Half Moon Bay ,CA 94019

Elaine Parker, Half Moon Bay ,CA 94019

Vicky Mitchell, Half Moon Bay ,CA 94019

Georgann Dudash, Half Moon Bay ,CA 94019

Jessica Velazquez, Half Moon Bay ,CA 94019

Jacqueline Ching, Half Moon Bay ,CA 94019

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Louise Scholan, Half Moon Bay ,CA 94019

Johanna Mayer, Half Moon Bay ,CA 94019

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Concepsion Cardenas, Half Moon Bay ,CA 94019

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Margo Witt, Half Moon Bay ,CA 94019

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William McCluney, Half Moon Bay ,CA 94019

Pete Martin, Half Moon Bay ,CA 94019

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Joseph Pizziconi, Half Moon Bay ,CA 94019

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Esther Estey, Menlo Park ,CA 94025

Aizaz Ali, Menlo Park ,CA 94025

Ariel Reich, Menlo Park ,CA 94025

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Azalea Mitch, Menlo Park ,CA 94025

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Saya Jenks, Menlo Park ,CA 94025

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Gregory Diamos, Menlo Park ,CA 94025

Lacramioara Bintu, Menlo Park ,CA 94025

Jaime Gonzalez Jr, Menlo Park ,CA 94025

Vikram Singh, Atherton ,CA 94027

Glista Guilford, Palo Alto ,CA 94301

Steven Bisset, Palo Alto ,CA 94301

Anonymous Donor, Palo Alto ,CA 94301

Yue Shi, Palo Alto ,CA 94301

Christian Carter, Palo Alto ,CA 94301

Robin Parker Meredith, Palo Alto ,CA 94301

Tom Chen, Palo Alto ,CA 94301

Sandy Peters, Palo Alto ,CA 94301

Elizabeth Ronn, Palo Alto ,CA 94301

Joe Lo, Palo Alto ,CA 94301

Satyadev Patel, Palo Alto ,CA 94303

Liping Xia, Palo Alto ,CA 94303

Lolly Osborne, Palo Alto ,CA 94303

Andrew Richmond, Palo Alto ,CA 94303

Merken Euginia, Palo Alto ,CA 94303

Deepak Lala, Palo Alto ,CA 94303

Nadezhda Derugin, Palo Alto ,CA 94303

Leigh Klotz, Palo Alto ,CA 94303

Jean Kirsch, Palo Alto ,CA 94303

M Arunasalam, Palo Alto ,CA 94303

Basab Pradhan, Palo Alto ,CA 94303

Fernda Suriani, Palo Alto ,CA 94303

Christine Kanazawa, Palo Alto ,CA 94303

Chetan Patwardhan, Palo Alto ,CA 94303

Celso Frazao, Palo Alto ,CA 94303

Portia Barrientos, Palo Alto ,CA 94303

Zhong Chen, Palo Alto ,CA 94303

Anonymous Donor, Palo Alto ,CA 94303

Yan Zhang, Palo Alto ,CA 94303

Nathan Alloy, Palo Alto ,CA 94306

Lucy Gu, Palo Alto ,CA 94306

Michael Devine, Palo Alto ,CA 94306

Joe Saccio, Palo Alto ,CA 94306

Kossie Antonova, Palo Alto ,CA 94306

Ronak Patel, Palo Alto ,CA 94306

Deborah McCarley, Palo Alto ,CA 94306

Smita Shah, Palo Alto ,CA 94306

Chris Childress, Redwood City ,CA 94062

Marc Beban, Redwood City ,CA 94062

Carrie Johnson, Redwood City ,CA 94062

Chris Bradford, Mountain View ,CA 94040

Sumeet Jain, Mountain View ,CA 94040

Pat Cochran, Mountain View ,CA 94040

Fan Ye, Mountain View ,CA 94040

Ben Longcorn, Mountain View ,CA 94040

Kelly Shimababukuro, Mountain View ,CA 94040

Frank Bowers, Mountain View ,CA 94040

Pat Stone, Mountain View ,CA 94040

James Apffel, Mountain View ,CA 94040

Kim Evans, Mountain View ,CA 94040

Cregg Cowan, Mountain View ,CA 94040

Kavita Aiyar, Mountain View ,CA 94040

Shuntong Zhu, Mountain View ,CA 94040

Michal Skliba, Mountain View ,CA 94040

Teressa Ellison, Mountain View ,CA 94040

Cary Watson, Mountain View ,CA 94040

Larry Hu, Mountain View ,CA 94040

Anonymous Donor, Redwood City ,CA 94061

Deb Henken, Redwood City ,CA 94062

Amanda Trice, Redwood City ,CA 94062

Doug McIntyre, Redwood City ,CA 94062

Clare Marie Maloney, San Jose ,CA 95126

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Pam Williams, San Jose ,CA 95125

Maureen Spitz, San Jose ,CA 95125

Liz Leigh, San Jose ,CA 95125

Bryan Olivar, San Jose ,CA 95125

Kevin Thur, San Jose ,CA 95125

Hannah Bishop, San Jose ,CA 95125

Indu Singh, San Jose ,CA 95125

Linda Longpria, San Jose ,CA 95125

Justin Huerta, San Jose ,CA 95125

John Schwartz, San Jose ,CA 95125

Stephanie Kirkbride, San Jose ,CA 95125

Kate Sbrega, San Jose ,CA 95125

Giovanni Ruiz Santos, San Jose ,CA 95125

Eleni Hopkins, San Jose ,CA 95125

Assembly District 26

Michael Scandizzo, Sunnyvale ,CA 94087

Jessica Salam, Sunnyvale ,CA 94087

Michael Serrone, Sunnyvale ,CA 94087

Paul Cole, Sunnyvale ,CA 94087

Nathan Gardner, Sunnyvale ,CA 94087

Lance Cuenca, Sunnyvale ,CA 94087

Roy Smith, Sunnyvale ,CA 94087

Eric Hughes, Sunnyvale ,CA 94087

Stu Warnsman, Sunnyvale ,CA 94087

Kevin Looney, Sunnyvale ,CA 94087

Greg Leuenberger, Sunnyvale ,CA 94087

Rob Ward, Sunnyvale ,CA 94087

Jeff Pickles, Sunnyvale ,CA 94087

Richard Brookner, Sunnyvale ,CA 94087

Woody Lorman, Sunnyvale ,CA 94087

Ed Fong, Sunnyvale ,CA 94087

Eric Hegblom, Sunnyvale ,CA 94087

Bill Chin, Sunnyvale ,CA 94087

Andrew Ballantyne, San Jose ,CA 95125

Richard Feldman, Cupertino ,CA 95014

Anand Gangadharan, Cupertino ,CA 95014

Brian Vanoli, Cupertino ,CA 95014

Snehashish Sarkar, Cupertino ,CA 95014

Tom Fitzwater, Cupertino ,CA 95014

Alan Taniguchi, Cupertino ,CA 95014

Greg Richmond, Cupertino ,CA 95014

Peter Heyman, Cupertino ,CA 95014

Alex Logan, San Jose ,CA 95125

Charles Cramer, Santa Clara ,CA 95050

Eric Siqueiros, Santa Clara ,CA 95050

Mushtaq Syed, Santa Clara ,CA 95050

Carole Nuttall, Sunnyvale ,CA 94087

Janet Carney, Santa Clara ,CA 95050

Sharon Navone, Santa Clara ,CA 95050

Lynn Hayes, Santa Clara ,CA 95050

Lana Hysinger, Cupertino ,CA 95014

Krishna Prakash, Cupertino ,CA 95014

Edna Amezcua, Cupertino ,CA 95014

Kathy Kwan, Cupertino ,CA 95014

Margie Kensit, San Jose ,CA 95125

Sally Stallard, San Jose ,CA 95125

Carol Marks, Sunnyvale ,CA 94087

Sharon Visini, Sunnyvale ,CA 94087

Alissa Chackerian, Sunnyvale ,CA 94087

Shari Caudle, Sunnyvale ,CA 94087

Anita Herrmann, Sunnyvale ,CA 94087

Alice Schwegman, Sunnyvale ,CA 94087

Michelle Lange, Sunnyvale ,CA 94087

Robin Florentine, Sunnyvale ,CA 94087

Lisa Harmon, Sunnyvale ,CA 94087

Nicole Broadwell, Sunnyvale ,CA 94087

Lenore Cohen, Sunnyvale ,CA 94087

Donna Dillard, Sunnyvale ,CA 94087

Melani Ott, Sunnyvale ,CA 94087

Wendy Lyn, Sunnyvale ,CA 94087

Pamela Caywood, Sunnyvale ,CA 94087

Renuka Singaraju, Sunnyvale ,CA 94087

Fabiane Maluchnik, Sunnyvale ,CA 94087

Barada Mishra, Sunnyvale ,CA 94087

Shaoling Li, Sunnyvale ,CA 94087

Chinh Nguyen, Sunnyvale ,CA 94087

Anonymous Donor, Sunnyvale ,CA 94087

Geralynn Myrah, Sunnyvale ,CA 94087

David Ecsery, Sunnyvale ,CA 94087

Meghana Deodhar, Sunnyvale ,CA 94087

Kaiehu Kaahaaina, Cupertino ,CA 95014

Jason Lewis, Cupertino ,CA 95014

Seb Wong, Cupertino ,CA 95014

Sumeet Arora, Cupertino ,CA 95014

Sara Loesch-Frenk, Cupertino ,CA 95014

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Kiran Rao, Cupertino ,CA 95014

Lynn Bonicelli, Cupertino ,CA 95014

Rongcheng Lin, Cupertino ,CA 95014

Siddharth Gadkari, Cupertino ,CA 95014

Anonymous Donor, Cupertino ,CA 95014

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Vivek Tiwari, Santa Clara ,CA 95050

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Vanessa Jimenez, Santa Clara ,CA 95050

Italica Tapia, Santa Clara ,CA 95050

Allison Daugherty, Santa Clara ,CA 95050

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Ben Cortez, Los Gatos ,CA 95032

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Sam Burkhardt, Santa Cruz ,CA 95062

Eugene Madison, Santa Cruz ,CA 95062

Michael Lasky, Santa Cruz ,CA 95062

Jonathan Casper, Santa Cruz ,CA 95062

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Diane Smith, Santa Cruz ,CA 95062

Pete Gustafson, Santa Cruz ,CA 95062

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David Harrington, Santa Cruz ,CA 95062

Douglas Mahone, Santa Cruz ,CA 95062

David Ross, Santa Cruz ,CA 95062

Robert Salazar, Santa Cruz ,CA 95062

Robert Sudden, Santa Cruz ,CA 95062

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Michael Caspe, Santa Cruz ,CA 95062

Craig Owens, Santa Cruz ,CA 95062

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Ken Miller, Santa Cruz ,CA 95062

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Walt Wadlow, Santa Cruz ,CA 95062

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Sebastian Dante, Santa Cruz ,CA 95060

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David Kitchen, Santa Cruz ,CA 95062

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James Lemasters, San Jose ,CA 95125

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Warren Hein, San Jose ,CA 95125

Kent Pelz, San Jose ,CA 95125

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James Murray, San Jose ,CA 95125

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Lloyd Smith, Ben Lomond ,CA 95005

D Joseph Overby, Ben Lomond ,CA 95005

Eric Shell, Ben Lomond ,CA 95005

Patrick Kidd, Ben Lomond ,CA 95005

Ted Lodge, Ben Lomond ,CA 95005

Rodney Jensen, Ben Lomond ,CA 95005

Lance Howard, Ben Lomond ,CA 95005

Jon Regan, San Jose ,CA 95125

Fred Murphy, San Jose ,CA 95125

Howard Nelson, San Jose ,CA 95125

John Martin, San Jose ,CA 95125

Robert Bauman, San Jose ,CA 95125

Tim Murray, San Jose ,CA 95125

Bruce Lindsey, San Jose ,CA 95125

Jeff Norment, San Jose ,CA 95125

Gino Sartor, San Jose ,CA 95125

Ted Kremenek, San Jose ,CA 95125

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Mike Maslaney, San Jose ,CA 95125

Ernest Cockrell, San Jose ,CA 95125

Tom Simon, San Jose ,CA 95125

Tim Thompson, San Jose ,CA 95125

Karl Laucher, San Jose ,CA 95125

Stephen Zee, San Jose ,CA 95125

Andrew Jones, San Jose ,CA 95125

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Scott Gardner, Los Gatos ,CA 95032

Lester Soss, Los Gatos ,CA 95032

Kevin Luehrte, Los Gatos ,CA 95032

Daniel Culbert, Los Gatos ,CA 95032

Dennis Fredeicks, Los Gatos ,CA 95032

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Thomas Ehrlich, Santa Cruz ,CA 95065

Roy Espinoza, Santa Cruz ,CA 95065

Michael King, Sana Cruz ,CA 95065

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David Ezroj, Santa Cruz ,CA 95065

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Pranav Anand, Santa Cruz ,CA 95065

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Matt Bortolin, Santa Cruz ,CA 95065

Michael Pruger, Santa Cruz ,CA 95065

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Cyril Smith, Felton ,CA 95018

Michael Kauert, Felton ,CA 95018

Robert Riley, Felton ,CA 95018

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Eric Long, Felton ,CA 95018

Peter Haddad, Felton ,CA 95018

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Homer Leonard, Los Gatos ,CA 95030

Mark Hassin, Los Gatos ,CA 95030

Joseph Teague, Los Gatos ,CA 95030

Susan Spencer, Felton ,CA 95018

Cynthia Hinogosa-Alvarado, San Jose ,CA 95125

Mary Bushman, Ben Lomond ,CA 95005

Heather Pham, San Jose ,CA 95125

Karen Ford, San Jose ,CA 95125

Jessica Blitchok, San Jose ,CA 95125

Sandra Eidam, Los Gatos ,CA 95032

Frances Edwards, Los Gatos ,CA 95032

Catherine Voss Plaxton, Los Gatos ,CA 95032

Annemone Barnett, Los Gatos ,CA 95032

Terry Waters, Santa Cruz ,CA 95062

Bonnie Olson, Santa Cruz ,CA 95062

Jolene Kemos, Santa Cruz ,CA 95062

Marlene Pitkow, Santa Cruz ,CA 95062

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Delys Loxas, Santa Cruz ,CA 95062

Marian Malatesta, Santa Cruz ,CA 95062

Diana Magor, Santa Cruz ,CA 95060

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Duffy Grant, Santa Cruz ,CA 95060

Marsha Shanle, Santa Cruz ,CA 95060

Dee Schabot, Santa Cruz ,CA 95060

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Jessica Merring, Felton ,CA 95018

Sarah Sevilla, Felton ,CA 95018

Agatha Kenar, Felton ,CA 95018

Tami Tracey, Felton ,CA 95018

Cathy Lemeshewsky, Felton ,CA 95018

Kate Stoelting, Felton ,CA 95018

Kathryn Bolle, Felton ,CA 95018

Cheryl Anderson, Felton ,CA 95018

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Joan Laird, Los Gatos ,CA 95030

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Linda Lowney, Los Gatos ,CA 95030

Yolanda Augustino, Los Gatos ,CA 95030

Emily Feather, Los Gatos ,CA 95030

Nancy Martin, Los Gatos ,CA 95030

Cheryl Hasha, Los Gatos ,CA 95030

Regina Araujo, Los Gatos ,CA 95030

Darcia Eding, Los Gatos ,CA 95030

Robin McCool, Santa Cruz ,CA 95065

Eloise Graham, Santa Cruz ,CA 95065

Cheryl Mayes, Santa Cruz ,CA 95065

Karen Cochran, Santa Cruz ,CA 95065

Cathy Curtis, Santa Cruz ,CA 95065

Therese Kilpatrick, Santa Cruz ,CA 95065

Maryanne Lange, Santa Cruz ,CA 95065

Kelly Gibson, Santa Cruz ,CA 95065

Diana Ireland, Santa Cruz ,CA 95065

Heidi Morgan, Santa Cruz ,CA 95065

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Mary Lou Nicoletti, Santa Cruz ,CA 95065

Kathleen Willey, Los Gatos ,CA 95032

Christina Selfridge, Los Gatos ,CA 95032

Meghan Williams, Los Gatos ,CA 95032

Claire Linstrom, Los Gatos ,CA 95032

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Ashley Coffeng, Los Gatos ,CA 95032

Arlene Mitchell, Los Gatos ,CA 95032

Judy Levin, Los Gatos ,CA 95032

Christa Cormier, Los Gatos ,CA 95032

Kathleen Donofrio, Los Gatos ,CA 95032

Sue Takaichi, Los Gatos ,CA 95032

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April Kern, Los Gatos ,CA 95032

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Judith Hembrough, Los Gatos ,CA 95032

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Kami Pham, Los Gatos ,CA 95032

Debra Creger, Los Gatos ,CA 95032

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Altie Ginn, Los Gatos ,CA 95032

Naomi Salowe, Los Gatos ,CA 95032

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Claudia Coffey, Los Gatos ,CA 95032

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Tamara Swain, Ben Lomond ,CA 95005

Sharon Rose, Ben Lomond ,CA 95005

Jo Kenny, Ben Lomond ,CA 95005

Adrienne Erwin, Ben Lomond ,CA 95005

Nadia Czarnota, Ben Lomond ,CA 95005

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Kathleen Mcburney, Santa Cruz ,CA 95062

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Lorie Goudie, Santa Cruz ,CA 95062

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Fabiola Grimaldo, Santa Cruz ,CA 95062

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Marianne Franks, Santa Cruz ,CA 95062

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Mikako Lazarus, Santa Cruz ,CA 95062

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Molly Mcmahon, Santa Cruz ,CA 95062

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Kathy Calvert, Santa Cruz ,CA 95062

Emilio Rubalcaba, Santa Cruz ,CA 95062

Eva Rose, Santa Cruz ,CA 95062

John Smyrl, Santa Cruz ,CA 95062

Chris Kim, Santa Cruz ,CA 95062

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Lio Lomez, Santa Cruz ,CA 95062

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Megann Marten, Santa Cruz ,CA 95062

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Ednaarely Cruz, Santa Cruz ,CA 95062

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Michael Behan, Santa Cruz ,CA 95062

Matthew Stevens, Santa Cruz ,CA 95062

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Georgia Ramos, Santa Cruz ,CA 95062

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Cerridwyn McLaglen, Santa Cruz ,CA 95062

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Holly Hoeksema, Santa Cruz ,CA 95062

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Vanessa Weber, Santa Cruz ,CA 95062

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Robin Garcia, Santa Cruz ,CA 95060

Robin Murphy, Santa Cruz ,CA 95060

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Jason Beren, Ben Lomond ,CA 95005

Matthew Cornelison, Ben Lomond ,CA 95005

Jim D'artenay, Ben Lomond ,CA 95005

Karen Lockwood, Ben Lomond ,CA 95005

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Jonass Lehtinen, San Jose ,CA 95125

Devyn Shum, San Jose ,CA 95125

Cheick Camara, San Jose ,CA 95125

Erikka Santiago, San Jose ,CA 95125

Paraag Vaishampayan, San Jose ,CA 95125

Franceska Huggins, San Jose ,CA 95125

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Sriram Sundarababu, Los Gatos ,CA 95032

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Joann Alvis, Los Gatos ,CA 95030

Charles Tuckfield, Los Gatos ,CA 95030

Chelsy Cueva, Los Gatos ,CA 95030

Shahar Noy, Los Gatos ,CA 95030

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Tangi Chapman, Felton ,CA 95018

W S Shaw, Felton ,CA 95018

Mar Sartain, Felton ,CA 95018

Timothy Hoge, Felton ,CA 95018

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Victoria Purnell, Watsonville ,CA 95076

Canvass Lead, Freedom ,CA 95019

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Michael Thomas, Santa Cruz ,CA 95062

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Jerry Martin, Santa Cruz ,CA 95062

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Gary Gates, Santa Cruz ,CA 95062

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Vince Uycha, Monterey ,CA 93940

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William Waldron, Capitola ,CA 95010

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Bruce Hunter, Capitola ,CA 95010

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Don Campbell, Capitola ,CA 95010

Dennis Norton, Capitola ,CA 95010

Peter Emanuel, Capitola ,CA 95010

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Peter Hiller, Carmel ,CA 93923

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Benjamin Mathia, Carmel ,CA 93923

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Douglas Spinelli, Aptos ,CA 95003

Kenny Giroward, Aptos ,CA 95003

Michael Salo, Aptos ,CA 95003

Patrick Kelley, Aptos ,CA 95003

Mark Pedersen, Aptos ,CA 95003

Leslie Delorie, Aptos ,CA 95003

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Rodney Peck, Aptos ,CA 95003

Paul Hoffman, Aptos ,CA 95003

Bernard Gannon, Aptos ,CA 95003

Timothy Carl, Aptos ,CA 95003

Calvin Hom, Aptos ,CA 95003

Greg Koenig, Aptos ,CA 95003

Richard Bax, Soquel ,CA 95073

Brian Thayer, Soquel ,CA 95073

Greg Kropf, Watsonville ,CA 95076

Kraig Evans, Santa Cruz ,CA 95065

Stephen Benson, Santa Cruz ,CA 95065

Richard Corbal, Santa Cruz ,CA 95065

Roger Blain, Santa Cruz ,CA 95065

Stewart Jenkins, Santa Cruz ,CA 95065

Aaron Worthy, Santa Cruz ,CA 95065

Nancy Lowe, Soquel ,CA 95073

Scott Inman, San Luis Obispo ,CA 93401

Keneth Anderson, San Luis Obispo ,CA 93401

Ryan Hutchinson, San Luis Obispo ,CA 93401

Troy Spindler, San Luis Obispo ,CA 93401

Len Medel, San Luis Obispo ,CA 93401

Eric Olsen, San Luis Obispo ,CA 93401

James Mc Bride, San Luis Obispo ,CA 93401

Ted Rich, San Luis Obispo ,CA 93401

Douglas Rick, Pacific Grove ,CA 93950

Michael Hagerty, Pacific Grove ,CA 93950

Jamie Silva, Pacific Grove ,CA 93950

Patrick Taylor, Pacific Grove ,CA 93950

David Lindenthal, Pacific Grove ,CA 93950

Peter Bolton, Pacific Grove ,CA 93950

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Tom Seidman, Pacific Grove ,CA 93950

William Dugger, Pacific Grove ,CA 93950

John Mccraney, Pacific Grove ,CA 93950

Thomas Murray, Pacific Grove ,CA 93950

Hagen Tilp, Pacific Grove ,CA 93950

Malcolm Harris, Pacific Grove ,CA 93950

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Susan Denny- Krepp, Pacific Grove ,CA 93950

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Eric Ulwelling, Pacific Grove ,CA 93950

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Bruce Upton, Pacific Grove ,CA 93950

James Hall, Pacific Grove ,CA 93950

Chris Arnold, Pacific Grove ,CA 93950

William Lauster, Pacific Grove ,CA 93950

Lucy Moore, Pacific Grove ,CA 93950

Manda Mercurio, Monterey ,CA 93940

Mary Welsh, Monterey ,CA 93940

Bridget Ryan, Monterey ,CA 93940

Tracey Gannon, Aptos ,CA 95003

Athena Wolfe, Aptos ,CA 95003

Diane Emigh, Capitola ,CA 95010

Robin Hubert, Capitola ,CA 95010

Jan McCormac, Capitola ,CA 95010

Betty Dalsemer, Carmel ,CA 93923

Gabi Estill, Aptos ,CA 95003

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Naomi Fine, Santa Cruz ,CA 95062

Cheryl Jackson-Saunders, Santa Cruz ,CA 95062

Christine Crozier, Pacific Grove ,CA 93950

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Mari Suzuki, Pacific Grove ,CA 93950

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Patricia McDowell, Pacific Grove ,CA 93950

Pamela Wade, Pacific Grove ,CA 93950

Donna Abbott, Pacific Grove ,CA 93950

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Rosemary Wells, Pacific Grove ,CA 93950

Jan Scott, Pacific Grove ,CA 93950

Mariana Monge, Pacific Grove ,CA 93950

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Nan Sherburne, Pacific Grove ,CA 93950

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Linda Vanasupa, San Luis Obispo ,CA 93401

Mary Kleeman, San Luis Obispo ,CA 93401

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Karen Christian, Sn Luis Obisp ,CA 93401

Janine Rands, San Luis Obispo ,CA 93401

Kirsten Davis, San Luis Obispo ,CA 93401

Carol Mortensen, San Luis Obispo ,CA 93401

L Baggett, San Luis Obispo ,CA 93401

Suzanne Cikowski, Sn Luis Obisp ,CA 93401

Maria Hutkin, San Luis Obispo ,CA 93401

Karen Pling, San Luis Obispo ,CA 93401

Julie Endres, San Luis Obispo ,CA 93401

Vailia From, San Luis Obispo ,CA 93401

Paula Carr, San Luis Obispo ,CA 93401

Diana Duque, Santa Cruz ,CA 95065

Kathy Pilant, Santa Cruz ,CA 95065

Myra Taylor, Santa Cruz ,CA 95065

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Semen Solgan, Santa Cruz ,CA 95062

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Casey McDonald, Santa Cruz ,CA 95062

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Kim Larner, Monterey ,CA 93940

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Tiffany Nicholas, Aptos ,CA 95003

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Ryan Legassick, Capitola ,CA 95010

Dana Melton, Capitola ,CA 95010

Waldon Lewis, Capitola ,CA 95010

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Srividya Shankar, Carmel ,CA 93923

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Alva Romero, Santa Cruz ,CA 95065

Roger Blian, Santa Cruz ,CA 95065

Denis Ruttenberg, Santa Cruz ,CA 95065

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Mai Bui, Soquel ,CA 95073

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Lisa Martinez, Ventura ,CA 93003

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Heather Imgrund, Ventura ,CA 93003

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Pamela Leonard, Ventura ,CA 93003

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Karen McWorter, Ventura ,CA 93003

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Della Work, Ventura ,CA 93003

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Sydney Simon, Long Beach ,CA 90803

Taylor Kayse, Long Beach ,CA 90803

California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

November 30th, 2023

Re: Petition to Modify CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests; Petition to Increase Level of Protection and Streamline Enforcement for Several California State MPAs

Dear President Sklar and Honorable Commissioners,

Environment California Research & Policy Center has one mission that drives everything we do: to protect our natural world. We envision a better, greener California: one that protects and restores more places where all life can thrive and offers us and our children the opportunity to live healthier, more enriching lives.

Azul is a grassroots organization working to conserve marine resources. We treasure the life-sustaining force of the ocean, as well as the physical and spiritual nourishment it provides us. We are a Gente powered and led effort, focused first on celebrating our rich Latino conservation traditions and connecting them to current solutions. Our work is based in authentic engagement, community building, and collaboration.

That's why we welcomed the goal set by Governor Newsom and his Administration of protecting 30% of lands and coastal waters by 2030 ('30x30'), which was codified with the passage of SB337 this Fall. This goal reflects the new scientific consensus that humanity must set aside much more of the ocean to sustain healthy marine life populations and ecosystems.

The State of California's network of Marine Protected Areas (MPAs), created by the Marine Life Protection Act (MLPA), has demonstrated that area-based marine protection works: during the state's recently completed Decadal Management Review (DMR), scientific analysis showed that the network has generally succeeded in protecting ocean habitats, increasing biomass of fishery-targeted species, and enhancing the climate resilience of California's coastal ecosystems.

However, the amount of coastal waters currently protected within the statewide MPA network falls far below the state's 30% goal. Only 12% of California state waters are covered in highly to fully protected areas – the types of protected areas known to provide the best conservation outcomes – and an additional 4% is covered in lightly protected areas that allow considerable human impacts within their boundaries. In total, 16% of state waters are currently protected within an MPA.

We must do more. Coastal and marine ecosystems face growing threats related to climate change and increased human use, as well as emerging threats from new ocean uses such as offshore wind and aquaculture. In the face of these threats, now is the time to make significant improvements to the existing MPA network via an adaptive management process to better protect our ocean and coastal resources in the future.

That is why we are submitting two petitions for rulemaking intended to strengthen the network's ability to conserve critical habitat types and better manage the network. Each of the two petitions stands on their own and are based on new and updated science that were not available to policymakers at the time of designating the original network. The areas we have proposed for expansion or strengthening are prime examples of where California's ocean life stands to benefit through new or updated permanent, area-based protections created under the MLPA.

The areas we are proposing are likely not the only areas that would fit the criteria for enhanced protection laid out in our petitions, nor are our criteria the only ecological criteria that could be used to systemically strengthen the existing network in line with the state's new 30x30 goal. We urge the Fish and Game Commission and all relevant state agencies to conduct analyses that will highlight the habitat types, species, and regions underserved by the current network, with an eye toward building a state MPA network that is resilient in the face of rising ocean temperatures, emerging threats, and continued pressure on endangered and threatened species.

Californians can be proud that we have led the way in ocean conservation over the past decades. It's time to take up the mantle of leadership once again, globally and nationally, not only to create a better future for the amazing life off of our own coasts, but also to inspire other decision makers to do so along every coastline, in every part of the ocean.

With your leadership, our groundbreaking marine protected area network can take its next leap forward.

Sincerely,

Laura Deehan
Director
Environment California Research & Policy Center

Marcela Gutiérrez-Graudiņš
Founder / Executive Director
Azul

California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

November 29, 2023

Re: Petition to Modify CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests

Dear President Sklar and Honorable Commissioners,

We are writing in support of Environment California Research & Policy Center's petition to increase protections for remaining persistent kelp forests in California state waters through the Marine Life Protection Act (MLPA)'s adaptive management process. As kelp forests contend with increased threats from climate change, predator loss, and invasive species, taking action to preserve the highly persistent kelp forest areas that have so far withstood these threats will be critical to the state's efforts to conserve this essential ecosystem and achieve area-based conservation targets.

California's kelp forests provide numerous and invaluable ecological and environmental benefits. These underwater ecosystems serve as critical nurseries for a wide variety of marine species, providing shelter and food for numerous fish, invertebrates, and marine mammals. They support thriving commercial and recreational fisheries, attract tourists and divers, and can help dampen the impacts of coastal erosion and storm impacts. However, recent decades have seen a decline in kelp forest cover across the Pacific West Coast, including California, due to a combination of natural and human-induced factors such as a major marine heatwave and the loss of predators of kelp grazers by overfishing and disease.

Marine protected areas are a critical tool for increasing the resilience of kelp ecosystems in the face of these stressors. However, the state of California's MPA network has gaps in coverage for the state's most persistent kelp forests. Recent analyses identifying the extent of persistent giant kelp and bull kelp forests in California found only 20.9% of the most highly persistent forests in Central California, 8.4% in Southern California, and less than 1% in Northern California are fully protected.[1,2] Improving the MPA network to better protect our remaining stable kelp forests will aid in increasing the resilience of these ecosystems and prevent further loss of kelp cover.

State officials should utilize all tools at their disposal to address the ongoing threats to kelp forests. Marine protected areas like those created through the California MLPA are a tool that

[1] Arafeh-Dalmau et al. 2021, Southward decrease in the protection of persistent giant kelp forests in the northeast Pacific. *Communications Earth & Environment*. https://doi.org/10.1038/s43247-021-00177-9
[2] Arafeh-Dalmau et al. 2023, Shortfalls in the protection of persistent bull kelp forests in the USA. *Biological Conservation*. https://doi.org/10.1016/j.biocon.2023.110133

has been underutilized in efforts to protect and restore our kelp forests—and one we cannot afford to ignore.

The state has an opportunity to incorporate these new scientific findings into the state network of marine protected areas, ensuring the network better addresses emerging threats to our kelp forests and provides the best possible support for restoration efforts. The petition submitted by Environment California RPC is supported by recent scientific analysis employing 35 years of satellite data to identify persistent kelp forests, and is based on extensive global research demonstrating the benefits of highly to fully protected areas.

As scientists who have spent decades studying our ocean ecosystems, we urge you to take swift action to protect and preserve our coastal and marine resources and natural heritage in the face of increasing climate impacts. Our future depends on it.

Thank you for your ongoing efforts to protect California's ocean heritage, and we look forward to engaging in this important work for years to come.

Sincerely,

Dr. Nur Arafeh-Dalamu
Postdoctoral Scholar, Hopkins Marine Station, Stanford University
Honorary Fellow, University of Queensland

Dr. Fiorenza Micheli
David and Lucile Packard Professor of Marine Science, Stanford University

Dr. Kyle Cavanaugh
Professor, Department of Geography, University of California, Los Angeles

Dr. Dawn Murray
Professor Environmental Studies, Antioch University Santa Barbara

Dr. Carolina Olguin-Jacobson
Postdoctoral Scholar, Hopkins Marine Station, Stanford University

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November 29, 2023

California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

Re: Petition to Modify CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests

Dear President Sklar and Honorable Commissioners,

I am writing in support of Environment California Research & Policy Center's petition to increase protections for remaining persistent kelp forests in California state waters through the Marine Life Protection Act (MLPA)'s adaptive management process. As kelp forests contend with increased threats from climate change, predator loss, and invasive species, taking action to preserve the highly persistent kelp forest areas that have so far withstood these threats will be critical to the state's efforts to conserve this essential ecosystem and achieve area-based conservation targets.

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State officials should utilize all tools at their disposal to address the ongoing threats to kelp forests. Marine protected areas like those created through the California MLPA are a tool that has been underutilized in efforts to protect and restore our kelp forests—and one we cannot afford to ignore.

The state has an opportunity to incorporate these new scientific findings into the state network of marine protected areas, ensuring the network better addresses emerging threats to our kelp forests and provides the best possible support for restoration efforts. The petition submitted by Environment California RPC is supported by recent scientific analysis employing 35 years of satellite data to identify persistent kelp forests, and is based on extensive global research demonstrating the benefits of highly to fully protected areas.

As scientists who have spent decades studying our ocean ecosystems, we urge you to take swift action to protect and preserve our coastal and marine resources and natural heritage in the face of increasing climate impacts. Our future depends on it.

Thank you for your ongoing efforts to protect California's ocean heritage, and I look forward to engaging in this important work for years to come.

Sincerely,

Dr. Tom Bell
Scientist, Department of Applied Ocean Physics and Engineering, Woods Hole Oceanographic Institution

California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

November 29, 2023

Re: Support for new MPA to protect kelp, seabirds, and sharks of Santa Cruz

Dear President Sklar and Honorable Commissioners,

As a local seabird and marine ecosystem biologist, I am writing in support of a new State Marine Reserve proposed by Environment California and Azul to protect kelp, seabirds, and sharks in coastal waters of Santa Cruz County, CA. As climate change impacts ocean conditions, corresponding shifts in fishing behavior will create new risks for forage fish and place increasing pressure on ocean wildlife. Providing protections now for forage fish within critical nearshore kelp forests and sandy bottom environments is essential for mitigating future threats to migratory seabirds, whales, and sharks.

The proposed MPA off Soquel Point in Santa Cruz is positioned within the northern Monterey Bay bight, a biologically rich and unique marine region encompassing nearshore kelp forests, sandy beach, and deeper soft-bottom habitats. Physically, these waters are influenced by the Año Nuevo upwelling front and the area is characterized by a broad shallow shelf. These features create a unique ocean circulation pattern where freshly upwelled and nutrient rich cold-water eddies become slower and recirculate within this semi-enclosed bay[1]. These waters are ideal growing conditions for phytoplankton, crustaceans and cephalopods, larval fishes and forage fishes (anchovies, sardines, herring), which create the base of the food web for predatory sharks, seabirds, and whales.

This biologically diverse area is recognized as important to more than 100 species of marine seabirds and shorebirds, mammals and sea turtles (Harvey & Benson 1997[2], Henkel 2006[3], Neuman et al. 2008[4]). In the summer months, enormous flocks of Sooty Shearwater travel 20,000 km from New Zealand 20,000 km to feed on the anchovy schools (Figure 1) within the

[1] Graham and Largier 1997. Upwelling shadows as nearshore retention sites: the example of northern Monterey Bay. Continental Shelf Research, 1997

[2]Harvey and Benson 1997. Marine Bird and Mammal Distribution and Abundance in Monterey Bay, During 1996. Moss Landing Marine Laboratories Technical Publication 97-02, 80pp.

[3] Henkel 2004. Seasonal Abundance of Marine Birds in Monterey Bay, California. Western Birds: 126-146.

[4] Neuman, Henkel, and Page. 2008. Shorebird use of sandy beaches in central California Waterbirds.

northern bight of the Bay (Figure 2) (Adams et al. 2012[5]). This annual natural feeding frenzy phenomenon is described as the "River of Birds" and is fueled by the dense nearshore aggregations of anchovies, which are also host to iconic lunge-feeding humpback whales,[6] pelicans, and gulls.

An "Oasis Effect" has been described for these nearshore areas in California[7] by which whales and other marine animals aggregate in large numbers to feed in nearshore "oases" of forage fish during times of poor food availability offshore. Similarly, Endangered Leatherback Sea Turtles travel from offshore areas to feed within the bight when ocean conditions nearshore favor jellyfish[8]. The connection between nearshore and offshore forage fish dynamics figures importantly in the future conservation of these globally connected migratory species[9].

However, these areas are not protected from extractive uses including fisheries. Despite 30 years of protected designation within the Monterey Bay National Marine Sanctuary, Adelaars et al. 2012[10] found that the relative level of conservation, particularly within the northern bay sandy shelf area of the Sanctuary, is low. The Sanctuary primarily protects the waters from offshore oil and gas exploitation, but does not protect against the impacts of fishing and many other human activities which may compromise thriving marine food webs. Large important areas of nearshore sandy-bottom and kelp forest habitats in Monterey Bay remain unprotected (see Figure 7 in Adelaars et al.).

In addition, over the past 10 years our coastal ecosystems have seen significant shifts in the face of a changing climate. Warming waters – including intense episodic marine heatwaves – have caused mobile species to temporarily shift their geographic ranges to remain within suitable environmental conditions,[11] often increasing the chances for harmful interactions with fisheries and other human activities. In the Monterey Bay, warming waters have led to habitat

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[5] Adams, MacLeod, Suryan, Hyrenbach and Harvey. 2012. Summer-time use of west coast US National Marine Sanctuaries by migrating sooty shearwaters (Puffinus [=Ardennna] griseus). Biological Conservation 156: 105-116.

[6] [video] Sooty Shearwaters on Monterey Bay feeding with Humpback Whales (MB Whale Watch)

[7] Benson, Croll, Marinovic, Chavez, and Harvey. 2002. Changes in the cetacean assemblage of a coastal upwelling ecosystem during El Niño 1997-98 and La Niña 1999. Prog. Oceanogr. 54:279-291.

[8] Benson, Forney, Harvey, Carretta, and Dutton. 2007 Abundance, distribution, and habitat of leatherback turtles (*Dermochelys coriacea*) off California, 1990–2003. Fish. Bull. 105:337–347.

[9] International Agreement on the Conservation of Albatrosses and Petrels (Conservation of Migratory Species).

[10] Adelaars, Bassett, Donlou, Marks, Pardieck, and Lindholm. 2012. Examining the Conservation Level of Marine management Areas within the Monterey Bay National Marine Sanctuary: How Protected is the Sanctuary? Marine Sanctuaries Conservation Series ONMS-12-04. U.S. Department of Commerce, NOAA, Silver Spring, MD. 41 pp. [NB: Figure 7 - Soquel Cove area]

[11] Pecl, Araju et al. 2017. Biodiversity redistribution under climate change: Impacts on ecosystems and human well-being. Science

compression for whales and other mobile marine species, causing them to move inshore more frequently to feed and resulting in record-high whale entanglements in fishing gear.[12] Other species such as Common Murre, Rhinoceros Auklets and Brandt's Cormorant engage in prey switching as a strategy to buffer prey availability[13], utilizing species from kelp forests and nearshore ecosystems when offshore species are less abundant. Maintaining healthy nearshore environments with a diversity of prey sources for predators experiencing climatic stressors is critical for the climate resilience of the overall ecosystem. However, the very changes underpinning these shifts in wildlife behavior can also influence fisher behavior,[14] putting pressure on these food webs at the very time that they're needed to maintain ecosystem resilience.

Conservation of healthy forage fish populations in the face of climate change is critical. A recent review highlighted the need for conservation of the prey base with regard to the seabird populations in California, noting that where humans and wild predators coexist, human fishers are far more efficient in their prey harvesting activities[15]. Further, a global review by Cury et al. 2011 suggested a precautionary approach of leaving one third of the fish biomass for the seabirds[16]. Both of these studies point to the need for establishing protections of forage fish for seabirds which are not exploited to full capacity. A new state MPA would strengthen protections for forage fish now, before shifting ocean conditions bring new threats to this area. The proposed MPA area is not currently not currently subject to any significant commercial take, making protecting this area now of minimal economic impact to existing fisheries.

Conservation in this area is aided by the participation of actively engaged citizen scientists. Citizens in Santa Cruz County are very concerned about marine conservation and actively participate in citizen science activities including water quality (Coastal Watershed Council), intertidal and subtidal monitoring (LIMPETS[17], Reef Check California) and beach monitoring (BeachCOMBERS, Nevins et al. 2011[18]). Since 1997, citizen scientists have been monitoring

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[12]Santora, Mantua et al. 2020. Habitat compression and ecosystem shifts as potential links between marine heatwave and record whale entanglements. Nature

[13] Warzybok et al. 2018 Prey switching and consumption by seabirds in the central California Current upwelling ecosystem: Implications for forage fish management. J Marine Systems

[14] Pichegru et al. 2012. Industrial fishing, no-take zones and endangered penguins. Biol. Cons. 156:117-125.

[15]Ainley, Adams, Jahncke (eds). 2014 Towards ecosystem-based fishery management in the California Current system–predators and the preyscape: a workshop.

[16]Cury et al. 2011. Global Seabird Response to Forage Fish Depletion—One-Third for the Birds. Science

[17] Pearse et al. 2015 Long-term monitoring of surfgrass meadows in the Monterey Bay National Marine Sanctuary : recovery followed by stability after the termination of a domestic sewage discharge.

[18]Nevins, Benson, Phillips, de Marignac, DeVogelaere, Ames and Harvey. 2011. Coastal Ocean Mammal and Bird Education and Research Surveys (BeachCOMBERS), 1997-2007: ten years of monitoring beached marine birds and mammals in the Monterey Bay National Marine Sanctuary.

impacts to marine birds and mammals in and around the proposed MPA, contributing significant evidence for understanding human impacts, documenting the recovery of species in the region, and complementing long-term monitoring efforts by the state.

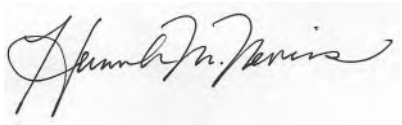
Northern Monterey Bay is host to a multitude of ocean-focused activities and these have created a thriving nature-based economy: surfers treasure the waves of Pleasure Point from Soquel Point to Capitola; beachgoers enjoy tidepooling, birdwatching, fossil hunting, and fishing along the rocky and sandy shores of New Brighton and Seacliff Beaches. Recently, locals have called this area a “Shark Park”, due to the increased use of the area by juvenile white sharks as seen by drones. This natural phenomenon has created a boon for shark-ecotourism businesses based out of Santa Cruz and Capitola (Figure 3). An established MPA in the area would help provide long-term protections for this oft-maligned species which requires nearshore sandy beaches for growth and survival, while supporting local nature-focused businesses.

The proposed MPA would also amplify nearby land-based protected areas, including four California State Parks (New Brighton, Seacliff Beach, Manresa and Sunset State Beaches). Establishing a land-sea connection between terrestrial and coastal protected areas will not only enhance broader ecological ecosystem function, but could connect users within the proposed MPA to interpretive aspects of state parks, which offer extensive access (trails, beach access, RV and tent camping) and interpretive resources (rangers and visitor centers).

In summary, the proposed MPA would provide multiple species and habitats ecological benefits and greater resilience in the face of climate-related impacts and shifting fishing behaviors, as well as leverage local citizen efforts to increase coastal protection and enhancements for marine species. This effort would enable future generations to enjoy firsthand the natural phenomena of the River of Birds by migratory Sooty Shearwaters and the nursery area found to be important for juvenile White Sharks by protecting the basis of the food web in this ecosystem.

Thank you for considering this proposed designation.

Sincerely,



Hannah Nevins, M.S. MSc., Seabird Biologist and Ecologist, Santa Cruz, CA

Figure 1. Shearwaters feed on small schooling fishes including anchovies in nearshore waters of northern Monterey Bay. (Photo: Ingrid Taylor, New Brighton Beach, CA)

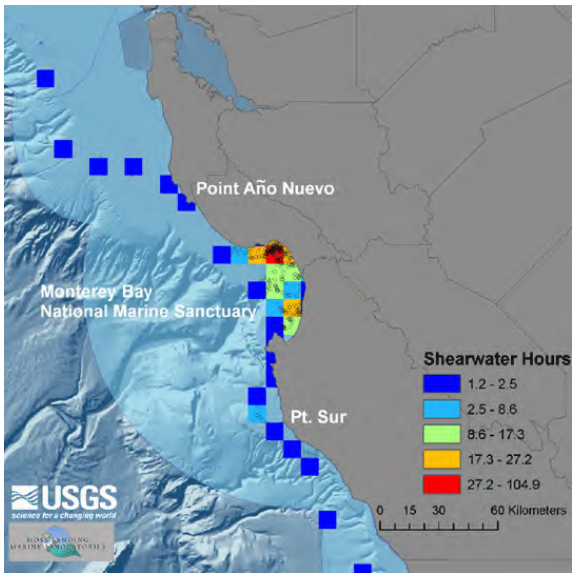


Figure 2. Satellite tracking of migratory Sooty Shearwaters indicate the valuable feeding area in northern Monterey Bay (red area). Northern area is proposed is for greater protection of forage fish important to migratory seabirds and sharks. (Data: USGS/MLML)

Figure 3. Soquel Cove is locally known as the "Shark Park." Passengers on a shark-watching tour based from Santa Cruz check out an approaching great white shark in the sandy bottom habitat off Seacliff Beach in northern Monterey Bay, CA. (Photo Kevin Painchard/Lookout Santa Cruz)

California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

November 30th, 2023

Re: Petition to Modify CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests; Petition to Increase Level of Protection and Streamline Enforcement for Several California State MPAs

Dear President Sklar and Honorable Commissioners,

As scientists, researchers, and educators who work to understand our changing oceans and inspire the next generation of ocean stewards, we write to express our support for the expansion and strengthening of California's network of Marine Protected Areas (MPAs) to help safeguard the state's diverse marine ecosystems and ensure the long-term resilience of our ocean habitats.

Globally, the ocean is at a critical juncture, with escalating global temperatures, declining biodiversity, and a growing number of endangered marine species. California's coastal ecosystems have not been spared these global trends: Northern California has lost more than 95% of its kelp forests since 2014, and kelp forests statewide have experienced declines over the past decade.[1] Only an average of 55 Pacific leatherback turtles are now found foraging off California's coast every year, a notable decrease from the yearly average of 128 Pacific leatherbacks observed in the region from 1990 to 2003.[2] Marine heatwaves have doubled over the last 30 years and have become more intense and longer in duration, putting stress on California's marine species and ecosystems.[3]

Now, California has a unique opportunity to take bold, effective and science-based action to conserve its marine biodiversity by expanding its groundbreaking network of state MPAs. MPAs, like state parks on land, protect unique and important ocean habitats from destructive human activities that can damage the integrity of marine ecosystems. Globally and in California, strongly protected and well-enforced MPAs have been shown to be highly effective in conserving biodiversity, enhancing ecosystem resilience, and mitigating the impacts of climate

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[1] Meredith McPherson et. al, Large-scale shift in the structure of a kelp forest ecosystem co-occurs with an epizootic and marine heatwave, Communications Biology, March 5, 2021
[2] Benson, Scott R., Karin A. Forney, Jeffrey E. Moore, Erin L. LaCasella, James T. Harvey, and James V. Carretta. "A Long-Term Decline in the Abundance of Endangered Leatherback Turtles, Dermochelys Coriacea, at a Foraging Ground in the California Current Ecosystem." *Global Ecology and Conservation* 24 November 2020.
[3] IPCC (2021). Summary for Policymakers. In: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [Masson-Delmotte VP, Zhai A, Pirani SL, Connors C, Péan S, et al. (Eds.)].;

change on our oceans.[4] Well-designed and well-implemented reserves better preserve natural interactions within ecosystems, allowing for greater resiliency in the face of rising global temperatures and changing environmental conditions.[5]

California's network of MPAs, established through the 1999 Marine Life Protection Act, celebrated its tenth anniversary last year. The state's recent Decadal Management Review (DMR) analyzed a decade of monitoring data and showed that the MPA network has generally been effective at protecting ocean habitats and increasing fisheries-targeted species' biomass.[6] Now, in the face of increasing threats, we need to build on this system and maintain California's role as a national and global leader in the effort to protect our ocean habitats.

That's why we, as scientists, researchers, and educators, urge you to expand and strengthen our state's network of MPAs via the adaptive management process of the DMR.

Specifically, we support the expansion of the MPA network to include additional protections for California's most resilient kelp forests. While these vital and iconic ecosystems have faced declines statewide in recent years, kelp forests in some areas have persisted or bounced back quickly in the face of marine heatwaves and other disturbances.[7] By expanding protections for these resilient forests under the MLPA, the state can minimize direct human impacts in these relatively healthy areas, helping to ensure their continued persistence and enhancing the effectiveness of restoration efforts for declining kelp ecosystems nearby. Globally, kelp restoration has been most successful in places adjacent to/contiguous with healthy kelp forest ecosystems. [8]

It is also vital that existing California MPAs are able to achieve their stated goals of conserving biodiversity and ecosystem health. We encourage the state to consider increasing protections for MPAs that are currently only lightly or minimally protected, especially in places where weaker or more complicated regulations lead to poor compliance and enforcement. Research has shown that highly and fully protected areas, where few if any destructive or extractive activities are allowed, provide greater ecological benefits than lightly or minimally protected areas.[9] The

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[4] James Horrox, Kelsey Lamp and Steve Blackledge. New Life for the Ocean: How Marine Protections Keep Our Waters Wild. Environment America Research & Policy Center & Frontier Group, February 3, 2021

[5] Kirsten Grorud-Colvert *et al.*, The MPA Guide: A framework to achieve global goals for the ocean. *Science* **373** ,eabf0861(2021). DOI:10.1126/science.abf0861

[6] California Department of Fish and Wildlife. (2022). California's Marine Protected Area Network Decadal Management Review.;

[7] Arafeh-Dalmau et al., Integrating climate adaptation and transboundary management: Guidelines for designing climate smart marine protected areas, One Earth 6, 1–19 November 17, 2023 ª 2023 Published by Elsevier Inc.

[8] Eger, A.M., Marzinelli, E.M., Christie, H., Fagerli, C.W., Fujita, D., Gonzalez, A.P., Hong, S.W., Kim, J.H., Lee, L.C., McHugh, T.A., Nishihara, G.N., Tatsumi, M., Steinberg, P.D. and Vergés, A. (2022), Global kelp forest restoration: past lessons, present status, and future directions. Biol Rev, 97: 1449-1475.

[9] Kirsten Grorud-Colvert *et al.*, The MPA Guide: A framework to achieve global goals for the ocean. *Science* **373** ,eabf0861(2021). DOI:10.1126/science.abf0861

state's network currently protects 12% of state waters in highly- or fully-protected MPAs, as defined by Grorud-Colvert et al. (2021), which leaves 4% of the network lacking the most effective conservation protections.[10] By expanding the level of protection to areas already identified as ecologically important, we can ensure that the area's vulnerable marine resources have the chance to recover and flourish.

Our ocean is not just a source of clean air, wildlife, and natural beauty but also a mystery that beckons exploration and discovery. It is our moral imperative to lead the nation and the world in taking bold actions to preserve the sea, ensuring its future and the well-being of the communities that rely on it for their survival and prosperity.

President Sklar and Honorable Commissioners, you have a chance to take up this imperative and champion the expansion and strengthening of California's network of Marine Protected Areas. By doing so, you will leave a lasting legacy of marine stewardship that will keep California at the forefront of ocean conservation, nationally and globally.

Thank you for your unwavering commitment to the welfare of our ocean and for considering this urgent matter. Together, we can ensure a healthier, more abundant future for the unique marine ecosystems that define California.

Sincerely,

Michael Akresh
Faculty
Antioch University

Alice Alldredge
Professor Emeritus
University of California, Santa Barbara

Steven Allison
Professor
University of California, Irvine

Anupa Asokan
Ocean advocate

Peter Auster
Senior Research Scientist & Research Professor Emeritus
Mystic Aquarium & University of Connecticut

Nevé Baker
PhD Candidate
University of California Santa Cruz

Leocadio Blanco Bercial
Assistant Professor
Arizona State University - Bermuda Institute of Ocean Sciences

Bailey Drechsler
Professor
Cuesta College

[10] Kirsten Grorud-Colvert *et al.*, The MPA Guide: A framework to achieve global goals for the ocean. *Science* **373** ,0861(2021). DOI:10.1126/science.abf0861

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Postdoctoral Scholar
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Rikki Eriksen
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Assembly
California Legislature

DAWN ADDIS
ASSEMBLYMEMBER, THIRTIETH DISTRICT

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VICE CHAIR: JOINT COMMITTEE ON FISHERIES AND AQUACULTURE

California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

November 28th, 2023

Re: Strengthening and Expanding California's Marine Protected Area Network

Dear President Sklar and Honorable Commissioners,

As an Assemblymember and advocate for the health and vitality of California's coastal ecosystems, I write to express my support for the expansion of the state's network of Marine Protected Areas (MPAs) to include the expansion and strengthening of Point Buchon SMCA and Natural Bridges SMR. Protecting specific habitat areas, including the remaining areas of stable kelp forests, and increasing the rigor of existing marine protected areas are crucial steps in safeguarding our diverse marine species and ensuring the long-term well-being of the ecosystems off our shores.

The state of our ocean is at a critical juncture, with escalating global temperatures, declining biodiversity, and a growing number of endangered marine species. Northern California has lost more than 95% of its kelp forests since 2014, and kelp forests statewide have experienced declines over the past decade.[1] Pollution, overfishing, offshore drilling and other human activities are threatening ocean habitat and marine species, while the changing climate increases the risk of extreme weather events and puts even greater stress on ocean ecosystems.[2] [3]

In the face of these mounting threats, California has a unique opportunity to take bold and effective action to conserve ocean habitats and ensure a greater abundance of life off our coast. Over two decades ago, the state passed the groundbreaking Marine Life Protection Act (MLPA), which called on the state to use one of the most powerful tools for ocean conservation: marine protected areas (MPAs).

[1] Meredith McPherson et. al, Large-scale shift in the structure of a kelp forest ecosystem co-occurs with an epizootic and marine heatwave, Communications Biology, March 5, 2021
[2] James Horrox, Steve Blackledge and Kelsey Lamp, "New Life for the Ocean: How marine protections keep our waters wild," Environment America Research and Policy Center & Frontier Group, February 2021.
[3] Arafeh-Dalmau et al., Integrating climate adaptation and transboundary management: Guidelines for designing climate smart marine protected areas, One Earth 6, 1–19 November 17, 2023 ª 2023 Published

by Elsevier Inc.

MPAs, like state parks on land, protect unique and important ocean habitats from activities that can damage ocean life. Areas that are strongly protected have been shown to be highly effective in conserving biodiversity, enhancing ecosystem resilience, and mitigating the impacts of climate change on our oceans.[4] California's network of MPAs, foreseen in the MLPA, celebrated its tenth-anniversary last year, and the state's decadal management review showed that marine life in existing reserves better withstood recent marine heatwaves, and reserves across the state had higher biomass of commercially caught fish than areas lacking protection.[5] Now, we need to build on this system and maintain California's role as a leader, both nationally and globally, in the fight to protect more ocean habitats.

That's why I urge you to expand our state's network of MPAs within the adaptive management process of the Decadal Management Review. In particular, I am writing in support of the strengthening and expansion of Point Buchon SMCA and Natural Bridges SMR off the coast of my community.

We, as Californians, have a deep love for our ocean and feel a profound responsibility to participate in decisions that impact our state's coastal waters. Our ocean is not just a source of clean air, wildlife, and natural beauty but also a mystery that beckons exploration and discovery. It is our moral imperative to lead the nation and the world in taking bold actions to preserve the sea in our own backyard, ensuring its future and the well-being of the communities that rely on it for their survival and prosperity.

In conclusion, we strongly urge you, Honorable Commissioners, to expand California's MPA network to encompass areas of persistent kelp, with a particular focus on safeguarding the strengthening and expansion of Point Buchon SMCA and Natural Bridges SMR.

Thank you for your unwavering commitment to the welfare of our ocean and for considering this proposal.

Sincerely,

DAWN ADDIS
Assemblymember, 30th District

[4] James Horrox, Steve Blackledge and Kelsey Lamp, "New Life for the Ocean: How marine protections keep our waters wild," Environment America Research and Policy Center & Frontier Group, February 2021.
[5] California Department of Fish and Wildlife. California's Marine Protected Area Network Decadal Management Review. 2022.

CITY OF SANTA CRUZ

MAYOR AND CITY COUNCIL

809 Center Street, Room 10, Santa Cruz, CA 95060 • (831) 420-5020 • Fax: (831) 420-5011 • citycouncil@cityofsantacruz.com

November 30, 2023

California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

RE: Petition to Modify the CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests

Dear President Sklar and Honorable Commissioners:

As a mayor and advocate for the health and vitality of California's coastal ecosystems, I write to express my unwavering support for the expansion of the State's network of Marine Protected Areas (MPAs), including the expansion of Natural Bridges SMR and the implementation of a new MPA at Pleasure Point. Protecting specific habitat areas, including the remaining areas of stable kelp forests, and increasing the rigor of existing marine protected areas are crucial steps in safeguarding our diverse marine species and ensuring the long-term well-being of the ecosystems off our shores.

The state of our ocean is at a critical juncture, with escalating global temperatures, declining biodiversity, and a growing number of endangered marine species. Northern California has lost more than 95% of its kelp forests since 2014, and kelp forests statewide have experienced declines over the past decade.[1] Pollution, overfishing, offshore drilling, and other human activities are threatening ocean habitats and marine species, while the changing climate increases the risk of extreme weather events and puts even greater stress on ocean ecosystems.[2] [3]

In the face of these mounting threats, California has a unique opportunity to take bold and effective action to conserve ocean habitats and ensure a greater abundance of life off our coast. Over two decades ago, the State passed the groundbreaking Marine Life Protection Act (MLPA), which called on the State to use one of the most powerful tools for ocean conservation: MPAs.

MPAs, like state parks on land, protect unique and important ocean habitats from activities that can damage ocean life. Areas that are strongly protected have been shown to be highly effective in conserving biodiversity, enhancing ecosystem resilience, and mitigating the impacts of climate change on our oceans.[4]

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[1] Meredith McPherson et. al, [illegible] kelp forest ecosystem co-occurs with an epizootic and marine heatwave, Communications Biology, March 5, 2021.
[2] James Horrox, Steve Blackledge and Kelsey Lamp, "[illegible] Ocean: How marine protections keep our waters wild," Environment America Research and Policy Center & Frontier Group, February 2021.
[3] Arafeh-Dalmau et al., [illegible] climate adaptation and transboundary management: Guidelines for designing climate smart marine protected areas, One Earth 6, 1–19 November 17, 2023 ª 2023 Published by Elsevier Inc.
[4] James Horrox, Steve Blackledge and Kelsey Lamp, "[illegible] Ocean: How marine protections keep our waters wild," Environment America Research and Policy Center & Frontier Group, February 2021.

California's network of MPAs, foreseen in the MLPA, celebrated its tenth anniversary last year, and the State's decadal management review showed that marine life in existing reserves better withstood recent marine heatwaves, and reserves across the State had higher biomass of commercially caught fish than areas lacking protection.[5]

Now, we need to build on this system and maintain California's role as a leader, both nationally and globally, in the fight to protect more ocean habitats.

That is why I urge you to expand our State's network of MPAs within the adaptive management process of the Decadal Management Review. In particular, I am writing in support of the expansion of the Natural Bridges SMR and the implementation of a new MPA at Pleasure Point off the coast of my community, Santa Cruz.

As the author of the Marine Life Management Act and the Marine Life Protection Act, I am fully supportive of Environment California's request for additional marine protected areas. When I was Speaker pro tempore of the California Assembly (1996–2002), I was deeply involved in this subject. In my last year, I also authored the California Ocean Trust Act, which created the California Ocean Science Trust (Cal-OST). Cal-OST has written extensively about the successes within the MPAs, and more would be a very good idea.

We, as Californians, have a deep love for our ocean and feel a profound responsibility to participate in decisions that impact our State's coastal waters. Our ocean is not just a source of clean air, wildlife, and natural beauty but also a mystery that beckons exploration and discovery. It is our moral imperative to lead the nation and the world in taking bold actions to preserve the sea in our own backyard, ensuring its future and the well-being of the communities that rely on it for their survival and prosperity.

In conclusion, we strongly urge you, Honorable Commissioners, to expand California's MPA network to encompass areas of persistent kelp, with a particular focus on safeguarding Natural Bridges State Marine Reserve and implementing a new MPA at Pleasure Point. By doing so, you will leave a lasting legacy of environmental stewardship.

Thank you for your unwavering commitment to the welfare of our ocean and for considering this proposal. Together, we can ensure a healthier, more abundant future for the unique marine ecosystems that define California.

Sincerely,

Fred Keeley
Mayor

P:\CMAD\Word(Wpfiles)\SUZANNEU\Mayorfk 2022-2026\Letters\CA Fish and Game - Kelp Forests.docx

[5] California Department of Fish and Wildlife, California's Marine Protected Area Network Decadal Management Review, 2022.

California Fish and Game Commission
715 P Street, 16th floor,
Sacramento, CA 95814

November 30th, 2023

RE: Petition to Modify CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests

Dear President Sklar and Honorable Commissioners:

Northern California has lost more than 95% of its kelp forests since 2014, and kelp forests statewide have experienced declines over the past decade.[1] California sea otters are still listed as threatened under the Endangered Species Act, and one of the biggest barriers to this species' recovery and range expansion is increased shark bites from a lack of kelp forest cover. Marine

[1] Meredith McPherson et. al, Large-scale shift in the structure of a kelp forest ecosystem co-occurs with an epizootic and marine heatwave, Communications Biology, March 5, 2021

heatwaves have doubled over the last 30 years, and have become more intense and longer in duration, putting stress on California's marine species and ecosystems.[2]

In the face of these mounting threats, California has a unique opportunity to take bold and effective action to conserve ocean habitats and ensure a greater abundance of life off our coast. Over two decades ago, the state passed the groundbreaking Marine Life Protection Act (MLPA), which called on the state to use one of the most powerful tools for ocean conservation: marine protected areas (MPAs).

MPAs, like state parks on land, protect unique and important ocean habitats from activities that can damage ocean life. Areas that are strongly protected have been shown to be highly effective in conserving biodiversity, enhancing ecosystem resilience, and mitigating the impacts of climate change on our oceans.[3] By providing areas that serve as buffers against climate change, fully protected MPAs adapt to changing environmental conditions because they better preserve natural interactions within ecosystems, allowing for greater resiliency .[4]

California's network of MPAs, foreseen in the MLPA, celebrated its tenth anniversary last year, and the state's decadal management review showed that MPAs effectively protect ocean habitats and increase fishery-targeted species' biomass. Now, we need to build on this system and maintain California's role as a national and global leader in the fight to protect more ocean habitats.

Protecting specific habitat areas, including the remaining areas of stable kelp forests is a crucial step in safeguarding our diverse marine species and ensuring the long-term well-being of our ocean environments.

We support the expansion of the MPA Network to include some of the most resilient kelp forests along California's coastline, by expanding Cabrillo State Marine Reserve, Point Dume State Marine Conservation Area, South Point State Marine Reserve, Gull Island State Marine Reserve, Point Conception State Marine Reserve, Natural Bridges State Marine Reserve, and by creating a new MPA around the beautiful kelp forest off Pleasure Point near Santa Cruz. While kelp forests have faced declines statewide in recent years, in these areas they have persisted or bounced back quickly in the face of marine heatwaves and other disturbances.[5] By expanding protections for

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[2] García-Reyes, Marisol, Andrew Leising, Rebecca Asch, Steven Bograd, and Tessa M Hill. Rep. Indicators of Climate Change in California, "Coastal Ocean Temperature", *California Office of Environmental Health Hazard Assessment,* 2022.

[3] Arafeh-Dalmau et al., Integrating climate adaptation and transboundary management: Guidelines for designing climate smart marine protected areas, One Earth 6, 1–19 November 17, 2023 ª 2023 Published by Elsevier Inc.

[4] Jankowska, Emilia, et al. "Climate Benefits from Establishing Marine Protected Areas Targeted at Blue Carbon Solutions." *Proceedings of the National Academy of Sciences*, vol. 119, no. 23, 2022.

[5] California Department of Fish and Wildlife. (2022). California's Marine Protected Area Network Decadal Management Review.

these resilient forests under the MLPA, the state can minimize direct human impacts in these relatively healthy areas, helping to ensure their continued persistence and enhancing the effectiveness of restoration efforts for declining kelp ecosystems nearby.

Enhancing the protection of California's kelp forests strongly aligns with Goals 1, 2, 3, and 4 of the MLPA by preserving natural diversity, sustaining marine life populations, protecting marine habitats for their intrinsic value, and improving recreational and educational opportunities while minimizing human disturbance. [6] Safeguarding resilient kelp ecosystems will ensure critical habitat preservation for diverse marine species, including endangered sea otters and commercially valuable fish.

Our ocean is a source of clean air, wildlife, and natural beauty, but also a mystery that beckons preservation and exploration. California has the opportunity to lead the nation and the world in taking bold action to preserve the sea, ensuring its future and the well-being of the communities that rely on it for their survival and prosperity.

Sincerely,

Laura Deehan
State Director
Environment California Research and Policy Center

Tomas Valadez
CA Policy Associate
Azul

Robert Vergara
Roger Arliner Young (RAY) Ocean Conservation Fellow
Natural Resources Defense Council

Clara Castronovo
Board Chair
CALPIRG Students

Keith Shattenkirk
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[6] "Marine Life Protection Act." CDFW. https://wildlife.ca.gov/Conservation/Marine/MPAs/MLPA.

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California Fish and Game Commission
P.O. Box 944209
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November 29, 2023

Re: Petition to Modify CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests; Petition to Increase Level of Protection and Streamline Enforcement for Several California State MPAs

Dear President Sklar and Honorable Commissioners,

Environmental Action was founded in 1970, on the first Earth Day, as a community of grassroots environmental activists working for a cleaner, greener world. We are submitting the following 2,487 signatures in support of Environment California Research & Policy Center's petitions for rulemaking in the state's adaptive management process for the California Marine Protected Area network.

Each of the 2,487 people signed the following letter:

> *Dear Governor Newsom,*
>
> *Sea otters bobbing in the surf. Whales diving deep to feed. Seabirds flying above. Our state's coastline is home to wildlife, large and small. As Californians, we've taken steps to protect this ocean heritage by creating a network of marine protected areas that, just like state parks on land, help protect and restore ocean life.*
>
> *I urge you to strengthen this network through the Decadal Management Review in line with your important goal of protecting 30 percent of our state waters by 2030. Specifically, I urge you to expand the network to protect the state's last remaining kelp forests, critical homes to fish and sea otters, and to strengthen existing areas that don't yet provide high levels of protection to ocean life.*
>
> *With your support, California can expand this network of ocean parks to create a brighter future for the ocean life that calls our state home, and hopefully inspire others across the country and around the world to follow our lead.*
>
> *Sincerely,*

As a group that works to protect our most amazing and at risk wildlife across the country, we know that preserving and restoring habitats will be critical to seeing our ocean life thrive. Whether it's a return of sea otters to more of the coastline or more abundant seabirds flying above our heads, expanding and strengthening California's network of marine protected areas will create a more hopeful future for the wild animals that call the state's coastline home.

But the decisions made on California's coast will not only impact the state's wildlife: as with many environmental issues, California's actions here have the potential to reverberate far and wide. If the state acts with ambition during this adaptive management process to fulfill the state's 30 by 30 commitment, it can set the national standard for ocean conservation, leading the country and the globe forward to a better future for our oceans.

Sincerely,

Patrick Kelly-Fischer

Patrick Kelly-Fischer
Board Member
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CALPIRG Students

California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

November 29, 2023

Re: Petition to Modify CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests; Petition to Increase Level of Protection and Streamline Enforcement for Several California State MPAs

Dear President Sklar and Honorable Commissioners,

CALPIRG Students is a statewide, student-run, and student-funded organization that works to protect the environment, make college affordable, and promote civic engagement. We have over 20,000 dues-paying members across the UC system and have been on campus for almost 50 years advocating for students on issues that students care about most. As part of our ongoing efforts to win better protections for California's ocean, we are submitting 214 signatures from our supporters on campuses across the state in support of Environment California Research & Policy's petitions for rulemaking in the state's adaptive management process for the California marine protected area network.

Each of the 214 people signed the following letter:

> *To: Governor Gavin Newsom*
>
> *Sea otters bobbing in the surf. Whales diving deep to feed. Seabirds flying above. Our state's coastline is home to wildlife, large and small. As students and young people, we are proud to live in a state that has taken steps to protect this ocean heritage for future generations. California's network of marine protected areas are places that, just like state parks on land, help protect and restore ocean life.*
>
> *I urge you to strengthen this network through the Decadal Management Review in line with your important goal of protecting 30 percent of our state waters by 2030. Specifically, I urge you to expand the network to protect the state's last remaining kelp forests, critical homes to fish and sea otters, and to strengthen existing areas that don't yet provide high levels of protection to ocean life.*
>
> *With your support, California can expand this network of ocean parks to create a brighter future for the ocean life that calls our state home, and hopefully inspire others across the country and around the world to follow our lead.*

As young people, we are working everyday to tackle the most pressing problems facing our ocean, our climate and our communities. That's why we are heartened to see state leaders like

CALPIRG Students

Governor Newsom and the state legislature set bold and ambitious goals to protect more of our coastline.

But goals need to be followed by action to ensure the future health and abundance of our ocean wildlife and wild places. That's why our student members have been campaigning for better ocean protections, and why we are excited to have this opportunity in the Decadal Management Review to push our state's groundbreaking network of MPAs forward. An expanded, strengthened network will make our coasts more resilient in the face of climate change and give our ocean life a chance to thrive.

Thank you for this opportunity, and we look forward to working with you to continue to create a better future for California's coasts.

Sincerely,

Clara Castronovo
State Board Chair
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California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

November 28th, 2023

Re: Petition to Modify CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests; Petition to Increase Level of Protection and Streamline Enforcement for Several California State MPAs

Dear President Sklar and Honorable Commissioners,

In solidarity with the shared responsibility for the well-being of our planet, particularly the oceans and coastlines we hold dear, we are reaching out as college students to express our firm support for the amplification and extension of California's Marine Protected Area (MPA) network. Understanding the critical importance of maintaining stable kelp ecosystems and safeguarding conserved ocean areas, we are committed to ensuring the prolonged vitality of our oceans and the myriad marine species that inhabit them.

The state of our ocean is at a critical juncture, with escalating global temperatures, declining biodiversity, and a growing number of endangered marine species. Northern California has lost more than 95% of its kelp forests since 2014, and kelp forests statewide have experienced declines over the past decade.[1] Only 50 Pacific leatherback turtles are now found foraging off California's coast, a notable decrease from the 178 Pacific leatherbacks observed from 1990 to 2003.[2] Marine heatwaves have doubled over the last 30 years, and have become more intense and longer in duration, putting stress on California's marine species and ecosystems. [3]

In the face of these mounting threats, California has a unique opportunity to take bold and effective action to conserve ocean habitats and ensure a greater abundance of life off our coast. Over two decades ago, the state passed the groundbreaking Marine Life Protection Act (MLPA), which called on the state to use one of the most powerful tools for ocean conservation: marine protected areas (MPAs).

---

[1] Meredith McPherson et. al, Large-scale shift in the structure of a kelp forest ecosystem co-occurs with an epizootic and marine heatwave, Communications Biology, March 5, 2021

[2] Benson, Scott R., Karin A. Forney, Jeffrey E. Moore, Erin L. LaCasella, James T. Harvey, and James V. Carretta. "A Long-Term Decline in the Abundance of Endangered Leatherback Turtles, Dermochelys Coriacea, at a Foraging Ground in the California Current Ecosystem." *Global Ecology and Conservation* 24 (November 2020).

[3] García-Reyes, Marisol, Andrew Leising, Rebecca Asch, Steven Bograd, and Tessa M Hill. Rep. Indicators of Climate Change in California, "Coastal Ocean Temperature", *California Office of Environmental Health Hazard Assessment,* 2022.

MPAs, like state parks on land, protect unique and important ocean habitats from activities that can damage ocean life. Areas that are strongly protected have been shown to be highly effective in conserving biodiversity, enhancing ecosystem resilience, and mitigating the impacts of climate change on our oceans.[4] By providing areas that serve as buffers against climate change, fully protected MPAs adapt to changing environmental conditions because they better preserve natural interactions within ecosystems, allowing for greater resiliency.[5]

California's network of MPAs, foreseen in the MLPA, celebrated its tenth anniversary last year, and the state's Decadal Management Review (DMR) showed that MPAs effectively protect ocean habitats and increase fishery-targeted species' biomass. The DMR found that the older the MPA, the larger the increase in the biomass of fished species. Some ecological communities like kelp forests and rocky intertidal ecosystems within MPAs appeared more resilient and recovered more quickly after marine heatwaves than similar habitats outside MPAs.[6] Now, we need to build on this system and maintain California's role as a national and global leader in the fight to protect more ocean habitats.

We support the expansion of the MPA Network to include critical, resilient kelp forests along California's coastline. While these vital and iconic ecosystems have faced declines statewide in recent years, kelp forests in some areas have persisted or bounced back quickly in the face of marine heatwaves and other disturbances.[7] By expanding protections for these resilient forests under the MLPA, the state can minimize direct human impacts in these relatively healthy areas, helping to ensure their continued persistence and enhancing the effectiveness of restoration efforts for declining kelp ecosystems nearby.

It is also vital that existing California MPAs are able to achieve their stated goals of conserving biodiversity and ecosystem health. We encourage the state to consider increasing protections for MPAs that are currently only lightly or minimally protected, especially in places where weaker or more complicated regulations lead to poor compliance and enforcement. Research has shown that highly and fully protected areas, where few if any destructive or extractive activities are allowed, provide greater ecological benefits than lightly or minimally protected areas.[8]

As college students, we keenly feel the urgency to address the environmental crises, particularly along California's coast. Having grown up witnessing the impacts of climate change, it's clear

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[4] Arafeh-Dalmau et al., Integrating climate adaptation and transboundary management: Guidelines for designing climate smart marine protected areas, One Earth 6, 1–19 November 17, 2023 ª 2023 Published by Elsevier Inc.
[5] Jankowska, Emilia, et al. "Climate Benefits from Establishing Marine Protected Areas Targeted at Blue Carbon Solutions." *Proceedings of the National Academy of Sciences*, vol. 119, no. 23, 2022.
[6] California Department of Fish and Wildlife. (2022). California's Marine Protected Area Network Decadal Management Review.
[7] California Department of Fish and Wildlife. (2022). California's Marine Protected Area Network Decadal Management Review.
[8] Ibid Kirsten Grorud-Colvert *et al.*, The MPA Guide: A framework to achieve global goals for the ocean. *Science* **373** ,eabf0861(2021). DOI:10.1126/science.abf0861

that action is needed to limit harm to the environment. That's why we urge the Fish and Game Commission to make significant changes in preserving and protecting our vast ocean habitats, ensuring a meaningful and lasting impact for generations to come.

Our ocean is not just a provider of fresh air, diverse wildlife, and breathtaking scenery; it's also an enigma that calls us to explore and uncover its secrets. As college students, we believe it's our duty to be at the forefront of national and global efforts, taking bold steps to safeguard the ocean. This commitment ensures its future and the welfare of communities dependent on it for survival and prosperity.

In conclusion, we strongly urge you, Fish and Game Commissioners, to champion the expansion and fortification of California's network of Marine Protected Areas, with a particular focus on safeguarding kelp forests and reinforcing the protection of existing MPAs. By doing so, you will leave a lasting legacy of environmental stewardship.

Thank you for your unwavering commitment to the welfare of our ocean and for considering this urgent matter. Together, we can ensure a healthier, more abundant future for the unique marine ecosystems that define California.

Sincerely,

Clara Castronovo
Board Chair
CALPIRG Students

Brandi Sanchez
President
Ecology Behavior and Evolution Club at UC San Diego

Brandi Sanchez
President
Pollinator Club at UC San Diego

Aiden Ledbetter
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California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

November 30th, 2023

Re: Petition to Modify CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests; Petition to Increase Level of Protection and Streamline Enforcement for Several California State MPAs

Dear President Sklar and Honorable Commissioners,

From the foothills of the Sierras to the seaside of the Central Coast, Californians care about our ocean and the life that calls it home. That's why we are submitting the attached 7,549 signatures in support of our petitions for rulemaking in the Decadal Management Review adaptive management process.

Each of the 7,549 people signed the following letter:

> *Dear Governor Newsom,*
>
> *California's coastline is home to stunning beaches, amazing wildlife, and is a true treasure for everyone who lives in or visits our state. That's why we've invested in protecting this ocean heritage through the creation of our state network of marine protected areas. Just like state parks on land, these areas help protect and restore ocean life.*
>
> *Now we have an opportunity to strengthen this network through the Decadal Management Review. I urge you to use this process to advance your important goal of protecting 30% of our state waters by 2030. Specifically, I urge you to expand the network to protect the state's last remaining kelp forests, critical homes to fish and sea otters, and to strengthen existing areas that don't yet provide high levels of protection for ocean life.*
>
> *With your leadership, California can expand this network of ocean parks to create a brighter future for our state's ocean life and continue to lead the country in ocean conservation.*
>
> *Sincerely,*

By expanding the state's MPA network to better protect areas of stable kelp and by strengthening protections for areas not currently achieving their conservation outcomes due to weak or confusing regulations, the state can help our coasts adapt and thrive in the face of rising temperatures and emerging threats.

With your leadership, we can create a better future for California's coastal ecosystems and the wildlife that calls them home.

Sincerely,

Laura Deehan
Director
Environment California
Environment California Research & Policy Center

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Earl Green, Madison, WI

Sam Egan, Milwaukee, WI

Alzina Davenport, Jackson, WY

State of California – Fish and Game Commission
PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE

Tracking Number: (2023-33MPA
)

To request a change to regulations under the authority of the California Fish and Game Commission (Commission), you are required to submit this completed form to: California Fish and Game Commission, (physical address) 1416 Ninth Street, Suite 1320, Sacramento, CA 95814, (mailing address) P.O. Box 944209, Sacramento, CA 94244-2090 or via email to FGC@fgc.ca.gov. Note: This form is not intended for listing petitions for threatened or endangered species (see Section 670.1 of Title 14).

Incomplete forms will not be accepted. A petition is incomplete if it is not submitted on this form or fails to contain necessary information in each of the required categories listed on this form (Section I). A petition will be rejected if it does not pertain to issues under the Commission's authority. A petition may be denied if any petition requesting a functionally equivalent regulation change was considered within the previous 12 months and no information or data is being submitted beyond what was previously submitted. If you need help with this form, please contact Commission staff at (916) 653-4899 or FGC@fgc.ca.gov.

SECTION I: Required Information.

Please be succinct. Responses for Section I should not exceed five pages

1. **Person or organization requesting the change: Environment California Research and Policy Center and Azul**
   Name of primary contact person: Laura Deehan, Environment California
   Address: 3435 Wilshire Blvd., Suite 385, Los Angeles, CA, 90010
   Telephone number: (415) 420-4710
   Email address: ldeehan@environmentcalifornia.org

2. **Rulemaking Authority (Required) -** Reference to the statutory or constitutional authority of the Commission to take the action requested: Authority cited: Sections 200, 205(c), 265, 399, 1590, 1591, 2860, 2861 and 6750, Fish and Game Code; and Sections 36725(a) and 36725(e), Public Resources Code.

3. **Overview (Required) -** This joint petition from Environment California and Azul requests minor or modest expansions for 6 state MPAs and the designation of one new State Marine Park in order to enhance protections for California's kelp forests – a critical ecosystem and habitat type that provides myriad benefits for both human and marine communities, and which has experienced significant declines in the last decade due to natural and human-related causes. In particular, the regulation changes put forth in this petition seek to enhance protections for resilient, stable, and persistent kelp forest patches as identified by recent analyses and peer-reviewed research. Proposed boundary and regulation changes include (see Table 1):
   i. Cabrillo SMR - expand westward and northward by 15.2 sq mi
   ii. Point Dume SMCA - expand westward by 4.6 sq mi
   iii. South Point SMR - expand westward by 26.3 sq mi
   iv. Gull Island SMR - expand northward by 1.8 sq mi
   v . Point Conception SMR - expand eastward by 14.6 sq mi
   vi. Natural Bridges SMR - expand southward by 13.7 sq mi
   vii. Pleasure Point, Santa Cruz - designate 3.2 sq mi as a new State Marine Reserve

4. **Rationale (Required) -** The state of California has experienced significant losses of its kelp forest cover since the designation of the MPA network. While we could not know which areas would persist in the face of extreme threats at the time the MPA network was originally established, new data and research has since helped to identify kelp beds that have persisted and are most resilient in the face of climatic and other disturbances. Enhancing protections for the state's most resilient, stable, and persistent kelp forest patches now will allow us to preserve what we have left, and increase our chances of restoration in the future. Removing, to the extent possible, direct human impacts on these resilient kelp forests that are potential climatic refuges will not only help these areas persist, but will also enhance the state's restoration efforts for other kelp forests in decline. By focusing resources on the immediate protection of already identified important areas with outsized conservation benefits, the state can advance the goals of the Marine Life Protection Act, advance the new 30x30 target, and take a cost-effective approach to kelp restoration by protecting the natural regeneration potential of kelp forest ecosystems statewide.

   See Petition Narrative attached for comprehensive rationale and methods behind site selection.

   Primary contacts:
   Laura Deehan, Environment California, (415) 420-4710, ldeehan@environmentcalifornia.org
   Marcela Gutiérrez-Graudiņš, Azul, mar@azul.org

SECTION II: Optional Information

5. **Date of Petition:** 11/29/23

6. **Category of Proposed Change**
   ☐ Sport Fishing
   ☐ Commercial Fishing
   ☐ Hunting
   ☒ Other, please specify: MPAs, Section 632.

7. **The proposal is to:** (*To determine section number(s), see current year regulation booklet or https://govt.westlaw.com/calregs*)
   ☒ Amend Title 14 Section(s):Westlaw regulations.
   ☐ Add New Title 14 Section(s): Click here to enter text.
   ☐ Repeal Title 14 Section(s): Click here to enter text.

8. **If the proposal is related to a previously submitted petition that was rejected, specify the tracking number of the previously submitted petition** Click here to enter text.
   Or ☒ Not applicable.

9. **Effective date**: If applicable, identify the desired effective date of the regulation.
   If the proposed change requires immediate implementation, explain the nature of the emergency: As soon as is practicable for the State of California.

10. **Supporting documentation:** Identify and attach to the petition any information supporting the proposal including data, reports and other documents:
    - Petition Narrative
    - Appendix A - Highly persistent kelp beds and “medium priority” restoration sites warranting protection with expanded California MPAs, as identified by Ospina-Giraldo et al. 2023 and Arafeh-Dalmau et al. 2021
    - Table 1 - Proposed Boundary and Regulation Changes
    - Appendix B - Letters of support:
        - Petitioner's letter of support
        - Joint letter from Drs. Nur Arafeh-Dalmau, Fiorenza Micheli, Kyle Cavanaugh, Dawn Murray, and Carolina Olguin-Jacobson
        - Letter from Dr. Tom Bell, Woods Hole Oceanographic Institute
        - Letter from Hannah Nevins, Santa Cruz seabird biologist
        - Joint letter from 27 scientists, researchers, and educators
        - Letter from Assemblymember Dawn Addis, 30th District
        - Letter from Fred Keeley, Mayor of Santa Cruz
        - Joint letter from 21 NGOs
        - Letter from Environmental Action signed by 2,487 member of the public
        - Letter signed by 214 CALPIRG students
        - Letter from 4 California college student leaders
        - Petition signed by over 7,000 members of the public

11. **Economic or Fiscal Impacts:** Identify any known impacts of the proposed regulation change on revenues to the California Department of Fish and Wildlife, individuals, businesses, jobs, other state agencies, local agencies, schools, or housing:

    Enhanced, long-term protection of highly resilient kelp forest areas will bolster the diverse stakeholders, interests and industries that benefit from our coastal marine resources. Low-impact, non-consumptive recreational activities such as diving, snorkeling, and surfing will be unaffected - and even enhanced - by expanded MPAs, which will also provide enhanced research and education opportunities. Short-term impacts to recreational and commercial fishermen will be outweighed by larger benefits in the future, as has been demonstrated here in California and around the world (Bucaram et al. 2018, Medoff et al 2022). For example, an analysis of CDFW fisheries data found that regional and statewide fishery landings and values do not appear to have been negatively impacted by MPAs (Murray and Hee 2019), and an analysis of California spiny lobster fishery found that short-term losses were compensated for by a 225% increase in total catch after 6 years of MPA designation (Lenihan et al. 2021).

12. **Forms:** If applicable, list any forms to be created, amended or repealed:

SECTION 3: FGC Staff Only

Date received: 11/30/2023

FGC staff action:
- ☐ Accept - complete
- ☐ Reject - incomplete

☐ Reject - outside scope of FGC authority

Tracking Number

Date petitioner was notified of receipt of petition and pending action: _____

Meeting date for FGC consideration: _____

FGC action:

☐ Denied by FGC

☐ Denied - same as petition _____

Tracking Number

☐ Granted for consideration of regulation change

Petition to Modify the CA Marine Protected Area Network
to Enhance Protections for California's Most Resilient Kelp Forests
Joint Submission by Environment California and Azul

PETITION NARRATIVE

Overview

California has experienced severe losses of its kelp forests since the designation of its statewide MPA network. At the time the MPA network was established, we could not know which kelp beds would be most resilient in the face of climate-related threats. However, in light of new data and research identifying the location of the state's persistent and stable kelp beds, adaptive management of the MPA network to better protect these kelp areas is therefore of critical importance.

This petition seeks to strengthen the statewide MPA network's protections for California's most resilient, stable, and persistent kelp forest patches – preserving what we have left now, to increase our chances of successful restoration in the future. Removing, to the extent possible, direct human impacts on these resilient kelp forests that are potential climatic refuges will not only help these areas persist, but will also enhance the state's restoration efforts for other kelp forests in decline. These efforts will also benefit kelp-forest dependent species, such as endangered Southern sea otters and threatened species of abalone. By focusing resources on the immediate protection of already identified important areas with outsized conservation benefits, the state can advance the goals of the Marine Life Protection Act, advance the new 30x30 target, and take a cost-effective approach to kelp restoration by protecting the natural regeneration potential of kelp forest ecosystems statewide.

Importance and decline of California's kelp forests

California's kelp forests provide numerous and invaluable ecological and environmental benefits. These underwater ecosystems serve as critical nurseries for a wide variety of marine species, providing shelter and food for numerous fish, invertebrates, and marine mammals, including the endangered Southern sea otter. Kelp acts as a natural water filter, as it absorbs excess nutrients and helps maintain water quality by reducing the risk of harmful algal blooms. Kelp forests may also play a role in carbon sequestration, capturing atmospheric carbon dioxide and helping to mitigate climate change. In addition to their ecological importance, kelp forests offer enormous cultural and economic benefits to California. They hold enormous cultural and economic significance for many of the Tribes and Indigenous communities that call California's coastal waters home. They support thriving commercial and recreational fisheries, contributing to the state's economy. The beauty and biodiversity of these forests attract tourists and divers, bolstering the state's tourism industry. Moreover, kelp can act as a buffer against coastal erosion, protecting shorelines from the damaging impacts of storms and waves.

However, kelp forests in California have experienced a significant decline in recent years due to a combination of natural and human-induced factors. One of the most important drivers of this decline is the warming of ocean waters, which has been linked to climate change. Sustained elevated sea temperatures known as "marine heatwaves" have caused significant stress to kelp populations, leading to widespread loss of kelp stands, increased susceptibility of key urchin predators to disease, and exploding populations of herbivorous sea urchins. The recent 2014-2016 marine heatwave left California's kelp forests decimated, with over 90% of bull kelp reported lost in Northern California and significant losses reported across the state (Bell et al. 2023, Arafeh-Dalmau et al. 2023). Human activities have also played a role in the degradation of kelp forests. Overfishing and removal of key predators like sea otters, predatory fishes, California spiny lobster, rock crab, and sea stars have disrupted food webs and resulted in trophic cascades in these ecosystems, allowing herbivorous species to graze on kelp unchecked. Additionally, coastal development, pollution, and nutrient runoff degrade water quality and promote the growth of invasive species that outcompete native kelp. The loss of kelp cover across the state has widespread economic and ecological impacts, has led to the closure of the recreational red abalone fishery in Northern California and has hindered Southern sea otter population expansion, as great white shark bite mortalities increase where kelp cover has declined at the northern and southern edges of this iconic species' range (Nicholson et al. 2018, Moxley et al. 2019).

The decline of California's kelp forests since the time the MPA network was completed seriously threatens the state's marine biodiversity, fisheries, and overall ecological health and undermines the goals of the Marine Life Protection Act. This adaptive management review cycle is critically timed to respond to kelp loss. It is vital to increase protections immediately to confer as much resilience as possible to future disruptions.

MPAs and kelp forest conservation

Around the world, MPAs have been found to enhance the overall health and resilience of ocean ecosystems (Edgar et al. 2014, Jacquemont et al. 2022), and to promote long-term kelp forest stability (Peleg et al. 2023). By providing long-term protections for predator species within their boundaries - such as southern sea otters, California spiny lobster, rock crabs, wolf eels, and predatory fishes like California sheephead - MPAs help to regulate local populations of kelp consumers, thereby having cascading positive impacts on kelp growth and persistence (Eisaguirre et al. 2020, Kawamata & Taino 2021, House & Allen 2022, Heineke et al. 2023). Promoting intact food webs and natural ecological processes can also help to improve overall resilience in the face of other natural and man-made stressors that MPAs cannot directly mitigate, such as warming ocean temperatures and nutrient runoff (Roberts et al. 2017, Arafeh-Dalmau et al. 2023). Noting these benefits and abilities, the California MLPA specifically identified kelp forests as one of the habitats requiring greater protection (MLPA Section 2856(a)(2)(A)).

We have seen the benefits of long-term protection of California's kelp forests. The Decadal Management Review of the statewide MPA network found that, while kelp species across the

state experienced large-scale declines during the 2014-2016 marine heatwave, “overall, kelp canopy was more stable and appeared to be more resilient inside MPAs” (CA MPA DMR 2022). The South Coast region’s kelp forests, in particular – where fishing pressure was highest before the implementation of the MLPA – seem to have benefited from protections, with increases in California sheephead and California spiny lobster within MPAs thought to help facilitate grazer suppression and lead to more stable giant kelp abundance during and after the marine heatwave (DMR Kelp Forest Technical Report 2021).

MPAs can also serve as a complementary management measure for kelp restoration. While California’s MPAs were not explicitly designed with the restoration of kelp forests in mind, MPAs in general are considered a form of indirect kelp restoration due to their ability to promote intact food webs through reduced fishing pressure, which in turn helps to reduce kelp grazing pressure, as described above (Hopf et al. 2022). In addition, stable kelp forests help to promote natural regeneration of nearby areas, by providing a supply of propagules to recovering populations close by (Arafeh-Dalmau et al. 2021, Giraldo-Ospina et al. 2023). A recent global synthesis of kelp restoration found that the most successful restoration projects are those located near existing stable kelp forests (Eger at al. 2022). MPAs that protect these stable kelp forests can help to promote their continued persistence by removing extractive or destructive activities, and potentially further boost kelp restoration efforts by promoting healthy predator populations that “spillover” into nearby areas (e.g. Lenihan et al. 2021), helping to reduce grazer pressure in a broader area (Kawamata & Taino 2021). Harnessing the power of these dense, stable, and resilient kelp beds for the natural regeneration of nearby areas using area-based protection can also free up much-needed resources needed for intensive, direct restoration efforts elsewhere.

Based on this new and growing scientific evidence base, the state should protect more of California’s most stable and resilient kelp forests now, in order to enhance the conservation benefits and ability of our statewide MPA network to meet the goals of the MLPA while giving kelp restoration efforts a leg up in the future.

<u>Identifying resilient kelp forests in California</u>

Since the creation of California’s MPA network, new research has emerged utilizing satellite and in-situ data over a decades-long year timescale to identify the kelp forests exhibiting higher levels of persistence and stability in California.

A multi-institution team of researchers used satellite data to provide high-resolution maps of the most persistent giant kelp and bull kelp patches in California during the last 35 to 38 years (Arafeh-Dalmau et al. 2021, Arafeh-Dalmau et al. 2023). Importantly, these studies analyzed the extent to which highly persistent kelp patches are protected within the state’s MPA network, and found that these important kelp forest areas are currently not adequately protected among regions. Only 20.9 % of the most highly persistent giant kelp forests in Central California, 8.4% in Southern California, and less than 1% in Northern California are fully protected in MPAs (Arafeh-Dalmau et al. 2021). Bull kelp is even less well protected – only 3.4% of the the most

highly persistent bull kelp forests in Northern Central California, and 0.1% of those in Northern California are fully protected in MPAs (Arafeh-Dalmau et al. 2023). The authors of these studies recommend increasing protections for these important and highly persistent kelp forest areas.

In addition, the Ocean Protection Council recently funded the development of an ecologically-focused, spatially explicit prioritization tool to identify priority kelp restoration sites in California waters (Giraldo-Ospina et al. 2023). Notably, this research used in-situ data as well as satellite imagery to determine the stability and current status of kelp forests across California's coastline, making the resulting prioritization index particularly robust. Of particular importance to this petition, the tool identifies kelp beds that have been historically stable, that persisted or bounced back quickly during the 2014-2016 marine heatwave, and that are currently doing well compared to other kelp forests – namely, the most stable and resilient kelp forest areas in state waters. Characterized as "medium priority" restoration sites – that is, historically stable kelp beds that are currently in good condition – these areas have a large potential for enhancing the natural regeneration and/or successful restoration actions of nearby kelp beds. The authors suggest potential actions: "Monitor these sites for triggers that may warrant intervention; Defend these sites from current or future threats; and Study these sites to understand the mechanisms of resistance to the marine heatwave."

In light of these new studies, and in line with the site classifications put forth by Giraldo-Ospina et.al, we strongly recommend the state take action to protect as much of these newly-identified, stable, highly resilient kelp forest patches as possible with well-protected MPAs in the coming years. Protecting these iconic, dense kelp beds is one of California's best shots at preserving – and eventually restoring – our critically important kelp forest ecosystems quickly and cost-effectively.

Proposed areas for additional or enhanced MPA protections

Using spatially-explicit data detailing where highly persistent kelp beds and "medium priority" restoration sites overlap, as outlined by Arafeh-Dalmau et al. 2021, 2023, and Giraldo-Ospina et al. 2023, we identified areas where additional protections are necessary to promote the continued persistence and stability of California's healthiest kelp forests (see Table 1).

Preference was given to areas already within or adjacent to existing California MPAs, recognizing the substantial scientific and stakeholder input involved in creating the original network through the MLPA process, and in order to adhere as much as possible to the original intent and science-based spacing guidelines provided by the SAT during the creation of the network. We recommend reducing spacing between MPAs in some places is necessary to increase the representation of these highly persistent and resilient kelp beds that have a greater chance of persisting into the future in our state MPA network. We also encourage the state to consider whether there are other areas of highly persistent and resilient kelp not included in this proposal that would be good candidates for new or expanded MPA protections.

To develop the proposal further, we collected information through interviews and other personal

communications with scientists including Dr. Anita Giraldo-Ospina and Dr. Nur Arafeh Dalmau, who graciously provided data, assisted with the interpretation of results to identify the recommended areas, and reviewed the proposal for accuracy. We also gathered expert input and data from individuals, local community groups, MPA Collaborative Network members, conservation organizations, and more. While their cooperation should not be taken as an endorsement, we greatly appreciate the information and guidance provided by these individuals which contributed to the overall accuracy and scientific validity of this proposal.

We did not focus on "high priority" restoration sites identified by Giraldo-Ospina et al. 2023, in order to avoid proposing MPA protections for areas that may require more intensive, direct restoration methods, such as grazer suppression activities, that are not currently permitted within MPA boundaries. However, we urge the state to consider what, if any, direct restoration activities might be compatible with different MPA designations within the state's network (e.g. line 20 of the MPA Collaborative Network's Vetted Regulation Recommendations), recognizing that the impacts of climate change may still degrade some kelp beds within MPAs in the future, and proactive restoration efforts may be warranted.

Finally, it should be noted that, while the general location and specific boundaries for proposed areas are listed in Table 1, we are happy to work with State and its partners to define the proposed areas and boundaries in more detail, keeping in mind CDFW MPA design guidelines and the state's interest in taking a holistic approach for reviewing petitions and enhancing the network to meet the statewide 30x30 goal.

Socioeconomic impacts

Enhanced, long-term protection of highly resilient kelp forest areas will bolster the diverse stakeholders, interests and industries that benefit from our coastal marine resources. Low-impact, non-consumptive recreational activities such as diving, snorkeling, and surfing will be unaffected – and even enhanced – by expanded MPAs, which will also provide enhanced research and education opportunities. Short-term impacts to recreational and commercial fishermen will be outweighed by larger benefits in the future, as has been demonstrated here in California and around the world (Bucaram et al. 2018, Lenihan et al. 2021, Medoff et al. 2022). For example, an analysis of CDFW fisheries data found that regional and statewide fishery landings and values do not appear to have been negatively impacted by MPAs (Murray and Hee 2019), and an analysis of California spiny lobster fishery found that any short-term losses were compensated for by a 225% increase in total catch after 6 years of MPA designation (Lenihan et al. 2021).

Relevance to MLPA Goals and DMR Recommendations

Enhancing the protection of kelp forests in California aligns strongly with Goals 1, 2, 3, and 4 of the California MLPA. By safeguarding California's most resilient and stable kelp forests, as detailed in this petition, we will preserve critical habitat for a diverse range of marine species, from endangered sea otters to commercially valuable fish species. Kelp forests play a crucial

role in the recovery and sustainability of marine life populations, as they serve as nurseries and refuges for many species, including those targeted by fisheries. These vibrant ecosystems also offer intrinsic value by supporting biodiversity and exceptional natural beauty, and their recreational and scientific use and enjoyment make them vital for the public (MLPA Section 2856(a)(2)(A)).

In addition, the regulation and boundary changes proposed by this petition specifically advance DMR Recommendation #4 - “Apply what is learned from the DMR to support proposed changes to the MPA Network and Management Program”. The DMR found that California MPAs helped to promote kelp forest resilience and recovery during and after the severe 2014-2016 marine heatwave. In the face of increasing climate impacts and as we struggle to recover from recent kelp forest declines across the state, expanding the MPA network in key, targeted areas can help to ensure the continued persistence of our remaining, most resilient kelp forests.

Relevance to Broader State Processes, Policies, and Goals

We applaud the actions that the State of California has already taken to respond to the severe declines in kelp forest cover across the state, including recent commercial kelp harvest closures in Northern California, annual harvest limits in Northern California, and the initiation of a statewide Kelp Restoration and Management Plan. We strongly support taking a whole-ocean approach to ensuring sustainable and effective management of kelp in our state waters (Crowfoot et al. Objective 3.2).

The MPA changes proposed in this petition complement the state’s ongoing kelp restoration and management work. They will also help to reduce the state’s costs associated with kelp restoration – harnessing the ability of well-protected, resilient kelp beds to promote the natural regeneration of nearby areas, allowing the state to direct more of its much-needed resources and funding for intensive restoration efforts in harder-hit areas with little kelp cover left.

Finally, this petition aligns strongly with the statewide goal set by both Governor Newsom and the legislature to conserve 30% of our coastal waters by 2030. If implemented in its entirety, the actions proposed in this petition will see an additional ~1.5% of state waters protected in highly- to fully-protected areas, while helping the network to better achieve the goals set forth in the MLPA.

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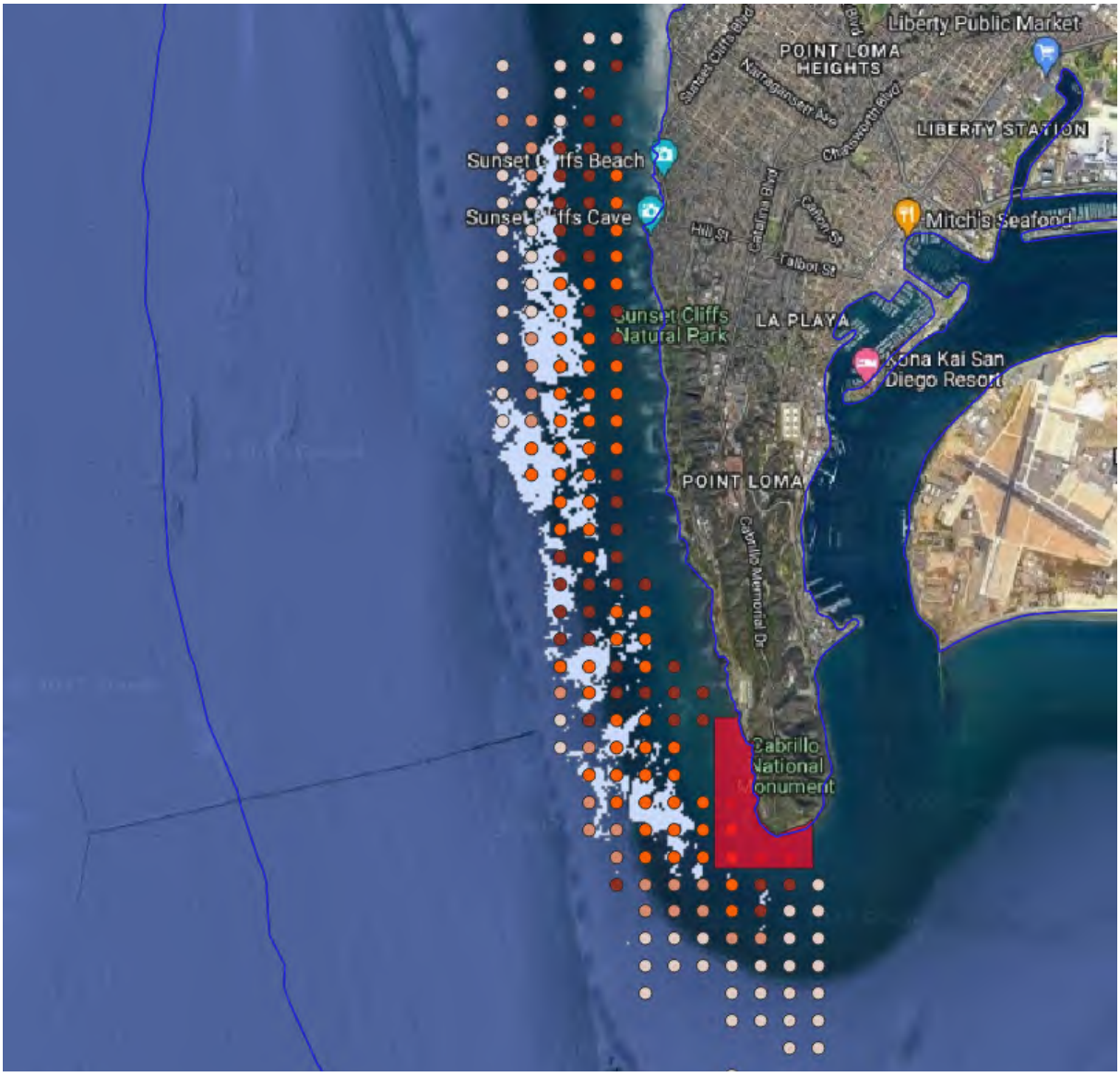
Appendix A
Distribution of Highly Persistent Kelp Beds Near State MPAs Proposed for Expansion

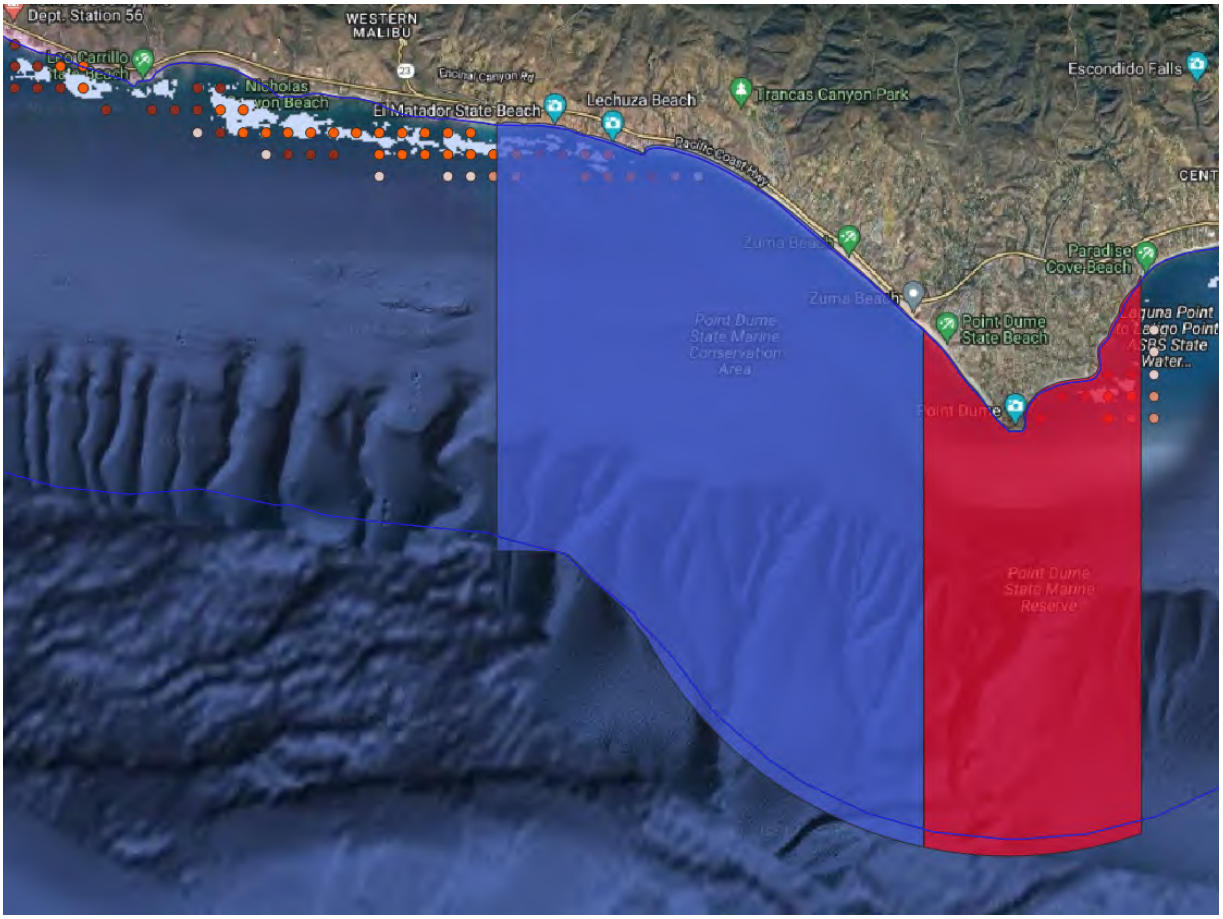
Highly persistent kelp beds identified by Arafeh-Dalmau et al. 2021 are depicted by light blue pixels. Priority kelp restoration sites characterized by Ospina-Giraldo et al. 2023 are shown using colored circles. “High priority” restoration sites are dark red, “medium priority” sites are bright orange, and “low” and “very low” priority sites are light and very light gray.

Existing California MPAs are denoted by red, purple, or blue polygons, and the 3 nm state waters limit is shown as a blue line.

<u>Cabrillo SMR</u>

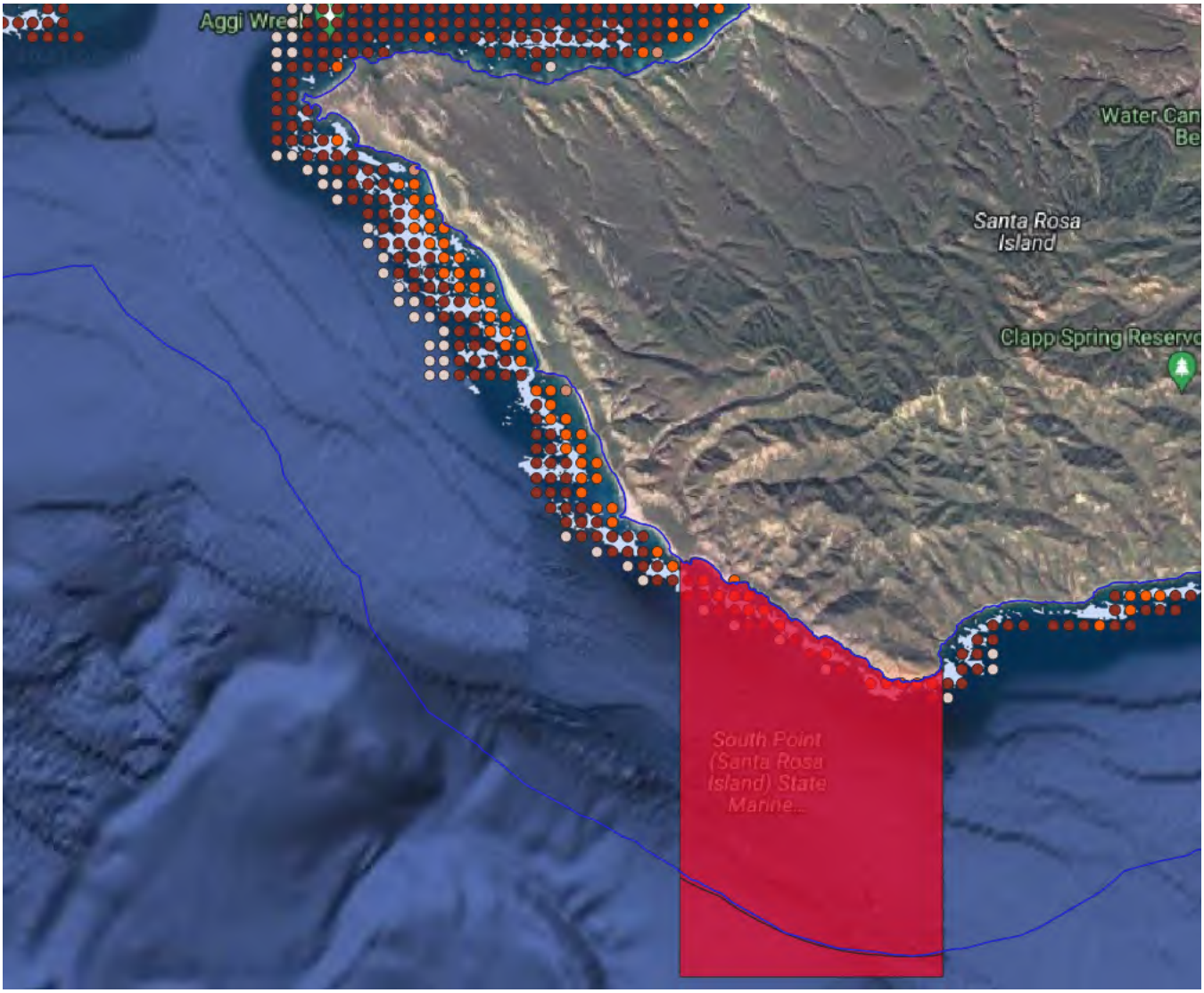


Point Dume SMCA

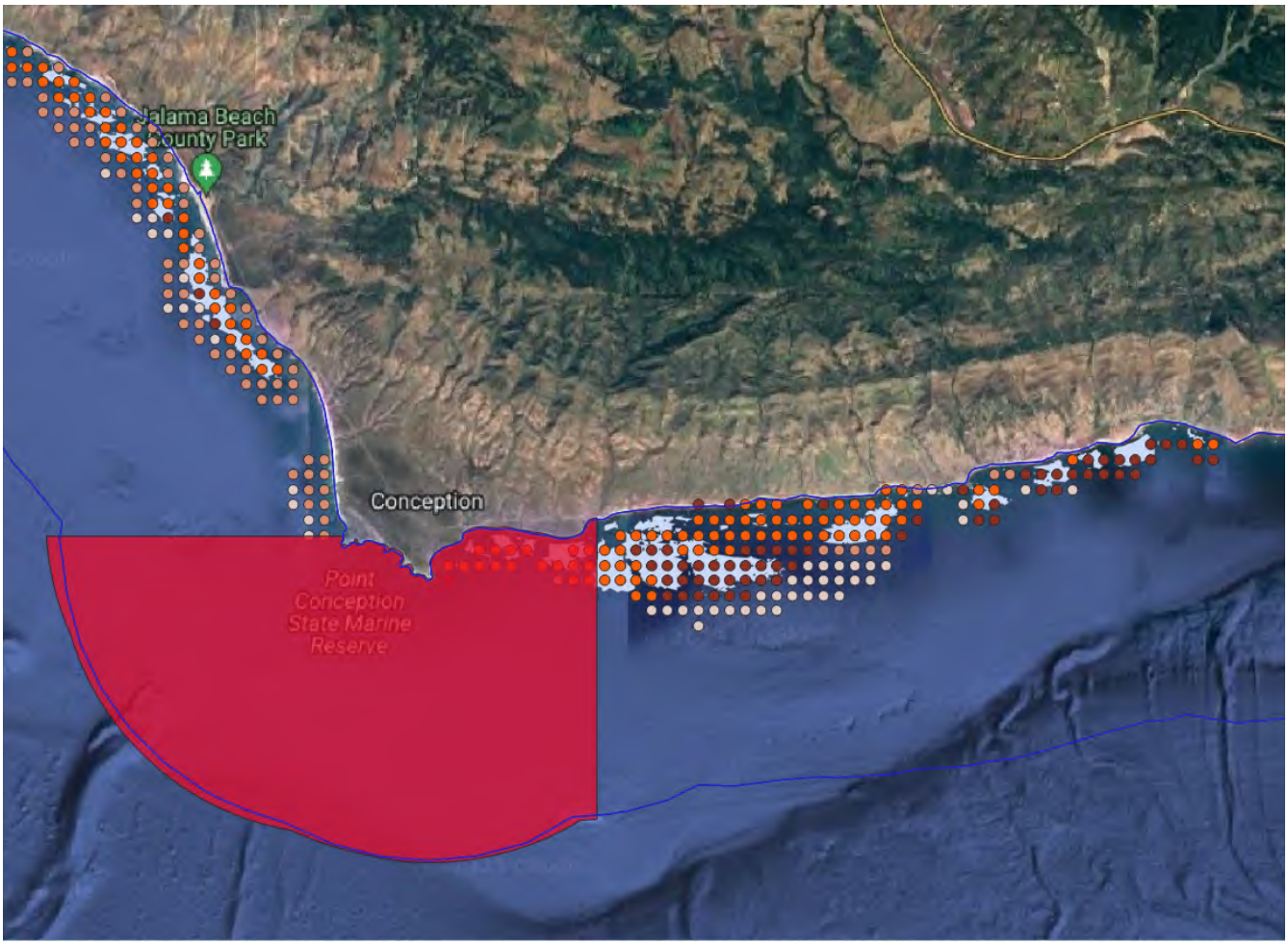


Gull Island SMR

South Point SMR



Point Conception SMR



Natural Bridges SMR

Pleasure Point, Santa Cruz

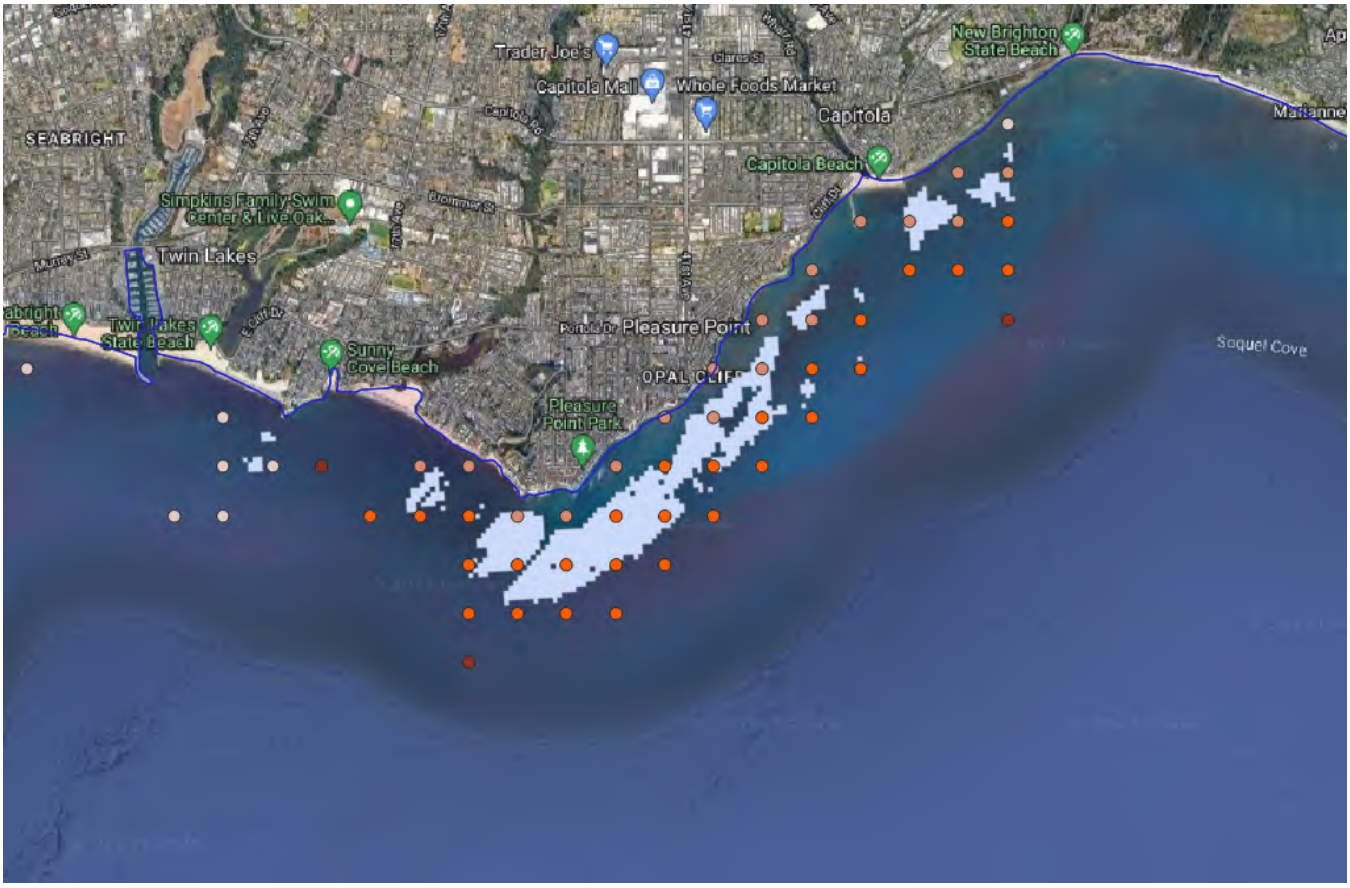


TABLE 1 - Petition to Modify the CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests

Name	Proposed action	Brief description	Proposed regulations and boundary change	Historical context	Notes
Cabrillo State Marine Reserve (SMR)	Expand by 15.2 sq miles	Large patches of dense, stable kelp forests exist along a large stretch of coast along Point Loma to the north of the very small existing SMR. Expansion is compatible with Cabrillo SMR's current goal to "protect diverse kelp forest, surfgrass, sandy seafloor, and intertidal and nearshore rocky reef habitat". Approximately 1,000,000 people visit the area annually which provides access to the ocean for thousands of school children and other groups. Recreational and subsistence fishing is common here.	No change in regulations. Maintain existing eastern and southern boundaries. Shift the western boundary to the edge of state waters per state MPA design and size guidelines, and shift the northern boundary to a visible geographic landmark at Swordfish Point to bring resilient kelp beds along the western shore of Point Loma within MPA protections. The new proposed boundaries would form straight lines, follow the mean high tide line, and follow the state waters boundary from the current southeast corner of the SMR to approximately the following coordinates: - Southwest corner: 32° 66.223' N lat. 117° 30.345' W long. - Northwest corner: 32° 72.539' N lat. 117°31.664' W long. - Northeast corner: 32° 72.529' N lat. 117°25.836' W long.	This area was initially included in a large proposed SMR ("Point Loma SMR", Proposal C) in recognition that this is an area of greater biological diversity than other areas. However, the state opted for a reserve far smaller than the science-based minimum size guidelines to avoid conflict with fishing grounds offshore.	To balance kelp forets protection with recreation and low-impact subsistence fishing, we are willing to consider the creation of a new SMCA alongside the existing SMR that allows for recreational hook-and-line fishing and spearfishing.
Point Dume State Marine Conservation Area (SMCA)	Expand by 4.6 sq mi	A large, dense, resilient kelp bed is located immediately west of the current SMCA's boundaries. We propose a small expansion of the SMCA to protect this important kelp bed. Currently, the SMCA protects nearly 16 square miles of sandy beach and seafloor habitat, rocky shores, kelp forests, surfgrass beds, an upwelling zone, and less than a quarter square mile of deep submarine canyon, which together create an area of high biodiversity. This SMCA also provides for excellent surfing, diving, tidepooling, and whale watching opportunities.	No change in regulations. Shift the western boundary to the edge of El Sol County Beach to bring the highly resilient patch of dense kelp forest just west of the current SMCA into MPA protection. The proposed new western boundary forms a straight line extending southward from the mean high tide line to the 3 nm state waters limit at approximately the following coordinates: - Northwest corner: 34°0413' N lat. 118°9063' W long. - Southwest corner: 33°9899' N lat. 118°9063' W long.	The kelp beds within the proposed expansion area were part of a historic SMP proposal ("Lechuza SMP", Proposal C) that sought to protect these persistent kelp beds along the Malibu Coast. This proposed SMP was not taken up by the state at the time, likely in favor of designating the Point Dume SMR/SMCA complex just to the east and to maintain spacing guidelines. In addition, the Point Dume SMR/SMCA boundaries were placed to the west of Point Dume in order to leave waters to the east of the point open/unprotected to accomodate for heavy commercial and recreational use - suggesting that the western side of the point was seen as less desirable for commercial and recreational interests.	
South Point SMR	Expand by 26.3 sq mi	The Northern Channel Islands contain some of the largest remaining resilient kelp beds in state waters, although large portions of the islands have experienced die-offs and are rated as "high priority" sites by Ospina-Giraldo et al. 2023. The stretch of coastline to the northwest of South Point SMR on Santa Rosa Island contains one of the largest contiguous resilient kelp beds on the islands. The SMR currently protects around 13 square miles of ocean habitat including rocky reefs, sandy seafloor, surfgrass beds, and small patches of highly resilient kelp forests. Expansion would help to bring the large stretch of resilient kelp bed to the northwest under MPA protection, and is compatible with the SMR goal to "protect the rocky reef, kelp forest, sandy plain habitat found here". This area is remote and only accessible via boat. Backcountry beach camping along the South Point SMR shoreline is permitted from September 16 through December 3.	No change in regulations. Shift the western boundary of the SMR to the westernmost tip of Santa Rosa Island with protections extending south to the 3 nm state waters limit, bringing a large, contiguous patch of resilient kelp forest along the southwest coastline under MPA protections. The new western boundary should form a straight line extending south, connecting the island's westernmost tip and the 3 nm state waters limit at approximately the following coordinates: -Northwest corner: 34°0013' N lat. 120°2507' W long. -Southwest corner: 33°938' N lat. 120°2507' W long.	South Point SMR was established as one of the 13 Channel Islands MPAs in 2003 and re-established with no changes as part of the state MPA network in 2012.	
Gull Island SMR	Expand by 1.8 sq mi	The Northern Channel Islands contain some of the largest remaining resilient kelp beds in state waters, although large portions of the islands have experienced die-offs and are rated as "high priority" sites by Ospina-Giraldo et al. 2023. A small area of unprotected coastline to the northwest of Gull Island SMR contains highly resilient kelp beds worth protecting. Expansion is compatible with the SMR goal to "protect the rocky reef, kelp forest, sandy plain habitat found here".	No change in regulations. Shift the northern boundary of the SMR to the mean high tide line along the southwest coastline of Santa Cruz Island, to bring the highly resilient kelp beds at Posa Anchorage under MPA protection. The new northern boundary should follow the mean high tide line until it joins with an extension of the existing western boundary, at approximately 34°000' N lat.	Gull Island SMR was established as one of the 13 Channel Islands MPAs in 2003 and re-established with no changes as part of the state MPA network in 2012.	
Point Conception SMR	Expand by 14.6 sq mi	A very large patch of resilient kelp forest exists just outside the current eastern boundary of Point Conception SMR. Ospina-Giraldo et al 2023 identified this patch as having a lower risk of future losses compared to nearby kelp patches, and being valuable for natural regeneration and long-term monitoring ("cluster 2" in Hypothetical Use Case #4). Data from an existing shore-based radar system that has been deployed at the site since 2020 shows the area immediately east of the currently MPA appears to be used largely for transit, rather than fishing. Access to this area is currently limited, allowing for additional protections to confer high conservation value while minimizing socioeconomic impacts.	No change in regulations. Maintain existing western and southern boundaries, and shift eastern boundary westward between Arroyo San Agustin and Canada de la Agujas beaches to bring the large resilient kelp bed to the east of Point Conception SMR within MPA protections. The new eastern boundary should form a straight line between the mean high tide line and the 3nm state waters boundary at approximately the following coordinates: -Northeast corner: 34°45' N lat. 120°3445' W long. -Southeast corner: 34°40' N lat. 120°3445' W long.	The proposed expansion area appears to have been initially included in a larger proposed SMR during the MLPA planning process (South Coast Proposal C) in recognition of this area's biological and oceanographic importance. The rationale for the smaller current boundaries for Point Conception SMR is unclear from the historical documents provided.	

Natural Bridges SMR	Expand by 13.7 sq mi	Multiple patches of resilient kelp forest exist just offshore from the current SMR boundaries. The original intent of this SMR was to protect the intertidal zone from tidepooling and shore fishing while leaving skiff fishing unimpacted. However, increasing climate impacts, the critical condition of the state's kelp forests, and strong public support for expanded protections, warrant a reevaluation and expansion of this SMR to protect these highly resilient kelp beds and newly vulnerable marine populations.	No change in regulations. Maintain existing western and eastern boundaries, and shift southern boundary out to the 3nm state waters limit to protect the resilient kelp beds and deeper habitats and pelagic waters per CFDW design and feasibility guidelines, as well as recently published peer-reviewed guidelines for climate-resilient MPA design (Arafeh-Dalmau et al. 2023).	The Natural Bridges SMR was designed as an intertidal SMR, specifically to avoid socio-economic impacts. The preferred option of siting a SMR that extends to greater depth range (as identified in the IDC proposal) was not pursued in an effort to reduce socio-economic impacts by avoiding siting SMRs adjacent to Santa Cruz harbor.	
Pleasure Point SMR	Designate ~3.2 sq mi	A large, dense patch of resilient kelp forest exists just off Pleasure Point. The kelp beds of the northern Monterey Bay are some of the largest and most persistent in the state. This area in particular is a well-known and popular surfing location, with little commercial fishing taking place (pers. comms H. Nevins) and minimal recreational hook-and-line fishing and spearfishing occurring when surf conditions are flat. There are strong access points to the area, many educational and recreational opportunities, and a growing, colloquially named "shark park" nearby as the presence of juvenile white sharks increases. See letter from H. Nevins in Appendix B detailing the broader conservation value of the area.	We propose a no-take SMR to best protect this large kelp forest from all destructive and extractive activities. See Column F for an acceptable alternative, and additional consideration. Proposed regulations are as follows: "*It is unlawful to injure, damage, take, or possess any living, geological, or cultural marine resource*." Proposed boundaries range from the northeastern edge of Trees Beach along the mean high tide line to the tip of Soquel Point. From the mean high tide line, the proposed boundary extends south (offshore) by 2.5 sq mi, in keeping with CDFW design guidelines and recent peer-reviewed guidelines for climate-resilient MPA design recommending a variety of habitats and depth ranges be represented within an MPA (Arafeh-Dalmau et al. 2023). While this area would not meet the state's minimum size guidelines, we recognize the importance of this area for recreational fishing and believe a strategically placed MPA of this size would protect as much of the kelp forest as possible while minimizing economic impact to the larger region, and providing conservation benefits to the broader region as detailed in Appendix A's letter from H. Nevins.	n/a	To balance kelp forest protection with recreation and low-impact subsistence fishing, we are willing to consider a new Pleasure Point SMCA that allows for recreational hook-and-line fishing and spearfishing. In addition, to better protect the ecologically rich and biologically important waters of Soquel Cove nearby, we strongly suggest the state consider designating a larger State Marine Park (or State Marine Conservation Area allowing for all recreational activities) alongside, or in tandem with, the Pleasure Point detailed here for enhanced recreational and ecological benefits (see Appendix A letter from H. Nevins).

California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

November 30th, 2023

Re: Petition to Modify CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests; Petition to Increase Level of Protection and Streamline Enforcement for Several California State MPAs

Dear President Sklar and Honorable Commissioners,

Environment California Research & Policy Center has one mission that drives everything we do: to protect our natural world. We envision a better, greener California: one that protects and restores more places where all life can thrive and offers us and our children the opportunity to live healthier, more enriching lives.

Azul is a grassroots organization working to conserve marine resources. We treasure the life-sustaining force of the ocean, as well as the physical and spiritual nourishment it provides us. We are a Gente powered and led effort, focused first on celebrating our rich Latino conservation traditions and connecting them to current solutions. Our work is based in authentic engagement, community building, and collaboration.

That's why we welcomed the goal set by Governor Newsom and his Administration of protecting 30% of lands and coastal waters by 2030 ('30x30'), which was codified with the passage of SB337 this Fall. This goal reflects the new scientific consensus that humanity must set aside much more of the ocean to sustain healthy marine life populations and ecosystems.

The State of California's network of Marine Protected Areas (MPAs), created by the Marine Life Protection Act (MLPA), has demonstrated that area-based marine protection works: during the state's recently completed Decadal Management Review (DMR), scientific analysis showed that the network has generally succeeded in protecting ocean habitats, increasing biomass of fishery-targeted species, and enhancing the climate resilience of California's coastal ecosystems.

However, the amount of coastal waters currently protected within the statewide MPA network falls far below the state's 30% goal. Only 12% of California state waters are covered in highly to fully protected areas – the types of protected areas known to provide the best conservation outcomes – and an additional 4% is covered in lightly protected areas that allow considerable human impacts within their boundaries. In total, 16% of state waters are currently protected within an MPA.

We must do more. Coastal and marine ecosystems face growing threats related to climate change and increased human use, as well as emerging threats from new ocean uses such as offshore wind and aquaculture. In the face of these threats, now is the time to make significant improvements to the existing MPA network via an adaptive management process to better protect our ocean and coastal resources in the future.

That is why we are submitting two petitions for rulemaking intended to strengthen the network's ability to conserve critical habitat types and better manage the network. Each of the two petitions stands on their own and are based on new and updated science that were not available to policymakers at the time of designating the original network. The areas we have proposed for expansion or strengthening are prime examples of where California's ocean life stands to benefit through new or updated permanent, area-based protections created under the MLPA.

The areas we are proposing are likely not the only areas that would fit the criteria for enhanced protection laid out in our petitions, nor are our criteria the only ecological criteria that could be used to systemically strengthen the existing network in line with the state's new 30x30 goal. We urge the Fish and Game Commission and all relevant state agencies to conduct analyses that will highlight the habitat types, species, and regions underserved by the current network, with an eye toward building a state MPA network that is resilient in the face of rising ocean temperatures, emerging threats, and continued pressure on endangered and threatened species.

Californians can be proud that we have led the way in ocean conservation over the past decades. It's time to take up the mantle of leadership once again, globally and nationally, not only to create a better future for the amazing life off of our own coasts, but also to inspire other decision makers to do so along every coastline, in every part of the ocean.

With your leadership, our groundbreaking marine protected area network can take its next leap forward.

Sincerely,

Laura Deehan
Director
Environment California Research & Policy Center

Marcela Gutiérrez-Graudiņš
Founder / Executive Director
Azul

California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

November 29, 2023

Re: Petition to Modify CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests

Dear President Sklar and Honorable Commissioners,

We are writing in support of Environment California Research & Policy Center's petition to increase protections for remaining persistent kelp forests in California state waters through the Marine Life Protection Act (MLPA)'s adaptive management process. As kelp forests contend with increased threats from climate change, predator loss, and invasive species, taking action to preserve the highly persistent kelp forest areas that have so far withstood these threats will be critical to the state's efforts to conserve this essential ecosystem and achieve area-based conservation targets.

California's kelp forests provide numerous and invaluable ecological and environmental benefits. These underwater ecosystems serve as critical nurseries for a wide variety of marine species, providing shelter and food for numerous fish, invertebrates, and marine mammals. They support thriving commercial and recreational fisheries, attract tourists and divers, and can help dampen the impacts of coastal erosion and storm impacts. However, recent decades have seen a decline in kelp forest cover across the Pacific West Coast, including California, due to a combination of natural and human-induced factors such as a major marine heatwave and the loss of predators of kelp grazers by overfishing and disease.

Marine protected areas are a critical tool for increasing the resilience of kelp ecosystems in the face of these stressors. However, the state of California's MPA network has gaps in coverage for the state's most persistent kelp forests. Recent analyses identifying the extent of persistent giant kelp and bull kelp forests in California found only 20.9% of the most highly persistent forests in Central California, 8.4% in Southern California, and less than 1% in Northern California are fully protected.[1,2] Improving the MPA network to better protect our remaining stable kelp forests will aid in increasing the resilience of these ecosystems and prevent further loss of kelp cover.

State officials should utilize all tools at their disposal to address the ongoing threats to kelp forests. Marine protected areas like those created through the California MLPA are a tool that

[1] Arafeh-Dalmau et al. 2021, Southward decrease in the protection of persistent giant kelp forests in the northeast Pacific. *Communications Earth & Environment*. https://doi.org/10.1038/s43247-021-00177-9
[2] Arafeh-Dalmau et al. 2023, Shortfalls in the protection of persistent bull kelp forests in the USA. *Biological Conservation*. https://doi.org/10.1016/j.biocon.2023.110133

has been underutilized in efforts to protect and restore our kelp forests—and one we cannot afford to ignore.

The state has an opportunity to incorporate these new scientific findings into the state network of marine protected areas, ensuring the network better addresses emerging threats to our kelp forests and provides the best possible support for restoration efforts. The petition submitted by Environment California RPC is supported by recent scientific analysis employing 35 years of satellite data to identify persistent kelp forests, and is based on extensive global research demonstrating the benefits of highly to fully protected areas.

As scientists who have spent decades studying our ocean ecosystems, we urge you to take swift action to protect and preserve our coastal and marine resources and natural heritage in the face of increasing climate impacts. Our future depends on it.

Thank you for your ongoing efforts to protect California's ocean heritage, and we look forward to engaging in this important work for years to come.

Sincerely,

Dr. Nur Arafeh-Dalamu
Postdoctoral Scholar, Hopkins Marine Station, Stanford University
Honorary Fellow, University of Queensland

Dr. Fiorenza Micheli
David and Lucile Packard Professor of Marine Science, Stanford University

Dr. Kyle Cavanaugh
Professor, Department of Geography, University of California, Los Angeles

Dr. Dawn Murray
Professor Environmental Studies, Antioch University Santa Barbara

Dr. Carolina Olguin-Jacobson
Postdoctoral Scholar, Hopkins Marine Station, Stanford University

WOODS HOLE OCEANOGRAPHIC INSTITUTION

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November 29, 2023

California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

Re: Petition to Modify CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests

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State officials should utilize all tools at their disposal to address the ongoing threats to kelp forests. Marine protected areas like those created through the California MLPA are a tool that has been underutilized in efforts to protect and restore our kelp forests—and one we cannot afford to ignore.

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Thank you for your ongoing efforts to protect California's ocean heritage, and I look forward to engaging in this important work for years to come.

Sincerely,

Dr. Tom Bell
Scientist, Department of Applied Ocean Physics and Engineering, Woods Hole Oceanographic Institution

California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

November 29, 2023

Re: Support for new MPA to protect kelp, seabirds, and sharks of Santa Cruz

Dear President Sklar and Honorable Commissioners,

As a local seabird and marine ecosystem biologist, I am writing in support of a new State Marine Reserve proposed by Environment California and Azul to protect kelp, seabirds, and sharks in coastal waters of Santa Cruz County, CA. As climate change impacts ocean conditions, corresponding shifts in fishing behavior will create new risks for forage fish and place increasing pressure on ocean wildlife. Providing protections now for forage fish within critical nearshore kelp forests and sandy bottom environments is essential for mitigating future threats to migratory seabirds, whales, and sharks.

The proposed MPA off Soquel Point in Santa Cruz is positioned within the northern Monterey Bay bight, a biologically rich and unique marine region encompassing nearshore kelp forests, sandy beach, and deeper soft-bottom habitats. Physically, these waters are influenced by the Año Nuevo upwelling front and the area is characterized by a broad shallow shelf. These features create a unique ocean circulation pattern where freshly upwelled and nutrient rich cold-water eddies become slower and recirculate within this semi-enclosed bay[1]. These waters are ideal growing conditions for phytoplankton, crustaceans and cephalopods, larval fishes and forage fishes (anchovies, sardines, herring), which create the base of the food web for predatory sharks, seabirds, and whales.

This biologically diverse area is recognized as important to more than 100 species of marine seabirds and shorebirds, mammals and sea turtles (Harvey & Benson 1997[2], Henkel 2006[3], Neuman et al. 2008[4]). In the summer months, enormous flocks of Sooty Shearwater travel 20,000 km from New Zealand 20,000 km to feed on the anchovy schools (Figure 1) within the

[1] Graham and Largier 1997. Upwelling shadows as nearshore retention sites: the example of northern Monterey Bay. Continental Shelf Research, 1997

[2]Harvey and Benson 1997. Marine Bird and Mammal Distribution and Abundance in Monterey Bay, During 1996. Moss Landing Marine Laboratories Technical Publication 97-02, 80pp.

[3] Henkel 2004. Seasonal Abundance of Marine Birds in Monterey Bay, California. Western Birds: 126-146.

[4] Neuman, Henkel, and Page. 2008. Shorebird use of sandy beaches in central California Waterbirds.

northern bight of the Bay (Figure 2) (Adams et al. 2012[5]). This annual natural feeding frenzy phenomenon is described as the "River of Birds" and is fueled by the dense nearshore aggregations of anchovies, which are also host to iconic lunge-feeding humpback whales,[6] pelicans, and gulls.

An "Oasis Effect" has been described for these nearshore areas in California[7] by which whales and other marine animals aggregate in large numbers to feed in nearshore "oases" of forage fish during times of poor food availability offshore. Similarly, Endangered Leatherback Sea Turtles travel from offshore areas to feed within the bight when ocean conditions nearshore favor jellyfish[8]. The connection between nearshore and offshore forage fish dynamics figures importantly in the future conservation of these globally connected migratory species[9].

However, these areas are not protected from extractive uses including fisheries. Despite 30 years of protected designation within the Monterey Bay National Marine Sanctuary, Adelaars et al. 2012[10] found that the relative level of conservation, particularly within the northern bay sandy shelf area of the Sanctuary, is low. The Sanctuary primarily protects the waters from offshore oil and gas exploitation, but does not protect against the impacts of fishing and many other human activities which may compromise thriving marine food webs. Large important areas of nearshore sandy-bottom and kelp forest habitats in Monterey Bay remain unprotected (see Figure 7 in Adelaars et al.).

In addition, over the past 10 years our coastal ecosystems have seen significant shifts in the face of a changing climate. Warming waters – including intense episodic marine heatwaves – have caused mobile species to temporarily shift their geographic ranges to remain within suitable environmental conditions,[11] often increasing the chances for harmful interactions with fisheries and other human activities. In the Monterey Bay, warming waters have led to habitat

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[5] Adams, MacLeod, Suryan, Hyrenbach and Harvey. 2012. Summer-time use of west coast US National Marine Sanctuaries by migrating sooty shearwaters (Puffinus [=Ardennna] griseus). Biological Conservation 156: 105-116.

[6] [video] Sooty Shearwaters on Monterey Bay feeding with Humpback Whales (MB Whale Watch)

[7] Benson, Croll, Marinovic, Chavez, and Harvey. 2002. Changes in the cetacean assemblage of a coastal upwelling ecosystem during El Niño 1997-98 and La Niña 1999. Prog. Oceanogr. 54:279-291.

[8] Benson, Forney, Harvey, Carretta, and Dutton. 2007 Abundance, distribution, and habitat of leatherback turtles (*Dermochelys coriacea*) off California, 1990–2003. Fish. Bull. 105:337–347.

[9] International Agreement on the Conservation of Albatrosses and Petrels (Conservation of Migratory Species).

[10] Adelaars, Bassett, Donlou, Marks, Pardieck, and Lindholm. 2012. Examining the Conservation Level of Marine management Areas within the Monterey Bay National Marine Sanctuary: How Protected is the Sanctuary? Marine Sanctuaries Conservation Series ONMS-12-04. U.S. Department of Commerce, NOAA, Silver Spring, MD. 41 pp. [NB: Figure 7 - Soquel Cove area]

[11] Pecl, Araju et al. 2017. Biodiversity redistribution under climate change: Impacts on ecosystems and human well-being. Science

compression for whales and other mobile marine species, causing them to move inshore more frequently to feed and resulting in record-high whale entanglements in fishing gear.[12] Other species such as Common Murre, Rhinoceros Auklets and Brandt's Cormorant engage in prey switching as a strategy to buffer prey availability[13], utilizing species from kelp forests and nearshore ecosystems when offshore species are less abundant. Maintaining healthy nearshore environments with a diversity of prey sources for predators experiencing climatic stressors is critical for the climate resilience of the overall ecosystem. However, the very changes underpinning these shifts in wildlife behavior can also influence fisher behavior,[14] putting pressure on these food webs at the very time that they're needed to maintain ecosystem resilience.

Conservation of healthy forage fish populations in the face of climate change is critical. A recent review highlighted the need for conservation of the prey base with regard to the seabird populations in California, noting that where humans and wild predators coexist, human fishers are far more efficient in their prey harvesting activities[15]. Further, a global review by Cury et al. 2011 suggested a precautionary approach of leaving one third of the fish biomass for the seabirds[16]. Both of these studies point to the need for establishing protections of forage fish for seabirds which are not exploited to full capacity. A new state MPA would strengthen protections for forage fish now, before shifting ocean conditions bring new threats to this area. The proposed MPA area is not currently not currently subject to any significant commercial take, making protecting this area now of minimal economic impact to existing fisheries.

Conservation in this area is aided by the participation of actively engaged citizen scientists. Citizens in Santa Cruz County are very concerned about marine conservation and actively participate in citizen science activities including water quality (Coastal Watershed Council), intertidal and subtidal monitoring (LIMPETS[17], Reef Check California) and beach monitoring (BeachCOMBERS, Nevins et al. 2011[18]). Since 1997, citizen scientists have been monitoring

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[12]Santora, Mantua et al. 2020. Habitat compression and ecosystem shifts as potential links between marine heatwave and record whale entanglements. Nature

[13] Warzybok et al. 2018 Prey switching and consumption by seabirds in the central California Current upwelling ecosystem: Implications for forage fish management. J Marine Systems

[14] Pichegru et al. 2012. Industrial fishing, no-take zones and endangered penguins. Biol. Cons. 156:117-125.

[15]Ainley, Adams, Jahncke (eds). 2014 Towards ecosystem-based fishery management in the California Current system–predators and the preyscape: a workshop.

[16]Cury et al. 2011. Global Seabird Response to Forage Fish Depletion—One-Third for the Birds. Science

[17] Pearse et al. 2015 Long-term monitoring of surfgrass meadows in the Monterey Bay National Marine Sanctuary : recovery followed by stability after the termination of a domestic sewage discharge.

[18]Nevins, Benson, Phillips, de Marignac, DeVogelaere, Ames and Harvey. 2011. Coastal Ocean Mammal and Bird Education and Research Surveys (BeachCOMBERS), 1997-2007: ten years of monitoring beached marine birds and mammals in the Monterey Bay National Marine Sanctuary.

impacts to marine birds and mammals in and around the proposed MPA, contributing significant evidence for understanding human impacts, documenting the recovery of species in the region, and complementing long-term monitoring efforts by the state.

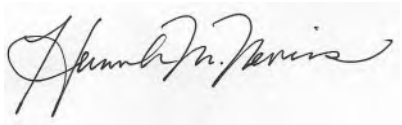
Northern Monterey Bay is host to a multitude of ocean-focused activities and these have created a thriving nature-based economy: surfers treasure the waves of Pleasure Point from Soquel Point to Capitola; beachgoers enjoy tidepooling, birdwatching, fossil hunting, and fishing along the rocky and sandy shores of New Brighton and Seacliff Beaches. Recently, locals have called this area a “Shark Park”, due to the increased use of the area by juvenile white sharks as seen by drones. This natural phenomenon has created a boon for shark-ecotourism businesses based out of Santa Cruz and Capitola (Figure 3). An established MPA in the area would help provide long-term protections for this oft-maligned species which requires nearshore sandy beaches for growth and survival, while supporting local nature-focused businesses.

The proposed MPA would also amplify nearby land-based protected areas, including four California State Parks (New Brighton, Seacliff Beach, Manresa and Sunset State Beaches). Establishing a land-sea connection between terrestrial and coastal protected areas will not only enhance broader ecological ecosystem function, but could connect users within the proposed MPA to interpretive aspects of state parks, which offer extensive access (trails, beach access, RV and tent camping) and interpretive resources (rangers and visitor centers).

In summary, the proposed MPA would provide multiple species and habitats ecological benefits and greater resilience in the face of climate-related impacts and shifting fishing behaviors, as well as leverage local citizen efforts to increase coastal protection and enhancements for marine species. This effort would enable future generations to enjoy firsthand the natural phenomena of the River of Birds by migratory Sooty Shearwaters and the nursery area found to be important for juvenile White Sharks by protecting the basis of the food web in this ecosystem.

Thank you for considering this proposed designation.

Sincerely,



Hannah Nevins, M.S. MSc., Seabird Biologist and Ecologist, Santa Cruz, CA

Figure 1. Shearwaters feed on small schooling fishes including anchovies in nearshore waters of northern Monterey Bay. (Photo: Ingrid Taylor, New Brighton Beach, CA)

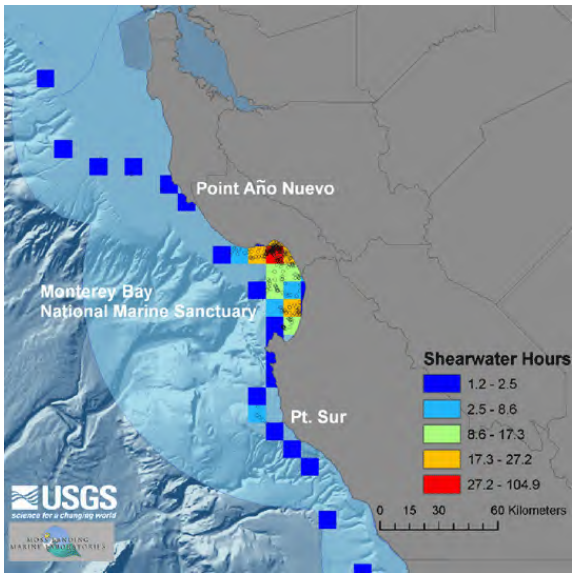


Figure 2. Satellite tracking of migratory Sooty Shearwaters indicate the valuable feeding area in northern Monterey Bay (red area). Northern area is proposed is for greater protection of forage fish important to migratory seabirds and sharks. (Data: USGS/MLML)

Figure 3. Soquel Cove is locally known as the "Shark Park." Passengers on a shark-watching tour based from Santa Cruz check out an approaching great white shark in the sandy bottom habitat off Seacliff Beach in northern Monterey Bay, CA. (Photo Kevin Painchard/Lookout Santa Cruz)

California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

November 30th, 2023

Re: Petition to Modify CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests; Petition to Increase Level of Protection and Streamline Enforcement for Several California State MPAs

Dear President Sklar and Honorable Commissioners,

As scientists, researchers, and educators who work to understand our changing oceans and inspire the next generation of ocean stewards, we write to express our support for the expansion and strengthening of California's network of Marine Protected Areas (MPAs) to help safeguard the state's diverse marine ecosystems and ensure the long-term resilience of our ocean habitats.

Globally, the ocean is at a critical juncture, with escalating global temperatures, declining biodiversity, and a growing number of endangered marine species. California's coastal ecosystems have not been spared these global trends: Northern California has lost more than 95% of its kelp forests since 2014, and kelp forests statewide have experienced declines over the past decade.[1] Only an average of 55 Pacific leatherback turtles are now found foraging off California's coast every year, a notable decrease from the yearly average of 128 Pacific leatherbacks observed in the region from 1990 to 2003.[2] Marine heatwaves have doubled over the last 30 years and have become more intense and longer in duration, putting stress on California's marine species and ecosystems.[3]

Now, California has a unique opportunity to take bold, effective and science-based action to conserve its marine biodiversity by expanding its groundbreaking network of state MPAs. MPAs, like state parks on land, protect unique and important ocean habitats from destructive human activities that can damage the integrity of marine ecosystems. Globally and in California, strongly protected and well-enforced MPAs have been shown to be highly effective in conserving biodiversity, enhancing ecosystem resilience, and mitigating the impacts of climate

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[1] Meredith McPherson et. al, Large-scale shift in the structure of a kelp forest ecosystem co-occurs with an epizootic and marine heatwave, Communications Biology, March 5, 2021
[2] Benson, Scott R., Karin A. Forney, Jeffrey E. Moore, Erin L. LaCasella, James T. Harvey, and James V. Carretta. "A Long-Term Decline in the Abundance of Endangered Leatherback Turtles, Dermochelys Coriacea, at a Foraging Ground in the California Current Ecosystem." *Global Ecology and Conservation* 24 November 2020.
[3] IPCC (2021). Summary for Policymakers. In: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [Masson-Delmotte VP, Zhai A, Pirani SL, Connors C, Péan S, et al. (Eds.)].;

change on our oceans.[4] Well-designed and well-implemented reserves better preserve natural interactions within ecosystems, allowing for greater resiliency in the face of rising global temperatures and changing environmental conditions.[5]

California's network of MPAs, established through the 1999 Marine Life Protection Act, celebrated its tenth anniversary last year. The state's recent Decadal Management Review (DMR) analyzed a decade of monitoring data and showed that the MPA network has generally been effective at protecting ocean habitats and increasing fisheries-targeted species' biomass.[6] Now, in the face of increasing threats, we need to build on this system and maintain California's role as a national and global leader in the effort to protect our ocean habitats.

That's why we, as scientists, researchers, and educators, urge you to expand and strengthen our state's network of MPAs via the adaptive management process of the DMR.

Specifically, we support the expansion of the MPA network to include additional protections for California's most resilient kelp forests. While these vital and iconic ecosystems have faced declines statewide in recent years, kelp forests in some areas have persisted or bounced back quickly in the face of marine heatwaves and other disturbances.[7] By expanding protections for these resilient forests under the MLPA, the state can minimize direct human impacts in these relatively healthy areas, helping to ensure their continued persistence and enhancing the effectiveness of restoration efforts for declining kelp ecosystems nearby. Globally, kelp restoration has been most successful in places adjacent to/contiguous with healthy kelp forest ecosystems. [8]

It is also vital that existing California MPAs are able to achieve their stated goals of conserving biodiversity and ecosystem health. We encourage the state to consider increasing protections for MPAs that are currently only lightly or minimally protected, especially in places where weaker or more complicated regulations lead to poor compliance and enforcement. Research has shown that highly and fully protected areas, where few if any destructive or extractive activities are allowed, provide greater ecological benefits than lightly or minimally protected areas.[9] The

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[4] James Horrox, Kelsey Lamp and Steve Blackledge. New Life for the Ocean: How Marine Protections Keep Our Waters Wild. Environment America Research & Policy Center & Frontier Group, February 3, 2021

[5] Kirsten Grorud-Colvert *et al.*, The MPA Guide: A framework to achieve global goals for the ocean. *Science* **373** ,eabf0861(2021). DOI:10.1126/science.abf0861

[6] California Department of Fish and Wildlife. (2022). California's Marine Protected Area Network Decadal Management Review.;

[7] Arafeh-Dalmau et al., Integrating climate adaptation and transboundary management: Guidelines for designing climate smart marine protected areas, One Earth 6, 1–19 November 17, 2023 ª 2023 Published by Elsevier Inc.

[8] Eger, A.M., Marzinelli, E.M., Christie, H., Fagerli, C.W., Fujita, D., Gonzalez, A.P., Hong, S.W., Kim, J.H., Lee, L.C., McHugh, T.A., Nishihara, G.N., Tatsumi, M., Steinberg, P.D. and Vergés, A. (2022), Global kelp forest restoration: past lessons, present status, and future directions. Biol Rev, 97: 1449-1475.

[9] Kirsten Grorud-Colvert *et al.*, The MPA Guide: A framework to achieve global goals for the ocean. *Science* **373** ,eabf0861(2021). DOI:10.1126/science.abf0861

state's network currently protects 12% of state waters in highly- or fully-protected MPAs, as defined by Grorud-Colvert et al. (2021), which leaves 4% of the network lacking the most effective conservation protections.[10] By expanding the level of protection to areas already identified as ecologically important, we can ensure that the area's vulnerable marine resources have the chance to recover and flourish.

Our ocean is not just a source of clean air, wildlife, and natural beauty but also a mystery that beckons exploration and discovery. It is our moral imperative to lead the nation and the world in taking bold actions to preserve the sea, ensuring its future and the well-being of the communities that rely on it for their survival and prosperity.

President Sklar and Honorable Commissioners, you have a chance to take up this imperative and champion the expansion and strengthening of California's network of Marine Protected Areas. By doing so, you will leave a lasting legacy of marine stewardship that will keep California at the forefront of ocean conservation, nationally and globally.

Thank you for your unwavering commitment to the welfare of our ocean and for considering this urgent matter. Together, we can ensure a healthier, more abundant future for the unique marine ecosystems that define California.

Sincerely,

Michael Akresh
Faculty
Antioch University

Alice Alldredge
Professor Emeritus
University of California, Santa Barbara

Steven Allison
Professor
University of California, Irvine

Anupa Asokan
Ocean advocate

Peter Auster
Senior Research Scientist & Research Professor Emeritus
Mystic Aquarium & University of Connecticut

Nevé Baker
PhD Candidate
University of California Santa Cruz

Leocadio Blanco Bercial
Assistant Professor
Arizona State University - Bermuda Institute of Ocean Sciences

Bailey Drechsler
Professor
Cuesta College

[10] Kirsten Grorud-Colvert *et al.*, The MPA Guide: A framework to achieve global goals for the ocean. *Science* **373** ,0861(2021). DOI:10.1126/science.abf0861

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Postdoctoral Scholar
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Rikki Eriksen
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Assembly
California Legislature

DAWN ADDIS
ASSEMBLYMEMBER, THIRTIETH DISTRICT

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VICE CHAIR: JOINT COMMITTEE ON FISHERIES AND AQUACULTURE

California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

November 28th, 2023

Re: Strengthening and Expanding California's Marine Protected Area Network

Dear President Sklar and Honorable Commissioners,

As an Assemblymember and advocate for the health and vitality of California's coastal ecosystems, I write to express my support for the expansion of the state's network of Marine Protected Areas (MPAs) to include the expansion and strengthening of Point Buchon SMCA and Natural Bridges SMR. Protecting specific habitat areas, including the remaining areas of stable kelp forests, and increasing the rigor of existing marine protected areas are crucial steps in safeguarding our diverse marine species and ensuring the long-term well-being of the ecosystems off our shores.

The state of our ocean is at a critical juncture, with escalating global temperatures, declining biodiversity, and a growing number of endangered marine species. Northern California has lost more than 95% of its kelp forests since 2014, and kelp forests statewide have experienced declines over the past decade.[1] Pollution, overfishing, offshore drilling and other human activities are threatening ocean habitat and marine species, while the changing climate increases the risk of extreme weather events and puts even greater stress on ocean ecosystems.[2] [3]

In the face of these mounting threats, California has a unique opportunity to take bold and effective action to conserve ocean habitats and ensure a greater abundance of life off our coast. Over two decades ago, the state passed the groundbreaking Marine Life Protection Act (MLPA), which called on the state to use one of the most powerful tools for ocean conservation: marine protected areas (MPAs).

[1] Meredith McPherson et. al, Large-scale shift in the structure of a kelp forest ecosystem co-occurs with an epizootic and marine heatwave, Communications Biology, March 5, 2021
[2] James Horrox, Steve Blackledge and Kelsey Lamp, "New Life for the Ocean: How marine protections keep our waters wild," Environment America Research and Policy Center & Frontier Group, February 2021.
[3] Arafeh-Dalmau et al., Integrating climate adaptation and transboundary management: Guidelines for designing climate smart marine protected areas, One Earth 6, 1–19 November 17, 2023 ª 2023 Published

by Elsevier Inc.

MPAs, like state parks on land, protect unique and important ocean habitats from activities that can damage ocean life. Areas that are strongly protected have been shown to be highly effective in conserving biodiversity, enhancing ecosystem resilience, and mitigating the impacts of climate change on our oceans.[4] California's network of MPAs, foreseen in the MLPA, celebrated its tenth-anniversary last year, and the state's decadal management review showed that marine life in existing reserves better withstood recent marine heatwaves, and reserves across the state had higher biomass of commercially caught fish than areas lacking protection.[5] Now, we need to build on this system and maintain California's role as a leader, both nationally and globally, in the fight to protect more ocean habitats.

That's why I urge you to expand our state's network of MPAs within the adaptive management process of the Decadal Management Review. In particular, I am writing in support of the strengthening and expansion of Point Buchon SMCA and Natural Bridges SMR off the coast of my community.

We, as Californians, have a deep love for our ocean and feel a profound responsibility to participate in decisions that impact our state's coastal waters. Our ocean is not just a source of clean air, wildlife, and natural beauty but also a mystery that beckons exploration and discovery. It is our moral imperative to lead the nation and the world in taking bold actions to preserve the sea in our own backyard, ensuring its future and the well-being of the communities that rely on it for their survival and prosperity.

In conclusion, we strongly urge you, Honorable Commissioners, to expand California's MPA network to encompass areas of persistent kelp, with a particular focus on safeguarding the strengthening and expansion of Point Buchon SMCA and Natural Bridges SMR.

Thank you for your unwavering commitment to the welfare of our ocean and for considering this proposal.

Sincerely,

DAWN ADDIS
Assemblymember, 30th District

[4] James Horrox, Steve Blackledge and Kelsey Lamp, "New Life for the Ocean: How marine protections keep our waters wild," Environment America Research and Policy Center & Frontier Group, February 2021.
[5] California Department of Fish and Wildlife. California's Marine Protected Area Network Decadal Management Review. 2022.

CITY OF SANTA CRUZ

MAYOR AND CITY COUNCIL

809 Center Street, Room 10, Santa Cruz, CA 95060 • (831) 420-5020 • Fax: (831) 420-5011 • citycouncil@cityofsantacruz.com

November 30, 2023

California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

RE: Petition to Modify the CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests

Dear President Sklar and Honorable Commissioners:

As a mayor and advocate for the health and vitality of California's coastal ecosystems, I write to express my unwavering support for the expansion of the State's network of Marine Protected Areas (MPAs), including the expansion of Natural Bridges SMR and the implementation of a new MPA at Pleasure Point. Protecting specific habitat areas, including the remaining areas of stable kelp forests, and increasing the rigor of existing marine protected areas are crucial steps in safeguarding our diverse marine species and ensuring the long-term well-being of the ecosystems off our shores.

The state of our ocean is at a critical juncture, with escalating global temperatures, declining biodiversity, and a growing number of endangered marine species. Northern California has lost more than 95% of its kelp forests since 2014, and kelp forests statewide have experienced declines over the past decade.[1] Pollution, overfishing, offshore drilling, and other human activities are threatening ocean habitats and marine species, while the changing climate increases the risk of extreme weather events and puts even greater stress on ocean ecosystems.[2] [3]

In the face of these mounting threats, California has a unique opportunity to take bold and effective action to conserve ocean habitats and ensure a greater abundance of life off our coast. Over two decades ago, the State passed the groundbreaking Marine Life Protection Act (MLPA), which called on the State to use one of the most powerful tools for ocean conservation: MPAs.

MPAs, like state parks on land, protect unique and important ocean habitats from activities that can damage ocean life. Areas that are strongly protected have been shown to be highly effective in conserving biodiversity, enhancing ecosystem resilience, and mitigating the impacts of climate change on our oceans.[4]

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[1] Meredith McPherson et. al, [illegible], Communications Biology, March 5, 2021.
[2] James Horrox, Steve Blackledge and Kelsey Lamp, "[illegible]," Environment America Research and Policy Center & Frontier Group, February 2021.
[3] Arafeh-Dalmau et al., [illegible], One Earth 6, 1–19 November 17, 2023 ª 2023 Published by Elsevier Inc.
[4] James Horrox, Steve Blackledge and Kelsey Lamp, "[illegible]," Environment America Research and Policy Center & Frontier Group, February 2021.

California's network of MPAs, foreseen in the MLPA, celebrated its tenth anniversary last year, and the State's decadal management review showed that marine life in existing reserves better withstood recent marine heatwaves, and reserves across the State had higher biomass of commercially caught fish than areas lacking protection.[5]

Now, we need to build on this system and maintain California's role as a leader, both nationally and globally, in the fight to protect more ocean habitats.

That is why I urge you to expand our State's network of MPAs within the adaptive management process of the Decadal Management Review. In particular, I am writing in support of the expansion of the Natural Bridges SMR and the implementation of a new MPA at Pleasure Point off the coast of my community, Santa Cruz.

As the author of the Marine Life Management Act and the Marine Life Protection Act, I am fully supportive of Environment California's request for additional marine protected areas. When I was Speaker pro tempore of the California Assembly (1996–2002), I was deeply involved in this subject. In my last year, I also authored the California Ocean Trust Act, which created the California Ocean Science Trust (Cal-OST). Cal-OST has written extensively about the successes within the MPAs, and more would be a very good idea.

We, as Californians, have a deep love for our ocean and feel a profound responsibility to participate in decisions that impact our State's coastal waters. Our ocean is not just a source of clean air, wildlife, and natural beauty but also a mystery that beckons exploration and discovery. It is our moral imperative to lead the nation and the world in taking bold actions to preserve the sea in our own backyard, ensuring its future and the well-being of the communities that rely on it for their survival and prosperity.

In conclusion, we strongly urge you, Honorable Commissioners, to expand California's MPA network to encompass areas of persistent kelp, with a particular focus on safeguarding Natural Bridges State Marine Reserve and implementing a new MPA at Pleasure Point. By doing so, you will leave a lasting legacy of environmental stewardship.

Thank you for your unwavering commitment to the welfare of our ocean and for considering this proposal. Together, we can ensure a healthier, more abundant future for the unique marine ecosystems that define California.

Sincerely,

Fred Keeley
Mayor

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[5] California Department of Fish and Wildlife, California's Marine Protected Area Network Decadal Management Review, 2022.

California Fish and Game Commission
715 P Street, 16th floor,
Sacramento, CA 95814

November 30th, 2023

RE: Petition to Modify CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests

Dear President Sklar and Honorable Commissioners:

Northern California has lost more than 95% of its kelp forests since 2014, and kelp forests statewide have experienced declines over the past decade.[1] California sea otters are still listed as threatened under the Endangered Species Act, and one of the biggest barriers to this species' recovery and range expansion is increased shark bites from a lack of kelp forest cover. Marine

[1] Meredith McPherson et. al, Large-scale shift in the structure of a kelp forest ecosystem co-occurs with an epizootic and marine heatwave, Communications Biology, March 5, 2021

heatwaves have doubled over the last 30 years, and have become more intense and longer in duration, putting stress on California's marine species and ecosystems.[2]

In the face of these mounting threats, California has a unique opportunity to take bold and effective action to conserve ocean habitats and ensure a greater abundance of life off our coast. Over two decades ago, the state passed the groundbreaking Marine Life Protection Act (MLPA), which called on the state to use one of the most powerful tools for ocean conservation: marine protected areas (MPAs).

MPAs, like state parks on land, protect unique and important ocean habitats from activities that can damage ocean life. Areas that are strongly protected have been shown to be highly effective in conserving biodiversity, enhancing ecosystem resilience, and mitigating the impacts of climate change on our oceans.[3] By providing areas that serve as buffers against climate change, fully protected MPAs adapt to changing environmental conditions because they better preserve natural interactions within ecosystems, allowing for greater resiliency .[4]

California's network of MPAs, foreseen in the MLPA, celebrated its tenth anniversary last year, and the state's decadal management review showed that MPAs effectively protect ocean habitats and increase fishery-targeted species' biomass. Now, we need to build on this system and maintain California's role as a national and global leader in the fight to protect more ocean habitats.

Protecting specific habitat areas, including the remaining areas of stable kelp forests is a crucial step in safeguarding our diverse marine species and ensuring the long-term well-being of our ocean environments.

We support the expansion of the MPA Network to include some of the most resilient kelp forests along California's coastline, by expanding Cabrillo State Marine Reserve, Point Dume State Marine Conservation Area, South Point State Marine Reserve, Gull Island State Marine Reserve, Point Conception State Marine Reserve, Natural Bridges State Marine Reserve, and by creating a new MPA around the beautiful kelp forest off Pleasure Point near Santa Cruz. While kelp forests have faced declines statewide in recent years, in these areas they have persisted or bounced back quickly in the face of marine heatwaves and other disturbances.[5] By expanding protections for

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[2] García-Reyes, Marisol, Andrew Leising, Rebecca Asch, Steven Bograd, and Tessa M Hill. Rep. Indicators of Climate Change in California, "Coastal Ocean Temperature", *California Office of Environmental Health Hazard Assessment,* 2022.

[3] Arafeh-Dalmau et al., Integrating climate adaptation and transboundary management: Guidelines for designing climate smart marine protected areas, One Earth 6, 1–19 November 17, 2023 ª 2023 Published by Elsevier Inc.

[4] Jankowska, Emilia, et al. "Climate Benefits from Establishing Marine Protected Areas Targeted at Blue Carbon Solutions." *Proceedings of the National Academy of Sciences*, vol. 119, no. 23, 2022.

[5] California Department of Fish and Wildlife. (2022). California's Marine Protected Area Network Decadal Management Review.

these resilient forests under the MLPA, the state can minimize direct human impacts in these relatively healthy areas, helping to ensure their continued persistence and enhancing the effectiveness of restoration efforts for declining kelp ecosystems nearby.

Enhancing the protection of California's kelp forests strongly aligns with Goals 1, 2, 3, and 4 of the MLPA by preserving natural diversity, sustaining marine life populations, protecting marine habitats for their intrinsic value, and improving recreational and educational opportunities while minimizing human disturbance. [6] Safeguarding resilient kelp ecosystems will ensure critical habitat preservation for diverse marine species, including endangered sea otters and commercially valuable fish.

Our ocean is a source of clean air, wildlife, and natural beauty, but also a mystery that beckons preservation and exploration. California has the opportunity to lead the nation and the world in taking bold action to preserve the sea, ensuring its future and the well-being of the communities that rely on it for their survival and prosperity.

Sincerely,

Laura Deehan
State Director
Environment California Research and Policy Center

Tomas Valadez
CA Policy Associate
Azul

Robert Vergara
Roger Arliner Young (RAY) Ocean Conservation Fellow
Natural Resources Defense Council

Clara Castronovo
Board Chair
CALPIRG Students

Keith Shattenkirk
Program Officer, Healthy Lands and Waters
Patagonia

[6] "Marine Life Protection Act." CDFW. https://wildlife.ca.gov/Conservation/Marine/MPAs/MLPA.

Susan Jordan
Executive Director
California Coastal Protection Network

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California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

November 29, 2023

Re: Petition to Modify CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests; Petition to Increase Level of Protection and Streamline Enforcement for Several California State MPAs

Dear President Sklar and Honorable Commissioners,

Environmental Action was founded in 1970, on the first Earth Day, as a community of grassroots environmental activists working for a cleaner, greener world. We are submitting the following 2,487 signatures in support of Environment California Research & Policy Center's petitions for rulemaking in the state's adaptive management process for the California Marine Protected Area network.

Each of the 2,487 people signed the following letter:

> *Dear Governor Newsom,*
>
> *Sea otters bobbing in the surf. Whales diving deep to feed. Seabirds flying above. Our state's coastline is home to wildlife, large and small. As Californians, we've taken steps to protect this ocean heritage by creating a network of marine protected areas that, just like state parks on land, help protect and restore ocean life.*
>
> *I urge you to strengthen this network through the Decadal Management Review in line with your important goal of protecting 30 percent of our state waters by 2030. Specifically, I urge you to expand the network to protect the state's last remaining kelp forests, critical homes to fish and sea otters, and to strengthen existing areas that don't yet provide high levels of protection to ocean life.*
>
> *With your support, California can expand this network of ocean parks to create a brighter future for the ocean life that calls our state home, and hopefully inspire others across the country and around the world to follow our lead.*
>
> *Sincerely,*

As a group that works to protect our most amazing and at risk wildlife across the country, we know that preserving and restoring habitats will be critical to seeing our ocean life thrive. Whether it's a return of sea otters to more of the coastline or more abundant seabirds flying above our heads, expanding and strengthening California's network of marine protected areas will create a more hopeful future for the wild animals that call the state's coastline home.

But the decisions made on California's coast will not only impact the state's wildlife: as with many environmental issues, California's actions here have the potential to reverberate far and wide. If the state acts with ambition during this adaptive management process to fulfill the state's 30 by 30 commitment, it can set the national standard for ocean conservation, leading the country and the globe forward to a better future for our oceans.

Sincerely,

Patrick Kelly-Fischer

Patrick Kelly-Fischer
Board Member
Environmental Action

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CALPIRG Students

California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

November 29, 2023

Re: Petition to Modify CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests; Petition to Increase Level of Protection and Streamline Enforcement for Several California State MPAs

Dear President Sklar and Honorable Commissioners,

CALPIRG Students is a statewide, student-run, and student-funded organization that works to protect the environment, make college affordable, and promote civic engagement. We have over 20,000 dues-paying members across the UC system and have been on campus for almost 50 years advocating for students on issues that students care about most. As part of our ongoing efforts to win better protections for California's ocean, we are submitting 214 signatures from our supporters on campuses across the state in support of Environment California Research & Policy's petitions for rulemaking in the state's adaptive management process for the California marine protected area network.

Each of the 214 people signed the following letter:

> *To: Governor Gavin Newsom*
>
> *Sea otters bobbing in the surf. Whales diving deep to feed. Seabirds flying above. Our state's coastline is home to wildlife, large and small. As students and young people, we are proud to live in a state that has taken steps to protect this ocean heritage for future generations. California's network of marine protected areas are places that, just like state parks on land, help protect and restore ocean life.*
>
> *I urge you to strengthen this network through the Decadal Management Review in line with your important goal of protecting 30 percent of our state waters by 2030. Specifically, I urge you to expand the network to protect the state's last remaining kelp forests, critical homes to fish and sea otters, and to strengthen existing areas that don't yet provide high levels of protection to ocean life.*
>
> *With your support, California can expand this network of ocean parks to create a brighter future for the ocean life that calls our state home, and hopefully inspire others across the country and around the world to follow our lead.*

As young people, we are working everyday to tackle the most pressing problems facing our ocean, our climate and our communities. That's why we are heartened to see state leaders like

CALPIRG Students

Governor Newsom and the state legislature set bold and ambitious goals to protect more of our coastline.

But goals need to be followed by action to ensure the future health and abundance of our ocean wildlife and wild places. That's why our student members have been campaigning for better ocean protections, and why we are excited to have this opportunity in the Decadal Management Review to push our state's groundbreaking network of MPAs forward. An expanded, strengthened network will make our coasts more resilient in the face of climate change and give our ocean life a chance to thrive.

Thank you for this opportunity, and we look forward to working with you to continue to create a better future for California's coasts.

Sincerely,

Clara Castronovo
State Board Chair
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California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

November 28th, 2023

Re: Petition to Modify CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests; Petition to Increase Level of Protection and Streamline Enforcement for Several California State MPAs

Dear President Sklar and Honorable Commissioners,

In solidarity with the shared responsibility for the well-being of our planet, particularly the oceans and coastlines we hold dear, we are reaching out as college students to express our firm support for the amplification and extension of California's Marine Protected Area (MPA) network. Understanding the critical importance of maintaining stable kelp ecosystems and safeguarding conserved ocean areas, we are committed to ensuring the prolonged vitality of our oceans and the myriad marine species that inhabit them.

The state of our ocean is at a critical juncture, with escalating global temperatures, declining biodiversity, and a growing number of endangered marine species. Northern California has lost more than 95% of its kelp forests since 2014, and kelp forests statewide have experienced declines over the past decade.[1] Only 50 Pacific leatherback turtles are now found foraging off California's coast, a notable decrease from the 178 Pacific leatherbacks observed from 1990 to 2003.[2] Marine heatwaves have doubled over the last 30 years, and have become more intense and longer in duration, putting stress on California's marine species and ecosystems. [3]

In the face of these mounting threats, California has a unique opportunity to take bold and effective action to conserve ocean habitats and ensure a greater abundance of life off our coast. Over two decades ago, the state passed the groundbreaking Marine Life Protection Act (MLPA), which called on the state to use one of the most powerful tools for ocean conservation: marine protected areas (MPAs).

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[1] Meredith McPherson et. al, Large-scale shift in the structure of a kelp forest ecosystem co-occurs with an epizootic and marine heatwave, Communications Biology, March 5, 2021

[2] Benson, Scott R., Karin A. Forney, Jeffrey E. Moore, Erin L. LaCasella, James T. Harvey, and James V. Carretta. "A Long-Term Decline in the Abundance of Endangered Leatherback Turtles, Dermochelys Coriacea, at a Foraging Ground in the California Current Ecosystem." *Global Ecology and Conservation* 24 (November 2020).

[3] García-Reyes, Marisol, Andrew Leising, Rebecca Asch, Steven Bograd, and Tessa M Hill. Rep. Indicators of Climate Change in California, "Coastal Ocean Temperature", *California Office of Environmental Health Hazard Assessment,* 2022.

MPAs, like state parks on land, protect unique and important ocean habitats from activities that can damage ocean life. Areas that are strongly protected have been shown to be highly effective in conserving biodiversity, enhancing ecosystem resilience, and mitigating the impacts of climate change on our oceans.[4] By providing areas that serve as buffers against climate change, fully protected MPAs adapt to changing environmental conditions because they better preserve natural interactions within ecosystems, allowing for greater resiliency.[5]

California's network of MPAs, foreseen in the MLPA, celebrated its tenth anniversary last year, and the state's Decadal Management Review (DMR) showed that MPAs effectively protect ocean habitats and increase fishery-targeted species' biomass. The DMR found that the older the MPA, the larger the increase in the biomass of fished species. Some ecological communities like kelp forests and rocky intertidal ecosystems within MPAs appeared more resilient and recovered more quickly after marine heatwaves than similar habitats outside MPAs.[6] Now, we need to build on this system and maintain California's role as a national and global leader in the fight to protect more ocean habitats.

We support the expansion of the MPA Network to include critical, resilient kelp forests along California's coastline. While these vital and iconic ecosystems have faced declines statewide in recent years, kelp forests in some areas have persisted or bounced back quickly in the face of marine heatwaves and other disturbances.[7] By expanding protections for these resilient forests under the MLPA, the state can minimize direct human impacts in these relatively healthy areas, helping to ensure their continued persistence and enhancing the effectiveness of restoration efforts for declining kelp ecosystems nearby.

It is also vital that existing California MPAs are able to achieve their stated goals of conserving biodiversity and ecosystem health. We encourage the state to consider increasing protections for MPAs that are currently only lightly or minimally protected, especially in places where weaker or more complicated regulations lead to poor compliance and enforcement. Research has shown that highly and fully protected areas, where few if any destructive or extractive activities are allowed, provide greater ecological benefits than lightly or minimally protected areas.[8]

As college students, we keenly feel the urgency to address the environmental crises, particularly along California's coast. Having grown up witnessing the impacts of climate change, it's clear

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[4] Arafeh-Dalmau et al., Integrating climate adaptation and transboundary management: Guidelines for designing climate smart marine protected areas, One Earth 6, 1–19 November 17, 2023 ª 2023 Published by Elsevier Inc.
[5] Jankowska, Emilia, et al. "Climate Benefits from Establishing Marine Protected Areas Targeted at Blue Carbon Solutions." *Proceedings of the National Academy of Sciences*, vol. 119, no. 23, 2022.
[6] California Department of Fish and Wildlife. (2022). California's Marine Protected Area Network Decadal Management Review.
[7] California Department of Fish and Wildlife. (2022). California's Marine Protected Area Network Decadal Management Review.
[8] Ibid Kirsten Grorud-Colvert *et al.*, The MPA Guide: A framework to achieve global goals for the ocean. *Science* **373** ,eabf0861(2021). DOI:10.1126/science.abf0861

that action is needed to limit harm to the environment. That's why we urge the Fish and Game Commission to make significant changes in preserving and protecting our vast ocean habitats, ensuring a meaningful and lasting impact for generations to come.

Our ocean is not just a provider of fresh air, diverse wildlife, and breathtaking scenery; it's also an enigma that calls us to explore and uncover its secrets. As college students, we believe it's our duty to be at the forefront of national and global efforts, taking bold steps to safeguard the ocean. This commitment ensures its future and the welfare of communities dependent on it for survival and prosperity.

In conclusion, we strongly urge you, Fish and Game Commissioners, to champion the expansion and fortification of California's network of Marine Protected Areas, with a particular focus on safeguarding kelp forests and reinforcing the protection of existing MPAs. By doing so, you will leave a lasting legacy of environmental stewardship.

Thank you for your unwavering commitment to the welfare of our ocean and for considering this urgent matter. Together, we can ensure a healthier, more abundant future for the unique marine ecosystems that define California.

Sincerely,

Clara Castronovo
Board Chair
CALPIRG Students

Brandi Sanchez
President
Ecology Behavior and Evolution Club at UC San Diego

Brandi Sanchez
President
Pollinator Club at UC San Diego

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California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

November 30th, 2023

Re: Petition to Modify CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests; Petition to Increase Level of Protection and Streamline Enforcement for Several California State MPAs

Dear President Sklar and Honorable Commissioners,

From the foothills of the Sierras to the seaside of the Central Coast, Californians care about our ocean and the life that calls it home. That's why we are submitting the attached 7,549 signatures in support of our petitions for rulemaking in the Decadal Management Review adaptive management process.

Each of the 7,549 people signed the following letter:

> *Dear Governor Newsom,*
>
> *California's coastline is home to stunning beaches, amazing wildlife, and is a true treasure for everyone who lives in or visits our state. That's why we've invested in protecting this ocean heritage through the creation of our state network of marine protected areas. Just like state parks on land, these areas help protect and restore ocean life.*
>
> *Now we have an opportunity to strengthen this network through the Decadal Management Review. I urge you to use this process to advance your important goal of protecting 30% of our state waters by 2030. Specifically, I urge you to expand the network to protect the state's last remaining kelp forests, critical homes to fish and sea otters, and to strengthen existing areas that don't yet provide high levels of protection for ocean life.*
>
> *With your leadership, California can expand this network of ocean parks to create a brighter future for our state's ocean life and continue to lead the country in ocean conservation.*
>
> *Sincerely,*

By expanding the state's MPA network to better protect areas of stable kelp and by strengthening protections for areas not currently achieving their conservation outcomes due to weak or confusing regulations, the state can help our coasts adapt and thrive in the face of rising temperatures and emerging threats.

With your leadership, we can create a better future for California's coastal ecosystems and the wildlife that calls them home.

Sincerely,

Laura Deehan
Director
Environment California
Environment California Research & Policy Center

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California Fish and Game Commission

Compilation of Public Comments on Petition 2023-33MPA_AM1

This PDF file compiles public comments that were included as exhibits in meeting materials and supplemental handouts for Commission and Marine Resources Committee (MRC) meetings since November 2023. Additional exhibits and supplemental handouts will be added after each Commission meeting, including those received by the public comment deadline, until the Commission takes final action on the petition.

Note: Commission meeting materials include a representative selection of comments, rather than a comprehensive suite of all related comments received. Given the large volume of public comments received, the Commission has directed staff to summarize comments and provide a representative selection in meeting materials to reflect the range of perspectives shared. Commissioners are able to review a diversity of perspectives while still having access to all individual comments submitted, which are part of the Commission's administrative record. Members of the public may contact staff for access to any written comments not included in this document.

Last updated: through April 21, 2026 FGC

EASY GUIDE TO USING THE PACKET

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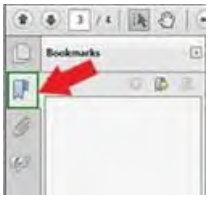

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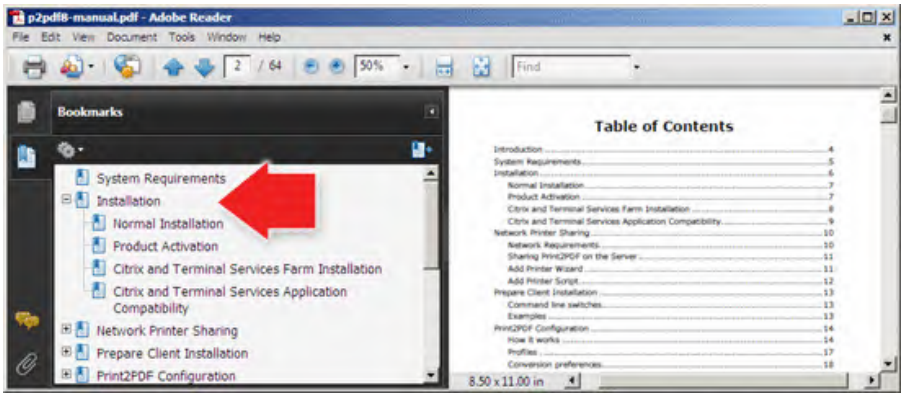

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7. Do not hesitate to contact staff if you have any questions or would like assistance.

From: Doug Bush <[redacted]>
Sent: Friday, January 26, 2024 10:48 AM
To: Wildlife Kelp <[redacted]>
Cc: FGC <FGC@fgc.ca.gov>
Subject: 2023-33MPA

Please be aware that there is a petition for consideration in the Feb FGC meeting 2023-33MPA to expand existing MPAs in several locations on the CA coast for the explicit purpose of kelp forest habitat preservation. The economic impacts considered in the application do not make any consideration of kelp harvest. Specifically, expansion of the Pt Conception SMR is proposed for 14.6 sq miles to the east. This proposed area has historically been used for harvest and is presently included in our FGC approved mechanical kelp harvesting plan.

This bed is a key element of our kelp harvesting security and contingency and including this area in an expanded SMR would have a significant negative effect on our operations.

Please ensure that this information is included in the binder and should require that this petition cannot proceed without further consideration by affected stakeholders.

_____

douglas bush
managing member/gm
the cultured abalone farm, llc
c. [redacted]

THE CULTURED ABALONE FARM
Santa Barbara, California

From: Aubrie Fowler <[redacted]>
Sent: Wednesday, January 31, 2024 5:12 PM
To: FGC <FGC@fgc.ca.gov>; Ashcraft, Susan@FGC <[redacted]>
Cc: Calla Allison <[redacted]>; Claire Arre <[redacted]>; Jamie Blatter <[redacted]>
Subject: FGC Meeting Binder Submission

Hi Susan and Commission staff,

Please see the attached exhibit (saved as a PDF and Excel sheet, whichever formatting is preferred) to please be added to the meeting binder for the February Fish and Game Commission meeting on 2/14-2/15/2024.

The link to the Google sheet can be found **here** as well; this was the format that the MPA Collaborative Vetted Regulation Recommendations was previously shared with Commission and Department staff.

Please let me know if there's more context you need from me.

Thank you,
Aubrie

Aubrie Fowler (she/her)
South Coast Specialist
MPA Collaborative Network
cell: [redacted]
Sign-up for our Quarterly Newsletter
Find and join your local Collaborative

County	MPA	Current Regs Summarized	Compliance concerns and/or management problem identified	Regulation Recommendation for Adaptive Management	Consensus?	Justification	Supporting Management Suggestion	Petitioner Lead	Contact Information	Recommendation Category	Designation Change?
Del Norte	Pyramid Point SMCA	Rec take of surf smelt by dip net or Hawaiian type throw net. Tolowa Dee-ni' exempt	Onshore and offshore hook and line fishing, collecting sand crabs as bait, kayak fishers, violations from boaters registered in both CA and OR	Remove allowance for surf smelt by dip net or Hawaiian type throw net; Change to No-Take SMCA with Tribal exemption for Tolowa Dee-ni'	Yes	Smelt is culturally important species to Tolowa and No Take designation will be clearer to public, reducing violations	Signs being vandalized, ripped out. Outreach to gain compliance needed (Guardian Watchmen)	Tolowa Dee-ni' Nation	rosa.laucci@tolowa.com	Take Allowance Change	Yes, from SMCA to No-Take SMCA with Tribal exemption
Del Norte	Pyramid Point SMCA	Rec take of surf smelt by dip net or Hawaiian type throw net. Tolowa Dee-ni' exempt	Elk Valley Rancheria is interested in exploring the possibility of being included in exempt status	Add Elk Valley Rancheria to exempt Tribes if requested by Tribal Council	Yes	Elk Valley Rancheria has ancestral ties to the area				Take Allowance Change	
Del Norte	Pyramid Point SMCA	Rec take of surf smelt by dip net or Hawaiian type throw net. Tolowa Dee-ni' exempt	Boundary is in Oregon	Change northern boundary to align with recognized California/Oregon state line	Yes	Original boundary used a mapping system that does not align with on-the-ground state line.		Tolowa Dee-ni' Nation	rosa.laucci@tolowa.com	Boundary Change	
Del Norte	Point St. George Offshore Reef SMCA	Rec take of salmon by trolling and Dungeness crab by trap. Commercial take of salmon with troll fishing gear and Dungeness crab by trap. Elk Valley and Tolowa Dee-ni' exempt		No change	Yes						
Del Norte	Sea Lion Rock Special Closure	300'	No data	No change	Yes						
Del Norte	Castle Rock Special Closure	300'	Poke poling at Preston Island and Battery Point and Hook Finger Point during extremely low tides. Kayaks near closure	No change	Yes						
Del Norte	False Klamath Rock Special Closure	300' from 3/1-8/31	Low flyovers by US Coast Guard helicopter. Kayaks near closure, kaking kelp. Dogs off leash	No change	Yes		Signs needed at Wilson Creek. Potential site for CoastSnap to crowdsource changes around rock				
Humboldt	Reading Rock SMCA	Rec take of salmon by trolling; surf smelt by dip net or Hawaiian type throw net; Dungeness crab by trap, hoop net or hand. Commercial take of salmon with troll fishing gear; surf smelt by dip net; Dungeness crab by trap. Trinidad, Resighini and Yurok exempt	Hook and line fishing and take of sand crabs regularly occur, especially at southern boundary Gold Bluffs beach traditional smelt camp Track amount of surf smelt taken (25 lbs current limit). Hawaiian Type throw net inappropriate	Work with California Tribes and indigenous people to change “Hawaiian type throw net” to a term that is more reflective of Indigenous Californian net based take methods	Yes	Reference to Hawaiian nets when indigenous terms exist for this take type is inappropriate and disrespectful	Monitor Surf smelt as a part of state monitoring plan.			Language Change	

Humboldt	Reading Rock SMCA	Rec take of salmon by trolling; surf smelt by dip net or Hawaiian type throw net; Dungeness crab by trap, hoop net or hand. Commercial take of salmon with troll fishing gear; surf smelt by dip net; Dungeness crab by trap. Trinidad, Resighini and Yurok exempt		Recommend implementing limits on commercial take of surf smelt	Yes	Culturally important species				Take Allowance Change	
Humboldt	Reading Rock SMR	No Take	Drifting commercial crab pots	No change	Yes						
Humboldt	Samoa SMCA	Rec take of salmon by trolling; surf smelt by dip net or Hawaiian type throw net; Dungeness crab by trap, hoop net or hand. Commercial take of salmon with troll fishing gear; surf smelt by dip net; Dungeness crab by trap. Wiyot exempt	Difficult to determine boundaries	Work with California Tribes and indigenous people to change “Hawaiian type throw net” to a term that is more reflective of Indigenous Californian net based take methods	Yes	Reference to Hawaiian nets when indigenous terms exist for this take type is inappropriate and disrespectful	Monitor recreational and commercial (through landing/block reports) take of salmon by troll and surf smelt by dip net and assess effect on population; Signs with you are here map at Mad River			Language Change	
Humboldt	South Humboldt Bay SMRMA	No Take except waterfowl may be taken. Wiyot exempt	Invasive grasses, loss of eelgrass, general threats to habitat. Non Tribal members clamming. Difficult to identify boundaries within South Humboldt Bay	Determine reason it does not extend to southern water’s edge and extend if no reason	Yes	Clearer for outreach purposes to say from southern end of bay to 2nd hunter pull out	Direct enforcement to look for unlawful clamming			Boundary Change	
Humboldt	Sugarloaf Island Special Closure	300’		No change	Yes						
Humboldt	South Cape Mendocino SMR	No Take	Minimal patrol	No change	Yes		Develop a plan for evaluating remote area MPAs to determine impact, such as temporary M2 radar/drone surveillance; support southern Humboldt patrol by LED				
Humboldt	Steamboat Rock Special Closure	300' 3/1-8/31	Confusion on when it is open to swim out to and when it is closed	No change	Yes		Sign that highlights special closure and closure dates				
Humboldt	Mattole Canyon SMR	No Take	Minimal patrol. Some commercial crab pots observed during USCG flyover	No change	Yes		Develop a plan for evaluating remote area MPAs to determine impact, such as temporary M2 radar/drone surveillance; support southern Humboldt patrol by law enforcement division				
Humboldt	Sea Lion Gulch SMR	No Take	Backpackers harvest mussels along entire Lost Coast Trail; people getting too close to new elephant seal colony. No cell connectivity to determine boundaries of MPA	Move southern boundary south to Cooskie Creek	BLM support but need fisher input	Creek is more identifiable feature for land based outreach to fishers hiking the Lost Coast Trail				Boundary Change	

Humboldt	Big Flat SMCA	Rec take of salmon by trolling and Dungeness crab by trap, hoop net or hand. Commercial take of salmon with troll fishing gear and Dungeness crab by trap. Multiple Tribes exempt	Backpackers harvest mussels along entire Lost Coast Trail; surf fishing occurs at Miller Flat. No cell connectivity to determine boundaries of MPA	No change	Yes		More outreach needed for fishers hiking lost coast. Include more detailed information in BLM Lost Coast map				
Mendocino	Double Cone Rock SMCA	Rec take of salmon by trolling; Dungeness crab by trap, hoop net or hand. Commercial take of salmon with troll fishing gear and Dungeness crab by trap	Unknown. Limited patrol. Report of excessive urchin and need for grazer suppression.	Reassess restoration policy in SMCAs impacted by climate change/kelp loss	Yes	Loss of kelp habitat needs to be addressed in this SMCA	Allow for restoration work/grazer suppression to address urchin barrens (reds and purples)	California Sea Urchin Commission - allow for commercial take of urchin		Other	
Mendocino	Vizcaino Rock Special Closure	300' 3/1-8/31		No change	Yes						
Mendocino	Ten Mile SMR	No Take	Primary concern is shore-based fishing (rod and reel at seaside creek beach). Recreational fishers take rockfish and lingcod, crab pots "walk themselves" into MPA at southern boundary. Dogs off leash	No change	Yes		OK/boundary sign needed at northern boundary. Simplify outreach language around MPA clusters				
Mendocino	Ten Mile Beach SMCA	Rec take of Dungeness crab by trap, hoop net or hand. Commercial take of Dungeness crab by trap. Many Tribes exempt	Unlawful take of fish (rockfish, lingcod); dogs off leash in snowy plover habitat. Potential sand dump site south side of Ten Mile Beach	No change	Yes		Simplify outreach language around MPA clusters				
Mendocino	Ten Mile Estuary SMCA	Waterfowl may be taken. Many Tribes exempt	Limited access for fishers	No change	Yes		Simplify outreach language around MPA clusters				
Mendocino	MacKerricher SMCA	All rec take allowed. Commercial take allowed except for bull kelp and giant kelp	Multiple violations occur daily since closest to Fort Bragg city center (general fish and game code violations). North boundary (Laguna Point) hotspot for intertidal take	Add protection for intertidal zone, per State Parks, in support for protection of the resource and ease of enforcement/outreach	Many in support but no full consensus	There are limited areas in the county to lawfully take intertidal animals such as mussels, turban snails, limpets, etc.	More enforcement support needed due to limited State Parks personnel. Focus on tidepool education. Intertidal specific take signs are needed	State Parks pending review		Take Allowance Change	
Mendocino	Point Cabrillo SMR	No Take	Lighthouse sees lots of boats fishing offshore of Frolic Cove on northern end of Point Cabrillo SMR or inside	No change	Yes		OK boundary signs would be beneficial on both boundaries for kayak fishing				
Mendocino	Russian Gulch SMCA	All rec take allowed. Commercial take allowed except for bull kelp and giant kelp	General fish and game code violations	No change	Yes						

Mendocino	Big River Estuary SMCA	Rec take of surfperch by hook and line from shore only and Dungeness crab by hoop net or hand. Many Tribes exempt. Waterfowl may be taken	Increased use for swimming and recreation has led to safety concerns, including close calls between swimmers and hunters. Swimmers mixing with motorized boats may lead to accidents	Hunting should be prohibited due to high public use/public safety issues, per State Parks	Yes	Community reported incidents of near misses between hunters/boaters and swimmers		State Parks pending review		Allowed Activity Change	
Mendocino	Big River Estuary SMCA	Rec take of surfperch by hook and line from shore only and Dungeness crab by hoop net or hand. Many Tribes exempt. Waterfowl may be taken	Can MPA restrict motorized vessels if not ecological reserve?	Restrict all motorized vessels with allowance for public safety, per State Parks	Yes, with clarification that motorized vessels are only restricted going east (up river)	West access from launch should be allowed for boaters going out to ocean	Data on crab fishery is needed to determine whether allowance is sustainable. Need clear signage restricting snare traps. Pick up after dog signs needed	State Parks pending review		Allowed Activity Change	
Mendocino	Van Damme SMCA	All rec take allowed. Commercial take allowed except for bull kelp and giant kelp	Overtake and take of undersize fish	No change	Yes						
Mendocino	Navarro River Estuary SMCA	Rec take of salmonoids by hook and line. Many Tribes exempt. Waterfowl may be taken	People illegally breach sandbar (but outside MPA?)	No change	Yes						
Mendocino	Point Arena SMR	No Take	Fishing in SMR reported by lighthouse manager	No change	Yes		OK boundary signs needed				
Mendocino	Point Arena SMCA	Rec take of salmon by trolling. Commercial take of salmon with troll fishing gear		No change	Yes						
Mendocino	Sea Lion Cove	Rec and commercial take of finfish	Urchin barrens	Reassess restoration policy in SMCAs impacted by climate change/kelp loss	Yes		Allow for restoration work/grazer suppression to address urchin barrens (reds and purples)	California Sea Urchin Commission - allow for commercial take of urchin		Other	
Mendocino	Saunders Reef SMCA	Rec take of salmon by trolling. Commercial take of salmon with troll fishing gear and urchin	Citations issued for people diving and taking at Schooner Gulch; illegal shore fishing from Hearn Gulch	No change	Yes		Additional enforcement personnel/efforts are needed				
Sonoma	Del Mar Landing SMR	No Take	Fishing at north end	No change	Yes		Trail pamphlets with MPA information				
Sonoma	Stewarts Point SMR	No Take	Poaching at 3 mile line. Difficult for fishers to determine where 3 mile line is and difficult to enforce from land	Allow for trolling of salmon. Change to SMCA?	No. Discussed with no strong opposition but more info needed	Impact to commercial salmon fishing can be addressed with minimal impact to other resources	More signage needed at public access points			Take Allowance Change	Yes, would change SMR to SMCA. No consensus
Sonoma	Stewarts Point SMCA	Rec take from shore only of marine aquatic plants other than sea palm, marine invertebrates, finfish by hook and line, surf smelt by beach net, species authorized by hand-held dip net	Tribal based MPA	Prohibit all take and add Kashia Pomo to Tribal exemptions to make affirmative rights of Tribal Members re: collection, harvesting, and research	Yes	MPA is only accessed by Kashia Tribal members from shore (owned by Tribe) so would be same protection while acknowledging Tribal rights				Take Allowance Change	Yes, change from SMCA to No-Take SMCA with Tribal exemption

Sonoma	Salt Point SMCA	Recreational take of abalone and finfish allowed	Take of abalone during closure; poaching of intertidal species. Confusion regarding intertidal take	No change	Yes		Needs more signage on collecting/take of shellfish and other non finfish				
Sonoma	Gerstle Cove SMR	No Take	Excessive intertidal take. Rec fishers fishing the line	No change	Yes		Need for good tidepooler rules signs to address harmful tidepooling				
Sonoma	Russian River SMRMA	No take except waterfowl may be taken	Marine mammal disturbance occurring. County of Sonoma needs to conduct restoration work as part of management plan	Allow for restoration work in SMRMA	Yes	Restoration will not impact haul out sites, marine mammals or birds				Other	
Sonoma	Russian River SMCA	Rec take of Dungeness crab by trap, and surf smelt by hand-held dip net or beach net. Commercial take of Dungeness crab by trap	Illegal onshore and offshore fishing; seal disturbance "seal selfies" near Goat Rock. Trash/dogs off leash	No change	Yes		More outreach for out of town fishers/permanent signage				
Sonoma	Bodega Head SMR	No Take	Take of rockfish and trolling for salmon; fishing on northern boundary off rocks Difficult “fan” shape and hard to identify northern boundary makes enforcement difficult	No change	Yes	Would require new outreach					
Sonoma/Marin	Bodega Head SMCA	Rec take of pelagic finfish by trolling, Dungeness crab by trap, and market squid by hand-held dip net. Commercial take of pelagic finfish by troll fishing gear and round haul net, Dungeness crab by trap, and market squid by round haul net	Take of rockfish and trolling for salmon; fishing on northern boundary off rocks Difficult “fan” shape and hard to identify northern boundary makes enforcement difficult	No change	Yes						
Sonoma/Marin	Estero Americano SMRMA	No take except waterfowl may be taken	Confusion as to boundary “high tide line” and who manages strip of beach between ocean and estuary that is often closed; Difficulty identifying eastern boundary. No way to see boundary from shore	No change	Yes		More signs needed at access points here to address compliance concerns				
Marin	Estero de San Antonio SMRMA	No take except waterfowl may be taken	Some take (animal remains) and illegal fishing	No change	Yes						
Marin	Point Reyes SMR	No take	Sand dollar and fossil take, rod and reel fishing from vessels, party boats troll for salmon; violations are limited offshore	No change	Yes		Signage and more enforcement needed, especially at Drakes Beach and Coast Guard Station. Consolidated mixed messaging signs, with dog information.				

Marin	Point Reyes SMCA	Rec take of salmon by trolling and Dungeness crab by trap. Commercial take of salmon with troll fishing gear and Dungeness crab by trap	Commercial crabbers set coonstripe shrimp traps on top of crab traps; Boundaries in MPA cluster hard to identify; NPS jurisdiction limited to	No change	Yes						
Marin	Point Reyes Headlands Special Closure	No access from mean high tide line to a distance of 1000 feet seaward	Recreational vessels fishing in summer; Disturbance spiked in 2020; USFW continues to monitor this area	No change at this time	Yes	Might need to revisit making adjustments in the future if data shows changes/increases in disturbance					
Marin	Estero de Limantour SMR	No take	Difficult to determine boundary between SMR and Drakes Estero SMCA makes enforcement difficult. There are suspicions that poaching of clams occurs in the SMR from people on kayaks from Drakes Estero	Extend SMR designation all the way into Drakes Estero	Yes	NPS in support of expanding SMR because federally designated wilderness, major harbor seal haul out, and critical nursery habitat for leopard shark and bay rays		EAC Marin with NPS letter of support		Boundary Change	
Marin	Drakes Estero SMCA	The recreational take of clams is allowed	Difficult to determine boundary line between Drakes Estero SMCA and Estero de Limantour SMR leading to poaching. Cows accessing/pooping from NPS ranch leased land	Prohibit clamming in Drakes Estero SMCA. Merge with Estero de Limantour SMR.	Yes	SMCA designation was originally due to oyster farm that is no longer there. NPS in support of making into a SMR due to federally designated wilderness area	Give people direction/ outreach materials on where they CAN clam safely	EAC Marin with NPS letter of support		Take Allowance Change	Yes, change from SMCA to SMR
Marin	Point Resistance Rock Special Closure	No access from mean high tide line to a distance of 300 feet seaward of rock	Seabird flushing by vessels. USFW monitoring area.	No change	Yes	GFNMS thinks current regulations are good, very important to their mission and public outreach					
Marin	Double Point/Stormy Stack Special Closure	No access from mean high tide line to a distance of 300 feet seaward of rock	Seabird flushing by vessels and surfers, who enter harbor seal rookery. Increased visitation due to people hiking to Alamere Falls	No change	Yes	GFNMS thinks current regulations are good, very important to their mission and public outreach and don't want to extend to shore to allow shore access	Put signs with regulations and text about importance of special closure at trailhead; more outreach to boaters about special closures needed				

Marin	Duxbury Reef SMCA	Recreational take of finfish from shore and abalone* is allowed	Difficult to enforce and outreach about why you can take finfish but not invertebrates. Beach Watch data at this site for 30 years show slight decrease in activities in last 10 years, but take of invertebrates has been observed, and the Greater Farallones National Marine Sanctuary Superintendent has provided information about the need to consider additional conservation measures at Duxbury Reef. Maria Brown (NMS) submitted a letter saying Duxbury Reef would benefit from increased protection of unique and important habitat of entire reef (largest shale reef in N. America). EAC MPA Watch data shows	Change to SMR because of difficulty of interpretation and enforcement. Extend southern boundary further out to sea (south) and northern boundary to Double Point to fully cover reef	No	No agreement on extending boundaries to cover the reef and changing to SMR. More research needed on benefits of changing existing ribbon from SMCA to SMR; Might be important fishing access point for public	More signs needed and more support for onsite education and enforcement from CDFW to agate beach and land-side terrestrial Duxbury	EAC Marin		Take Allowance Change	Yes, would change SMCA to SMR. No consensus
Marin	Duxbury Reef SMCA	Recreational take of finfish from shore and abalone* is allowed	Heavy use and impacts, intertidal take – buckets and tools (e.g., crow bars, tire jacks) used to take black turban snails and purple urchin that are nestled into cracks. People need to break the reef to get to purple urchin	Potential compromise would be to add specific tidepool protections, similar to OC	TBD	NMS would like to continue conversation to explore potential compromises	Research other tidepool docent programs in MPAs with mixed use of allowed fishing/tidepool protections			Language Change	
San Francisco	North Farallon Islands SMR	No Take	Commercial crab case here	No change	Yes	More data needed for this MPA cluster	Increase CDFW LED patrols during peak months. Need for CCFRP program here				
San Francisco	North Farallon Islands Special Closure	No vessel shall be operated or anchored at any time from the mean high tide line to a distance of 1000 feet seaward of the mean lower low tide line of any shoreline of North Farallon Island, or to a distance of 300 feet seaward of the mean lower low tide line of any shoreline of the remaining three southern islets		No change	Yes						

San Francisco	Southeast Farallon Islands SMR	No Take	Small recreational boats. A number of encroachments occur into SMR during better weather months	No change	Yes		Increase patrols from LED and consider M2 radar at this location				
San Francisco	Southeast Farallon Islands SMCA	Recreational take of salmon by trolling and commercial take of salmon by troll fishing gear	Salmon fishers use salmon gear to fish for halibut	No change	Yes						
San Francisco	Southeast Farallon Islands Special Closure	Closed 300 feet seaward year-round, except Fisherman's Bay to East Landing, southeastern tip of the island and southeastern side of Saddle (Seal) Rock, which is closed from December 1 through September 14. 5 mile per hour speed limit 1000 ft seaward of mean lower low tide of any shoreline Exhaust system requirements for commercial dive boats	Boats cut across the special closure	No change	Yes	Predates MLPA process, careful consideration went into crafting special closure regulations					
San Mateo	Egg (Devil's Slide) Rock to Devil's Slide Special Closure	A special closure is designated from the mean high tide line to a distance of 300 feet seaward of the mean lower low tide line of any shoreline of any of the three rocks comprising Egg (Devil's Slide) Rock; Transit in between the rock and the mainland between these points is prohibited at any time.	Reported violations include fishing boats inside boundaries and low flying aircraft/drones	Change name to "Devil's Slide Special Closure"	Yes	Egg rock is no longer a name used/recognized locally. Devil's Slide is more appropriate and simpler for outreach				Language Change	
San Mateo	Montara SMR	No Take	A top cited MPA in Central Coast, highest in San Mateo; fishing offshore and tidepool take; Difficulty interpreting southern boundary	Move Montara SMR onshore southern boundary to current Pillar Point SMCA southern boundary (north end of Maverick's Beach), then extending out to current offshore southern SMR boundary point	Yes	Easier for enforcement and makes SMR boundaries consistent with Fitzgerald Marine Reserve boundaries				Boundary Change	

San Mateo	Pillar Point SMCA	The recreational take of pelagic finfish by trolling, Dungeness crab by trap, and market squid by hand-held dip net is allowed. The commercial take of pelagic finfish by troll or round haul net Dungeness crab by trap, and market squid by round haul net is allowed.	Unclear boundary leads to poaching in intertidal Difficult for local law enforcement to ensure compliance of tidepool take regulations due to high volume of consumptive visitors	Extend southern SMCA boundary further south to edge of harbor jetty, extending out to existing offshore southern point. Onshore northern boundary would be same as Montara SMR onshore southern boundary	Yes	Would cover entire reef in MPA for ease of allied agency outreach and enforcement.				Boundary Change	
San Mateo	Pillar Point SMCA	The recreational take of pelagic finfish by trolling, Dungeness crab by trap, and market squid by hand-held dip net is allowed. The commercial take of pelagic finfish by troll or round haul net Dungeness crab by trap, and market squid by round haul net is allowed.		Change regulations to allow for recreational hook and line take of finfish from shore and take of mussels, crabs, snails and seaweeds for equity and access purposes	Yes	Allowing for shore based hook and line and some intertidal take maintains access for consumptive users while applying some protection for a heavily impacted habitat				Take Allowance Change	
San Mateo/Santa Cruz	Año Nuevo SMR	No Take	Unlawful take of snails; fishing; wildlife disturbance. Boats driving squid out of MPA. Confusion because sign at top of trail to Greyhound Rock says fishing beach but must go left at bottom to legally fish	Move southern boundary line to have whole of Greyhound Rock in SMR	Yes, at both Santa Cruz and San Mateo Collaborative meetings	Clearer boundary makes enforcement easier	Ensure sign with map at bottom of trail. Utilize social/digital/traditional media for public outreach	State Parks pending review		Boundary Change	
San Mateo/Santa Cruz	Greyhound Rock SMCA	Rec take of giant kelp by hand harvest only, market squid, salmon. Other finfish by hook and line only from shore. Commercial take of giant kelp by hand harvest only, salmon and market squid	Take of mussels at southern boundary Confusion with Año Nuevo SMR boundary/whether fishing is allowed at Greyhound Rock Split between 2 counties	Move northern boundary line to have whole of Greyhound Rock outside of SMCA and in SMR; Move southern boundary south to beginning of Scott Creek bridge	Yes, at both Santa Cruz and San Mateo Collaborative meetings	Reef should be fully protected or fully open. Preference to cover reef but either way will have clearer boundary for outreach/enforcement. Move of southern boundary would cover reef to address intertidal impacts	Need for sign with map at Scotts Creek	State Parks pending review		Boundary Change	
San Mateo/Santa Cruz	Greyhound Rock SMCA	Rec take of giant kelp by hand harvest only, market squid, salmon. Other finfish by hook and line only from shore. Commercial take of giant kelp by hand harvest only, salmon and market squid	Confusing regulations	Replace comma with semi-colon in regulations after "giant kelp by hand harvest only", or otherwise edit	Yes	Clearer language needed to clarify you are not required to catch salmon and squid by hand harvest only		State Parks pending review		Language Change	Section 100 change
Santa Cruz	Natural Bridges SMR	No Take	Hard to identify boundaries; safety concerns with fishers and swimmers at Natural Bridges State Park beach	Shift both boundaries south to more identifiable features (4 mile point and Natural Bridge)	Yes	State Parks would like SMR to cover the beach at Natural Bridges SP for public safety reasons	Need for interpretive signs with maps/good tidepooler rules, why MPAs, etc.	State Parks pending review		Boundary Change	
Santa Cruz	Soquel Canyon SMCA	Rec and commercial take of pelagic finfish	Split between 2 counties	No change	Yes						

Monterey	Elkhorn Slough SMR	No Take	Fishing occurs regularly at Kirby Park pier/dock, was originally built for fishers with disabilities with SFRA grant. Inconsistent enforcement.	Move northern boundary south of Kirby Park pier/dock. Shift entire MPA to maintain size	Yes, at both Santa Cruz and Monterey Collaborative meetings	Opens fishing area as originally intended to limit poaching; supports increased enforcement presence in area	If Kirby is open, must be concerted cross-jurisdictional effort to enforce shore waste of fish/debris and other F&G Code violations. Need for good fishing practices outreach	Elkhorn Slough Foundation		Boundary Change	
Monterey	Elkhorn Slough SMCA	The recreational take of finfish by hook and line only and clams is allowed. Clams may only be taken on the north shore of the slough in the area adjacent to the Moss Landing State Wildlife Area [subsection 550(a)].	Difficult to determine where SMR/SMCA boundary is (i.e., where kayak fishers can no longer fish).	Move SMR line to bird watching platform (eastern side)	Yes, at both Santa Cruz and Monterey Collaborative meetings	Bird watching platform provides a clear boundary for shore and kayak fishers and would maintain size of SMR with shift off Kirby		Elkhorn Slough Foundation		Boundary Change	
Monterey	Elkhorn Slough SMCA	The recreational take of finfish by hook and line only and clams is allowed. Clams may only be taken on the north shore of the slough in the area adjacent to the Moss Landing State Wildlife Area [subsection 550(a)].	Clamming disturbs sea otter rafts. Huge amounts of trash (fishing receptacles full)	Removing allowance for clamming to address impact to otters and human health considerations	Maybe?	Need more info on impact to recreational clammers and safety of consuming clams	Need for more trash receptacles/removal	Elkhorn Slough Foundation		Take Allowance Change	
Monterey	Moro Cojo Slough State Marine Reserve	No take	Some access on eastern end. Agricultural influence. Elkhorn Slough NERR in support of no change	No change	Yes						
Monterey/Santa Cruz	Soquel Canyon State Marine Conservation Area	Recreational and commercial take of pelagic finfish is allowed	Many violations, especially illegally set crab traps (commercial) and rockfish take (recreational). Whale disturbance. More impact due to depth restrictions lifted	No change	Yes						
Monterey	Portuguese Ledge State Marine Conservation Area	Recreational and commercial take of pelagic finfish is allowed	Many violations, especially rockfish take (recreational). Whale disturbance	No change	Yes						
Monterey	Edward F. Ricketts State Marine Conservation Area	Recreational take of finfish by hook and line. Commercial take of giant kelp and bull kelp by hand	Fishing debris from Coast Guard pier. Abalone and other intertidal poaching at breakwater	Explore regulations to limit fishing gear loss from Coast Guard pier (such as requiring use of breakaway leaders or no braided line)	Yes	Fishing gear loss impacts wildlife, habitat, and safety of divers due to entanglement	Partner with MBNMS on outreach of litter/derelict fishing gear			Language Change	
Monterey	Edward F. Ricketts State Marine Conservation Area	Recreational take of finfish by hook and line. Commercial take of giant kelp and bull kelp by hand	New regulations may restrict fishing for rockfish from boat close to shore after October 1	Change to SMR and join with Lovers Point-Julia Platt SMR	Maybe	No strong opposition but no fishing reps present		Giant Giant Kelp Restoration Project (G2KR)		Take Allowance Change	Yes, would change from SMCA to SMR

Monterey	Edward F. Ricketts State Marine Conservation Area	Recreational take of finfish by hook and line. Commercial take of giant kelp and bull kelp by hand		Allow restoration/urchin culling without requiring SCP	No	May lead to destruction of healthy urchins		Giant Giant Kelp Restoration Project (G2KR) - applies to Ed Ricketts, PG Gardens, and Carmel Bay SMCAs, and will include suggestion for buoys on sites		Other	
Monterey	Lovers Point- Julia Platt State Marine Reserve	No Take	Fishing off Lovers Point rocks, undersize and immature fish, spearfishers and fishing boats catch halibut, illegal tidepool take; confusion around northern boundary line	Move southern boundary line so Lovers Point is either all in or all out (with preference for all in reserve)	No	Disagreement about where to move line	Boundary marker or fishing/no fishing arrow sign needed if boundary doesn't change			Boundary Change	
Monterey	Lovers Point- Julia Platt State Marine Reserve	No Take		Move southern boundary to end of Lovers Point, splitting point equally in half	Yes	Fishing/No fishing arrow signs would make sense/be more accurate	Fishing/no fishing arrow sign needed at Lovers Point			Boundary Change	
Monterey	Pacific Grove Marine Gardens State Marine Conservation Area	Recreational take of finfish. Commercial take of giant kelp and bull kelp by hand	Spearfishing violations, especially from kayaks and dinghies; illegal take of scallops and crustaceans; undersize and immature fish taken Point Pinos is key oystercatcher nesting habitat	Move both boundary lines so Lovers Point and Point Pinos are all out of SMCA and in SMRs because both are key oystercatcher nesting sites	No	Rock outcropping and buoy at Point Pinos (southern boundary) are currently good boundary indicators for boaters				Boundary Change	
Monterey	Pacific Grove Marine Gardens State Marine Conservation Area	Recreational take of finfish. Commercial take of giant kelp and bull kelp by hand		Move northern boundary to end of Lovers Point	Yes	Fishing/No fishing arrow signs would make sense/be more accurate	Fishing/no fishing arrow sign needed at Lovers Point and Point Pinos			Boundary Change	
Monterey	Pacific Grove Marine Gardens State Marine Conservation Area	Recreational take of finfish. Commercial take of giant kelp and bull kelp by hand	New regulations may restrict fishing for rockfish from boat close to shore after October 1	Change to SMR, join with Lovers Point SMR	Maybe	No strong opposition but no fishing reps present		Giant Giant Kelp Restoration Project (G2KR)		Take Allowance Change	Yes, would change from SMCA to SMR
Monterey	Asilomar State Marine Reserve	No Take	Onshore and offshore fishing common, hook and line from nooks and crannies; harmful tidepooling, tidepool take; wildlife disturbance common Northern boundary at Point Pinos is confusing, splits rocks in half	No change	Yes		Fishing/No Fishing arrow signs needed at Point Pinos				
Monterey	Carmel Pinnacles State Marine Reserve	No Take	Offshore violations common	No change	Yes						
Monterey	Carmel Bay State Marine Conservation Area	Recreational take of finfish. Commercial take of giant kelp and bull kelp by hand	Intertidal take common, including abalone and mussels. Golf balls go into MPA and are not collected. Some kelp take at Stillwater Cove	No change	Yes		Work with Pebble Beach on reducing golf ball litter either through requiring biodegradable balls at key holes or ensuring balls are collected by divers				
Monterey	Point Lobos State Marine Reserve	No Take	Take occurs. Boundaries are confusing	No change	Yes						

Monterey	Point Lobos State Marine Reserve	No Take		Allow restoration/urchin culling	No	Difficult for enforcement/interpretation in no-take area		Giant Giant Kelp Restoration Project (G2KR)		Other	
Monterey	Point Lobos State Marine Conservation Area	Recreational take of salmon and albacore and the commercial take of salmon, albacore, and spot prawn is allowed		No change	Yes						
Monterey	Point Sur State Marine Reserve	No Take	Violations common between SMR and SMCA, southern corner is hard to enforce. Abalone case reported	Encompass the whole coastline of Point Sur in MPA	No	Keep boundaries as is				Boundary Change	
Monterey	Point Sur State Marine Conservation Area	Recreational and commercial take of salmon and albacore		Add bluefin tuna to list of species allowed for take	No	Lessens protection				Take Allowance Change	
Monterey	Big Creek State Marine Reserve	No Take	L-shape of SMR within SMCA is confusing	No change	Yes						
Monterey	Big Creek State Marine Conservation Area	Recreational take of salmon and albacore. Commercial take of salmon, albacore	Potential unlawful fishing off Marine Lab	No change	Yes						
San Luis Obispo	Piedras Blancas State Marine Reserve	No take	Missing signs. Onshore fishing violations (poaching mussels at Point Sierra Nevada). Wildlife disturbance. Extreme angle makes kayak fishers look like they are fishing in SMR	No change	Yes		Use boundary images on signs to help reference angle at pullout.				
San Luis Obispo	Piedras Blancas State Marine Conservation Area	Recreational and commercial take of salmon and albacore	Occasional poaching observed. Fishing for rockfish. No albacore, limited salmon observed by fishers/wardens	No change	Yes						
San Luis Obispo	Cambria State Marine Conservation Area	All recreational take is allowed	Harmful tidepooling occurring throughout MPA. Difficult to message good tidepooler rules without designated protections	Add tidepool protection language similar to Crystal Cove and Dana Point SMCAs	Yes	Would make it easier to message about responsible tidepooling and reduce inadvertent take	Tools for existing SP tidepool docent program needed here, such as Natural Bridges State Park tidepool cart	State Parks pending review; Environment California?		Take Allowance Change	
San Luis Obispo	Cambria State Marine Conservation Area	All recreational take is allowed	Boundary between Cambria SMCA and White Rock SMCA is confusing, leading to accidental poaching by kayak fishers putting in at boundary at Wedgewood	Shift White Rock SMCA northern boundary to end of neighborhood at Lampton Park. Shift southern boundary south 1/2 mile accordingly to not lose any protection and cover some kelp habitat	Yes	May be some pushback from commercial live rockfish fishery for southern shift but recreational anglers in support		Environment California?		Boundary Change	
San Luis Obispo	Cambria State Marine Conservation Area	All recreational take is allowed	No commercial take allowed but there is an existing kelp lease?	Remove kelp lease 209 OR clarify that lease holder cannot harvest within Cambria SMCA	Yes	Commercial harvest of kelp is incompatible with MPA regulations that allow recreational take only		Environment California?		Other	

San Luis Obispo	White Rock State Marine Conservation Area	Commercial take of giant kelp and bull kelp with valid lease	Boundary between Cambria SMCA and White Rock SMCA is confusing, leading to accidental poaching of kayak fishers putting in at boundary at Wedgewood	Shift White Rock SMCA northern boundary to end of neighborhood at Lampton Park. Shift southern boundary south 1/2 mile accordingly to not lose any protection	Yes	May be some pushback from commercial live rockfish fishery for southern shift but recreational anglers in support		Environment California?		Boundary Change	
San Luis Obispo	White Rock State Marine Conservation Area	Commercial take of giant kelp and bull kelp with valid lease		Prohibit commercial take of giant kelp and bull kelp with valid lease and change to an SMR	Yes	Original intent was a reserve but there was existing kelp lease. Current lease holder is fine with relinquishing/ disallowing take of kelp		Environment California?		Take Allowance Change	Yes, would change from SMCA to SMR
San Luis Obispo	Morro Bay State Marine Recreational Management Area	Waterfowl hunting allowed. Recreational take of finfish north of line at Pasadena Point. Aquaculture allowed	Poaching occurs at southern side that does not allow take of finfish. Line is confusing and unclear on maps and outreach materials. Illegal invertebrate take (e.g., sea stars at jetty, ghost shrimp at Windy Cove). Signs needed at blue pier	Shift no fishing boundary 150 yds north to public access at Pasadena Park (between Santa Ysabel and Baywood Way)	Yes	Makes it easier for county to manage and educate more accurately about fishing/no fishing line	Signs needed, especially at Blue Pier. County can install sign at Pasadena Park			Boundary Change	
San Luis Obispo	Morro Bay State Marine Recreational Management Area	Waterfowl hunting allowed. Recreational take of finfish north of line at Pasadena Point. Aquaculture allowed	Hunting "within" a bird sanctuary (City of Morro Bay) is confusing, safety concerns for paddlers with increased visitors who are unaware hunting is allowed. Concern about safety issues around hunting around neighborhoods. Trampling of plants occur on shoreline in Baywood Park.	No change to regulations at this time	Yes	Important hunting area. Confusion should be addressed through outreach	Overlay hunting map on SMRMA for outreach purposes Mixed message signs/more education needed about estuary impacts/erosion: "tread lightly" in Los Osos				
San Luis Obispo	Morro Bay State Marine Reserve	No Take	Some hunting violations, hugging line; Boardwalks work to protect birds! Might be good to have one at Baywood Park at 1st Street	No change (reluctantly)	Yes	Some desire to extend SMR west and into bottom part of bay beneath Baywood Peninsula but do not want to impede on aquaculture	More education and outreach needed				
San Luis Obispo	Point Buchon State Marine Reserve	No Take	Regular poaching offshore, trolling, and stopping to drop a line in water. Busiest MPA in SLO, most violations observed/cited	Move northern boundary to actual Point Buchon	Yes	Clearer boundary for fishers coming from Port San Luis	Boundary marker needed here. Make "flagpole" more visible (hang flag?) if boundary doesn't change	State Parks pending review		Boundary Change	
San Luis Obispo	Point Buchon State Marine Conservation Area	Recreational and commercial take of salmon and albacore allowed	Regular poaching, rockfish and lingcod, maybe some squid boats?	No change	Yes						

Santa Barbara and Ventura (Santa Barbara Channel)	Vandenberg SMR	No Take	Vandenberg Space Force Base (VSFB) allows active-duty officers, their dependents/families, and guests to fish off Vandenberg. Leads to confusion since officially a no-take area. Regulations should match take allowed. Petition has been submitted by City of Lompoc to allow shore fishing at Surf Beach	Change designation to SMCA that allows hook and line for finfish from shore only	Yes	Would increase actual protection due to past 5 Base Commanders' decision to allow all legal take on base and would address equity concerns by allowing access for non-military at Surf Beach		Greg Helms to propose intertidal ribbon		Take Allowance Change	Yes, would change from SMR to SMCA
Santa Barbara and Ventura (Santa Barbara Channel)	Vandenberg SMR	No Take		Revaluate MOA with VSFB that is being interpreted as allowing for full military recreational take in a no-take SMR	No, not needed if designation is changed to SMCA	Vandenberg conservation officer will enforce updated take regs on military personnel				Other	
Santa Barbara and Ventura (Santa Barbara Channel)	Point Conception SMR	No Take	Recent groundfish case. Difficult for enforcement to access from land through Dangermond Preserve. M2 radar at Pt. Conception shows a lot of boating activity, may	No change	Yes		Provide continued support for M2 radar with ground truthing and continued coordination/info sharing between agencies				
Santa Barbara and Ventura (Santa Barbara Channel)	Kashtayit SMCA	Rec take of finfish, invertebrates (except rock scallops and mussels) and giant kelp by hand harvest. Santa Ynez band of Chumash exempt	Illegal and dangerous access down the bluffs on Gaviota. Fishing without a license. Access issues for pier fishers with Gaviota pier closed. Difficult to interpret	Reword regulations for clarity of outreach: "Recreational take of finfish, invertebrates, and giant kelp allowed"	Yes	Simpler regulations will make outreach easier, increasing compliance, with minimal impacts to the resources	Have FGC/State push for pier repair at Gaviota Pier (SB County/State Parks) for safety/access reasons	State Parks pending review/Greg Helms		Language Change	Section 100 change
Santa Barbara and Ventura (Santa Barbara Channel)	Naples SMCA	Rec take by spearfishing of white seabass and pelagic finfish. Commercial take of giant kelp by hand or mechanical harvest. Santa Ynez Band of Chumash exempt	Hook and line fishing and access issues occur here, and most days there are at least two vehicles for fishing or surfing parked near Naples. Impact to hook and line fishers	Add hook and line to allowed method of take	No	Numbers/impact/level of take different between hook and line and spearfishing. Would drastically reduce protection				Take Allowance Change	
Santa Barbara and Ventura (Santa Barbara Channel)	Campus Point No-Take SMCA	No Take	Onshore and offshore hook and line fishing continues to be observed	Change purple to red for outreach purposes	Yes	Easier to explain "no take" if consistent with red SMR		Greg Helms		Other	
Santa Barbara and Ventura (Santa Barbara Channel)	Goleta Slough No-Take SMCA	No Take	Trespassing (e.g., illegal swimming, dogs). People occasionally use nets to fish here and/or fish off bridges at the finger boundaries of the slough. Dumping of sediment still occurs in Goleta Bay	Consider water quality designation for Goleta Bay	Yes	Goleta Bay is between two MPAs and there is a need to address impacts of sediment dumping to subsistence fishers off Goleta Pier		Greg Helms		Other	
Santa Barbara and Ventura (Santa Barbara Channel)	Goleta Slough No-Take SMCA	No Take		Change purple to red for outreach purposes	Yes	Easier to explain "no take" if consistent with red SMR		Greg Helms		Other	

Santa Barbara and Ventura (Santa Barbara Channel)	Richardson Rock SFMR	No Take		No change	Yes						
Santa Barbara and Ventura (Santa Barbara Channel)	San Miguel Island Special Closure	Allowance for sea urchin divers between Castle Rock and Judith Rock SMR western boundary (Point Bennet) between 3/15-4/30 and 10/1-12/15.	Commercial urchin poaching. Purpose to reduce disturbance to pinniped populations. Is closure still necessary? Point Bennet has one of the largest pinniped (six species) rookeries on the West Coast of North America	Revaluate need for special closure (SC); Clean up language to address confusion between 300 yards describing SC and 100 yards keeping boats from whole Island 102 A.1.(a)	Yes		M2 radar at NMFS marine mammal station	Greg Helms		Language Change	
Santa Barbara and Ventura (Santa Barbara Channel)	Harris Point SFMR	No Take	CDFW sees some fishers that are taking from shore, although it is not common	No change	Yes		Use land-based range markers (e.g., O & K) to mark boundaries				
Santa Barbara and Ventura (Santa Barbara Channel)	Judith Rock SFMR	No Take		No change	Yes		Use land-based range markers (e.g., O & K) to mark boundaries				
Santa Barbara and Ventura (Santa Barbara Channel)	Carrington Point SMR	No Take	Confusing angle relative to pier	No change	Yes	NPS outreach on angle has been good	More permanent boundary markers/signage is needed				
Santa Barbara and Ventura (Santa Barbara Channel)	Skunk Point SMR	No Take	Difficult to determine how far offshore boats are (in or out)	No change	Yes						
Santa Barbara and Ventura (Santa Barbara Channel)	South Point SFMR	No Take		No change	Yes						
Santa Barbara and Ventura (Santa Barbara Channel)	Painted Cave SMCA	Rec take of spiny lobster and pelagic finfish	People are taking non-pelagic fish species, rockfish, California sheephead, and live fish	No change	Yes						
Santa Barbara and Ventura (Santa Barbara Channel)	Gull Island SFMR	No Take		Have state discuss with NMS changing federal area to FMCA to allow for take of pelagics	No	More data/justification needed				Take Allowance Change	Yes, would turn federal MRs into federal MCAs. No consensus
Santa Barbara and Ventura (Santa Barbara Channel)	Scorpion SFMR	No Take	Fishing/take in little coves at eastern boundaries. Lobster traps	No change	Yes		More on-island enforcement presence needed				
Santa Barbara and Ventura (Santa Barbara Channel)	Anacapa Island Special Closure	No net or trap may be used in waters less than 20 feet deep. Brown Pelican closure from Portuguese Rock to Frenchy's Cove 1/1-10/31	Brown pelican area makes it difficult for Island Packers and others to land legally at Frenchy's	Add exemption to allow access/landing Frenchy's Cove	Yes	Intent was to allow landing at Frenchy's Cove but aligning brown pelican closure with SMR/SMCA boundary closed off access to safe landing		Greg Helms		Allowed Activity Change	
Santa Barbara and Ventura (Santa Barbara Channel)	Anacapa Island Special Closure	No net or trap may be used in waters less than 20 feet deep. Brown Pelican closure from Portuguese Rock to Frenchy's Cove 1/1-10/32	Depth hard to enforce due to sheer drop off from island	Reassess need for Special Closure and consider removing if not justified	Yes	May only need brown pelican closure rather than full island special closure to protect seabirds		Greg Helms		Allowed Activity Change	Yes, would remove special closure

Santa Barbara and Ventura (Santa Barbara Channel)	Anacapa Island SFMCA	Rec take of spiny lobster and pelagic finfish. Commercial take of spiny lobster. Santa Ynez Band of Chumash exempt	Confusion regarding what "pelagic" means may lead to unlawful take	No change	Yes		Outreach needed around pelagics				
Santa Barbara and Ventura (Santa Barbara Channel)	Anacapa Island SFMR	No Take	Violations for unlawful take	No change	Yes						
Santa Barbara and Ventura (Santa Barbara Channel)	Footprint SFMR	No Take	Lots of violations. Boats drift in because they cannot anchor	Have state discuss with NMS changing federal area to FMCA to allow for take of pelagics	No	More data/justification needed				Take Allowance Change	Yes, would turn federal MRs into federal MCAs. No consensus
Santa Barbara and Ventura (Santa Barbara Channel)	Begg Rock SMR	No Take	The MPA violations here are commercial and come from experienced	No change	Yes						
Santa Barbara and Ventura (Santa Barbara Channel)	Santa Barbara Island SFMR	No Take	Osborne Bank. CPFV/commercial lobster poaching. Overlapping jurisdictions	Have state discuss with NMS changing federal area to FMCA to allow for take of pelagics	No	More data/justification needed	M2 radar needed to monitor remote MPA			Take Allowance Change	Yes, would turn federal MRs into federal MCAs. No consensus
Los Angeles (Mainland)	Point Dume SMCA	Rec take by spearfishing of white seabass and pelagic finfish. Commercial take of swordfish by harpoon and coastal pelagic species by round haul net, brail gear, and light boat. Santa Ynez band exempt	Frequent noncompliance with MPAs and limited enforcement	Delete allowance for commercial take of Swordfish by harpoon	Yes	Swordfish fishing does not occur that close to shore	Additional enforcement personnel/efforts are needed	State Parks pending review; Heal the Bay		Take Allowance Change	
Los Angeles (Mainland)	Point Dume SMCA	Rec take by spearfishing of white seabass and pelagic finfish. Commercial take of swordfish by harpoon and coastal pelagic species by round haul net, brail gear, and light boat. Santa Ynez band exempt		Allow hook and line fishing for allowed method of take of white seabass and pelagic finfish	No	Lessening of protection/unclear impacts				Take Allowance Change	
Los Angeles (Mainland)	Point Dume SMR	No Take	Angle of eastern boundary is confusing/extends due west and is close to shore	No change	Yes		Use of surveyed boundary images in outreach can help address confusion with eastern boundary at Paradise Cove				
Los Angeles (Mainland)	Point Vicente No-Take SMCA	No Take	Frequent noncompliance with MPAs and limited enforcement	No change	Yes		Additional enforcement personnel/efforts are needed				
Los Angeles (Mainland)	Point Vicente No-Take SMCA	No Take	Confusion of significance of purple designation	Keep allowance for maintenance but change color from purple to red for ease of public interpretation	Yes	Easier to explain "no take" if consistent with red SMR				Other	

Los Angeles (Mainland)	Abalone Cove SMCA	Rec take by spearfishing of white seabass and pelagic finfish; and market squid by hand-held dip net. Commercial take of swordfish by harpoon and coastal pelagic species by round haul net, brail gear, and light boat	Harmful tidepooling impacts/take from tidepools. Frequent noncompliance with MPAs and limited enforcement	Delete allowance for commercial take of swordfish by harpoon	Yes	Swordfish fishing does not occur that close to shore	Additional enforcement personnel/efforts are needed	Heal the Bay		Take Allowance Change	
Los Angeles (Mainland)	Abalone Cove SMCA	Rec take by spearfishing of white seabass and pelagic finfish; and market squid by hand-held dip net. Commercial take of swordfish by harpoon and coastal pelagic species by round haul net, brail gear, and light boat		Allow hook and line fishing for allowed method of take of white seabass and pelagic finfish	No	Lessening of protection/unclear impacts				Take Allowance Change	
Los Angeles (Catalina Island)	Arrow Point to Lion Head Point SMCA	All rec and commercial take allowed. Take of invertebrates prohibited	Poaching lobster and abalone. Hoop nets. Difficult to identify 1,000 feet from shore at Indian/Endemic Rock	No change	Yes		Need for a locally managed (research) buoy to mark 1,000 feet point				
Los Angeles (Catalina Island)	Blue Cavern Onshore No-Take SMCA	No Take. No anchor area in original refuge boundaries	Fishing/using hoop nets close to shore at Big Fisherman Cove. Poaching at Yellowtail Point and Bird Rock; Confusion around no anchor zone	Change purple to red for outreach purposes	Yes, only if all current maintenance/access activities are still allowed	Easier to explain "no take" if consistent with red SMR	Need for some boundary marker at Yellowtail Point. MPA Watch transect would help identify use/ compliance issues here			Other	
Los Angeles (Catalina Island)	Blue Cavern Offshore SMCA	Rec take of pelagic finfish by hook and line and spearfishing and white seabass by spearfishing and market squid by hand held dip net. Commercial take of pelagic finfish by hook and line and swordfish by harpoon	Take via illegal gear types	No change	Yes						
Los Angeles (Catalina Island)	Long Point SMR	No Take	Trolling through MPA occurs. Misconception that MPA is only close to shore. Rental boats go past Long Point and fish	Make a distance from shore rather than lat/long for ease of outreach. Cut off corner and flip and move west (offshore) to maintain size	Yes	Clearer outreach to trollers to stay certain distance from shore, IF maintains size				Boundary Change	
Los Angeles (Catalina Island)	Lover's Cove SMCA	Rec take by hook and line from the Cabrillo Mole is allowed. Feeding fish allowed	Fishing from shore at the ramp near the Mole. Angle is difficult at eastern boundary. Food torpedoes are shot from tourist subs to attract fish to windows	Remove allowance for feeding of fish	Yes	Against intent of MLPA, affecting behavior of fish/habitat; public safety issue as fish become more aggressive and bite				Allowed Activity Change	
Los Angeles (Catalina Island)	Casino Point No-Take SMCA	No Take. Feeding fish allowed	Boundaries don't match dive park buoys. Feeding fish may be incompatible use. 40-50' depth at MPA line.	Remove allowance for feeding of fish.	Yes	Against intent of MLPA, affecting behavior of fish/habitat; public safety issue as fish become more aggressive and bite	Might need to utilize a weaning off process for fish used to being fed			Allowed Activity Change	

Los Angeles (Catalina Island)	Casino Point No-Take SMCA	No Take. Feeding fish allowed		Change purple to red for outreach purposes for outreach	Yes	Easier to explain "no take" if consistent with red SMR				Other	
Los Angeles (Catalina Island)	Farnsworth Onshore SMCA	Rec take by spearfishing of white seabass and pelagic finfish; marline, tunas and dorado by trolling and market squid by hand held dip net. Commercial take of swordfish by harpoon, coastal pelagics by roundhaul net, brail gear and light boat	More difficult to assess whether poaching is occurring on the backside. Challenging/confusing for fishers	No change	Yes		More outreach to fishers needed on why deep habitat/fish are protected here				
Los Angeles (Catalina Island)	Farnsworth Offshore SMCA	Rec take of pelagic finfish by hook and line or by spearfishing; white seabass by spearfishing; marlin, tunas and dorado by trolling and market squid by hand held dip net. Commercial take of swordfish by harpoon, coastal pelagics by roundhaul net, brail gear and light boat	CPFVs (party boats) are seen illegally fishing in Farnsworth Offshore SMCA, moving out if they see the CDFW patrol boat approaching. Regs restricting take of rockfish can be confusing for fishers/challenging to prove rockfish on board was taken outside	No change	Yes						
Los Angeles (Catalina Island)	Cat Harbor SMCA	Rec take of finfish by hook and line or by spearfishing, market squid by hook and line, and spiny lobster and sea urchin. Commercial take of sea cucumbers by diving only and spiny lobster and sea urchin. Aquaculture of finfish	Some take of undersized fish	No change	Yes						
Orange	Bolsa Bay SMCA	Rec take of finfish by hook and line from shore in designated areas only	Confusion between Bolsa Bay and Bolsa Chica Basin MPAs	Potentially combine Bolsa Bay with Bolsa Chica Basin MPAs?	No	State Lands requirement to have fishing				Boundary Change	Yes, would change from SMCA to SMR. No consensus
Orange	Bolsa Chica Basin No-Take SMCA	No Take. Allows for maintenance of artificial structures	Water management infrastructure is failing - needs management and repairs. Shoaling and potential closing of inlet - need cost effective alternative to dredging and $ to implement. Could ultimately change boundaries of MPAs	MPA should cover all waters in ecological reserve. Move northeastern boundary to Graham	Yes	Makes enforcement easier so CDFW can cite for unlawful fishing using 632 instead of no trespassing		OC Coastkeeper	Wendy Berube	Boundary Change	
Orange	Bolsa Chica Basin No-Take SMCA	No Take. Allows for maintenance of artificial structures	Confusion between Bolsa Bay and Bolsa Chica Basin MPA regulations and whether take is allowed. Bridge inconsistency	Change purple to red for outreach purposes	Yes	Easier to explain "no take" if consistent with red SMR		OC Coastkeeper	Wendy Berube	Other	

Orange	Upper Newport Bay SMCA	Rec take of finfish by hook and line from shore in designated areas only	Ecological Reserve and MPA overlapping jurisdiction. Fishing from floats by PCH bridge and using gill nets at Jamboree	No change	Yes		Harbor and estuary signs needed at Newport Dunes. Additional enforcement personnel/efforts are needed				
Orange	Crystal Cove SMCA	Rec take of finfish by hook and line or by spearfishing and spiny lobster and sea urchin. Commercial take of sea urchin, spiny lobster by trap, and coastal pelagic species by round haul net, brail gear and light boat	Harmful tidepooling and undersized lobster. Nighttime poaching. Angle is difficult at southern boundary	Better define tidepool definition to encompass rocky intertidal habitat	Yes	"Area encompassing the rocky pools" is confusing, makes it sounds like it is only the pools, not intertidal zone when dry	Night vision for State Parks officers to address nighttime poaching	State Parks pending review; OC Coastkeeper	Wendy Berube	Language Change	
Orange	Crystal Cove SMCA	Rec take of finfish by hook and line or by spearfishing and spiny lobster and sea urchin. Commercial take of sea urchin, spiny lobster by trap, and coastal pelagic species by round haul net, brail gear and light boat		Add "non-living, geological or cultural" marine resource to tidepool take prohibition for consistency with 632(a)1(C)	Yes	Clarifies tidepool protections to include rocks and shells		State Parks pending review; OC Coastkeeper	Wendy Berube	Language Change	
Orange	Laguna Beach SMR	No Take	Poaching in gated/private communities; angle is difficult at northern boundary	No change	Yes		More enforcement needed in private community. Bring back community scientist/anglers (i.e., CCFRP) to OC				
Orange	Laguna Beach No-Take SMCA	No Take. Maintenance allowed	Angle is difficult at southern boundary	Change purple to red for outreach purposes	Yes	Easier to explain "no take" if consistent with red SMR	Produce map that has layer that shows allowed maintenance/artificial structures and scientific take	OC Coastkeeper	Wendy Berube	Other	
Orange	Dana Point SMCA	Rec take of finfish by hook and line or by spearfishing and spiny lobster and sea urchin. Commercial take of sea urchin, spiny lobster by trap, and coastal pelagic species by round haul net, brail gear and light boat. Tidepools protected	Fishing without a license. Night poaching at 3 Arch. Take of limpets at north end. Shift in fishing pressure. Angle is difficult at southern boundary. Harmful tidepooling	Add "non-living, geological or cultural" marine resource to tidepool take prohibition for consistency with 632(a)1(C)	Yes	Clarifies tidepool protections to include rocks and shells		OC Coastkeeper	Wendy Berube	Language Change	
Orange	Dana Point SMCA	Rec take of finfish by hook and line or by spearfishing and spiny lobster and sea urchin. Commercial take of sea urchin, spiny lobster by trap, and coastal pelagic species by round haul net, brail gear and light boat. Tidepools protected		Better define tidepool definition to encompass rocky intertidal habitat or utilize a different term.	Yes	Tidepools are specific to pools but intertidal habitats protected can be free of pools in some cases. "Area encompassing the rocky pools" is unclear whether all rocky intertidal habitat is included here.		OC Coastkeeper	Wendy Berube	Language Change	
San Diego	Batiquitos Lagoon No-Take SMCA	No take. Boating, swimming, wading and diving prohibited	Confusion between ecological reserve regulations west of 5 and MPA regulations east of 5	Expand SMCA west of I-5 bridge to encompass all of ecological reserve	No	Expands MPA size, unclear on impacts to recreational fishing				Boundary Change	

San Diego	Batiquitos Lagoon No-Take SMCA	No take. Boating, swimming, wading and diving prohibited		Change to blue SMCA with designated fishing areas	Maybe	If does not reduce fishing opportunities under I-5 and 101 bridges, or lessen existing protections				Take Allowance Change	Yes, would change from No-Take SMCA to SMCA
San Diego	Batiquitos Lagoon No-Take SMCA	No take. Boating, swimming, wading and diving prohibited		Change purple to red for outreach purposes if boundaries remain the same	Yes	Easier to explain "no take" if consistent with red SMR				Other	
San Diego	Swami's SMCA	Rec take by hook and line from shore and rec take by spearfishing of white seabass and pelagic finfish	Harmful tidepooling, especially at Seaside reef. Enforcement for take of lobster is hard at southern boundary since it splits 2 jurisdictions and the reef (hard to know where they are actually taking from and who is responsible for enforcing what.)	Move southern boundary to jurisdictional boundary between State Parks and City of Solana Beach for full tidepool protection of reef	No	Increases size of MPA, reducing fishing access, and may impact take of halibut				Boundary Change	
San Diego	Swami's SMCA	Rec take by hook and line from shore and rec take by spearfishing of white seabass and pelagic finfish		Shift entire shape south (lifeguard tower to state/Solana Beach line to cover tidepool on south side)	Yes	Compromise. Keeps same size MPA but covers impacted tidepool area on southern boundary. Lifeguard tower clear boundary at north end		State Parks pending review; Wildcoast		Boundary Change	
San Diego	San Elijo Lagoon No Take SMCA	No take. Boating, swimming, wading and diving prohibited	Lots of people fishing at entrance to San Elijo lagoon under bridge and in channel	Move boundary to west side of the bridge (prohibiting fishing under the bridge) as long as accommodations are allowed for dredging	Yes	Signs are currently posted on west side of bridge to prohibit people from entering the San Elijo Lagoon. Makes outreach clearer		State Parks pending review; Wildcoast		Boundary Change	
San Diego	San Elijo Lagoon No Take SMCA	No take. Boating, swimming, wading and diving prohibited		Change purple to red for outreach purposes	Yes	Easier to explain "no take" if consistent with red SMR				Other	
San Diego	San Dieguito Lagoon SMCA	Rec take of finfish by hook and line from shore. Boating, swimming, wading and diving prohibited	Confusion between ecological reserve boundaries and regulations and MPA boundaries and regulations. Speculation that extent of water has changed since restoration. Original intent of 632 was to align with 630 in overlapping waters. Non-MPA areas are more restrictive which leads to confusion	Have MPA cover all water within ecological reserve.	Need more information	Check with Joint Power authority because would lessen protections if SMCA (that allows fishing) is expanded to all state waters	Sea level rise impacts should be considered			Boundary Change	
San Diego	San Diego-Scripps Coastal SMCA	Rec take of coastal pelagic species, except market squid, by hook and line only	Harmful tidepooling. People using gear types for fishing for species other than coastal pelagics but gear type cannot assume intent. Makes enforcement difficult. Also safety concerns with surf casters into high use swim/surf area	Add, "except from shore" to prohibit surf hook and line	Yes	Surf fishing from shore causes safety concerns (hooks getting caught on surfers/swimmers). Still allows kayakers to fish for bait fish on way out, which was original intent				Take Allowance Change	

San Diego	Matlahuayl SMR	No Take	Harmful tidepooling. Kayak fishing. Caves are being defaced/ graffitied	Add place name (La Jolla) to traditional Kumeyaay name (Matlahuayl)	No	Keep Kumeyaay name only for Tribal acknowledgement. Would also add confusion between other La Jolla MPAs	More focused patrols on caves in La Jolla to address littering/defacement of MPA			Language Change	
San Diego	South La Jolla SMR	No Take	Most highly cited MPA. Poaching of lobster and offshore fishing. Harmful tidepooling. Challenges of parking and access (coastline related challenges due to sea level rise, climate disturbance)	No change	Yes	Focus on local management/outreach/enforcement	Need for more focus on tidepools (outreach/ enforcement). More staff for allied agencies to help enforce. Encourage city to maintain safe accessways and deal with coastal erosion problems. More education on marine mammal disturbance				
San Diego	South La Jolla SMCA	Rec take of pelagic finfish by hook and line only		No change	Yes						
San Diego	Famosa Slough No Take SMCA	No Take	Homeless encampments. Construction run-off. Dogs and cats disturbing birds	Change purple to red for outreach purposes	Yes	Easier to explain “no take” if consistent with red SMR				Other	
San Diego	Cabrillo SMR	No Take	Harmful tidepooling. Offshore boats but NPS unable to contact other than through megaphone	Work with Kumeyaay to rename MPA to traditional Kumeyaay name	Yes	Kumeyaay name exists for this location. Need to confirm spelling	Additional enforcement personnel/efforts are needed			Language Change	
San Diego	Tijuana River Estuary SMCA	Rec take of coastal pelagic species, except market squid, by hand held dip net. Commercial take of coastal pelagics, except market squid by round haul net	Difficult take regulations to interpret in the field and take by hand held dip net not really occurring, per Imperial Beach lifeguards	No change							

Cell: K138
Note: was not sure about this categorization
MPA Collaborative

From: Devin O'Dea <[redacted]>
Sent: Thursday, February 1, 2024 04:10 PM
To: FGC <FGC@fgc.ca.gov>
Cc: Mark Smith <[redacted]>; Wayne Kotow <[redacted]>; Keely Hopkins <[redacted]>; California Chapter <[redacted]>
Subject: Discussion Item 10 - Regulation change petitions (marine)

Dear Commission Staff,

Please accept the attached comment letter on behalf of Backcountry Hunters & Anglers, the Coastal Conservation Association of California, and the Congressional Sportsman's Foundation pertaining to Discussion Item 10 at the upcoming Fish & Game Commission meeting.

Thank you,

Devin O'Dea | Western Policy & Conservation Manager
Backcountry Hunters & Anglers
Phone: (415) 246-5329
www.backcountryhunters.org

BACKCOUNTRY
HUNTERS & ANGLERS
CALIFORNIA

February 1, 2024

California Fish and Game Commission
715 P Street, 16th Floor,
Sacramento, CA 95814

RE: Discussion Item 10 - Regulation change petitions (marine)

Dear President Sklar, Vice President Zavaleta & Commissioners,

We appreciate the opportunity to comment on the numerous petitions under consideration at the February meeting of the California Fish & Game Commission, and we offer the perspective of the many hundred thousand supporters of our organizations to the Commission. We express grave concerns regarding several of the proposals to eliminate fishing access along large stretches of the California coast and argue that many of the petitions lack adequate scientific support and documentation to substantiate their positions.

The Decadal Management Review (DMR) of the Marine Protected Area Network (MPA) has offered important insights for MPA managers to help shape the adaptive management of MPA regulations, including promising research that MPAs may increase biomass and provide resiliency against the impacts of a changing climate for some species. The intent of the Marine Life Protection Act (MLPA) and the stewardship of our coastal resources are of paramount importance to California's heritage. However, these laudable goals and conservation benchmarks should not preclude access to harvest coastal foods where state and federal fisheries managers have demonstrated robust and resilient fish stocks without any current threat of overfishing, nor for those species where targeted fishing and active management would benefit the overall ecosystem balance.

There are numerous, seemingly well-intentioned petitions currently before the Fish & Game Commission that seek to preserve California's coastal waters citing anthropogenic impacts to biodiversity and ecosystems such as pollution, rising sea temperatures, disease, development and overfishing. While we support the intent to safeguard our fish stocks, biodiversity, and ecosystem integrity, we strongly disagree with the all-or-nothing approach adopted by many of the petitioners who proffer the wholesale elimination of fishing access without adequate scientific rationale or the acknowledgement of regulatory mechanisms already in place such as those established by the Magnuson-Stevens Fishery Conservation and Management Act working through the Pacific Fisheries Management Council, National Oceanic and Atmospheric Administration (NOAA) Fisheries, the California Department of Fish and Wildlife (CDFW), the Fish & Game Commission, and the additional state/federal laws and agencies dedicated to this task. Simply put, many of the petitions referenced below seek to advance preservation at all costs, pushing for wholesale closures that circumvent the regulatory processes already in place, ultimately bludgeoning access for the diverse angling communities that have revered these coastal traditions for generations.

Anglers and consumptive users will often be the first and loudest voices to advocate for restrictions or even closures to ensure the sustainability of a fishery, as evidenced by the numerous fishing groups and organizations advocating for the closure of the 2023 salmon season following the data and dismal projections provided by the Pacific Fisheries Management Council and CDFW. However, a Californian

constitutional right to fish seems to stand in conflict with the presumption that restriction of access is permissible where there is a lack of scientific evidence or data to justify the closure. Section 1, Article 25 of the California Constitution states, "the people shall have the right to fish upon and from the public lands of the State and in the waters thereof," and the courts in re Quinn (1973) defined "public lands of the state" referenced in this article to include "access to fish in the inland streams and coastal waters of the state."

Shore fishing, diving/spearfishing, kayak/boat fishing and coastal gathering are low impact activities that reflect the broad spectrum of California's diverse community and constitute a valuable resource for individuals across the economic divide to access nature and provide food for their families. We encourage the Commission and MPA managers to consider the numerous communities that enjoy the state's many sustainable food resources when considering protections and recommendations that might unnecessarily exclude these groups. We feel that these considerations are in line with the California Natural Resources Agency's Outdoors for All initiative and its commitment in the Pathways to 30x30 document to "implement projects that do no further harm or pose unintended consequences to historically marginalized communities."[1] Specifically, we wish to highlight this issue with regards to the expansion of California's MPA network which restricts shore-based diving, foraging, and fishing access for all Californians – especially historically marginalized communities, communities of color and Native American tribes. From California's Constitutional Right to Fish:

> Anglers from historically marginalized communities may be less able to travel to fishing locations and are more likely to require shore access, as opposed to access from a boat. Anglers in communities like this need accessible shore-fishing, particularly given the importance of subsistence fishing in poorer communities. Moreover, fishing opportunities offer physical and psychological benefits to disadvantaged communities, not just access to fish as food.[2]

It is within this context that we urge the Commission to take the following actions with regards to the petitions they have received.

Petition 2023-14MPA: *Allow commercial take of red sea urchins in nine state marine conservation areas (SMCAs)*

We recommend referring this petition to the Department of Fish & Wildlife for review and recommendation.

Petition 2023-15MPA: *Reclassify three northern Channel Islands state marine reserves (SMRs) to SMCAs and allow take of highly migratory species, pelagic finfish, and/or coastal pelagic finfish*

We recommend referring this petition to the Department of Fish & Wildlife for review and recommendation, but are encouraged by the proposal and the potential opportunity to gather more data on limited take MPAs and long-term MPA monitoring at the Channels Islands.

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[1] https://resources.ca.gov/-/media/CNRA-Website/Files/Initiatives/30-by-30/Final_Pathwaysto30x30_042022_508.pdf

[2] Coats, Francis, and Karrigan Bork. "CALIFORNIA'S CONSTITUTIONAL RIGHT TO FISH." *Environmental Law*, vol. 51, no. 4, 2021, pp. 1085–147. *JSTOR*, https://www.jstor.org/stable/48647570. Accessed 22 Mar. 2023.

Petition 2023-16MPA: *Reclassify Stewarts Point and Bodega Head SMRs to SMCAs and allow commercial take of salmon.*

We recommend referring this petition to the Department of Fish & Wildlife for review and recommendation.

Petition 2023-18MPA: *Modify allowed uses for four marine protected areas (MPAs) in Santa Barbara Channel and eliminate two special closures.*

We recommend referring this petition to the Department of Fish & Wildlife for review and recommendation.

Petition 2023-19MPA: *Designate new "Chitqawi" SMCA near Morro Bay for California-Chumash co-management*

We recommend referring this petition to the Department of Fish & Wildlife for review and recommendation.

Petition 2023-20MPA: *Reclassify and rename Point Buchon SMR to "Chumash SMCA" for co-management with tribal take exemption.*

We recommend referring this petition to the Department of Fish & Wildlife for review and recommendation.

Petition 2023-21MPA: *Modify Pyramid Point SMCA to remove recreational take of surf smelt and allow tribal take exemption for Tolowa Dee-ni' Nation.*

We recommend referring this petition to the Department of Fish & Wildlife for review and recommendation.

Petition 2023-22MPA: *Define "rocky intertidal zone," add research, monitoring, restoration and education allowance, and clarify protections in several Orange County MPAs.*

We recommend referring this petition to the Department of Fish & Wildlife for review and recommendation.

Petition 2023-23MPA*: Reclassify three SMCAs to SMRs, designate one new SMR in Monterey, and make various changes related to kelp restoration.*

We recommend the Commission deny this petition.

While the petitioner's intent to restore kelp forests and ecosystem integrity at tankers reef and in the surrounding waters is laudable, this broadly proscriptive petition would unnecessarily restrict access for anglers where there is no clear scientific rationale. In fact, the petitioner submitted a very similar petition seeking to close access for groundfish along a large stretch of the coast in this region in 2023 which the Department of Fish & Wildlife rejected citing a lack of scientific evidence to support the claim. We support the ongoing efforts to restore kelp forests through urchin culling and other means, however we oppose reclassifying these SMCAs to SMRs and the establishment of a new SMR in Monterey.

Petition 2023-24MPA: *Expand Laguna Beach no-take SMCA southward to border of City of Laguna Beach and modify Dana Point SMCA boundaries*

We recommend the Commission deny this petition.

We oppose this petition on the basis that it lacks scientific documentation or justification to eliminate fishing access in the proposed area. The petitioner argues primarily for administrative ease that the no-take closure be extended to the edge of city limits. During the implementation of the MLPA, MPAs were sited utilizing careful selection criteria based on habitat type, proximity from other MPAs, impact to communities and more. The petitioner argues that all beaches within the City of Laguna Beach should be no-take MPAs in order to streamline enforcement and that homeowners "feel that it is not equitable to have only the north and central beaches protected." It should be noted that the petitioner also states clearly in the Economic or Fiscal Impact section of the petition that "estimated resident property values gain an increase of 20% from proximity to a fully protected MPA" which may explain more robust support from the city and homeowners.

The petitioner also cites kelp forest health as justification for eliminating fishing access, however the 100 + page report included with the petition doesn't reference fishing pressure or boat activity with regards to kelp forest health and instead focuses on water temperature, nutrients, wave height, upwelling, rainfall and other stressors. As such, we recommend the Commission deny this petition since there is no scientific documentation to support its claims, and it would only negatively impact anglers who would be forced to travel further to reach fishing grounds.

Petition 2023-27MPA: *Reclassify a portion or all of Anacapa SMCA to an SMR to protect eelgrass*

We recommend referring this petition to the Department of Fish & Wildlife for review and recommendation. We recognize the value of eelgrass beds for overall ecosystem health and habitat; however, it should be noted that many recreational anglers who target pelagic fish do not anchor and instead prefer to drift fish or troll instead which would have zero impact on the bottom habitat and eelgrass.

Petition 2023-28MPA: *Designate a new SMR at Point Sal, or designate as an SMCA with a tribal take exemption based on tribal consultation*

We recommend the Commission deny this petition.

While the petitioner takes time to identify the important habitat types, larval transport zones, and cultural significance of the Point Sal area, and they reference potential threats to the region from coastal development and industry, they fail to elaborate in any substantive way why fishing access should be removed from this wild and iconic central coast fishing destination. The petitioner states: "current [commercial] fishing in the proposed area is limited, likely due to its considerable distance from nearest port areas of Morro Bay and Santa Barbara." They also admit that they have no data or analysis with regards to recreational fishing and state, "our request to CDFW for recreational fishing data from this area was being processed at time of submission; we will evaluate the potential impact to recreational fishers and submit it to the state following receipt of the requested data."

A limited google search of "Point Sal fishing" also uncovers a large number of recreational fishing blogs and videos detailing the remote and adventurous hike to fish this area from a diverse population of anglers. In 2023 one blogger wrote, "had a great time hiking miles and miles and miles to fish Point Sal with Martin Mansera from Mansera Outdoors…It's such a remote location and so difficult to access, it

makes for a really rad adventure." Recreational fishing trips to the area by boat are also common, and fishing is noted in nearly every travel guide or city/county website that talks about visiting Point Sal.

Regarding access and disadvantaged communities, the petitioner writes, "the California Environmental Protection Agency identifies the adjacent city of Guadalupe as "disadvantaged" under CA Senate Bill 535, and their synthesis of environmental and socioeconomic indicators further reveals that Guadalupe – alongside Santa Maria and Lompoc – are underprivileged communities that experience significant cumulative impacts from pollution. Given these communities' close proximity to Point Sal, implementing an SMR at the proposed site could enhance access for disadvantaged populations to valuable coastal resources and fishing opportunities."

To justify this confounding claim that removing fishing access could somehow *enhance fishing opportunities* for disadvantaged communities, the petitioner cites a study of commercial lobster fishing and the concept of "spillover." They write, "California's MPAs have been shown to increase the biomass of fishery-targeted species and promote "spillover" into nearby coastal areas, benefitting nearby fishing grounds."

Spillover and the positive impacts to fisheries located in waters adjacent to MPAs are often referenced in association with the MPA network, and the limited, initial science has demonstrated some positive correlations with spillover of invertebrates like lobsters to adjacent fishing grounds in select study areas and commercial fishing for tuna in Hawaii. However, there remains an opportunity to further study this hypothesis and to promote scientific research that successfully documents spillover of targeted finfish across the MPA network in California. Some data from MPA monitoring along the Central California Coast indicated limited evidence of spillover from targeted finfish that were tagged and recaptured at a later point during the study period as evidenced from the Starr et al study: Variation in Responses of Fishes across Multiple Reserves within a Network of Marine Protected Areas in Temperate Waters:

> As of July 2014, a total of 251 individual tag recaptures have been reported (Table 8). Tagged fishes were recaptured by commercial and recreational hook-and-line fishermen, commercial trap fishermen, SCUBA divers, and during our fishing surveys. Of all the tagged fishes recapture and reported, 71% were recaptured in the same site and grid cell as they were released, and 22% of recaptured fishes were caught within the same site but outside the original grid cell where they were released. Only 18 fish, or 7% of the recaptured fishes, were recaptured beyond the boundaries of the MPA or REF site in which they were released. The mean net distance moved by eight of nine species recaptured was less than half the length of the MPAs we studied.[3]

While we do not seek to draw conclusions regarding the overall merits of spillover to adjacent fisheries from the results of one study, we do encourage additional research to evaluate the impacts that MPAs have on local fisheries and fisheries as a whole, especially within the context of varied siting and disparate habitat types evidenced across the MPA network. As the Forcada study indicated, "We conclude that spillover effects are not a universal consequence of siting MPAs in temperate waters and they are related to the distribution of habitats inside and around MPAs." (Forcada et al., 2009).

Due to the limited scientific understanding of spillover as it relates to the Marine Protected Area Network as a whole, especially with regards to finfish which would be the primary target of recreational shore and

[3] 4 Starr RM, Wendt DE, Barnes CL, Marks CI, Malone D, et al. (2015) Variation in Responses of Fishes across Multiple Reserves within a Network of Marine Protected Areas in Temperate Waters. PLOS ONE 10(3): e0118502. https://doi.org/10.1371/journal.pone.0118502

boat-based anglers at Point Sal, we disagree with the petitioner's logical assumptions and the argument as a whole. In fact, when considered in the context presented from the *Constitutional Right to Fish* article, the discussion is turned on its head entirely. "Anglers from historically marginalized communities may be less able to travel to fishing locations and are more likely to require shore access, as opposed to access from a boat. Anglers in communities like this need accessible shore-fishing, particularly given the importance of subsistence fishing in poorer communities."[4]

With the two large no-take SMRs located just South of this newly proposed MPA (Vandenberg SMR & Point Conception SMR) and Point Buchon to the North, it would seem the opportunities to fish and forage the coast for residents of Guadalupe, Lompoc and Santa Maria are already few and far between. In fact, in 2022 the City of Lompoc petitioned the Fish & Game Commission to allow for shore-fishing access along a ½ mile stretch of beach with in the Vandenberg SMR, citing a lack of access to historic fishing grounds for the local communities.

We share the petitioner's concerns regarding habitat disruption from off-shore energy production and the associated infrastructure, however, we note the likely establishment of the Chumash Heritage National Marine Sanctuary (CHNMS) designation which would effectively curtail any development or offshore energy production in this region. Planning for the CHNMS has included fishing access as a key component of the proposed designation.

As a result, we recommend the Commission deny this petition.

Petition 2023-29MPA: *Designate a new SMCA with a tribal take exemption for and co-management with Santa Ynez Band of Chumash Indians in Santa Barbara*

We recommend the Commission deny this petition.

We oppose the petitioner's request to designate a new, no-take SMCA in Carpinteria for several reasons. First, the petitioner argues that spacing and connectivity is a key concern in this location with the distance between the Campus Point and Point Dume SMCAs at 64 nautical miles (nm) instead of the recommended 54 nm to ensure ecological connectivity. When this request is examined within the broader context of MPA siting, it is clear that the target spacing between MPAs could be easily achieved by moving the Campus Point SMCA South or the Point Dume SMCA North, since both are located well-within the recommended 54nm from adjacent MPAs on either side.

Additionally, the petitioner cites the location as important nursery habitat for juvenile great white sharks as justification for establishing a no-take SMR. They write, "Research conducted in the Southern California Bight has found that fisheries bycatch is likely the main source of mortality for JWS." However, the article they cite to support this claim, John F. Benson et. al., discloses that for great white sharks they captured and tagged, "mortality risk was substantially greater off the coast of Baja, Mexico compared with California." Importantly, the research paper also states, "that incidental gillnet capture continues to be the primary source of mortality for juveniles. The lower mortality risk we documented in California waters suggests that full closure of gillnet fishing close to shore is a more effective management strategy than simply banning targeted fishing to reduce mortality risk due to bycatch." [5]

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[4] Coats, Francis, and Karrigan Bork. "CALIFORNIA'S CONSTITUTIONAL RIGHT TO FISH." *Environmental Law*, vol. 51, no. 4, 2021, pp. 1085–147. *JSTOR*, https://www.jstor.org/stable/48647570. Accessed 22 Mar. 2023.

[5] Benson JF, Jorgensen SJ, O'Sullivan JB, et al. Juvenile survival, competing risks, and spatial variation in mortality risk of a marine apex predator. *J Appl Ecol*. 2018; 55: 2888–2897. https://doi.org/10.1111/1365-2664.13158

As the petitioner is undoubtedly aware, gillnet fishing is banned in state waters and therefore the proposed MPA would have no impact on the gillnet fishery or likely the mortality risk to great white sharks.

The petitioner notes the location's popularity with recreational lobster divers and the likely opposition from stakeholders who would oppose the additional loss of access. The mortality risk to great white sharks from the recreational lobster fishery is zero, similar to the risk from spearfishing, yet the petitioner seeks to eliminate access entirely without providing any scientific rationale for the closure. As a result, we request that the Commission deny this petition.

Petition 2023-31MPA: *Reclassify Drakes Estero SMCA to an SMR and combine with Estero de Limantour SMR as a single SMR:*

We recommend referring this petition to the Department of Fish & Wildlife for review and recommendation but encourage the Commission to maintain access for clamming unless there is a clear threat to the fishery or surrounding ecosystem.

It is worth noting that the National Park Service mentions in their comment letter that the area is now Congressionally Designated Wilderness and that "recreational take of shellfish appears to be very rare, [and] requires long kayak trips in wilderness area." Just because something is difficult doesn't mean it should be illegal.

Petition 2023-32MPA: *Reclassify Duxbury Reef SMCA as an SMR and expand northern and southern boundaries*

We recommend that the Commission deny or refer this petition to the Department of Fish & Wildlife for review and recommendation but emphasize maintaining fishing access for local communities at Duxbury Reef. The vast majority of complaints regarding Duxbury reef are related to enforcement and compliance, rather than a scientific justification for eliminating access. Shore fishing is an important past-time for the diverse communities that comprise the North Bay Area, and removing access to a popular fishing destination should not be justified simply based on the actions of a few bad apples.

Petition 2023-33MPA: *Expand the boundaries of five SMRs and one SMCA, and designate a new SMR off Pleasure Point, in Santa Cruz*

We recommend that this petition be denied or referred to the Department of Fish & Wildlife for review and recommendation due to its broad scope and complexity. The petitioner seeks to enhance protections for kelp forests, but does so with an overly broad brush. Rather than advocating for reducing fishing pressure for predators of kelp grazers, like lobster and sheepshead, the petition advocates for the closure of all fishing, including the harvest of grazer species like urchins that have been documented to decimate kelp forests.

The petitioner argues that eliminating fishing pressure within the proposed MPA areas would somehow bolster kelp populations, but the claim is not well documented by scientific research in this petition. A noteworthy case study, by comparison, is the ongoing Tanker's Reef kelp restoration project, where volunteers have been culling purple urchins within study plots and tracking kelp recovery within the study area and a control site nearby. The initial data for the last three years shows a clear correlation between the removal of purple urchins and kelp recovery in the study plot with no kelp recovery in the adjacent control where urchins were not removed. Fishing is permitted in the Tanker's reef area, however, in adjacent MPA's that have not permitted active restoration and where fishing is not allowed, urchin barons persist and kelp recovery remains minimal.

Kelp forest health and resiliency is a complex and multi-variable equation that can be impacted by numerous factors including water temperature, disease, pollution, algal blooms, wave energy, commercial harvest and more. We support efforts to restore kelp forests across the coast and recognize the role they play in the overall ecosystem health of fisheries, especially the abalone fishery that remains closed until 2026. We urge caution, however where broad fishing closures are enacted in the attempt to solve a problem that requires a more nuanced and carefully crafted multidisciplinary approach.

It should also be noted that the petitioner indicates support for recreational hook and line fishing and spearfishing as an acceptable alternative in several of the MPAs referenced in the petition.

Petition 2023-34MPA: *Reclassify Point Buchon SMCA to an SMR and modify take at Farnsworth Onshore and Offshore SMCAs to only allow recreational spearfishing.*

We recommend that the Commission deny this petition and we emphasize the substantial impacts to current fishing access. The petitioner argues that since the salmon season was closed in 2023 it will likely be closed in perpetuity, which would justify eliminating salmon and albacore fishing access at the Point Buchon SMCA. Salmon populations often decrease during drought years and can rebound with increased precipitation or water allocation as was the case in 2008 and 2009 when the fishery was closed and then reopened. We are cautiously optimistic that the salmon numbers will once again bounce back following the increased precipitation received over the past two years.

In the draft Pathways to 30x30 document, the CNRA writes: “It should be noted that limited-take State MPAs provide an excellent model for other jurisdictions looking to balance biodiversity conservation with sustainable well-managed commercial and recreational fishing.” We feel that reclassifying the Point Buchon SMCA as an SMR and eliminating fishing in this area would be inappropriate; however, we support any attempts to improve enforcement and compliance with existing regulations.

Furthermore, the proposal to modify take at Farnsworth Onshore and Offshore SMCAs would disproportionately impact a broad variety and collection of user groups who may not be physically able or inclined to spearfish. For this reason and the lack of concrete scientific data to justify the additional restrictions, we recommend the Commission deny this petition.

Sincerely,

Devin O’Dea
Western Policy & Conservation Manager
Backcountry Hunters & Anglers

Wayne Kotow
Executive Director
Coastal Conservation Association California

Keely Hopkins
Western States Manager
Congressional Sportsman’s Foundation

FGC@FGC

From: Rachel Lucine <rlucine@environmentcalifornia.org>
Sent: Thursday, February 1, 2024 5:19 PM
To: FGC
Cc: Laura Deehan
Subject: Supplemental Materials for Petitions 2023-33MPA and 2023-34MPA
Attachments: 2.1.24 Fish & Wildlife MPA Letter.docx; 2.14.24 Marine Protected Areas_CFGC LOS (1).pdf; Local Elected Official - CA 30x30 MPA Letter of Support.pdf; eNGO Letter of Support- Kelp Forest Petition (2023-33MPA).pdf; eNGO Letter of Support- Strengthen MPA (2023-34MPA).pdf

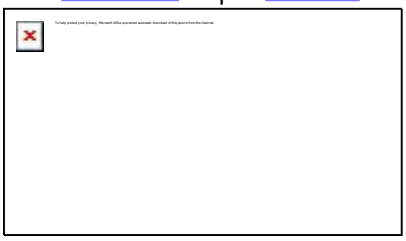
Hello Fish and Game Commission,

Attached are additional supplemental materials for Environment California's and Azul's petitions (2023-33MPA and 2023-34MPA). We are pleased to share letters of support from State Senators Laird and Wiener, along with signatures from 16 local elected officials. Additionally, we have garnered 25 signatures from eNGOs for petition 2023-33MPA and 28 signatures from eNGOS for petition 2023-34MPA.

We are actively gathering more support and plan to submit additional materials and updates to these numbers before the February 9th deadline. Please feel free to reach out if you have any questions or need further information.

Best regards,

Rachel Lucine (she/her)
Ocean Conservation Campaign Associate, Environment California
Phone: (707) 241-5082
rlucine@environmentcalifornia.org
LinkedIn | Twitter



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SENATOR.WIENER@SENATE.CA.GOV

California State Senate

SENATOR
SCOTT WIENER
威善高
ELEVENTH SENATE DISTRICT

MENTAL HEALTH CAUCUS
CHAIR
LEGISLATIVE JEWISH CAUCUS
CO-CHAIR
COMMITTEES:
HOUSING
CHAIR
APPROPRIATIONS
GOVERNANCE & FINANCE
HEALTH
JOINT RULES
JUDICIARY
LEGISLATIVE ETHICS
PUBLIC SAFETY
SELECT COMMITTEE ON
BAY AREA PUBLIC TRANSIT
CHAIR
SELECT COMMITTEE ON
MENTAL HEALTH & ADDICTION
CHAIR

February 2, 2024

California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

Re: **Petitions to Modify the CA Marine Protected Area Network to Enhance Protections**

Dear President Sklar and Honorable Commissioners,

As a state senator and advocate for the health and vitality of California's coastal ecosystems, I am writing to express my unwavering support for the expansion of the state's network of Marine Protected Areas (MPAs). Implementing new highly or fully protected areas and increasing the rigor of existing marine protected areas are crucial steps in safeguarding our diverse marine species and ensuring the long-term well-being of the ecosystems off our shores.

The state of our ocean is at a critical juncture, with escalating global temperatures, declining biodiversity, and a growing number of endangered marine species. Northern California has lost more than 95% of its kelp forests since 2014, and kelp forests statewide have experienced declines over the past decade[1]. Pollution, overfishing, offshore drilling and other human activities are threatening ocean habitats and marine species, while the changing climate increases the risk of extreme weather events and puts even greater stress on ocean ecosystems.[2][3]

In the face of these mounting threats, California has a unique opportunity to take bold and effective action to conserve ocean habitats and ensure a greater abundance of life off our coast.

[1] Meredith McPherson et al, Large-scale shift in the structure of a kelp forest ecosystem co-occurs with an epizootic and marine heatwave, Communications Biology, March 5, 2021
[2] James Horrox, Steve Blackledge and Kelsey Lamp, "New Life for the Ocean: How marine protections keep our waters wild," Environment America Research and policy Center & Frontier Group, February 2021
[3] Arafeh-Dalmau et al., Integrating climate adaptation and transboundary management: Guildenes for designing climate smart marine protected areas, One Earth 6, 1-19 November 17, 2023

Over two decades ago, the state passed the groundbreaking Marine Life Protection Act (MLPA), which called on the state to use one of the most powerful tools for ocean conservation: marine protected areas (MPAs).

MPAs, like state parks on land, protect unique and important ocean habitats from activities that can damage ocean life. Areas that are strongly protected have been shown to be highly effective in conserving biodiversity, enhancing ecosystem resilience, and mitigating the impacts of climate change on our oceans.[4]

California's network of MPAs, foreseen in the MLPA, celebrated its tenth-anniversary last year, and the state's decadal management review showed that marine life in existing reserves better withstood recent marine heatwaves, and reserves across the state had higher biomass of commercially caught fish than areas lacking protection.[5]

Now, we need to build on this system and maintain California's role as a leader, both nationally and globally, in the fight to protect more ocean habitats.

That's why I urge you to strengthen and expand our state's network of MPAs within the adaptive management process of the Decadal Management Review. In particular, I am writing in support of the petitions calling to expand Natural Bridges SMR, Point Conception SMR, South Point SMR, Gull Island SMR, Cabrillo SMR, and Point Dume SMCA, strengthen the protections at Point Buchon SMCA and Farnsworth SMCA, and implement a new SMR at Pleasure Point.

We, as Californians, have a deep love for our ocean and feel a profound responsibility to participate in decisions that impact our state's coastal waters. Our ocean is not just a source of clean air, wildlife, and natural beauty but also a mystery that beckons exploration and discovery.

It is our moral imperative to lead the nation and the world in taking bold actions to preserve the sea in our own backyard, ensuring its future and the well-being of the communities that rely on it for their survival and prosperity.

In conclusion, I strongly urge you, Honorable Commissioners, to expand and strengthen California's MPA network to encompass and protect more critical ocean habitats. By doing so, you will leave a lasting legacy of environmental stewardship.
Thank you for your unwavering commitment to the welfare of our ocean and for considering this proposal. Together, we can ensure a healthier, more abundant future for the unique marine ecosystems that define California.

---

[4] James Horrox, Steve Blackledge and Kelsey Lamp, "New Life for the Ocean: How marine protections keep our waters wild," Environment America Research and policy Center & Frontier Group, February 2021
[5] California Department of Fish and Wildlife, 2022 California's Marine Protected Area Network Decadal Management Review

Sincerely,

Scott Wiener
Senator, 11th District

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California State Senate

SENATOR
JOHN LAIRD
SEVENTEENTH SENATE DISTRICT

COMMITTEES
BUDGET SUBCOMMITTEE #1 (EDUCATION)
CHAIR
JOINT COMMITTEE ON RULES
VICE CHAIR
BUDGET & FISCAL REVIEW
JUDICIARY
LABOR, PUBLIC EMPLOYMENT & RETIREMENT
NATURAL RESOURCES & WATER
JOINT LEGISLATIVE AUDIT COMMITTEE

February 14, 2024

California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

Subject: Petition to Increase Enhance Protections and Streamline Enforcement for Specified California State MPAs

Dear President Sklar and Honorable Commissioners:

As the Senator representing the Central Coast and the entire Monterey Bay shoreline, I am writing to express my strong support for the expansion of California's network of Marine Protected Areas (MPAs) to include the expansion of Natural Bridges State Marine Reserve, increased protection of Point Buchon State Marine Reserve/State Marine Conservation Area and the creation of a new MPA at Pleasure Point. Protecting critical marine habitat (including stable kelp forests) and increasing protections for existing MPAs are crucial steps in ensuring the long-term health of the state's treasured marine ecosystems.

Over two decades ago, the California legislature passed the groundbreaking Marine Life Protection Act (MLPA), which facilitated the creation of MPAs in California waters. According to the Environment America Research and Policy Center, MPAs have proven highly effective in conserving biodiversity, enhancing ecosystem resilience, and mitigating the impacts of climate change on our oceans. California's network of MPAs celebrated its tenth anniversary last year, and the state's Decadal Management Review revealed that marine life in existing reserves exhibited increased tolerance to recent marine heatwaves, and reserves across the state produced higher biomass commercially caught fish than did areas that lack that protection.

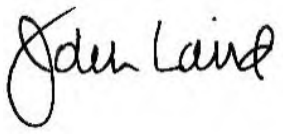
However, the state of our ocean is at a critical juncture, with escalating global sea surface temperatures, declining biodiversity, and a growing number of endangered marine species. Northern California has lost more than 95% of its kelp forests since 2014, and kelp forests statewide have experienced drastic declines in biomass over the past decade. Pollution, overfishing, offshore drilling, and other human activities are threatening marine habitat, and

climate change increases risk of extreme weather events and enhances stress on ocean ecosystems. In the face of these mounting threats, California has a unique opportunity to take bold and effective action to conserve ocean habitats.

I urge you to expand California's MPA network to encompass areas of persistent kelp forests, according to the scope of the adaptive management process of the Decadal Management Review. In particular, I am writing in support of the expansion and strengthening of the Point Buchon and Natural Bridges State Marine Reserves (SMRs) off the coast of my Senate district. It is our moral imperative to lead the nation and the world in taking bold actions to preserve marine habitat, starting in our own backyard, by ensuring its future and the well-being of the communities that rely on it for their survival and prosperity.

Thank you for your steadfast commitment to environmental stewardship and the welfare of our ocean. Together, we can ensure a healthier, more abundant future for the unique marine ecosystems that define California’s coast.

Sincerely,



John Laird
Senator, 17th District

California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

February 1, 2024

Re: **Petitions to Modify the CA Marine Protected Area Network to Enhance Protections**

Dear President Sklar and Honorable Commissioners,

As a local elected official and advocate for the health and vitality of California's coastal ecosystems, I am writing to express my unwavering support for the expansion of the state's network of Marine Protected Areas (MPAs). Implementing new highly or fully protected areas and increasing the rigor of existing marine protected areas are crucial steps in safeguarding our diverse marine species and ensuring the long-term well-being of the ecosystems off our shores.

The state of our ocean is at a critical juncture, with escalating global temperatures, declining biodiversity, and a growing number of endangered marine species. Northern California has lost more than 95% of its kelp forests since 2014, and kelp forests statewide have experienced declines over the past decade.[1] Pollution, overfishing, offshore drilling and other human activities are threatening ocean habitats and marine species, while the changing climate increases the risk of extreme weather events and puts even greater stress on ocean ecosystems.[2] [3]

In the face of these mounting threats, California has a unique opportunity to take bold and effective action to conserve ocean habitats and ensure a greater abundance of life off our coast. Over two decades ago, the state passed the groundbreaking Marine Life Protection Act (MLPA), which called on the state to use one of the most powerful tools for ocean conservation: marine protected areas (MPAs).

MPAs, like state parks on land, protect unique and important ocean habitats from activities that can damage ocean life. Areas that are strongly protected have been shown to be highly effective in conserving biodiversity, enhancing ecosystem resilience, and mitigating the impacts of climate change on our oceans.[4]

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[1] Meredith McPherson et. al, Large-scale shift in the structure of a kelp forest ecosystem co-occurs with an epizootic and marine heatwave, Communications Biology, March 5, 2021
[2] James Horrox, Steve Blackledge and Kelsey Lamp, "New Life for the Ocean: How marine protections keep our waters wild," Environment America Research and Policy Center & Frontier Group, February 2021.
[3] Arafeh-Dalmau et al., Integrating climate adaptation and transboundary management: Guidelines for designing climate smart marine protected areas, One Earth 6, 1–19 November 17, 2023 ª 2023 Published by Elsevier Inc.
[4] James Horrox, Steve Blackledge and Kelsey Lamp, "New Life for the Ocean: How marine protections keep our waters wild," Environment America Research and Policy Center & Frontier Group, February 2021.

California's network of MPAs, foreseen in the MLPA, celebrated its tenth-anniversary last year, and the state's decadal management review showed that marine life in existing reserves better withstood recent marine heatwaves, and reserves across the state had higher biomass of commercially caught fish than areas lacking protection.[5]

Now, we need to build on this system and maintain California's role as a leader, both nationally and globally, in the fight to protect more ocean habitats.

That's why I urge you to strengthen and expand our state's network of MPAs within the adaptive management process of the Decadal Management Review. In particular, I am writing in support of the petitions calling to expand Natural Bridges SMR, Point Conception SMR, South Point SMR, Gull Island SMR, Cabrillo SMR, and Point Dume SMCA, strengthen the protections at Point Buchon SMCA and Farnsworth SMCA, and implement a new SMR at Pleasure Point.

We, as Californians, have a deep love for our ocean and feel a profound responsibility to participate in decisions that impact our state's coastal waters. Our ocean is not just a source of clean air, wildlife, and natural beauty but also a mystery that beckons exploration and discovery. It is our moral imperative to lead the nation and the world in taking bold actions to preserve the sea in our own backyard, ensuring its future and the well-being of the communities that rely on it for their survival and prosperity.

In conclusion, I strongly urge you, Honorable Commissioners, to expand and strengthen California's MPA network to encompass and protect more critical ocean habitats. By doing so, you will leave a lasting legacy of environmental stewardship.

Thank you for your unwavering commitment to the welfare of our ocean and for considering this proposal. Together, we can ensure a healthier, more abundant future for the unique marine ecosystems that define California.

Sincerely,

Alex Miller, Council Member, City of Seaside

Teresa Acosta, Councilmember, City of Carlsbad

Yvette Brooks, Vice Mayor, City of Capitola

Andrea Marr, Council Member, City of Costa Mesa

Joaquin Jimenez, Mayor, City of Half Moon Bay

---

[5] California Department of Fish and Wildlife. (2022). California's Marine Protected Area Network Decadal Management Review.

Lisa Nash, Mayor, City of San Mateo

Christine Parra, Council Member, City of Santa Monica

Dan Kalmick, Council Member, City of Huntington Beach

Justin Massey, Mayor, City of Hermosa Beach

Angie Reyes English, Mayor Pro Tem, City of Hawthorne

Joan Hartmann, 3rd District Supervisor, City of Santa Barbara

Joy Lyndes, Council Member, City of Encinitas

Phil Brock, Mayor, City of Santa Monica

Jose Sanchez, Mayor, City of Monterey Park

Joel Torrez, Environment Deputy, LA County, Supervisor Janice Hahn

Anissa Raja, Legislative Director, Office of Councilmember Tim McOsker

California Fish and Game Commission
715 P Street, 16th floor,
Sacramento, CA 95814

February 14, 2024

RE: Petition to Modify CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests

Dear President Sklar and Honorable Commissioners:

Northern California has lost more than 95% of its kelp forests since 2014, and kelp forests statewide have experienced declines over the past decade.[1] California sea otters are still listed as threatened under the Endangered Species Act, and one of the biggest barriers to this species' recovery and range expansion is increased shark bites from a lack of kelp forest cover. Marine heatwaves have doubled over the last 30 years, and have become more intense and longer in duration, putting stress on California's marine species and ecosystems.[2]

In the face of these mounting threats, California has a unique opportunity to take bold and effective action to conserve ocean habitats and ensure a greater abundance of life off our coast. Over two decades ago, the state passed the groundbreaking Marine Life Protection Act (MLPA), which called on the state to use one of the most powerful tools for ocean conservation: marine protected areas (MPAs).

MPAs, like state parks on land, protect unique and important ocean habitats from activities that can damage ocean life. Areas that are strongly protected have been shown to be highly effective in conserving biodiversity, enhancing ecosystem resilience, and mitigating the impacts of climate change on our oceans.[3] By providing areas that serve as buffers against climate change, fully protected MPAs adapt to changing environmental conditions because they better preserve natural interactions within ecosystems, allowing for greater resiliency .[4]

California's network of MPAs, foreseen in the MLPA, celebrated its tenth anniversary last year, and the state's decadal management review showed that MPAs effectively protect ocean habitats and increase fishery-targeted species' biomass. Now, we need to build on this system and maintain California's role as a national and global leader in the fight to protect more ocean habitats.

Protecting specific habitat areas, including the remaining areas of stable kelp forests is a crucial step in safeguarding our diverse marine species and ensuring the long-term well-being of our ocean environments.

We support the expansion of the MPA Network to include some of the most resilient kelp forests along California's coastline, by expanding Cabrillo State Marine Reserve, Point Dume State Marine Conservation Area, South Point State Marine Reserve, Gull Island State Marine Reserve,

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[1] Meredith McPherson et. al, Large-scale shift in the structure of a kelp forest ecosystem co-occurs with an epizootic and marine heatwave, Communications Biology, March 5, 2021

[2] García-Reyes, Marisol, Andrew Leising, Rebecca Asch, Steven Bograd, and Tessa M Hill. Rep. Indicators of Climate Change in California, "Coastal Ocean Temperature", *California Office of Environmental Health Hazard Assessment,* 2022.

[3] Arafeh-Dalmau et al., Integrating climate adaptation and transboundary management: Guidelines for designing climate smart marine protected areas, One Earth 6, 1–19 November 17, 2023 ª 2023 Published by Elsevier Inc.

[4] Jankowska, Emilia, et al. "Climate Benefits from Establishing Marine Protected Areas Targeted at Blue Carbon Solutions." *Proceedings of the National Academy of Sciences*, vol. 119, no. 23, 2022.

Point Conception State Marine Reserve, Natural Bridges State Marine Reserve, and by creating a new MPA around the beautiful kelp forest off Pleasure Point near Santa Cruz. While kelp forests have faced declines statewide in recent years, in these areas they have persisted or bounced back quickly in the face of marine heatwaves and other disturbances.[5] By expanding protections for these resilient forests under the MLPA, the state can minimize direct human impacts in these relatively healthy areas, helping to ensure their continued persistence and enhancing the effectiveness of restoration efforts for declining kelp ecosystems nearby.

Enhancing the protection of California's kelp forests strongly aligns with Goals 1, 2, 3, and 4 of the MLPA by preserving natural diversity, sustaining marine life populations, protecting marine habitats for their intrinsic value, and improving recreational and educational opportunities while minimizing human disturbance. [6] Safeguarding resilient kelp ecosystems will ensure critical habitat preservation for diverse marine species, including endangered sea otters and commercially valuable fish.

Our ocean is a source of clean air, wildlife, and natural beauty, but also a mystery that beckons preservation and exploration. California has the opportunity to lead the nation and the world in taking bold action to preserve the sea, ensuring its future and the well-being of the communities that rely on it for their survival and prosperity.

Sincerely,

Laura Deehan
State Director
Environment California Research and Policy Center

Tomas Valadez
CA Policy Associate
Azul

Robert Vergara
Roger Arliner Young (RAY) Ocean Conservation Fellow
Natural Resources Defense Council

Clara Castronovo
Board Chair

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[5] California Department of Fish and Wildlife. (2022). California's Marine Protected Area Network Decadal Management Review.
[6] "Marine Life Protection Act." CDFW. https://wildlife.ca.gov/Conservation/Marine/MPAs/MLPA.

CALPIRG Students

Keith Shattenkirk
Program Officer, Healthy Lands and Waters
Patagonia

Susan Jordan
Executive Director
California Coastal Protection Network

Ashley Eagle-Gibbs
Interim Executive Director
Environmental Action Committee of West Marin

Krista Rogers
Program Manager
Save Our Shores

Azsha Hudson
Marine Conservation Analyst
Environmental Defense Center

Chelsea Tu
Executive Director
Monterey Waterkeeper

Angela Kemsley
Conservation Director
WILDCOAST

Janet Cox
President
Climate Action CA

Pauline Seales
Organizer
Santa Cruz Climate Action Network

Dan Silver
Executive Director

Endangered Habitats League

Josefina Barrantes
30x30 Coordinator
Environmental Protection Information Center (EPIC)

Martha Camacho Rodríguez
Director
SEE (Social Eco Education)

Megan Shumway
Member
CHN, Sacramento Climate Coaltion, SacAct

Antonina Markoff
Coordinator
The Climate Reality Project California State Coalition

Robert Gould, MD
President
San Francisco Bay Physicians for Social Responsibility

Esperanza Vielma
Executive Director
Environmental Coalition for Water Justice

Daniel Chandler
Steering Committee Member
350 Humboldt

Andria Ventura
Legislative and Policy Director
Clean Water Action/Clean Water Fund

Daniel Gluesenkamp
Executive Director
California Institute for Biodiversity

Elizabeth Dougherty
Executive Director

Wholly H2O

Baani Behniwal
Natural Sequestration Initiative Manager
The Climate Center

Jim Lindburg
Legislative Consultant
Friends Committee on Legislation of California

Scott Black
Executive Director
Xerces Society for Invertebrate Conservation

California Fish and Game Commission
715 P Street, 16th floor,
Sacramento, CA 95814

February 14, 2024

RE: Petition to Increase Level of Protection and Streamline Enforcement for Several California State MPAs

Dear President Sklar and Honorable Commissioners:

Our ocean is at a critical juncture, with escalating global temperatures, declining biodiversity, and a growing number of endangered marine species. Only 50 Pacific leatherback turtles are now found foraging off California's coast, a notable decrease from the 178 Pacific leatherbacks

observed from 1990 to 2003.[1] Marine heatwaves have doubled over the last 30 years and have become more intense and longer in duration, putting stress on California's marine species and ecosystems. [2]

In the face of these mounting threats, California has a unique opportunity to take bold and effective action to conserve ocean habitats and ensure a greater abundance of life off our coast. Over two decades ago, the state passed the groundbreaking Marine Life Protection Act (MLPA), which called on the state to use one of the most powerful tools for ocean conservation: marine protected areas (MPAs).

MPAs, like state parks on land, protect unique and important ocean habitats from activities that can damage ocean life. Areas that are strongly protected have been shown to be highly effective in conserving biodiversity, enhancing ecosystem resilience, and mitigating the impacts of climate change on our oceans.[3] By providing areas that serve as buffers against climate change, fully protected MPAs adapt to changing environmental conditions because they better preserve natural interactions within ecosystems, allowing for greater resiliency .[4]

California's network of MPAs, foreseen in the MLPA, celebrated its tenth anniversary last year, and the state's decadal management review showed that MPAs effectively protect ocean habitats and increase fishery-targeted species' biomass. Now, we need to build on this system and maintain California's role as a national and global leader in the fight to protect more ocean habitats.

Protecting specific habitat areas and increasing the rigor of existing marine protected areas are crucial steps in safeguarding our diverse marine species and ensuring the long-term well-being of our ocean environments.

It is vital that existing California MPAs are able to achieve their stated goals of conserving biodiversity and ecosystem health. We encourage the state to consider increasing protections for MPAs that are currently only lightly or minimally protected, especially in places where weaker

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[1] Benson, Scott R., Karin A. Forney, Jeffrey E. Moore, Erin L. LaCasella, James T. Harvey, and James V. Carretta. "A Long-Term Decline in the Abundance of Endangered Leatherback Turtles, Dermochelys Coriacea, at a Foraging Ground in the California Current Ecosystem." *Global Ecology and Conservation* 24 (November 2020).

[2] Teri E. Nicholson, Karl A. Mayer, Michelle M. Staedler, Jessica A. Fujii, Michael J. Murray, Andrew B. Johnson, M. Tim Tinker, Kyle S. Van Houtan, Gaps in kelp cover may threaten the recovery of California sea otters, *Ecography, a Journal of Space and Time in Ecology,* (February, 2018).
García-Reyes, Marisol, Andrew Leising, Rebecca Asch, Steven Bograd, and Tessa M Hill. Rep. Indicators of Climate Change in California, "Coastal Ocean Temperature", *California Office of Environmental Health Hazard Assessment,* 2022.

[3] Arafeh-Dalmau et al., Integrating climate adaptation and transboundary management: Guidelines for designing climate smart marine protected areas, One Earth 6, 1–19 November 17, 2023 ª 2023 Published by Elsevier Inc.

[4] Jankowska, Emilia, et al. "Climate Benefits from Establishing Marine Protected Areas Targeted at Blue Carbon Solutions." *Proceedings of the National Academy of Sciences*, vol. 119, no. 23, 2022.

or more complicated regulations lead to poor compliance and enforcement. We are proposing stronger protections for Point Buchon SMCA and the Farnsworth Onshore and Offshore SMCAs. Research has shown that highly and fully protected areas, where few if any destructive or extractive activities are allowed, provide greater ecological benefits than lightly or minimally protected areas.[5]

Enhancing the protection of California's critical ocean habitats strongly aligns with Goals 1, 2, 3, and 4 of the MLPA by preserving natural diversity, sustaining marine life populations, protecting marine habitats for their intrinsic value, and improving recreational and educational opportunities while minimizing human disturbance. [6] Safeguarding and further protecting critical marine habitats will ensure critical habitat preservation for diverse marine species, including endangered sea otters and commercially valuable fish.

In summary, we encourage you, Fish and Game Commissioners, to actively support strengthening and expanding California's Marine Protected Areas.

We appreciate your steadfast dedication to our ocean's well-being and consideration of this pressing issue. Working together, we can secure a more robust future for California's distinctive marine ecosystems.

Sincerely,

Laura Deehan
State Director
Environment California Research and Policy Center

Tomas Valadez
CA Policy Associate
Azul

Robert Vergara
Roger Arliner Young (RAY) Ocean Conservation Fellow
Natural Resources Defense Council

Clara Castronovo
Board Chair
CALPIRG Students

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[5]Kirsten Grorud-Colvert *et al.*, The MPA Guide: A framework to achieve global goals for the ocean. *Science* **373** ,eabf0861(2021). DOI:10.1126/science.abf0861

[6] "Marine Life Protection Act." CDFW. https://wildlife.ca.gov/Conservation/Marine/MPAs/MLPA.

Keith Shattenkirk
Program Officer, Healthy Lands and Waters
Patagonia

Susan Jordan
Executive Director
California Coastal Protection Network

Krista Rogers
Program Manager
Save Our Shores

Chelsea Tu
Executive Director
Monterey Waterkeeper

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Janet Cox
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Esperanza Vielma
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Environmental Coalition for Water Justice

Daniel Chandler
Steering Committee Member
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Daniel Gluesenkamp
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Elizabeth Dougherty
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Baani Behniwal
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Jim Lindburg
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Angela Kemsley
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Betsy López-Wagner
Principal
López-Wagner Strategies, an Equitable Communications Agency®

Scott Black
Executive Director
Xerces Society for Invertebrate Conservation

FGC@FGC

From: Rick Duenas <ricduenas@gmail.com>
Sent: Friday, February 2, 2024 8:41 AM
To: FGC
Subject: Public comment on several 2023-MPA petitions

Dear Members of the Commission,

My name is Rick Duenas. I reside in Pacifica, CA but recreate up and down the coast. I write to you as an avid angler and spearfisherman expressing concern and opposition regarding several of the 2023 MPA petitions that impact areas for which I am both a consumptive stakeholder and steward. Many of these petitions will exclude and alienate consumptive stakeholders from participating in the MPA network, whether through designation changes or boundary expansions. I urge you to please reject petitions 2023-23MPA, 2023-24MPA, 2023-26MPA, 2023- 27MPA, 2023-29MPA, 2023-32MPA, 2023-33MPA, and 2023-34MPA for the reasons enumerated below.

- 2023-23MPA: This petition will effectively ban fishing and spearfishing from the entire north side of the Monterey Peninsula by converting existing SMCAs to no-take SMRs. These SMCAs provide important nearshore opportunities for various consumptive stakeholders. The petitioner, as they attempted in a prior petition rejected by FGC (petition 2023-02), incorrectly claims eliminating finfish take will benefit kelp. In fact, the literature cited by the petition itself even states "[population and mean biomass responses] in the Central Coast MPAs were highly variable" and "kelp canopy monitoring from Landsat remote sensing did not detect a strong effect of MPA protection on average kelp canopy area." (Carr, et al.) This petition is not grounded in scientific reasoning or sound fisheries management and should be rejected.
- 2023-24MPA: This petition will effectively ban fishing, spearfishing, and all other take in the entirety of Laguna Beach. The petitioner cites ease of enforcement and anecdotal overharvesting and substrate degradation as rationale. This is unfair to consumptive stakeholders, essentially saying "it is too hard for city enforcement to learn the different regulations between different areas, so we want to impose a blanket ban on all consumptive stakeholders rather than addressing the root problem of educating the public." Frankly, this petition proposes lazy, non-adaptive management and should be rejected.
- 2023-26MPA: This petition aims to protect intertidal habitat and simplify enforcement but will effectively ban lobster diving from the productive reef at the southern end of Cardiff State Beach. This petition should be rejected and the petitioner advised to propose a smaller, intertidal-take-specific MPA in its place if that truly is the concern.
- 2023- 27MPA: This petition aims to protect eel grass against anchor and lobster trap damage by converting Anacapa SMCA to a no-take SMR but will effectively ban consumptive take on the entire northern side of Anacapa Island. Why not simply address these threats via regulation change instead of designation change? This petition should be rejected and the petitioner advised

to propose a regulation change that prohibits lobster trapping and anchoring shallower than 20 meters; this will allow anglers and divers to drift through or swim in, the intention of the original regulations.

- 2023-29MPA: This petition will effectively ban all take off Carpinteria in Santa Barbara County. This is a popular and important nearshore access opportunity for lobster diving, which is limited to shallow reefs like those found here. This petition should be rejected or revised to make an exemption for low impact take like lobster diving and shore angling.
- 2023-32MPA: This petition will severely limit shore angling opportunities off the Marin coastline. This is an equity issue in that shore-based anglers cannot simply motor to other areas in boats. This petition should be rejected in favor of public education and outreach.
- 2023-33MPA: This petition will severely limit consumptive stakeholder opportunities in several important kelp forests in Southern and Central California, kelp forests that provide equitable access to nearshore activities like angling, lobster diving, and spearfishing. It is inappropriate for a single petition to propose changes to seven unrelated areas; this petition should be split into seven distinct petitions to weigh stakeholder input for each specific area. These expansions are unnecessary in that they target kelp forests that have done particularly well the last decade without MPA intervention. The petition cites warm water events and pollution as threats to kelp forests, yet expanding MPA areas do nothing to mitigate these threats. It is also important to manage these areas in the status quo to serve as a scientific control to compare the efficacy of other MPAs against. This petition should be rejected. Particularly egregious proposals therein:
    - Expanding Cabrillo SMR as proposed will result in divers and anglers losing access to 100% of nearshore reefs and kelp in San Diego.
    - Expanding South Point SMR as proposed will result in divers and anglers losing access to 50% of the south coastline of Santa Rosa Island.
    - Expanding Natural Bridges SMR (and intertidal-focused MPA) to 3nm offshore will eliminate large swaths of groundfish and salmon opportunity from anglers, completely unrelated to the inshore kelp.
    - Designating the Pleasure Point SMR as proposed will result in divers and anglers losing access to important inshore reefs and kelp in eastern Santa Cruz County.
- 2023-34MPA: This petition aims to ease enforcement and compliance by converting Point Buchon SMCA to a no-take SMR. Again, this is throwing the baby out with the bath water. Moreover, the petitioner justifies prohibiting take of salmon because there is a temporary statewide salmon closure, leaving no room for this to change in the future with better recruitment conditions. This petition should be rejected in favor of public education, outreach, and increase enforcement emphasis on the existing MPA.

In summary, the aforementioned petitions alienate and restrict opportunity for a large cohort of consumptive stakeholders across the state in an uncompromising and blanket manner. These petitions should be rejected and the petitioners advised to re-group and bring to the table more specific solutions that address root causes to the compliance, enforcement and protection gaps identified as rationale.

Thank you for your time.

Sincerely,
Rick Duenas

FGC@FGC

From: Michael Eberhardt <[redacted]>
Sent: Sunday, February 4, 2024 11:33 AM
To: FGC
Subject: Subject: Opposition to Proposed MPAs - Petitions 2023-23MPA, 2023-24MPA, 2023-26MPA, 2023-29MPA, 2023-32MPA, and 2023-33MPA

Michael Eberhardt

[redacted],

San Francisco, CA [redacted]

[redacted]com

[redacted]

2.4.24

Fish and Game Commission

715 P Street, 16th floor,

Sacramento, 95814

Subject: Opposition to Proposed MPAs - Petitions 2023-23MPA, 2023-24MPA, 2023-26MPA, 2023-29MPA, 2023-32MPA, and 2023-33MPA

Dear Commissioners,

I am writing to express my strong opposition to the series of Marine Protected Area (MPA) petitions currently under consideration, specifically 2023-23MPA, 2023-24MPA, 2023-26MPA, 2023-29MPA, 2023-32MPA, and 2023-33MPA. These proposed changes, I believe, are not only detrimental to the rights and

interests of consumptive stakeholders but are also lacking in scientific rationale, equitable enforcement strategies, and fail to directly address the purported environmental concerns.

2023-23MPA seeks to convert existing State Marine Conservation Areas (SMCAs) on the north side of the Monterey Peninsula into no-take State Marine Reserves (SMRs), effectively banning all fishing and spearfishing activities. This proposal disregards the importance of these areas for consumptive users and is based on the unfounded claim that prohibiting finfish take will benefit kelp forests. This approach is not supported by scientific evidence and overlooks the need for sound fisheries management practices.

2023-24MPA proposes a complete ban on fishing, spearfishing, and all other take activities in Laguna Beach. The justification for this sweeping prohibition—citing enforcement difficulties and anecdotal evidence of overharvesting—overlooks the fundamental issue of public education on existing regulations. This blanket approach unfairly penalizes law-abiding stakeholders and is an example of regulatory overreach based on convenience rather than necessity.

2023-26MPA aims to protect intertidal habitats at Cardiff State Beach but in doing so would unjustly prohibit lobster diving in one of the area's most productive reefs. This proposal is an overextension of enforcement simplification that sacrifices valuable recreational opportunities without considering more targeted and reasonable restrictions.

2023-29MPA seeks to eliminate all take activities off Carpinteria, impacting essential access for low-impact recreation such as lobster diving. This area is crucial for sustainable nearshore activities, and the proposed ban disregards the socio-economic benefits derived from these practices.

2023-32MPA would significantly restrict shore angling and some kayak fishing opportunities off the Marin coastline by expanding the Duxbury Reef SMCA. This change is proposed under the guise of enforcement ease but in reality, would severely limit public access to marine resources without a clear environmental justification.

2023-33MPA proposes broad restrictions across several key kelp forest areas in Southern and Central California. The sweeping nature of this petition fails to consider localized stakeholder input and does not effectively address the cited threats of warm water events and pollution. Instead, it would indiscriminately restrict access to valuable fishing grounds and recreational areas.

In summary, these petitions lack a balanced consideration of ecological preservation, stakeholder interests, and the socio-economic impact on local communities. They also fail to provide compelling scientific evidence to justify such extensive prohibitions. I urge the Commission to reject these proposals and to seek more targeted, science-based, and equitable solutions to marine conservation challenges.

Thank you for considering my views on this matter. I trust that the Commission will make decisions that are in the best interest of both our marine ecosystems and the communities that rely on them.

Sincerely,

Michael Eberhardt

FGC@FGC

From: Joe Huettl <[redacted]>
Sent: Sunday, February 4, 2024 4:12 PM
To: FGC
Subject: MPA

Dear President Sklar and Honorable Members of the Commission,

I am writing to oppose the following petitions under consideration at this month's Fish and Game Commission meeting.

2023-23MPA - Eliminating Tanker's Reef would remove an important area from a popular kayak fishing destination for rockfish, California halibut, sardines, and other fin fish. Kayak fishing has little or no impact on kelp beds. Changing three SMCAs to SMRs would also eliminate areas that are currently available and popular to catch squid recreationally. The petitioner makes statements regarding recreational fishing effects on both kelp health and diver safety that are not backed by science. The culling of urchins is listed as the primary strategy of kelp restoration and they do not make a good case for recreational fishing having much of an affect on that.

2023-33MPA - Expanding Natural Bridges SMR three nautical miles out goes far beyond the goals of the petition and severely negatively affects recreational fishing. Recreational fishing has little to no affect on kelp forests. Creating a new SMR at Pleasure Point would have a huge impact on recreational fishing with very little benefit to kelp restoration. This is a popular fishing area for non-motorized vessels and small boats. At some point these restrictions would eliminate Santa Cruz as a fishing destination, with local economic impacts to follow. In one of their letters they state that the proposed MPA is not subject to any significant commercial take. So the designation would affect sport fishing and diving for the most part.

2023-32MPA - Changing Duxbury Reef SMCA to an SMR will eliminate local shore fishing opportunities. Expanding the proposed SMR could have a negative affect on kayak and boat fishing.

2023-20MPA - Expanding Point Buchon North would eliminate one of the few ocean kayak fishing opportunities on the Central Coast.

Please take into account the loss of recreational fishing opportunities and their effect on local economies and morale.
This current barrage of petitions to expand the MPA network is meant to overwhelm the opposition and disregards the thousands of Californians who fish recreationally.

Sincerely,

Joseph Huettl
[redacted].
Walnut Creek , CA [redacted]

From: art montereyabalone.com <[redacted]>
Sent: Monday, February 5, 2024 11:05 AM
To: Wildlife Kelp <Kelp@wildlife.ca.gov>
Cc: Amanda Fay <[redacted]>; andrew montereyabalone.com <[redacted]>
Subject: RE: new/revised MPA's near Monterey

Sorry, I saw another area of interest, and would appreciate more information about the following petition:
XIX. Petition 2023-33MPA: Expand the boundaries of five SMRs and one SMCA, and designate a new SMR off Pleasure Point, in Santa Cruz

In general, we would be concerned about a closure of kelp harvesting in the area of Soquel Point and Pleasure Point given that they are important options if kelp is scarce around Cannery Row/Pacific Grove. With the existing SMR which prohibits harvesting around Lover's Point and Cove, and the urchin related scarcity of kelp beyond Otter Cove to Point Pinos, we are sometimes forced to harvest in either Carmel Bay or the area around Soquel and Pleasure Points.

Thanks, Art

February 8, 2024

California Fish and Game Commission
715 P Street, 16th Floor,
Sacramento, CA 95814

RE: Discussion Item 10 - Regulation change petitions (marine)

Dear President Sklar, Vice President Zavaleta & Commissioners,

We appreciate the opportunity to comment on the numerous petitions under consideration at the February meeting of the California Fish & Game Commission, and we offer the perspective of the many hundred thousand supporters of our organizations to the Commission. We express grave concerns regarding several of the proposals to eliminate fishing access along large stretches of the California coast and argue that many of the petitions lack adequate scientific support and documentation to substantiate their positions.

The Decadal Management Review (DMR) of the Marine Protected Area Network (MPA) has offered important insights for MPA managers to help shape the adaptive management of MPA regulations, including promising research that MPAs may increase biomass and provide resiliency against the impacts of a changing climate for some species. The intent of the Marine Life Protection Act (MLPA) and the stewardship of our coastal resources are of paramount importance to California's heritage. However, these laudable goals and conservation benchmarks should not preclude access to harvest coastal foods where state and federal fisheries managers have demonstrated robust and resilient fish stocks without any current threat of overfishing, nor for those species where targeted fishing and active management would benefit the overall ecosystem balance.

There are numerous, seemingly well-intentioned petitions currently before the Fish & Game Commission that seek to preserve California's coastal waters citing anthropogenic impacts to biodiversity and ecosystems such as pollution, rising sea temperatures, disease, development and overfishing. While we support the intent to safeguard our fish stocks, biodiversity, and ecosystem integrity, we strongly disagree with the all-or-nothing approach adopted by many of the petitioners who proffer the wholesale elimination of fishing access without adequate scientific rationale or the acknowledgement of regulatory mechanisms already in place such as those established by the Magnuson-Stevens Fishery Conservation and Management Act working through the Pacific Fisheries Management Council, National Oceanic and Atmospheric Administration (NOAA) Fisheries, the California Department of Fish and Wildlife (CDFW), the Fish & Game Commission, and the additional state/federal laws and agencies dedicated to this task. Simply put, many of the petitions referenced below seek to advance preservation at all costs, pushing for wholesale closures that circumvent the regulatory processes already in place, ultimately bludgeoning access for the diverse angling communities that have revered these coastal traditions for generations.

Anglers and consumptive users will often be the first and loudest voices to advocate for restrictions or even closures to ensure the sustainability of a fishery, as evidenced by the numerous fishing groups and organizations advocating for the closure of the 2023 salmon season following the data and dismal projections provided by the Pacific Fisheries Management Council and CDFW. However, a Californian

constitutional right to fish seems to stand in conflict with the presumption that restriction of access is permissible where there is a lack of scientific evidence or data to justify the closure. Section 1, Article 25 of the California Constitution states, "the people shall have the right to fish upon and from the public lands of the State and in the waters thereof," and the courts in re Quinn (1973) defined "public lands of the state" referenced in this article to include "access to fish in the inland streams and coastal waters of the state."

Shore fishing, diving/spearfishing, kayak/boat fishing and coastal gathering are low impact activities that reflect the broad spectrum of California's diverse community and constitute a valuable resource for individuals across the economic divide to access nature and provide food for their families. We encourage the Commission and MPA managers to consider the numerous communities that enjoy the state's many sustainable food resources when considering protections and recommendations that might unnecessarily exclude these groups. We feel that these considerations are in line with the California Natural Resources Agency's Outdoors for All initiative and its commitment in the Pathways to 30x30 document to "implement projects that do no further harm or pose unintended consequences to historically marginalized communities."[1] Specifically, we wish to highlight this issue with regards to the expansion of California's MPA network which restricts shore-based diving, foraging, and fishing access for all Californians – especially historically marginalized communities, communities of color and Native American tribes. From California's Constitutional Right to Fish:

> Anglers from historically marginalized communities may be less able to travel to fishing locations and are more likely to require shore access, as opposed to access from a boat. Anglers in communities like this need accessible shore-fishing, particularly given the importance of subsistence fishing in poorer communities. Moreover, fishing opportunities offer physical and psychological benefits to disadvantaged communities, not just access to fish as food.[2]

It is within this context that we urge the Commission to take the following actions with regards to the petitions they have received.

Petition 2023-14MPA: *Allow commercial take of red sea urchins in nine state marine conservation areas (SMCAs)*

We recommend referring this petition to the Department of Fish & Wildlife for review and recommendation.

Petition 2023-15MPA: *Reclassify three northern Channel Islands state marine reserves (SMRs) to SMCAs and allow take of highly migratory species, pelagic finfish, and/or coastal pelagic finfish*

We recommend referring this petition to the Department of Fish & Wildlife for review and recommendation, but are encouraged by the proposal and the potential opportunity to gather more data on limited take MPAs and long-term MPA monitoring at the Channels Islands.

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[1] https://resources.ca.gov/-/media/CNRA-Website/Files/Initiatives/30-by-30/Final_Pathwaysto30x30_042022_508.pdf

[2] Coats, Francis, and Karrigan Bork. "CALIFORNIA'S CONSTITUTIONAL RIGHT TO FISH." *Environmental Law*, vol. 51, no. 4, 2021, pp. 1085–147. *JSTOR*, https://www.jstor.org/stable/48647570. Accessed 22 Mar. 2023.

Petition 2023-16MPA: *Reclassify Stewarts Point and Bodega Head SMRs to SMCAs and allow commercial take of salmon.*

We recommend referring this petition to the Department of Fish & Wildlife for review and recommendation.

Petition 2023-18MPA: *Modify allowed uses for four marine protected areas (MPAs) in Santa Barbara Channel and eliminate two special closures.*

We recommend referring this petition to the Department of Fish & Wildlife for review and recommendation.

Petition 2023-19MPA: *Designate new "Chitqawi" SMCA near Morro Bay for California-Chumash co-management*

We recommend referring this petition to the Department of Fish & Wildlife for review and recommendation.

Petition 2023-20MPA: *Reclassify and rename Point Buchon SMR to "Chumash SMCA" for co-management with tribal take exemption.*

We recommend referring this petition to the Department of Fish & Wildlife for review and recommendation.

Petition 2023-21MPA: *Modify Pyramid Point SMCA to remove recreational take of surf smelt and allow tribal take exemption for Tolowa Dee-ni' Nation.*

We recommend referring this petition to the Department of Fish & Wildlife for review and recommendation.

Petition 2023-22MPA: *Define "rocky intertidal zone," add research, monitoring, restoration and education allowance, and clarify protections in several Orange County MPAs.*

We recommend referring this petition to the Department of Fish & Wildlife for review and recommendation.

Petition 2023-23MPA*: Reclassify three SMCAs to SMRs, designate one new SMR in Monterey, and make various changes related to kelp restoration.*

We recommend the Commission deny this petition.

While the petitioner's intent to restore kelp forests and ecosystem integrity at tankers reef and in the surrounding waters is laudable, this broadly proscriptive petition would unnecessarily restrict access for anglers where there is no clear scientific rationale. In fact, the petitioner submitted a very similar petition seeking to close access for groundfish along a large stretch of the coast in this region in 2023 which the Department of Fish & Wildlife rejected citing a lack of scientific evidence to support the claim. We support the ongoing efforts to restore kelp forests through urchin culling and other means, however we oppose reclassifying these SMCAs to SMRs and the establishment of a new SMR in Monterey.

Petition 2023-24MPA: *Expand Laguna Beach no-take SMCA southward to border of City of Laguna Beach and modify Dana Point SMCA boundaries*

We recommend the Commission deny this petition.

We oppose this petition on the basis that it lacks scientific documentation or justification to eliminate fishing access in the proposed area. The petitioner argues primarily for administrative ease that the no-take closure be extended to the edge of city limits. During the implementation of the MLPA, MPAs were sited utilizing careful selection criteria based on habitat type, proximity from other MPAs, impact to communities and more. The petitioner argues that all beaches within the City of Laguna Beach should be no-take MPAs in order to streamline enforcement and that homeowners "feel that it is not equitable to have only the north and central beaches protected." It should be noted that the petitioner also states clearly in the Economic or Fiscal Impact section of the petition that "estimated resident property values gain an increase of 20% from proximity to a fully protected MPA" which may explain more robust support from the city and homeowners.

The petitioner also cites kelp forest health as justification for eliminating fishing access, however the 100 + page report included with the petition doesn't reference fishing pressure or boat activity with regards to kelp forest health and instead focuses on water temperature, nutrients, wave height, upwelling, rainfall and other stressors. As such, we recommend the Commission deny this petition since there is no scientific documentation to support its claims, and it would only negatively impact anglers who would be forced to travel further to reach fishing grounds.

Petition 2023-27MPA: *Reclassify a portion or all of Anacapa SMCA to an SMR to protect eelgrass*

We recommend referring this petition to the Department of Fish & Wildlife for review and recommendation. We recognize the value of eelgrass beds for overall ecosystem health and habitat; however, it should be noted that many recreational anglers who target pelagic fish do not anchor and instead prefer to drift fish or troll instead which would have zero impact on the bottom habitat and eelgrass.

Petition 2023-28MPA: *Designate a new SMR at Point Sal, or designate as an SMCA with a tribal take exemption based on tribal consultation*

We recommend the Commission deny this petition.

While the petitioner takes time to identify the important habitat types, larval transport zones, and cultural significance of the Point Sal area, and they reference potential threats to the region from coastal development and industry, they fail to elaborate in any substantive way why fishing access should be removed from this wild and iconic central coast fishing destination. The petitioner states: "current [commercial] fishing in the proposed area is limited, likely due to its considerable distance from nearest port areas of Morro Bay and Santa Barbara." They also admit that they have no data or analysis with regards to recreational fishing and state, "our request to CDFW for recreational fishing data from this area was being processed at time of submission; we will evaluate the potential impact to recreational fishers and submit it to the state following receipt of the requested data."

A limited google search of "Point Sal fishing" also uncovers a large number of recreational fishing blogs and videos detailing the remote and adventurous hike to fish this area from a diverse population of anglers. In 2023 one blogger wrote, "had a great time hiking miles and miles and miles to fish Point Sal with Martin Mansera from Mansera Outdoors…It's such a remote location and so difficult to access, it

makes for a really rad adventure." Recreational fishing trips to the area by boat are also common, and fishing is noted in nearly every travel guide or city/county website that talks about visiting Point Sal.

Regarding access and disadvantaged communities, the petitioner writes, "the California Environmental Protection Agency identifies the adjacent city of Guadalupe as "disadvantaged" under CA Senate Bill 535, and their synthesis of environmental and socioeconomic indicators further reveals that Guadalupe – alongside Santa Maria and Lompoc – are underprivileged communities that experience significant cumulative impacts from pollution. Given these communities' close proximity to Point Sal, implementing an SMR at the proposed site could enhance access for disadvantaged populations to valuable coastal resources and fishing opportunities."

To justify this confounding claim that removing fishing access could somehow *enhance fishing opportunities* for disadvantaged communities, the petitioner cites a study of commercial lobster fishing and the concept of "spillover." They write, "California's MPAs have been shown to increase the biomass of fishery-targeted species and promote "spillover" into nearby coastal areas, benefitting nearby fishing grounds."

Spillover and the positive impacts to fisheries located in waters adjacent to MPAs are often referenced in association with the MPA network, and the limited, initial science has demonstrated some positive correlations with spillover of invertebrates like lobsters to adjacent fishing grounds in select study areas and commercial fishing for tuna in Hawaii. However, there remains an opportunity to further study this hypothesis and to promote scientific research that successfully documents spillover of targeted finfish across the MPA network in California. Some data from MPA monitoring along the Central California Coast indicated limited evidence of spillover from targeted finfish that were tagged and recaptured at a later point during the study period as evidenced from the Starr et al study: Variation in Responses of Fishes across Multiple Reserves within a Network of Marine Protected Areas in Temperate Waters:

> As of July 2014, a total of 251 individual tag recaptures have been reported (Table 8). Tagged fishes were recaptured by commercial and recreational hook-and-line fishermen, commercial trap fishermen, SCUBA divers, and during our fishing surveys. Of all the tagged fishes recapture and reported, 71% were recaptured in the same site and grid cell as they were released, and 22% of recaptured fishes were caught within the same site but outside the original grid cell where they were released. Only 18 fish, or 7% of the recaptured fishes, were recaptured beyond the boundaries of the MPA or REF site in which they were released. The mean net distance moved by eight of nine species recaptured was less than half the length of the MPAs we studied.[3]

While we do not seek to draw conclusions regarding the overall merits of spillover to adjacent fisheries from the results of one study, we do encourage additional research to evaluate the impacts that MPAs have on local fisheries and fisheries as a whole, especially within the context of varied siting and disparate habitat types evidenced across the MPA network. As the Forcada study indicated, "We conclude that spillover effects are not a universal consequence of siting MPAs in temperate waters and they are related to the distribution of habitats inside and around MPAs." (Forcada et al., 2009).

Due to the limited scientific understanding of spillover as it relates to the Marine Protected Area Network as a whole, especially with regards to finfish which would be the primary target of recreational shore and

[3] 4 Starr RM, Wendt DE, Barnes CL, Marks CI, Malone D, et al. (2015) Variation in Responses of Fishes across Multiple Reserves within a Network of Marine Protected Areas in Temperate Waters. PLOS ONE 10(3): e0118502. https://doi.org/10.1371/journal.pone.0118502

boat-based anglers at Point Sal, we disagree with the petitioner's logical assumptions and the argument as a whole. In fact, when considered in the context presented from the *Constitutional Right to Fish* article, the discussion is turned on its head entirely. "Anglers from historically marginalized communities may be less able to travel to fishing locations and are more likely to require shore access, as opposed to access from a boat. Anglers in communities like this need accessible shore-fishing, particularly given the importance of subsistence fishing in poorer communities."[4]

With the two large no-take SMRs located just South of this newly proposed MPA (Vandenberg SMR & Point Conception SMR) and Point Buchon to the North, it would seem the opportunities to fish and forage the coast for residents of Guadalupe, Lompoc and Santa Maria are already few and far between. In fact, in 2022 the City of Lompoc petitioned the Fish & Game Commission to allow for shore-fishing access along a ½ mile stretch of beach with in the Vandenberg SMR, citing a lack of access to historic fishing grounds for the local communities.

We share the petitioner's concerns regarding habitat disruption from off-shore energy production and the associated infrastructure, however, we note the likely establishment of the Chumash Heritage National Marine Sanctuary (CHNMS) designation which would effectively curtail any development or offshore energy production in this region. Planning for the CHNMS has included fishing access as a key component of the proposed designation.

As a result, we recommend the Commission deny this petition.

Petition 2023-29MPA: *Designate a new SMCA with a tribal take exemption for and co-management with Santa Ynez Band of Chumash Indians in Santa Barbara*

We recommend the Commission deny this petition.

We oppose the petitioner's request to designate a new, no-take SMCA in Carpinteria for several reasons. First, the petitioner argues that spacing and connectivity is a key concern in this location with the distance between the Campus Point and Point Dume SMCAs at 64 nautical miles (nm) instead of the recommended 54 nm to ensure ecological connectivity. When this request is examined within the broader context of MPA siting, it is clear that the target spacing between MPAs could be easily achieved by moving the Campus Point SMCA South or the Point Dume SMCA North, since both are located well-within the recommended 54nm from adjacent MPAs on either side.

Additionally, the petitioner cites the location as important nursery habitat for juvenile great white sharks as justification for establishing a no-take SMR. They write, "Research conducted in the Southern California Bight has found that fisheries bycatch is likely the main source of mortality for JWS." However, the article they cite to support this claim, John F. Benson et. al., discloses that for great white sharks they captured and tagged, "mortality risk was substantially greater off the coast of Baja, Mexico compared with California." Importantly, the research paper also states, "that incidental gillnet capture continues to be the primary source of mortality for juveniles. The lower mortality risk we documented in California waters suggests that full closure of gillnet fishing close to shore is a more effective management strategy than simply banning targeted fishing to reduce mortality risk due to bycatch." [5]

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[4] Coats, Francis, and Karrigan Bork. "CALIFORNIA'S CONSTITUTIONAL RIGHT TO FISH." *Environmental Law*, vol. 51, no. 4, 2021, pp. 1085–147. *JSTOR*, https://www.jstor.org/stable/48647570. Accessed 22 Mar. 2023.

[5] Benson JF, Jorgensen SJ, O'Sullivan JB, et al. Juvenile survival, competing risks, and spatial variation in mortality risk of a marine apex predator. *J Appl Ecol*. 2018; 55: 2888–2897. https://doi.org/10.1111/1365-2664.13158

As the petitioner is undoubtedly aware, gillnet fishing is banned in state waters and therefore the proposed MPA would have no impact on the gillnet fishery or likely the mortality risk to great white sharks.

The petitioner notes the location's popularity with recreational lobster divers and the likely opposition from stakeholders who would oppose the additional loss of access. The mortality risk to great white sharks from the recreational lobster fishery is zero, similar to the risk from spearfishing, yet the petitioner seeks to eliminate access entirely without providing any scientific rationale for the closure. As a result, we request that the Commission deny this petition.

Petition 2023-31MPA: *Reclassify Drakes Estero SMCA to an SMR and combine with Estero de Limantour SMR as a single SMR:*

We recommend referring this petition to the Department of Fish & Wildlife for review and recommendation but encourage the Commission to maintain access for clamming unless there is a clear threat to the fishery or surrounding ecosystem.

It is worth noting that the National Park Service mentions in their comment letter that the area is now Congressionally Designated Wilderness and that "recreational take of shellfish appears to be very rare, [and] requires long kayak trips in wilderness area." Just because something is difficult doesn't mean it should be illegal.

Petition 2023-32MPA: *Reclassify Duxbury Reef SMCA as an SMR and expand northern and southern boundaries*

We recommend that the Commission deny or refer this petition to the Department of Fish & Wildlife for review and recommendation but emphasize maintaining fishing access for local communities at Duxbury Reef. The vast majority of complaints regarding Duxbury reef are related to enforcement and compliance, rather than a scientific justification for eliminating access. Shore fishing is an important past-time for the diverse communities that comprise the North Bay Area, and removing access to a popular fishing destination should not be justified simply based on the actions of a few bad apples.

Petition 2023-33MPA: *Expand the boundaries of five SMRs and one SMCA, and designate a new SMR off Pleasure Point, in Santa Cruz*

We recommend that this petition be denied or referred to the Department of Fish & Wildlife for review and recommendation due to its broad scope and complexity. The petitioner seeks to enhance protections for kelp forests, but does so with an overly broad brush. Rather than advocating for reducing fishing pressure for predators of kelp grazers, like lobster and sheepshead, the petition advocates for the closure of all fishing, including the harvest of grazer species like urchins that have been documented to decimate kelp forests.

The petitioner argues that eliminating fishing pressure within the proposed MPA areas would somehow bolster kelp populations, but the claim is not well documented by scientific research in this petition. A noteworthy case study, by comparison, is the ongoing Tanker's Reef kelp restoration project, where volunteers have been culling purple urchins within study plots and tracking kelp recovery within the study area and a control site nearby. The initial data for the last three years shows a clear correlation between the removal of purple urchins and kelp recovery in the study plot with no kelp recovery in the adjacent control where urchins were not removed. Fishing is permitted in the Tanker's reef area, however, in adjacent MPA's that have not permitted active restoration and where fishing is not allowed, urchin barons persist and kelp recovery remains minimal.

Kelp forest health and resiliency is a complex and multi-variable equation that can be impacted by numerous factors including water temperature, disease, pollution, algal blooms, wave energy, commercial harvest and more. We support efforts to restore kelp forests across the coast and recognize the role they play in the overall ecosystem health of fisheries, especially the abalone fishery that remains closed until 2026. We urge caution, however where broad fishing closures are enacted in the attempt to solve a problem that requires a more nuanced and carefully crafted multidisciplinary approach.

It should also be noted that the petitioner indicates support for recreational hook and line fishing and spearfishing as an acceptable alternative in several of the MPAs referenced in the petition.

Petition 2023-34MPA: *Reclassify Point Buchon SMCA to an SMR and modify take at Farnsworth Onshore and Offshore SMCAs to only allow recreational spearfishing.*

We recommend that the Commission deny this petition and we emphasize the substantial impacts to current fishing access. The petitioner argues that since the salmon season was closed in 2023 it will likely be closed in perpetuity, which would justify eliminating salmon and albacore fishing access at the Point Buchon SMCA. Salmon populations often decrease during drought years and can rebound with increased precipitation or water allocation as was the case in 2008 and 2009 when the fishery was closed and then reopened. We are cautiously optimistic that the salmon numbers will once again bounce back following the increased precipitation received over the past two years.

In the draft Pathways to 30x30 document, the CNRA writes: “It should be noted that limited-take State MPAs provide an excellent model for other jurisdictions looking to balance biodiversity conservation with sustainable well-managed commercial and recreational fishing.” We feel that reclassifying the Point Buchon SMCA as an SMR and eliminating fishing in this area would be inappropriate; however, we support any attempts to improve enforcement and compliance with existing regulations.

Furthermore, the proposal to modify take at Farnsworth Onshore and Offshore SMCAs would disproportionately impact a broad variety and collection of user groups who may not be physically able or inclined to spearfish. For this reason and the lack of concrete scientific data to justify the additional restrictions, we recommend the Commission deny this petition.

Sincerely,

Devin O’Dea
Backcountry Hunters & Anglers

Rachel Fischer
National Marine Manufacturers Association

Wayne Kotow
Coastal Conservation Association California

James Stone
Nor-Cal Guides & Sportsman’s Association

Keely Hopkins
Congressional Sportsman’s Foundation

Larry Phillips
American Sportfishing Association

February 8, 2024

California Fish and Game Commission
715 P Street, 16th Floor,
Sacramento, CA 95814

RE: Discussion Item 10 - Regulation change petitions (marine)

Dear President Sklar, Vice President Zavaleta & Commissioners,

As an organization dedicated to ensuring our North American heritage of hunting and fishing in a natural setting with over 350,000 supporters, Backcountry Hunters & Anglers expresses serious concerns regarding several of the petitions currently before the California Fish & Game Commission that would eliminate fishing access along large stretches of the California coast.

The intent of the Marine Life Protection Act (MLPA) and the stewardship of our coastal resources are of paramount importance to California's heritage. However, these laudable goals and conservation benchmarks should not preclude access to harvest coastal foods where state and federal fisheries managers have demonstrated robust and resilient fish stocks without any current threat of overfishing, nor for those species where targeted fishing and active management would benefit the overall ecosystem balance.

There are numerous, seemingly well-intentioned petitions currently before the Fish & Game Commission that seek to preserve California's coastal waters citing anthropogenic impacts to biodiversity and ecosystems, such as pollution, rising sea temperatures, disease, development and fishing. While we support the intent to safeguard our fish stocks, biodiversity, and ecosystem integrity, we strongly disagree with the all-or-nothing approach adopted by many of the petitioners who proffer the wholesale elimination of fishing access without adequate scientific rationale.

Simply put, many of the petitions seek to advance preservation at all costs, pushing for wholesale closures that circumvent the regulatory processes already in place, ultimately bludgeoning access for the diverse angling communities that have revered these coastal traditions for generations.

Shore fishing, diving/spearfishing, kayak/boat fishing and coastal gathering are low impact activities that reflect the broad spectrum of California's diverse community and constitute a valuable resource for individuals across the economic divide to access nature and provide food for their families at the same time. We encourage the Commission and MPA managers to consider the numerous communities that enjoy the state's many sustainable food resources when considering protections and recommendations that might unnecessarily exclude these groups.

It is within this context that we urge the Commission to deny those petitions (outlined in our detailed letter to the Commission on 2/1/24) that would unnecessarily erode our longstanding coastal fishing and foraging traditions.

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2024-02-02 18:43:33.243		Cecilia	Giddings						US	Petition Signed
2024-02-02 18:05:26.83		Isaac	Beck						US	Petition Signed
2024-02-02 17:46:21.643		Clayton	Beaver						US	Petition Signed
2024-02-02 17:45:06.907		Travis	Craven						US	Petition Signed
2024-02-02 17:30:47.033		Eric	Tye						US	Petition Signed
2024-02-02 17:16:16.94		Benjamin	Kaslin						US	Petition Signed

2024-02-02 16:25:01.977		Matt	Rose						US	Petition Signed
2024-02-02 16:10:12.253		Kevin	Vella						US	Petition Signed
2024-02-02 15:56:10.45		Charlie	de la Rosa						US	Petition Signed
2024-02-02 15:55:01.117		Nicholas	Angus						US	Petition Signed
2024-02-02 15:38:15.073		Nick	Ippolito						US	Petition Signed
2024-02-02 15:34:39.867		Artin	Marootian						US	Petition Signed
2024-02-02 14:57:10.573		Sam	Narveson						US	Petition Signed
2024-02-02 14:52:04.667		Jacob	Morris						US	Petition Signed
2024-02-02 14:48:19.837		Jonathan	Hoang						US	Petition Signed
2024-02-02 14:44:36.137		Mitchell	Ward						US	Petition Signed
2024-02-02 14:40:14.187		Logan	Little						US	Petition Signed
2024-02-02 14:29:39.883		Josef	Sanchez						US	Petition Signed
2024-02-02 14:25:41.613		Leif	Bierer						US	Petition Signed
2024-02-02 14:09:39.14		JESSE	STOVALL		[redacted]	Fiddletown	CA	[redacted]	US	Petition Signed
2024-02-02 14:09:23.547		Mike	Costello						US	Petition Signed
2024-02-02 14:03:34.583	Mr.	Hunter	Miller		[redacted]	Kuna	ID	[redacted]	US	Petition Signed
2024-02-02 14:02:35.91		Jordan	Germyn						US	Petition Signed
2024-02-02 13:58:56.873		Gilberto	Garcia						US	Petition Signed
2024-02-02 13:58:51.957		Rod	Kazempour						US	Petition Signed
2024-02-02 13:56:33.713		Andrew	Miller						US	Petition Signed
2024-02-02 13:55:22.597		Micah	Dungey						US	Petition Signed
2024-02-02 13:51:26.967		Jacob	Weber						US	Petition Signed
2024-02-02 13:50:04.897		Chris	Chun						US	Petition Signed
2024-02-02 13:48:43.423		Jerry	Chang						US	Petition Signed
2024-02-02 13:48:06.903		Clayton	Thornton						US	Petition Signed
2024-02-02 13:47:17.947		Christopher	James						US	Petition Signed
2024-02-02 13:45:51.557		John	Phillips						US	Petition Signed
2024-02-02 13:45:40.09		James	Killiany						US	Petition Signed
2024-02-02 13:40:12.057		Richard	Owens						US	Petition Signed
2024-02-02 13:37:41.607	Mr.	Blane	Markham		[redacted]	Carmel	CA	[redacted]	US	Petition Signed
2024-02-02 13:36:49.903		Connor	Weber						US	Petition Signed
2024-02-02 13:35:29.397		Logan	Gillingham						US	Petition Signed
2024-02-02 13:31:21.977		Dennis	Kilian						US	Petition Signed
2024-02-02 13:29:17.553		Daniel	Collins						US	Petition Signed
2024-02-02 13:23:58.117		Phillip	Sanders						US	Petition Signed
2024-02-02 13:17:26.583		Derrik	Kapalla						US	Petition Signed
2024-02-02 13:16:58.097		Craig	Simes						US	Petition Signed
2024-02-02 13:15:13.017		Valerie	Bednarski						US	Petition Signed
2024-02-02 13:14:01.07		Elijah	Black						US	Petition Signed
2024-02-02 13:12:08.623		Philip	Adornato						US	Petition Signed
2024-02-02 13:10:44.163		owen	shapiro						US	Petition Signed
2024-02-02 13:10:37.263		Steve	Dolan						US	Petition Signed
2024-02-02 13:09:39.617		Nick	Garcia						US	Petition Signed
2024-02-01 21:14:07.19		Keynan	Hobbs						US	Petition Signed
2024-02-01 19:52:19.6		Allen	Noren						US	Petition Signed
2024-02-01 19:31:26.837		Devin	O'Dea						US	Petition Signed

From: Matthew Bond <[redacted]>
Sent: Tuesday, March 5, 2024 10:43 AM
To: FGC <FGC@fgc.ca.gov>
Subject: Opposition to Petition 2023-33MPA

Dear Commissioners, thank you for your tireless service on the California Fish and Game Commission.

My name is Matt Bond and I am writing to urge you to oppose petition 2023-33MPA.

Although noble in its aim to protect kelp forests, Petition 2023-33MPA is using misapplied conclusions, trying to extrapolate and tie together thinly tested and unrelated study findings, and otherwise asserts the false premise that "no-take" marine reserves will somehow better protect kelp forests from unforeseen future stressors than the myriad of other, more specific, fisheries and habitat management tools already at the department's disposal. It also falsely minimizes the societal impact that more "no-take" marine reserves will have on people and communities. Furthermore, it stands to undermine the years spent in stakeholder consensus meetings to build the existing reserves during the initial MLPA process. A critical example of this is the ask to expand the Gull Island MPA. The reason the north western boundary does not extend to the island is because we negotiated to keep Poza Anchorage open as a late season, foul weather, fishing and spearing spot in exchange for closing Winfield Scott on Anacapa and Carrington Point on Santa Rosa Island. Matt Lum and I represented the Santa Barbara Area consumptive divers in this. Greg Helms of the Ocean Conservancy, and Dr. Steve Gaines from UCSB, as well as other stakeholder participants were parties to this agreement.

With regard specifically to the proposed expansion, re-characterization to "no-take", or creation of new "no-take" marine reserves in areas that currently allow fishing access from shore or without a boat, I offer the following background and opinions:

I was born and raised in Isla Vista, California and am pretty sure I learned to swim in the tide pools of that coastal town. At a very young age I learned to forage those same tidepools, fish with a hand-line and then a pole, and eventually become proficient as a freediving spearfisher.

I grew up with a single mom and two sisters. We had very little money in our household. The four of us lived crammed in several different single or two bedroom apartments over the years and were blessed to qualify for food stamps. My childhood and adolescence was during a time when refugees from Laos, Cambodia, Vietnam, as well as displaced people from Iran, Central and South America, and Mexico filled the small college town and lived in identical conditions to us. We all spent most of our free time fishing and foraging in the ocean. For us this was both some of our only free and accessible recreation and also a way

to provide very meaningful sustenance for our families. I now realize this ability to walk to the beach, catch food and contribute to the well-being of my family and community helped me develop purpose and confidence as a young man, as well as kept me out of a lot of trouble. This upbringing taught to love and protect the ocean and started me on a path as an amateur marine biologist and conservationist.

When the MLPA process was announced in the late 1990s, I stepped up as co-representative for consumptive divers in the Santa Barbara Area. My main impetus for doing so was to keep access open for subsistence, shore-based fishing. Through the years of meetings and negotiations, I fought hard to share the human value of walking access to a sustainable food supply and recreation for the poorest of the community. My arguments failed. That entire coastline was closed to fishing with the implementation of The Campus Point MPA in 2012. With that, anyone who grew up like I did or lived in those adjacent communities who didn't have a car or boat to get to open areas never had the chance to experience what I did in the sea. They never had the chance to develop the understanding of the importance of healthy ecosystems as they relate to sustainable and free food for your hungry family.

Any new "no-take" marine reserves will further serve to disenfranchise future generations from enjoying their right to feed themselves and recreate in the ocean. They will rob California of a quintessential way of life which characterizes our seaside communities. They will serve as road blocks for disadvantaged communities in building deeper connections with their environment.

It is for these reasons I again urge you to reject in its entirety Petion 2023-3MPA.

Thank you.

Matt Bond, President & CEO
CA insurance license [redacted]

From: [redacted] <[redacted]>
Sent: Wednesday, March 6, 2024 2:51 PM
To: FGC <FGC@fgc.ca.gov>
Cc: [redacted]
Subject: Petition To The CA Fish and Game Commission for Regulation Change | FGC 1 (Rev 06/19) Tracking # 2023-33MPA

Dear Commissioners,
My name is Zach Wormhoudt, I am a 50-year resident of Santa Cruz, California, a lifelong surfer and recreational fishing + diving enthusiast. I am writing to oppose Petition 2023-2033, specifically for Santa Cruz/Capitola (Pleasure Point) proposed new Marine Protected Areas.
Countless people (children and adults) have been inspired to work towards ocean conservationism because of their experience with recreational fishing and diving. These critical advocates and stewards are at risk with the proposed expansion of the Santa Cruz MPA. The specific area proposed for closure would effectively wipe out most recreational fishing and diving opportunities within Santa Cruz, Seabright, Capitola, and Aptos communities. This proposal is unnecessary and will do more harm than good.
It is likely safe to assume that every person that has endorsed the Proposal for the new MPA's wants to help protect the ocean environment, but more than likely they are not aware of long-term implications that these types of closures can have. It may be easier to just close an area for recreational diving and fishing, than it is to manage the area, but the complete closure approach will result in the loss of countless current and future advocates for the ocean environment who have found a connection to the ocean through recreational diving and fishing. If recreational fishing and diving were shown to have significant impacts on the kelp bed ecosystems that would be justification for the closures, but none of the presented documentation makes the claim that these activities are part of the problem. Yes, it is more difficult to manage balanced use of the ocean environment, but it is a better choice that will increase stewardship and advocacy, more successfully benefiting the long-term health of the ocean environment.
In lieu of the expanded MPA's, greater environmental long-term benefits can be achieved by Adaptive Management: Flexibility and adaptability are crucial components of effective marine conservation strategies. Instead of relying solely on fixed MPA's, the department should embrace dynamic approaches that allow for continuous monitoring and adaptive management. This could involve continuing to implement temporary closures, seasonal restrictions, and other measures tailored to the specific needs of different marine environments.
The primary focus of protecting all ocean environments should be to continue to place primary attention on the principal threat of Climate Change: Climate change poses a formidable threat to marine ecosystems, affecting ocean temperatures, acidity levels, and biodiversity. Yes, MPA's do provide some level of protection against localized threats, but they do not address the broader harm posed by climate change. MPA boundaries

determinations should carefully consider all stakeholders and the potential loss of stewards for the marine areas they are intending to protect.

Without a doubt, MPA's can play a key role in marine conservation, but they are not a universal solution for protecting every marine environment. Great advances in marine ecosystem protections have and will continue to be made, but more than just a simple closure, we need a multifaceted approach that addresses enforcement challenges, considers future advocacy, socioeconomic impacts, tackles climate change, and embraces adaptive management principles.

Thank you for your consideration,

Zachary Wormhoudt
[redacted]

From: Janelle L. <[redacted]>
Sent: Monday, March 18, 2024 9:02 AM
To: FGC
Subject: 2023-33MPA: Marine protected areas for kelp forests

My name is **Janelle L**, from La Jolla, CA. I'm writing to you today with comments about **2023-33MPA: Marine protected areas for kelp forests**.

I watched a portion of the Fish & Game Commission recording pertaining to MPAs from Feb 14 and was listening to what Commissioner Zavaleta has to say starting at 5:12:35. I really think her comments there should be considered.

FGC@fgc

From: Justin Elder [redacted]
Sent: Monday, March 18, 2024 9:02 AM
To: FGC
Subject: Opposed to 2023-33 mpa

Good morning,

My name is Justin Elder and I have been heavily involved with many aspect of our heart california wildlife since birth. The salt water mpas that the state is purposing are of great concern to me as they will horribly reduce the level of sustainable take fish I am able to harvest of of the santa barbara coast. This lack of ability to provide for myself and family as well as the extreme financial hardship it would place on our ethical Comercial fleet this should not even be considered as an option. I believe the science will show we as fisherman and divers have a positive result on this echo system and these mpas will not yield the result they are intended too.

Thanks

FGC@fgc

From: Marinus Gruter [redacted]
Sent: Monday, March 18, 2024 3:08 PM
To: FGC
Subject: Opposed to Petition 2023-33 MPA

To whom it may concern:

Hello, my name is Marinus Gruter. I live in Ventura county and I am writing to you to explain why I believe closing down fishing with the idea that it will protect kelp from climate change is completely illogical. My family has been fishing for decades now and growing up with the ocean fishing, surfing, etc. I know will be a detrimental blow to not just my family but so many others that are like minded and use the ocean just like me for fishing and spearfishing if it is indeed closed down in the proposed regions. Taking away acess for divers to carefully select a fish in these planned MPA regions can really hurt a lot of us and our future generations. Divers are not part of the problem with this so called climate change protection of kelp.

I am completely against this idea. Thank you for your time,

Sincerely,
Marinus

FGC@fgc

From: [redacted]
Sent: Monday, March 18, 2024 6:33 PM
To: FGC
Subject: MPA proposal feedback

California Fish and Game Commission
P.O. Box 944209, Sacramento, CA 94244-2090
Dear California Fish and Game Commission:

My name is Rodney Armstrong and I own and operate a charter fishing business based in Santa Cruz. I am writing to oppose and express my concern with petition 2023-2033, especially as it pertains to the Santa Cruz/Monterey Bay areas. These proposed New MPAs, and MPA expansions would deny access to nearshore fishing grounds, which I, and the small community of charter fishing vessels would consider to be essential grounds that serve as a key component to adapting with the seasonal nature of our industry, and play a vital role in the success of our fishing seasons. Moreover, these grounds have a role to play in each individual local fishery. These changes would not only severely impact the charter community, but that of the commercial fishermen, and sport fishing community as a whole. All of these communities would proudly identify as passionate stewards of our great ocean. It is also my opinion that the greatest importance of these grounds is what they offer the young generations that we usher in to ocean stewardship. For their passion to flourish, they need places to roam and explore, and these grounds offer a safe way for them to do that.

I believe the complete removal of fishing activity in these areas will have little to no effect on the regrowth or proliferation of kelp populations. As it has already been stated in the petition, the issue lies with the sustained elevated sea temperatures, which has led to the decline of kelp stands, which is cause for the southern sea otter populations to find new grounds, leaving the urchin populations to go unchecked, thus making it harder for kelp stands to grow back. And because fishing activities don't fit well into that chain of events, I don't believe the removal of them does anything to address the problem. I believe that all of the powers involved bare the creative capacity to devise a strategy that would aid the regrowth of kelp populations without dealing damage to its neighboring inhabitants, the fishermen. I hope these ideas will be considered before a final decision is reached. Thank you.

-Rodney Armstrong
Captain and business owner of Santa Cruz Coastal Charters, a family business
Sent from my iPhone

FGC@fgc

From: David Schwier [redacted]
Sent: Monday, March 18, 2024 9:38 PM
To: FGC
Subject: Attn: Marine Resources Committee - citizen letter for 3/19 meeting

Dear Committee members,

I write this to say my family and I love the ocean, spearfishing and conservation. We recreate a couple dozen times a year on our boat in local waters around Orange County and Catalina Island. It is important to show my kids that our seafood also comes from local waters too and we can actively learn about them and maybe pursue some ourselves to catch. They love eating all of our minimal catches and are very thankful for the full experience.

We all take care of our beautiful environment and do beach cleanups, creating awareness, and respect for nature. My memories growing up with my father (deceased) and fishing his “secret spot” in Laguna Beach, cannot be replicated with my daughter because we are not allowed to fish there anymore. While I did take her snorkeling there to see the fish (amazing just the same), it just didn’t fulfill the dream of mine to hook a “big one” like dad and I did there years ago.

Please stop closing our access to these resources and all the joys that come with it. Our local impact can be sustainable with just more educating of the public. Please reopen the protected areas and then do another review in due time and see how to best proceed in keeping our oceans healthy and abundant in all life!

Thank you for reading my letter,
David Schwier
[redacted]

FGC@fgc

From: rspringe rspringe [redacted]
Sent: Tuesday, March 19, 2024 12:09 AM
To: FGC
Subject: Opposed to petition 2023-33MPA

Hello,
I am a California State Parks Lifeguard II, with just shy of a decade of experience and over 100 rescues. I have worked in 4 different counties that will be affected by this proposition if it is implemented. I also have multiple years of emergency and non-emergency vessel assistance experience in Santa Cruz county. Between these two jobs I have worked with numerous environmental agencies to keep the ocean, as well as the public, safe. In my free time, like most of the people around me, I try to enjoy the ocean, mostly spearfishing for scallops and rockfish. I also love being able to feed my loved ones with fresh, sustainable seafood.

Working at the beach every day, I get to see first hand how laws with specific intentions are implemented on the ground, versus how they play out in reality. When our legislators have passed laws that affect the beaches, it is obvious to me, my coworkers and fellow beachgoers when those laws have been informed by the input of the effected people and when they have not. Think back to COVID beach closures, myself and all of my lifeguard coworkers were verbally(and physically) attacked by the public over this for weeks. I can assure you that despite having conservation intentions, this proposition will not protect MPAs the way it is being presented, and the consequences will far outweigh any positive environmental impact. Laws being passed need input from those on the ground to be effective and as someone who is very involved in the coastal community, I'm not seeing that here.

Who knows if the response from the public would be as severe as there was for the COVID beach closures if this proposition becomes law, but Im speaking within my Lifeguard mission statement that I am against any law that I know will harm the parks that I serve. I would love to support a scientific peer reviewed proposition, with the input from the local stewards of the land that shows a clear path to healthier kelp beds, but I dont think this is it.

Thanks for your time, see you at the beach, Ryan Springer

FGC@fgc

From: jerry kulm
Sent: Tuesday, March 19, 2024 8:46 AM
To: FGC
Subject: Proposal for MLPA at Natural Bridges and Pleasure Point

I am writing in response to a recent article regarding implementing an MLPA in Monterey Bay, specifically Natural Bridges and Pleasure Point. I am a long-time surfer, fisherman, father, and grandfather. Some of the best memories I have are fishing near Santa Cruz and I lived by Pleasure Point for years. I see no impact to the kelp beds from fishing or boating. Most boaters completely avoid those areas due to tangling of kelp in props and fishing line. Please reject this proposal for one of the most enjoyable activities we as tax paying citizens can still enjoy.

Regards,

Jerry Kulm

FGC@fgc

From: jason
Sent: Tuesday, March 19, 2024 9:37 AM
To: FGC
Subject: Objection to Proposed New MLPA Zones in Natural Bridges and Pleasure Point

Hello,

This email is to express objection to proposed new MLPA zones in Natural Bridges and Pleasure Point. My understanding is that this is to be done to protect the kelp forests, which we all want, but I fail to see the logic in preventing fishing in the areas. Urchins are the primary problem here and otters and sea stars eat the urchins. I'm not aware of any proof that rockfish, lingcod, halibut, or sea bass eat urchins. It seems a more effective use of time and resources is to continue to promote harvest of sea urchins.

I live in the area and recreational fish Northern California ocean waters with my friends and family. Restricting sustainable use of our resources reduces awareness and the large population of people that care and rely on our resources.

Thanks,

Jason

FGC@fgc

From: Calin Brammer
Sent: Tuesday, March 19, 2024 10:32 AM
To: FGC
Subject: Opposing Petition 2023-2033

Hello,

My name is Calin Brammer, I live in San Diego, CA and I am writing to strongly oppose Petition 2023-2033 specifically, the proposed MPA reserves in the Point Loma area.

I have been diving and fishing this area for years, sustainably harvesting only what I need for my family. The ability to continue to perform these recreational activities is an important part of my family's lives and central to our identity living in this area so close to the coast. If these areas are closed off for any take this will negatively impact myself and the livelihood of many other locals. We pay a premium to live where we do because of the access that we have. If these areas are closed off for any take this will negatively impact myself and the livelihood of many other.

Please do not take this away from us.

Respectfully,
Calin Brammer

FGC@fgc

From: Patrick Spalding [redacted]
Sent: Tuesday, March 19, 2024 3:49 PM
To: FGC
Subject: Opposition to Proposed petitions

Dear Commission,

I was born in San Francisco and have lived my entire life along the central California coast. I have been actively engaged in freedive spearfishing since 2011. Based on the current scientific research, I do not support expansion of any MPAs in California. I specifically request that the Commission deny the petitions listed below. I appreciate your consideration, and I'm grateful for your support of our natural resources.

Sincerely,

Patrick Spalding

Petition 2023-23MPA

Petition 2023-33MPA

Petition 2023-34MPA

Petition 2023-29MPA:

Petition 2023-24MPA

FGC@fgc

From: Vic Giacalone [redacted]
Sent: Thursday, March 21, 2024 9:27 AM
To: FGC
Subject: Potential MLPA near Santa Cruz

To whom it may concern;
I am a 77 year old man, who has fished in Monterey Bay for many years. My boat is docked in the Santa Cruz harbor.
I am highly opposed to the implementation of a Marine Life Protected Area designation for the “Pleasure Point” area of Monterey Bay I - Petition 2023-2033.
This is an area of the bay, which is accessible to many anglers, who do not possess or have access to larger vessels to travel off shore. And, there does not seem to be any objective reason for this area to be designated, as an MLPA.
I urge you to reject this proposal.
Thank you.

Vic Giacalone

FGC@fgc

From: Paul Meltzer
Sent: Friday, March 22, 2024 12:06 PM
To: FGC
Subject: MPA Expansion in Santa Cruz

Dear Members of the Commission:

I am writing in opposition to the expansion of the MPA in the SANTA CRUZ area. I am very familiar with the kelp beds in Santa Cruz as I have surfed, fished, windsurfed and paddled around the kelp beds for 60 years.

The proposed rule seeks to ban activities that have no effect on the health of the kelp beds, all done under the misleading battle cry of "Save The Kelp Beds!"

Petitioners submit no scientific evidence that fishing has caused a decline in the health of the kelp beds in Santa Cruz. This is one of the reasons that the Santa Cruz City Council voted against the proposed expansion of the MPA.

Another misleading aspect of the rule change is the idea of mass fishing in the kelp beds. Almost no one fishes in the kelp beds because the kelp will fowl your propeller. Fishing is done adjacent to the kelp with your engine turned off.

The Petitioners further fail to scrutinize the factual basis for their assumptions. While they can show correlation--kelp has declined in California while there was fishing--they fail to show causation, that fishing has caused any decline in Santa Cruz kelp beds.

Everyone agrees that the Santa Cruz kelp beds were healthier 60 years ago. Yet at that time Pleasure Point had an active sewage outflow, thus the name of one of the surf spots, Sewer Peak. Kelp beds were healthier during the outflow (correlation) yet no serious person would suggest that one caused the other.

This is the danger of Petitioner's reliance on correlation. There are many events that correlate with healthy kelp but have nothing to do with the result. For example, there was more kelp when there was logging, less emissions controls on vehicles, an active carbon burning power plant at Moss Landing and a polluting Cement Plant at Davenport.

And the converse is equally true, that there are events that have occurred at the same time as a decline in kelp health that had nothing to do with the result. Fishing near kelp is a perfect example.

There are other serious issues that have not been addressed. The Commission should consider the recreational opportunities that will be lost to a generation if these bans are approved. It should also consider the economic impact on the fishermen, their families and the many related businesses such as markets and restaurants, if fishermen are banned from fishing for kelp adjacent fish such as halibut.

I urge a rejection of the expansion of the MPA.

Respectfully submitted,

Paul B. Meltzer

[redacted]@fgc

From: BETSY SMITH <[redacted]>
Sent: Monday, March 25, 2024 12:18 PM
To: FGC
Subject: Proposed Pleasure Point, Santa Cruz MPA

Dear Fish and Game,

My Name is David M. Smith, I am from Santa Cruz, CA and I am speaking in opposition with Petition 2023-2033, the proposal for a new
state marine reserve in Pleasure Point Area of Santa Cruz County.
I have lived and fished in Santa Cruz and Capitola since 1982 and over the years I have observed the kelp forest between 26th Ave to Capitola
which includes Pleasure Point. In my opinion this is a healthy kelp forest and I have seen no decline in kelp or fish that it holds. Over the years we have seen a rise in the population of white sea bass and I also know from local friends who dive and fish that there are Sea Bass living in these kelp beds. We have had an abundance of Jack Smelt, Sardines, Anchovies, and Mackerel that move in and out of the Kelp beds. The Halibut, Ling cod and rock fish population has been healthy locally in Santa Cruz. Unfortunately there is more pressure recently because of Salmon Season closure.
To have a local coastline which is healthy and the community is using it for sportfishing and free diving is a great thing. Maybe you can study this Pleasure Point coastline to understand its ecology and why it is healthy. To make a MPA of Pleasure Point has no science to the decision.
Pleasure Point is a healthy ecosystem in the Monterey Bay and should not be taken away from our local community.
Thank you,

David M Smith
[redacted]

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420 Capitola Avenue
Capitola, California 95010
Telephone: (831) 475-7300
FAX: (831) 479-8879
Website: http://www.cityofcapitola.org

FGC
Rec'd 4/4/24

California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

March 28, 2024

Opposition to Proposed Modifications to the California Marine Protected Area Network

Dear President Sklar and Honorable Commissioners,

I am writing to express our opposition to the Environment California Research & Policy Center's petition to modify the California Marine Protected Areas Network to expand the Natural Bridges State Marine Reserve and establish a new Marine Protected Area (MPA) at or near Pleasure Point, unless the petition is amended to allow for recreational hook-and-line fishing and spearfishing.

While we recognize the critical importance of nearshore kelp forests and the Marine Life Protection Act's adaptive management process, we believe the current proposal unfairly restricts access to public resources. Recreational fishing is a popular activity in northern Monterey Bay, and the proposed expansion would hinder the ability of residents and visitors to enjoy this coastal area.

Moreover, the expansion plan raises concerns about the economic impact on Santa Cruz County. Surfing, diving, and fishing are major draws for tourism, generating revenue for local businesses. Restricting access to these activities could negatively affect the economic well-being of our community.

In conclusion, we oppose the current petition to propose a new Pleasure Point State Marine Reserve unless amended to allow for recreational hook-and-line fishing and spearfishing. We urge you to consider the importance of this amendment, which would effectively balance kelp forest protection with the needs of our community.

We remain committed to collaborating with you to find a solution that safeguards the marine environment while ensuring continued public access and economic prosperity for Santa Cruz County.

Thank you for your time and consideration.

Sincerely,

DocuSigned by:
Kristen Brown
9845E01983E9448...

Kristen Brown, Mayor
City of Capitola

REC'D 4/4/24 FGC

HELLO, MY NAME IS MIKE FIXTER. I AM 77 YEARS OLD & HAVE LIVED IN SANTA CRUZ SINCE 1951. DURING THAT TIME I HAVE FISHED OUR LOCAL WATERS BOTH SPORT & COMMERCIALLY, SURFED, PICKED ABALONE, CRABBED, DUG BOTH PISMO & COCKLE CLAMS, RAISED A FAMILY & SPENT 30 YEARS WITH CENTRAL FIRE PROTECTION DISTRICT. MOST OF IT AS A FIRE CAPTAIN WHO'S RESPONSE AREA EXTENDED FROM THE SANTA CRUZ YACHT HARBOR TO NEW BRIGHTON STATE BEACH. I AM ACCUTELY FAMILIAR WITH BOTH THE SHORELINE & OUTER WATERS, INCLUDING THOSE WATERS WITHIN THE NEWLY PROPOSED MPA'S IN THE SANTA CRUZ AREA.

MY FIRST EXPERIENCE WITH OUR KELP FORESTS TOOK PLACE AT AGE 6 WHEN MY FATHER RENTED A SKIFF OFF THE CAPITOLA WHARF & WE FISHED IN & AROUND THE NEARBY KELP FORESTS. THIS ADVENTURE LED TO MY LIFE LONG PASSION OF EXPLORING OUR COASTAL WATERS. SOMETHING YOUNG KIDS & ADULTS ALIKE COULD NEVER EXPERIENCE SHOULD THIS NEW MPA INITIATIVE EVER BECOME IMPLEMENTED.

I AM VERY MUCH AGAINST THIS INITIATIVE & HERE ARE SOME REASONS WHY:

1. TO MY KNOWLEDGE NO LEGITIMATE, IMPARTIAL, UP TO DATE SCIENTIFIC RESEARCH EXISTS THAT SUPPORTS THE BELIEF OUR KELP FORESTS ARE BEING NEGATIVELY AFFECTED IN EITHER THE EXISTING MPA FROM NATURAL BRIDGES TO FOUR MILE STATE BEACH, THE PROPOSED EXPANSION OF THAT AREA OR THE NEWLY PROPOSED MPA AROUND CAPITOLA, PLEASURE POINT & SANTA CRUZ.
2. CLOSING THOSE WELL ESTABLISHED EXISTING AREAS TO ESTABLISH NEW MPA'S WILL INTURN PUT MORE PRESSURE ON THOSE EXISTING OPEN AREAS.

3. THE ECONOMIC IMPACT UPON ALL THOSE AFFECTED WOULD BE CATASTROPHIC. FISHERMAN (BOTH SPORT + COMMERCIAL), FISH MARKETS, RESTAURANTS, BOAT RENTALS, TACKLE SHOPS, THE SANTA CRUZ YACHT HARBOR, SKIN DIVERS, KAYAKERS, WHALE WATCHERS, MARINE REPAIR FACILITIES & TOURISM WOULD ALL SUFFER.
4. THE POTENTIAL LOSS IN REVENUE GENERATED BY ALL THE VARIOUS USER GROUPS PAYING FOR LOCAL, STATE & FEDERAL PERMITS, LICENSE FEES & TAXES WOULD CREATE A HUGE FINANCIAL CRISIS HERE IN SANTA CRUZ & BEYOND.
5. CURRENT LIFESTYLES & EMPLOYMENT OPPORTUNITIES WOULD BECOME A THING OF THE PAST SHOULD THIS NEW MPA PROPOSAL EVER BECOME LAW.
6. TODAYS YOUTH, YOUR CHILDREN, MY CHILDREN & GRAND CHILDREN ALONG WITH ALL OTHERS INTERESTED IN OUR MARINE ENVIRONMENTS DESERVE THE OPPORTUNITY TO EXPERIENCE IT FIRST HAND. TO DEPRIVE THEM OF THIS IS IN NO ONES BEST INTEREST.

PLEASE JOIN US IN DEFEATING THIS NEW MPA PROPOSAL.

SINCERLY

mike Fister

From: Sean Michael Oshiro [redacted]
Sent: Saturday, April 20, 2024 7:05 PM
To: FGC <FGC@fgc.ca.gov>
Subject: propose MPA's

My name is Sean-Micael Oshiro, and I'm from southern California. I'm here to express my concerns about Petition 2023-2033, particularly regarding the proposed new state marine reserves in San Diego.

The ocean holds a special place in my heart. Growing up near its shores, I witnessed its beauty and experienced its healing power firsthand. Whether I found solace in the rhythmic crashing of waves or marveled at the diverse marine life beneath the surface, the ocean has always been a source of inspiration and tranquility for me.

However, I fear that the proposed marine reserves may disrupt the delicate balance of aquatic ecosystems in our area. While conservation efforts are vital, we must ensure they are implemented by thoughtful and considerate local communities who not only appreciate the ocean's beauty but also rely on it for their livelihoods.

Spearfishing has been more than just a hobby for me; it's been a gateway to some of the most meaningful connections in my life. Amidst the ocean's tranquil depths, I found the thrill of the hunt and unexpected companionship. One day, while exploring a reef, I encountered another spearfisher, sharing stories of our underwater adventures. As our friendship blossomed over shared passions and mutual respect for the ocean, it became evident that we had found more than just a diving buddy; we had discovered kindred spirits. I found my best friend through spearfishing, forging a bond as deep and enduring as the ocean.

Please consider the impact of Petition 2023-2033 on our coastal communities and the precious marine ecosystems they depend on. Let's work together to find sustainable solutions that protect our environment and way of life.

Thank you for your attention to this matter.

Please Oppose New Marine Protected Areas

James Janzler [redacted]

Fri 04/26/2024 12:48 PM

To:FGC <FGC@fgc.ca.gov>

California Fish and Game Commission,

My name is James Kanzler and I live in Santa Cruz County. I am an avid outdoorsmen, with fishing and hunting being my primary recreation. Please oppose new marine protected areas in our area. I am for responsible management. I am for regulation when it makes sense. The proposed new MPA's in Santa Cruz do not make sense, and are not supported by objective science.

I can say as someone who spends time on the water that the kelp beds off Santa Cruz and Capitola are larger now than they were 10 years ago. The fishing is better now than it was 10 years ago. I can also say that, like me, many people recreate in these near shore fisheries. If they became off limits to fishing it would essentially end inshore fishing opportunity in Santa Cruz. The only people who could continue to fish in the ocean would be those who can afford large boats.

Please oppose new MPA's. Current levels of regulation are working well.

Thank you,

James Kanzler

From: California Fishermens Resiliency Association <californiafishermensresiliency@gmail.com>
Sent: Wednesday, July 3, 2024 06:44 PM
To: FGC <FGC@fgc.ca.gov>
Cc: [redacted] Steve Scheiblauer <[redacted]>; Dave Colker <[redacted]>; Jake Mitchell <[redacted]>; [redacted]
Subject: MPA Petitions Support/Object

California Fish and Game Commission
PO Box 944209
1416 Ninth Street Suite 1320
Sacramento, California 94244-2090

July 3, 2024

Re: MPA Petitions/Support/Object

Commissioners:

The California Fisherman's Resiliency Association (CFRA) expresses its support for the following Marine Protected Area (MPA) petitions:

2023 - 14 MPA
2023 - 15 MPA
2023 - 16 MPA
2023 - 18 MPA
2023 - 30 MPA

Our support is based on research conducted by the University of Washington (sustainable fisheries- us.org) which exactly states that MPA's have no positive affect on threats to marine life posed by ocean acidification, global warming, coastal development, terrestrial and urban run-off and human pollution of the world environment. "Recent reviews of the extensive MPA network in California have concluded there is no evidence for a regional increase in biodiversity, or targeted fish abundance, nor is there evidence for MPA's providing climate resiliency"

We provide no support for the following MPA petitions:

2023 - 19 MPA
2023 - 20 MPA
2023 - 21 MPA
2023 - 22 MPA
2023 - 23 MPA
2023 - 24 MPA
2023 - 25 MPA
2023 - 26 MPA
2023 - 28 MPA
2023 - 29 MPA
2023 - 31 MPA
2023 - 32 MPA
2023 - 33 MPA
2023 - 34 MPA

Thank you for this opportunity to comment.

Ken Bates, Executive Director
California Fishermen's Resiliency Association Member Associations

Crescent City Commercial Fishermen's Association
Trinidad Bay Fishermen's Association
Shelter Cove Fishermen's Preservation, Inc.
Salmon Troller's Marketing Association of Noyo
Bodega Bay Commercial Fishermen's Association
San Francisco Crab Boat Owners Association
Half Moon Bay Commercial Fishermen's Association
The Alliance of Communities for Sustainable Fisheries
Commercial Fishermen of Santa Barbara
Santa Cruz Commercial Fishermen's Association
Pacific Coast Federation of Fishermen's Associations

Cc: Dave Colker
Peter Halmay
Steve Scheiblauer
Jake Mitchell

From: Sandy Brown <[redacted]>
Sent: Monday, July 15, 2024
To: FGC <FGC@fgc.ca.gov>
Subject: Marine Resources Committee Meeting, July 17, Item 2. Marine protected area (MPA) regulation change petitions evaluation process

Please accept the attached letter from Supervisor Justin Cummings regarding the MRC's item on Marine Protected Areas.

County of Santa Cruz

BOARD OF SUPERVISORS

701 OCEAN STREET, SUITE 500, SANTA CRUZ, CA 95060-4069
(831) 454-2200 FAX: (831) 454-3262 TDD/TTY - Call 711

MANU KOENIG	ZACH FRIEND	JUSTIN CUMMINGS	FELIPE HERNANDEZ	BRUCE MCPHERSON
FIRST DISTRICT	SECOND DISTRICT	THIRD DISTRICT	FOURTH DISTRICT	FIFTH DISTRICT

July 9, 2024

Marine Resources Committee of the California Fish and Game Commission
California Natural Resources Building
715 P Street, 16th Floor,
Sacramento, California 95814

RE: Opposition to the current proposal to expand the State Marine Reserve at Natural Bridges and to establish the State Marine Reserve at Pleasure Point, unless there are significant revisions and expanded public outreach.

Dear Commissioners,

I am writing in my capacity as Santa Cruz County Third District Supervisor to request that you consider the Board of Supervisors' statement of opposition (unanimously approved on March 12, 2024) to the petition proposing to expand the State Marine Reserve (SMR) at Natural Bridges, and to establish a new SMR in the Pleasure Point Area, as currently written.

As the Marine Resources Committee embarks on developing a process for handling this round of petitions, I urge you to categorize the Natural Bridges and Pleasure Point SMR proposals in a manner appropriate to their level of complexity and controversy.

The Board of Supervisors identified a number of concerns related to the highly specific recommendations proposed in this petition, including: a lack of scientific evidence to support its purported aim of increasing the size of kelp forests; a lack of engagement with regional stakeholders, including scientists, environmentalists, fishermen, indigenous tribes, and public officials who have a demonstrated record of working effectively towards meaningful marine protections; and the need for a collaborative process to develop a regulatory framework that balances kelp forest protection with public access and ecosystem restoration activities.

While the intent to protect kelp forest ecosystems is commendable, there is a lack of empirical evidence supporting the claim that current, well-regulated recreational fishing activities limit the extent of these kelp forests on California's Central Coast. The proposed MPA expansion areas already have stable kelp beds that recovered effectively from the 2014-2016 Marine Heat Wave. These areas demonstrate that current activities, including

low-impact recreational fishing and existing regulations, support healthy kelp forests and further restrictions may not provide additional value.

As the Marine Resources Committee evaluates this round of MPA petitions, it's also important to develop clear principles and guidance regarding how MPAs fit within the 30x30 framework established by the Office of the Governor and led by the State's Ocean Protection Council (OPC). This framework emphasizes the importance of accelerating actions that promote nature-based solutions and the necessity of collaborative partnerships among diverse stakeholders. By providing clear guidance on how specific petitions are consistent with the 30x30 goals, the committee can foster cooperative and inclusive efforts that align with the state's commitment to protecting biodiversity and enhancing resilience to climate change.

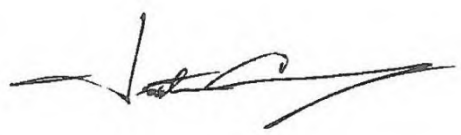
Our community strives to balance environmental access and protection to minimize negative impacts. While the petition authors are well-intended, their lack of public engagement and data to support the claim that prohibiting recreational fishing will increase kelp forest coverage indicates the need for more work before creating or expanding MPAs. The Santa Cruz Board of Supervisors is committed to protecting our environment and believes regulations on access should be well-informed, sustainable, and promote stewardship while protecting the environment.

Given the significant implications of establishing and expanding MPAs, it is crucial that the Marine Resources Subcommittee thoroughly consider the referenced petition before making any decisions. The proposed changes could impact a wide range of stakeholders, including local communities, businesses, and the environment itself. Ensuring a comprehensive review process that includes scientific validation, stakeholder engagement, and a balanced approach to conservation and public use is essential. This due diligence will help create effective and widely supported marine protection measures that truly benefit the ecosystem and the people who depend on it.

The Marine Resources Committee should ensure adequate time for consideration and negotiation, incorporating local stakeholder input. This will ensure any regulatory changes are grounded in robust data and community support, leading to more effective and accepted conservation measures.

Thank you for your consideration.

Sincerely,



JUSTIN CUMMINGS
Santa Cruz County Third District Supervisor

Please don’t adopt Cabrillo SMR expansion!

Matt C <[redacted]>
Wed 08/07/2024 07:49 PM
To:FGC <FGC@fgc.ca.gov>

Hello Council,

Please don’t adopt the petition requesting expansion of the Cabrillo SMR off of Point Loma.

Urchin fisherman can play a key role keeping urchins at bay in the face of sea star syndrome, thereby helping giant kelp reestablish.

Sportfishermen are a major support for DF&W’s budget via license sales and ocean enhancement stamps.

It would be a shame to get locked out of the beautiful kelp bed located in the “back yard” of Sab Diego in the name of conservation. Ocean heat waves, urban runoff/pollution and ocean acidification are major threats to the health of Southern California marine environments; locking sportfishermen out would create little benefit to the large scale health of our reefs and kelp beds.

Ironically, kelp beds throughout the SoCal bight are finally rebounding this year!!!

Thank you for your work on the commission and for considering this request.

Regards,

Matt Carleton
[redacted]

From: Anthony Garcia <[redacted]>
Sent: Wednesday, August 21, 2024 2:32 PM
To: FGC <FGC@fgc.ca.gov>
Subject: New expansion to the Cabrillo SMR zone

California Fish and Game Commission, I am a fishermen and fish around a lot of point loma and recently saw the new MPA expansions plans to the Cabrillo SMR. As a mostly shore and kayak fishermen I find the new expansion taking away almost all of my normal fishing grounds and kelp beds I grew up fishing. I understand this season has lead to insane amounts of kelp bass and other kelp fish being kept in insane amounts but that is only happening on charter boats. you cant keep 80 to 100 kelp bass in a kayak or on shores, half of us just catch to admire the fish and release them back. If there was anyway to change the area into a strictly catch and release only section for the time being to let them reproduce or close off the section during parts of seasons they are meant to grow the most, it would be a better alternative to permanently closing all of that water to all fishing. Another helpful idea would be to adjust the limits to the bag and sizing they need to be, it will keep people from trying to just eye out how big they are and actually make them take down a measurement, especially if they were only aloud to keep 2 or 3.

Thank you for your time,

Tony Garcia

From: Matt Steiger <[redacted]>
Sent: Wednesday, August 21, 2024 1:54 PM
To: FGC <FGC@fgc.ca.gov>
Subject: petition 2023-33MPA

Dear Commissioners,

I am writing in opposition to the proposed expansion of the Cabrillo State Marine Reserve, outlined under Petition 2023-33MPA. I am a physicist and fisherman who lives in San Diego. I use this ocean region regularly for recreating and to collect food. During low tides I comb the beach for shells, and also collect limpets, mussels, and kelp to supplement my family's food supply, and to consume wild foods from my local environment. I have also been training in hopes to swim out to the kelp for spearfishing. This is an important lifestyle choice for us; hunting, fishing, and foraging are fundamental human activities and I would say, human rights. We connect with nature by visiting it but also feeding our bodies from it. On low tide days this stretch of coast sees hundreds and thousands of parents, children, and people from impoverished communities. Most are there to enjoy the tide pools, collect shells or beach glass, and marvel at the hidden underwater world.

I am very worried about loss of access to this key piece of coast line. But I am also, at heart, an environmentalist and a conservationist. I make it my business to always know fish and game regs, and I follow and support them because I know we have 40M people in this state, and the resources have to be managed. As a physicist, I also firmly believe in science and making evidence based decisions. If there is ever a need to close down or heavily regulate a fishery (i.e. abalone, salmon, sturgeon, lobster...) I am 100% on board.

I would be heartbroken to lose fishing access to this region. But I did not want to comment on this until I had done some research on the proposal; specifically, the justification for it. I have read the petition and it seems to be primarily concerned with preserving the kelp beds off Point Loma. Let me be very clear that I understand and value the importance of kelp in the ocean ecosystem; as the cornerstone organism of the ocean food web. I have donated heavily to, and often volunteer for, a local non profit called Get Inspired Inc; who has worked exhaustively to restore kelp forests in Palos Verdes. If the kelp needs saving I will be first in line to help it.

I have read the proposal and what I *do not* see is any justification for this closure. There is no evidence presented that current recreational or commercial activity is significantly damaging the kelp. Likewise there is no argument presented that explains how closing fishing to this region will bolster the kelp. I'm sure there is occasionally boat damage to the kelp, but it is minor and sporadic. And as we all know, kelp grows

extraordinarily fast and the damage would only be to the growth tips; which can recover. In fact I have fished that kelp often from a boat, and I have never seen even a minor bit of damage occur; other than perhaps someone snagging an occasional "leaf" with their lure.

The petition itself classifies the Point Loma kelp as "highly persistent." Indeed, it has been there since before humans and seems to persist, in spite of climate change, commercial, and recreational fishing. I don't see any evidence that this closure is necessary to save the kelp. In fact, there is an argument that closing commercial fishing in this region will actually hurt the kelp. Peter Halmay and the SD Fisherman's Working Group rely heavily on this kelp forest for their commercial urchin fishery. As I'm sure you know, urchin eat the holdfast of the giant bull kelp that grows there. Putting that urchin population under protection will likely result in high loss of the forest. Furthermore, my understanding is that the kelp is at risk due to climate change and rising sea temperatures. I would argue that closing in-shore/near-shore access to fisheries exacerbates this problem. People will still fish, but now they must drive further out to sea, burn more gas, emit more carbon. When the solution, in part, is for people to try to eat things sourced much closer to home. I have not yet either mentioned that closing shore access to fishing and foraging disproportionately affects marginalized and poorer communities, who can't afford to buy boats and travel far out to sea to secure food.

Petition 2023-33MPA also mentions that measures like these are needed to achieve the goals of Governor Newsome's 30x30 initiative. As I said, I am in favor of conservation, and I am a fan of this initiative. However, Newsome's own policy outline defines what is meant by conservation in the initiative:

"**Examples of 30x30 Conservation Areas 30x30 Conservation Areas can take many forms across a broad spectrum**… **Recreational lands and coastal waters**: Parks and open spaces with multi-benefit management to support both recreational use and habitat protection. **This includes areas that allow sustainably managed recreational activities (such as hiking, hunting, fishing, boating, and wildlife viewing)**, where biodiversity conflicts are minimized. Careful resource planning in these areas helps determine reasonable limits for recreation to avoid significant negative impacts to natural resources from human overuse (for example biodiversity loss and soil erosion). **Examples include national parks, state parks, regional open spaces, and recreational hunting and fishing areas subject to resource planning criteria and management to prevent biodiversity loss**."

I am on board for conserving as much as we can. But it must be balanced against the human right of fishing, foraging, and collecting food. The proposal to make this region a SMR, which allows no take of anything--including shells--is too draconian. In particular, I

don't see how harvesting a few pounds of mussels once a year, or collecting and preserving shells has any negative impact on the kelp, whatsoever. Furthermore it is not clear to me that kelp preservation is part of the legal mandate of the original MLPA. I have read some of the FGC public notes on this petition and it specifies that policy guidance would be needed.

In conclusion, I strongly urge you to deny this petition. If need be, I feel less drastic measures can be taken to preserve the kelp and I urge the FGC to use a more science based approach to setting those rules. This petition, as written, is a blatant land (er--sea) grab from extreme environmental groups, who I'm sure would be very happy to see fishing, hunting, and foraging banned altogether. But as I know you have been recently reminded: these activities are protected under the California State Constitution; and as I've said, a fundamental human right.

Thank you for your consideration and for reading my comments. I would be happy to discuss more if needed, and I will look to join some of the public meetings (which sadly I have only just learned about).

Respectfully,

Matt Steiger

From: Darren Gertler <[redacted]>
Sent: Monday, August 26, 2024 10:21 AM
To: FGC <FGC@fgc.ca.gov>
Subject: Public comment for Nov 6th Marine Resources Committee Meeting

Dear CA Fish and Wildlife Board Members and Leadership;

My name is Darren Gertler, I live and fish in Santa Cruz CA. I fish from a stand up paddle board and a 15 ft motorized skiff. I am writing and hopefully speaking in front of the commission to share my disagreement with the MPA Expansions that are being proposed by the petition process and the 30X30 Order

I work as a middle school woodshop teacher in a small local school district. Currently I am able to fish in my nearshore local waters to help feed my family. My nine year old daughter was raised eating the fish that we catch. When I ask her what she wants to eat at a BBQ she chooses fish collars over hot dogs and hamburgers every day! I am raising her with a foundational respect, appreciation, and understanding of our local marine ecosystems. If we lose access to our nearshore fisheries she will immediately begin losing her environmental stewardship.

At New Brighton Middle School I am also the co leader of the Fishing Club. The club is designed for both experienced and novice young anglers to experience fishing from our local shores. If the MPA extensions are approved we would lose so much coastal fishing access our club would be shuttered.

In conclusion, I hope that the board can understand that a tool as blunt as an additional complete closure would do more harm to our society and local fisheries. By limiting peoples access to their local ecosystems and foodsheds people become even more disconnected from them. As our populations, climates, and, oceans change we need to work collaboratively to provide more meaningful ways for our states citizens and visitors to engage in our Ocean resources.

Sincerely,

Darren Gertler
Santa Cruz Port Commissioner
Teacher
Father
Angler
Advocate
AllWaters Member

From: Barton Prideaux <[redacted]>
Sent: Thursday, August 22, 2024 4:28 PM
To: FGC <FGC@fgc.ca.gov>
Subject: Vote No To Closing Point Loma Kelp

Hi,

My name is Barton Prideaux. I am a San Diego resident, an avid waterman, and a scientist at UCSD. I am writing to express my concerns with the proposals for the expanded state marine reserves in San Diego.

First, I want to explain what access to the Point Loma kelp beds means to me. This area is where I learned to love the ocean and to understand my role as a part of the coastal ecosystem, not just as an impassive observer. I have spent roughly 300 hours freediving and spearfishing in this kelp bed since I moved to San Diego in 2018. I can show you where the most interesting rock formations are, and I can show you where the bottom is a wasteland of hard flat rock. There is an amazing cave in 55' of water where you will find black seabass oddly just resting on about 1 out every 3 trips. I can tell you exactly where the biggest sheephead are because I have watched them grow over the past several years and I can tell you that one went missing this year… likely caught or shot. My girlfriend jokes that I can find my way around that kelp bed easier than I can drive around San Diego.

I shoot 1-2 fish a year in that kelp bed. So why do I spend so much time there? I love diving there because the Point Loma kelp bed is "our" kelp bed. It is accessible from shore, but its dramatic cliffs make it unsuitable for sunbathers. In short, it is a waterman's paradise. When you live nearby, you feel a sense of stewardship over it. My ratio of hours/fish there is not impressive… it might be a more efficient use of my time to go buy fish at the store. But maybe hunting in our local kelp forest is about more than just bringing home a fish?

Hunting your local area has been a part of the human role as environmental stewards on this earth for millenia. When I am in the water hunting, I am observing the flora and fauna around me, managing my instincts, and trying to understand why different fish are behaving in certain ways (some would call that empathizing!). I am not thinking about my manuscript edits, coding bugs, or grant deadlines. I am a hunter, looking for food, just as homo sapiens has done for thousands of years. Something about that grounds me and when I come back from a dive, I am a better scientist, friend, and partner.

We all want the best for the Point Loma kelp bed, but a no-take MPA is not the best way to achieve that. Kelp beds thrive in cold water and suffer if their predators become too numerous. An MPA will do nothing to make the water colder and the implementation of a no-take MPA to reduce the populations of sea urchins is akin to using a hammer when you

need a scalpel. Please consider a more targeted approach to conservation than a blanket elimination of the hunting grounds of San Diego watermen.

Sincerely,

Barton

Barton Prideaux, PhD
[redacted]

From: cameron cribben <[redacted]>
Sent: Tuesday, August 27, 2024 07:21 AM
To: FGC <FGC@fgc.ca.gov>
Subject: Proposed mpa's

Hello Commissioners,

My name is Cameron Cribben I am a Point Loma commercial fisherman. I fish Spiny Lobster and Rock Crab also owning a local fish market called Tunaville Market and Grocery that solely sells local seafood. The projected Point Loma closure engulfs 100% of where I make my living. This closure is moving faster then the small amount of local fisherman can keep up with. I'm doing my part by trying to attend meetings and speak out with local legislators but also wanted to show members of commission a first hand look at the people this is truly effecting. After years of permitting and construction building our fish market in Driscolls wharf we were faced with an eviction notice. Learning all our hard work was doing to be demolished. We met with many Port of San Diego members at the market and were able to show them our family owned business and how important this was to not only us but to Point Loma and neighboring communities. Today Tunaville is a Point Loma staple. With all this said I wanted to invite you to our dock where the lobster boats tie up to our fish market where we sell local lobster that were caught in our very own backyard. Where my 4 year old son comes after preschool to see the lobsters and crab his dad catches everyday and to see the faces of the people this closure is punishing. Truly sorry for the rant just trying my best to fight for our sustainable fisheries

Sent from my iPhone

From: Michael Isaacman <[redacted]>
Sent: Wednesday, October 9, 2024 09:56 AM
To: FGC <FGC@fgc.ca.gov>
Subject: Petition 2023-33MPA Opposition

Hi,

My name is Michael Isaacman and I live in La Jolla, CA and I am writing to oppose and express concerns with Petition 2023-33MPA, specifically for Cabrillo SMR and the proposals for the expanded state marine reserve in San Diego, CA.

I frequently spearfish in that area and this petition would be a devastating loss to the spearfishing community. When spearfishing we only take fish that are within size and take limits and feel that this is the most ethical way to harvest the fish we love.

Please oppose this expansion of prohibited fishing areas as this kelp forrest is currently very healthy and full of exceptional fish.

Thank you.

Regards,
Mike

This e-mail and any attachments are confidential and are intended solely for the use of the individual to whom it is addressed. This communication may be legally privileged. If you are not the intended recipient or the person responsible for delivering the e-mail to the intended recipient, please note that any unauthorized use or dissemination of this e-mail and any attachments is expressly prohibited. If you have received this e-mail in error, please delete the original transmission and destroy all copies.

Exhibit 19

Agenda Item 2, Marine Protected Areas Petitions Evaluation

Received by the California Fish and Game Commission for the November 6-7, 2024 Marine Resources Committee Meeting

List of Public Comments and Attachments

1. Email from Chris Killen, All Waters PAC, transmitting op ed from Dr. Ray Hillborn, Professor, posted online at Santa Barbara Independent, and an article by Dr. Jason Johns, Conservation Scientist, posted to sbfreedivers.com, received October 9, 2024
2. Email from Bill Shed, CCA California, transmitting two attachments: Op ed from Dr. Ray Hillborn, Professor, posted online at Santa Barbara Independent (see comment 1), received 10/22/24
3. Email from Bill Shed, CCA California, transmitting two journal articles: Ceccarelli et al, 2024, and Hopf et al, 2024.

From: Christopher Killen <[redacted]>
Sent: Wednesday, October 9, 2024 11:50 AM
To: [redacted]; Ashcraft, Susan@FGC <[redacted]>; [redacted]; FGC <FGC@fgc.ca.gov>; [redacted]; [redacted]
Cc: [redacted]
Subject: A few recent papers about the effectiveness of MPA's

Hi all,

I hope my messages find you all well and good.

Attached is a collection of papers for your review as we continue in our efforts to pull together data and science around MPAs.

The first, which I'm assuming you have all seen by now, is from Ray Hilborn; a Professor in the School of Aquatic and Fishery Sciences at the University of Washington and served on the Science Advisory Team for 2 of the 4 regions during MLPA planning. He has been awarded the World Fisheries Science Prize and the Volvo Environmental Prize.

The second is from Jason Johns, a PHD out of Santa Barbara who founded One People One Reef.

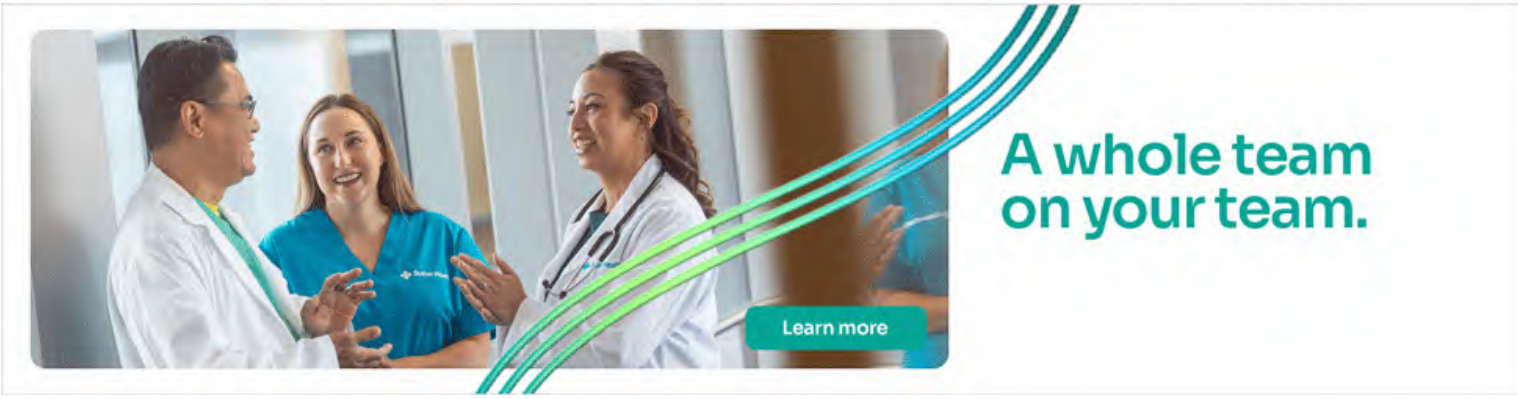
Post-Doctoral Fellow

- Post-doctoral fellow with OPOR; using genomic tools to understand connectivity between the islands of Ulithi
- PhD in Ecology, Evolution, and Marine Biology, University of California Santa Barbara, September 2023
- Jason is interested in coupling vast indigenous knowledge earned over time with modern tools to better understand the management of ecosystems and natural resources.
- Jason has spent most of his life in the ocean surfing, fishing, and free diving, but is beginning his professional marine science career with OPOR, as his background is in plant biology and genetics. He is looking forward to blending his love for the ocean and learning from people from different parts of the world with his love for doing science.

Would love to know your thoughts!

Respectfully,

Chris



Show Me the Benefits

10 Years in, What Have Marine Protected Areas Accomplished?

By **Ray Hilborn**
Tue Oct 01, 2024 | 4:49pm

More fish, more sustainable fisheries, and an ecosystem better protected from threats was the promise of the Marine Life Protection Act (MLPA) and the 124 MPAs now in place in California. Ten years on, what have they accomplished? The recently completed 10-year review by the California Department of Fish and Wildlife, as well as numerous scientific papers, suggest that our hopes were misplaced. The review concludes “statewide and regional trends across habitats showed no difference in biodiversity inside compared to outside MPAs.” As to the very real threats to California’s coastal ecosystems, climate change and recent marine heat waves, the review is decidedly not sanguine “analysis across habitats in the central coast revealed that MPAs did not provide strong resilience against the marine heatwave.” Ouch! Finally, there is not even evidence that there are any more fish in California state waters now, except for some of the areas that are closed to fishing. The only study to look at whether there were more fish overall suggests that the answer is no. Where fishing is intense, there are definitely more fish inside the closed area, but the fishing boats simply moved outside the boundary and caught them there.

The structure of the 10-year review alone squashes any expectations that the MPAs might be protecting our ocean from any threats. The review devotes 9 pages to governance and partnerships, 22 pages to research, 15 pages to outreach and education, and 14 pages to enforcement. A paltry 4 pages deal with how marine species have changed, and another 4 pages deal with climate resilience. The blatant absence of “good news” is spun into research, public engagement and enforcement as if those had been the goals the MPAs were meant to achieve.

Unsurprisingly, the only threat the MPAs do address is overfishing, and that is not a problem in state waters. The Marine Life Protection Act was conceived and implemented at a time of serious concerns about declines in many rockfish species in federal waters, but are not the focus of fisheries in state waters and are rarely found there. One should not

expect major benefits from no-fishing zones when there is no overfishing to begin with.

Make no mistake, California coastal ecosystems face many threats. These include climate change related warming, ocean acidification, storm severity and sea level rise. Moreover, the coasts face a wide range of terrestrial impacts from coastal development, sedimentation, land based runoff of sediments and pollutants, and water diversions. New exotic species and diseases have arrived, and ship traffic is increasing. California's MPA network provides no protection from any of these threats, and yet the MPA advocates are still claiming to have protected the ocean.

The Marine Life Protection Act was born in a research network of academics who formed a group call PISCO that published a report called "The Science of Marine Reserves" in 2007. The opening paragraph states "fish, shellfish, and other species are declining in many places. The changes are impairing the ocean's capacity to provide food, protect livelihoods, maintain water quality, and recover from environmental stress." Whatever happened to food and livelihoods? There is not a whisper or mention of those in the 10-year review.

Does California need even more marine reserves? The public should demand to know what the objectives are, how success is measured, what perceived threats are being addressed, and would the funds be better spent to address the real threats to California's coastal ecosystems. In a pinch, we could say that MPAs to some extent restrict fishing. But wait, we already have an agency that does that, the California Department of Fish and Wildlife (CDFW). Perhaps funding to implement more MPAs should be redirected to CDFW to do its job even better? Perhaps more importantly, the funds could be used to better regulate terrestrial impacts on the coastal ecosystem.

Ray Hilborn is a professor in the School of Aquatic and Fishery Sciences at the University of Washington and served on the Science Advisory Team during MLPA planning for Santa Barbara reserves. He has been awarded the World Fisheries Science Prize and the Volvo Environmental Prize.

Source: https://sbfreedivers.com/news/a-petition-to-expand-california-marine-protected-areas-contradicts-science-and-itself/

A Petition To Expand California Marine Protected Areas Contradicts Science And Itself

By Jason Johns, Conservation Scientist

Marine Management and Conservation

Conservation is a critical tool in maintaining the health of our ocean ecosystems. The kelp forests of California are important sources of ecological, cultural, and economic value. Their careful management is one of the highest priority initiatives for all of their stakeholders and stewards, including policy makers, tribes, fishers, divers, conservation biologists, and others.

Building marine management plans is a complex endeavor, and the success of any given initiative relies on its ability to consider multiple, sometimes conflicting perspectives. Each stakeholder group brings unique and important expertise, and each perspective has both assets and limitations. The asset that the scientific perspective brings to management is the ability to produce and analyze objective, tangible evidence.

Using science objectively, not selectively

While it's a no-brainer to use science in conservation decisions, it requires additional effort to use it objectively and comprehensively. Part of this objectivity is being sure to consult all of the science available on the issue at hand. We need to be wary of "using" any science to support a given initiative, especially when we have a personal stake in the outcome. Omitting relevant studies from the conversation undermines both the legitimacy and success of conservation initiatives.

Several organizations recently submitted a petition to the California Fish and Game Commission to protect kelp forests in Southern and Central California. The purpose of this letter is to address their incomplete and improper acknowledgement of the science around kelp health in California.

Let me first establish my biases. I'm fortunate to have a deep relationship with and respect for the ocean, which started in my childhood. I interact with the ocean by any means possible, whether it be riding waves, paddling various crafts, snorkeling, scuba diving, and occasionally sourcing food from it with various tools. I am also a scientist with a keen interest in learning more about the dynamics of the natural world, and a conservation biologist working to support its longevity. Accordingly, I approached this petition with an open mind, and multiple sources of both expertise and motivation.

I looked at the scientific papers and reports cited in the petition to examine the evidence myself. While sharing opinions is an important part of this process, the following are not my opinions - rather objective analyses of two fundamental errors in petition 2023-33MPA that either contradict the scientific literature and/or the petition itself.

Errors in the petition

The first major error that the petition makes is claiming that kelp density itself is positively influenced by MPAs. While we know that some California kelp dwelling species can be positively affected by MPAs, such as lobsters and sheephead (Kay et al., 2012; Hamilton & Caselle, 2015), kelp density has never been shown to be consistently higher in MPAs than outside them. In fact, the vast majority of published science on this topic from California demonstrated that that kelp density is unaffected by MPAs (Malakhoff & Miller, 2021; Smith et al., 2023). The second inconsistency is in the petition's description of the selection process for the sites chosen for MPA expansion or establishment. These two errors are fundamental to the petition, and their lack of rigor substantially undermines its legitimacy.

Error #1: MPAs improve kelp density and resilience to climate change

The petition is written with the intention of protecting kelp itself, which relies on the premise that MPAs enhance the health of kelp. It is true and relatively uncontroversial that MPAs protect many fish and invertebrate species - there are generally more fish and larger fish within MPAs than outside of them (Lester et al., 2009; Rolim at al., 2019). This has been demonstrated many times in various ecosystems around the world. Importantly, though, there is a lack of scientific evidence demonstrating that kelp itself is positively influenced by MPAs (Malakhoff & Miller, 2021; Smith et al., 2023).

However, the petition makes the following claim: "The Decadal Management Review of the statewide MPA network found that, while kelp species across the state experienced large-scale declines during the 2014-2016 marine heatwave, 'overall, kelp canopy was more stable and appeared to be more resilient inside MPAs' (CA MPA DMR 2022)."

The Decadal Management Review (DMR) does state this, but does not show any data to support it, which makes it an inappropriate citation in this context. A more appropriate citation would have been the 2021 report by Carr and colleagues that the DMR authors cited, entitled "Monitoring and Evaluation of Kelp Forest Ecosystems in the MLPA Marine Protected Area Network."

While the Carr et al. report did compare kelp resilience in MPAs and non-MPAs across California, there are multiple factors that make it a less than appropriate citation for this claim, especially considering there is much more directly relevant science to consult on this topic (Malakhoff & Miller, 2021; Smith et al., 2023). First, two out of three

comparisons had no visual difference between MPAs and their “reference” non-MPAs. In addition, when looking specifically at kelp resilience, the DMR lumped all MPAs across California into one analysis (Figure 25), rather than splitting them into Southern, Central, and Northern California regions, as they did with their other analyses. Given the many fundamental differences between these regions, including the species of kelp that dominate them, it is difficult to draw any region-specific conclusions from this analysis. The strong differences between California regions are emphasized elsewhere in the DMR, as well as in two other studies currently (Hall-Arber et al. 2021 and Kumagai et al).

Further, the DMR did not show any statistics in this particular analysis, which is a fundamental part of determining the confidence that any apparent trend is a true representation of the entire population. This is likely why they chose the language, “appeared to be more resilient.” Finally, the authors acknowledge the inherent difficulty in comparing MPAs with non-MPAs, as MPAs are often chosen *because* they are known or suspected to be especially resilient, even before their protection.

A more directly applicable study to the petition’s claim is Smith et al. (2023), which did split their analyses of kelp communities in California MPAs by region, and fortified the trends they found with statistics. They found that “for all habitats except the rocky intertidal, MPAs did not impart increased resistance or recovery from marine heatwave-driven community changes compared to sites outside of MPAs.”

Malakhoff & Miller (2021) would have also been an important study to consider, which found that “no significant effect of reserve status (MPA vs. non-MPA) or time period or the interaction between status and time was evident for kelp stipe density” (Figure 1). They also compared grazing and urchin density inside and outside MPAs, and found “no evidence, therefore, that increases in predators inside Channel Islands MPAs are causing, either through direct or indirect effects, a trophic cascade leading to positive effects on kelp forests via decreased sea urchin biomass and grazing.” They conclude that “urchin biomass overall has increased inside

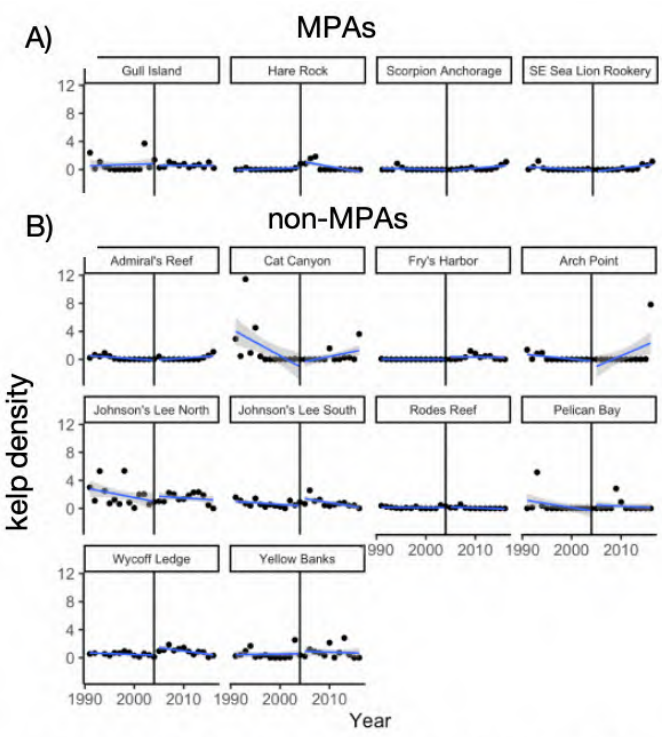


Figure 1. *Adapted from Malakhoff & Miller (2021) Figure S3. “Change in kelp stipe density over time with regression lines fit before and after the establishment of marine reserves in 2004 (vertical lines) at reserves (A) and control (B) sites.”

reserves, and we found no evidence that giant kelp is positively affected by reserves."

While it is not yet published, it is important to mention a recent study by Kumagai et al. which found that kelp resilience and recovery to the 2014-2016 marine heatwave was slightly more robust inside Southern California MPAs than outside (there was no effect of MPAs in Central California). They do, however, acknowledge that their measurements of kelp resilience and recovery are subject to some amount of error, as they were from satellite imagery. In contrast, both Malakhoff & Miller and Smith et al. measured kelp directly by counting the density of stipes (aka "stringers") on the reef, which is arguably a more thorough measure of kelp health. They also acknowledge the bias associated with the selection of MPA sites - "Taken together, these results could be biased if MPAs had been non-randomly placed in habitat more favorable to kelp recovery."

Importantly, this study is in preprint, meaning it has been submitted to a scientific journal and is currently under peer review. The petition does not cite this paper, nor should it, but the preprint is publicly available, thus it is mentioned here for thoroughness.

Another study not cited by the petition, but worth mentioning, is Eisaguirre et al. (2020). Like Kumagai et al., they did not examine the effects of non-random placement of MPAs, which likely could have affected their finding of higher kelp density in MPAs than outside in the Northern Channel Islands. This result contrasts that of Malakhoff & Miller, which found no effect of MPAs on kelp density. Notably, Malakhoff & Miller surveyed 33 sites and analyzed each site both individually and together, with statistics. Eisaguirre et al. surveyed 7 sites and lumped them all together, reporting no statistical hypothesis testing, but rather models that did not fit their data particularly well.

The above literature review demonstrates the objective failure of the petition authors to thoroughly examine the science relevant to their initiatives and claims, rendering the petition illegitimate.

Error #2: Sites were chosen because they were not listed as "high priority" by Giraldo-Ospina et al., 2023.

The second contradiction is in regard to the strategy used to select sites for MPA expansion. This error is not a contradiction or omission of the literature, but rather a contradiction of the petition itself.

The petition narrative states, "we did not focus on 'high priority' restoration sites identified by Giraldo-Ospina et al. 2023…" However, Table 1 of the petition suggests that they propose to expand the two MPAs on the Northern Channel Islands *because* they hold portions of high priority sites: "The Northern Channel Islands contain some of the largest remaining resilient kelp beds in state waters, although large portions of the

islands have experienced die-offs and are rated as ‘high priority’ sites by Ospina-Giraldo et al. 2023.”

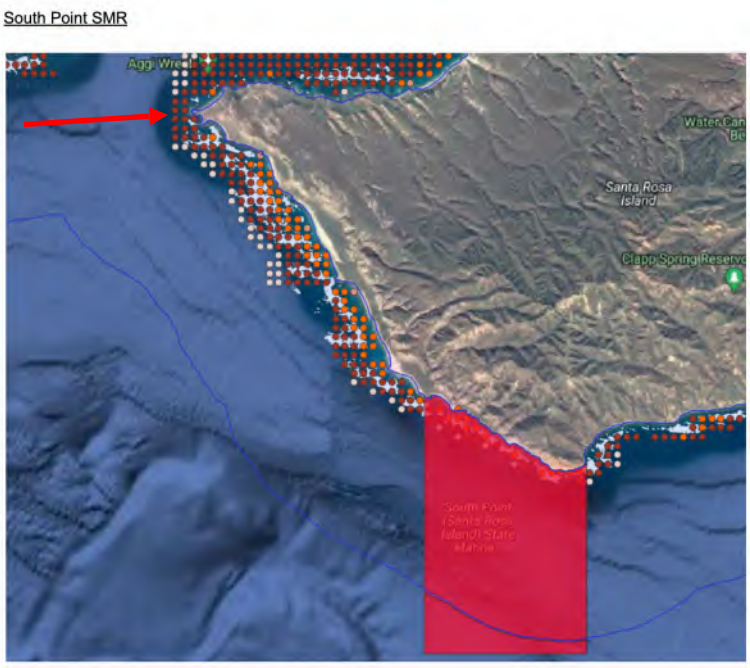


Figure 2. *Adapted from Petition 2023-33 MPA. The red polygon indicates the current South Point MPA on Santa Rosa Island. The red arrow indicates the point to which the MPA is being proposed to expand, 3nm out. Dark red circles indicate “high priority” zones.

Further, Giraldo-Ospina explicitly states that Santa Rosa has a concentration of high priority sites: “Sites in the south coast classified as high priority for giant kelp restoration are visibly clustered around San Miguel and Santa Rosa Islands.” This is clear from the map of Santa Rosa Island included on page 17 of the petition, which proposes to expand the current South Point MPA (red polygon) on the southwest side of Santa Rosa Island all the way to the west end of the island (red arrow; Figure 2). The dark red circles indicate “high priority” areas, which clearly constitute the majority of the proposed expansion area.

This is another egregious error that undermines the legitimacy and relevance of petition 2023-33MPA. The authors of this petition gathered thousands of signatures on a fundamentally flawed document, which is negligent at best.

Going forward

The intent of this letter is not to denigrate marine management and protection, nor any of the science cited in the petition, rather to expose the lack of foundation for this proposal. The errors identified here not only undermine the legitimacy of the petition itself and its signatures, but demonstrate a lack of regard for complete and objective due diligence for a potentially highly impactful initiative. My hope is that this previously ignored information will be considered in all discussions going forward.

Finally, I remind that the natural sciences, while crucial, are not the only factor to consider. There is also a robust body of social science research examining the effects of marine reserves on other tangible and intangible factors such as livelihoods, cultures (both indigenous and non-indigenous), healthy subsistence, and lifelong passions. These considerations should also be weighed heavily, yet were mostly ignored in this petition. Knowledge is power, and it is our duty to incorporate all of the relevant knowledge available to us in these significant decisions.

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From: David Clutts <[redacted]>
Sent: Monday, October 21, 2024 11:20 AM
To: FGC <FGC@fgc.ca.gov>
Subject: Letter of Opposition to Swami's, Py Loma MPA expansion

Dear California Fish & Wildlife,

I am writing to express my opposition to the proposed expansions of both the Swami's Marine Protected Area (MPA) and the Point Loma MPA.

Swami's already experiences minimal recreational fishing pressure. Access to the current fishing area from the shore is critical, and the expansion would complicate enforcement due to the difficulty in determining the new boundary lines. Expanding the MPA further would significantly limit fishing opportunities in Solana Beach, which has been a vital fishing area for decades. Closing additional area makes little sense while the Army corps of engineers routinely covers much of the reef with the sand replenishment at Solana beach. Therefore, I respectfully urge the California Department of Fish & Wildlife to deny the proposed expansion of the Swami's MPA.

Similarly, I oppose the expansion of the Point Loma MPA. This area contains some of the last remaining healthy kelp beds that can support fishing activities in southern San Diego County. The argument presented by the organization petitioning for the expansion, claiming it is necessary to save the kelp, is unfounded. Fishermen have protected and sustained these kelp beds as valuable fishing grounds for over a century. Expanding the MPA will only displace fishing pressure to other areas, disrupting a balanced ecosystem and limiting sustainable fishing opportunities.

I strongly urge the Department to deny the expansion of the Point Loma MPA, as it will negatively impact both the environment and the fishing community.

Thank you for your consideration.

Sincerely,
David Clutts
Member: San Diego Freedivers, Norcal skindivers, Richmond Pelican Skindivers

Spear fisherman, Fisherman, Diver, Scuba Diver

DAVID CLUTTS

Broker Associate

C: [redacted] (San Diego) | C: [redacted] (Northern CA)

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1424 Camino Del Mar | Del Mar | CA | 92014

David Clutts]
[redacted]
10/21/2024

California Department of Fish and Wildlife
[Address if available]

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Sincerely,
David Clutts
Member: San Diego Freedivers, Norcal skindivers, Richmond Pelican Skindivers

Spear fisherman, Fisherman, Diver, Scuba Diver

From: Bill Shedd <[redacted]>
Sent: Tuesday, October 22, 2024 03:29 PM
To: FGC <FGC@fgc.ca.gov>
Cc: Wayne Kotow <[redacted]>; Marc Gorelnik <[redacted]>
Subject: Hilborn Editorial for Nov 6 MRC meeting

Dear Sirs:

See the attached editorial from Ray Hilborn. I am requesting this be discussed at the Nov 6 MRC meeting.

My name is Bill Shedd, and I am chairman of the board of CCA Cal. The science is far from settled on the actual value of no-fishing MPAs. Most marine scientists agree that fish populations inside a no-fishing MPA will grow. However, there is no consensus as to whether MPAs actually increase total fish populations as fishing effort simply moves outside the MPA. There are two sides on the issue regarding the value or lack of with no-fishing MPAs. Discussing the attached editorial from Ray Hilborn at the Nov 6 MRC will make it clear there remains serious debate within the marine science community on no-fishing MPAs and whether or not they provide any overall benefit. - Bill

Bill Shedd | Chairman/CEO

AFTCO | [redacted]

[redacted] | [redacted]

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From: Bill Shedd <[redacted]>
Sent: Wednesday, October 23, 2024 04:58 PM
To: FGC <FGC@fgc.ca.gov>
Cc: Wayne Kotow <[redacted]>; Marc Gorelnik <[redacted]>
Subject: MPA science papers for Nov 6

Dear Sirs

Please include the attached 2 papers for discussion during the Nov 6 MRC discussions.

– Bill

The Ceccarelli paper looks at the Great Barrier Reef Marine Park in Australia which has been in place since 1975 and has 33% closed to fishing since 2004, a closed area of 117,000 square km which is 50 times more than the MLPA. The key lessons that have been learned are that the MPAs have had a small impact on the fish communities, and significant effects have only been found for the most heavily fished species.

The Hopf paper is a review of the large literature on the impact of marine protected areas on the abundance of fish, and has two very important results relevant to the MLPA. They compare the estimated change in abundance inside MPAs using three methods, inside-outside comparison, before and after, and the statistical method called before-after-controlled-impact BACI. Almost all evaluation of the increase in fish abundance in MPAs has been done using before-after. This is true for the MLPA. Hopf et al. found that inside-outside comparisons suggested a much higher increase than the before-after or BACI -- roughly 35% increase compared to only 20%. Even more importantly, Hopf found that using before-after or BACI it was almost equally likely that there was no or a negative impact of the MPA closure on the density of fish. The bottom line is that even in the parts of the MLPA that appear to show an increase in fish abundance, it is likely that this increase has been overestimated.

Bill Shedd | Chairman/CEO

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Global Change Biology WILEY

RESEARCH ARTICLE

Regional-scale disturbances drive long-term decline of inshore coral reef fish assemblages in the Great Barrier Reef Marine Park

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Funding information
Department of Climate Change, Energy, the Environment and Water; Centre of Excellence for Coral Reef Studies, Australian Research Council

Abstract

Anthropogenic pressure is increasing the variety and frequency of environmental disturbance events, limiting recovery and leading to long-term declines in wild plant and animal populations. Coral reefs and associated fish assemblages are inherently dynamic due to their susceptibility to a host of disturbances, but regional-scale nuances in the drivers of long-term change frequently remain poorly resolved. Here, we examine the effects of multiple potential drivers of change in coral reef fish assemblages across 4 inshore regions of the Great Barrier Reef Marine Park (GBRMP), Australia, over 12–14 years (2007–2021). Each region had a unique disturbance history, in conjunction with long-term changes in physical and habitat variables. Phases of recovery were apparent in the years between disturbance events at all locations, but these were not long enough to prevent substantial declines in reef fish density (by 33%–72%) and species richness (by 41%–75%) throughout the study period. The main drivers of change in fish assemblages varied among regions; however, the most rapid changes followed cyclone and flood events. Limited recovery periods resulted in temporal shifts in fish species composition from typically coral-associated to algae-associated. Most trophic groups declined in density except farmers, grazers, omnivores and parrotfish. No-take marine reserves (NTMRs) had small and inconsistent effects on total fish assemblages, but delivered benefits for fishery-targeted piscivores. Our findings suggest that coral reef responses to local stressors and cumulative escalating climate change impacts are highly variable at regional scales, and that small NTMRs are unlikely to mitigate the impacts of increasingly frequent climatic disturbances. Nearshore coral reefs worldwide are high-value habitats that are either already degraded or vulnerable to degradation and the loss of important fish groups. Global efforts to reduce greenhouse gas emissions must be coupled with effective local management that can support the functioning and adaptive capacity of coral reefs.

KEYWORDS
coral reefs, cyclone, ecological drivers, habitat degradation, marine heatwave, temporal dynamics

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1 | INTRODUCTION

Ecological communities are subject to natural intermittent disturbances followed by periods of recovery, resulting in fluctuations over time, both in terms of population abundance and assemblage composition (Dallas & Kramer, 2022; Dayton, 1971; Levin & Paine, 1974; Paine & Levin, 1981). Such disturbances are thought to play a major role in maintaining complex landscapes and promoting species diversity (Connell, 1978; Sousa, 1979, 1984). However, in the Anthropocene, disturbance regimes are changing because of human activities, such as extraction, habitat destruction and increasingly chaotic fluctuations in the weather as the climate changes (Micheli et al., 2016; Turner, 2010). The increasing severity, diversity and frequency of disturbances are combining to shrink the recovery window for many ecosystems (Hughes, Anderson, et al., 2018). Anthropogenic pressures and disturbances threaten the existence of foundation species, degrade landscapes, reduce population sizes and diminish biodiversity (Byrnes et al., 2011; Detmer et al., 2021; Seidl et al., 2022). The processes driving long-term change may be complex, depending on regional differences in disturbance regimes, the resistance of key foundation or habitat-forming species and their ability to recover (Jurgens & Gaylord, 2018; O'Leary et al., 2017; van der Heide et al., 2021). Management actions designed to protect communities from disturbance or promote recovery are urgently needed (Anthony et al., 2015; Pelletier et al., 2020). Additionally, more studies are needed on region-specific disturbance regimes, their long-term effects on community metrics, the biophysical factors that interact with periodic perturbations and the effectiveness of management actions to halt long-term degradation.

Coral reefs are dynamic ecosystems, subject to disturbances such as cyclones, crown-of-thorns starfish outbreaks and bleaching events (Moritz et al., 2021; Plass-Johnson et al., 2018). Unfortunately, coral reefs are also among the ecosystems most vulnerable to the increasing array of anthropogenic stressors, including increasing water temperatures and terrestrial run-off, all of which impact negatively on hard corals, the building blocks of coral reefs and essential habitat for most reef-associated organisms (Nyström et al., 2000). In a rapidly warming climate, coral reefs are the 'canaries in the coalmine' for the impacts of sea surface temperature (SST) increases (Henley et al., 2024). Different growth forms of hard corals vary in their ability to either resist these disturbances or recover rapidly during the intervening disturbance-free periods (Madin, 2005). Long-term studies are increasingly documenting severe degradation of coral reef habitats, declining biodiversity and, in some cases, persistent regime shifts from coral to algal-dominated states (Arias-González et al., 2017; Crisp et al., 2022; McManus & Polsenberg, 2004). However, the suite of anthropogenic stressors impacting reefs, the potential for assemblages to recover and the effectiveness of management actions in mitigating impacts or promoting recovery are still being documented.

Coral reef fishes are significant contributors to important ecological processes and trophic interactions in coral reef ecosystems (Polunin, 1996; Sale, 2002). Reef fishes link pelagic and benthic communities through larval dispersal, adult movement (Green et al., 2015; Jones et al., 2009) and planktivory (Hobson & Chess, 1978; Morais & Bellwood, 2019), exert top-down control through predation (Brandl et al., 2019; Hixon, 1991), influence the benthos through grazing and invertivory (Graham et al., 2015; Hatcher, 1988; Kramer et al., 2015) and even contribute to primary production by farming or gardening (Ceccarelli et al., 2005). They range from being versatile omnivores (e.g. Mendes et al., 2019), to occupying highly specialised niches such as corallivory (Pratchett et al., 2013), coprophagy (Robertson, 1982) and parasite-cleaning (Grutter, 1995). While affecting coral reef habitats, they also depend on the integrity of the habitat to support the full complement of species, processes and functions (Darling et al., 2017). This extends beyond living corals to the three-dimensional structure of the reef itself (Chong-Seng et al., 2012). Reef fishes also provide extensive socioeconomic benefits through fisheries and tourism revenue (Cinner et al., 2016). Understanding spatial and temporal patterns in reef fish abundance, diversity and species composition, and their key drivers, is fundamental to the design, implementation and evaluation of conservation and management actions to support persistence and productivity (Eggertsen et al., 2019; Sale et al., 2005).

Reef fish assemblages are highly dynamic and subject to changes in abundance, species richness and composition due to a variety of extrinsic (e.g. disturbance events) and intrinsic (e.g. recruitment) factors. Changes to reef fish assemblages over time have been measured in response to fishing (Zgliczynski & Sandin, 2017), marine reserve protection (Hadj-Hammou et al., 2021; Olivier et al., 2022), changes in habitat structure (Lin et al., 2022; Nash et al., 2013), environmental conditions (Benthuysen et al., 2022; Feary et al., 2010), disturbance events (McClure et al., 2019) and stochastic factors such as recruitment pulses (Sale, 2004). Stuart-Smith et al. (2021) found that fish assemblages on tropical reefs are undergoing a shift towards more generalist species in response to climate change, while on temperate reefs there is a distinct 'reshuffling' of fish assemblages towards more warm-adapted species. General declines in abundance and species richness, as well as local extinctions, have been documented following marine heatwaves and other climatic disturbance events (Edgar et al., 2023; Pratchett et al., 2011; Wilson et al., 2006). Global reef fish diversity declines are expected with habitat loss, especially loss of corals (Strona et al., 2021). Other studies have found reef fish assemblages to be remarkably stable, even after repeated disturbance events resulting in profound habitat changes. (Cheal et al., 2008; Sano, 2000; Wilson et al., 2009). However, the perception of stability may depend on the taxonomic resolution of the study (Lamy et al., 2015), as concurrent species-level increases or declines may be masked within families, trophic or functional groups (Ceccarelli et al., 2016; Wilson et al., 2006).

It is well known that the physical disturbances that destroy habitat (e.g. temperature stress, cyclones and destructive fishing), indirectly affect fishes that rely on those habitats (Emslie et al., 2014; Graham & Nash, 2013; Pratchett et al., 2008), but do those physical forces also act on fish assemblages directly? With extreme SST anomalies, acute mortality events of fish are possible, and over time

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this may alter the suite of species that occupy any given reef (Stuart-Smith et al., 2015; Stuart-Smith et al., 2018). Direct impact by cyclone waves and wave-born debris may kill some fishes, but the dominant impact of storm events is typically habitat loss (Munday, 2004; Munday et al., 2008; Triki & Bshary, 2019; Wilson et al., 2006). Management and conservation measures superimposed upon these large-scale, dynamic processes may or may not mitigate disturbance impacts on populations, assemblages and habitat structure (Mellin et al., 2019). Teasing apart the forces that act on fish assemblages may not be possible without dedicated experimental research, although advances in statistical techniques that partition the relative importance of a given set of predictor variables is allowing increased insight into drivers of coral reef communities (Samoilys et al., 2019; Zinke et al., 2018).

No-take marine reserves (NTMRs) are a widely used marine conservation tool, with proven benefits for populations of target species (Allard et al., 2022; Emslie et al., 2015; Graham et al., 2011; Mellin et al., 2016). Effects on non-target species, habitats and processes are more equivocal, especially in regions where fisheries target a few select species with non-destructive fishing practices (Emslie et al., 2015). There is some evidence that NTMR reefs can be more resilient (McClure et al., 2020; McCook et al., 2010; Mellin et al., 2016), but this may not hold under a regime of increasing disturbance frequency and intensity. In fact, there is increasing evidence that NTMRs have a limited ability to protect reef habitats from extreme disturbances, leading to similar changes in fish assemblage structure in both NTMRs and fished areas (Graham et al., 2011; Jones et al., 2004; Williamson, Ceccarelli, Evans, Jones, & Russ, 2014).

In seeking to understand temporal dynamics of coral reef fish assemblages, and the ability of NTMRs to support resilience under environmental change, it is important to quantify key drivers of abundance, diversity and species composition. Fish assemblages can be shaped by a combination of interacting physical drivers, which include environmental factors such as temperature, depth or wave exposure (Floeter et al., 2005; Friedlander et al., 2003; Fulton et al., 2005; Jouffray et al., 2015; Maia et al., 2018; Roff et al., 2019), slope steepness, three-dimensional reef habitat structure (Chabanet et al., 1997; Graham & Nash, 2013; Luckhurst & Luckhurst, 1978) and biological drivers such as food availability, recruitment, competition and predation (Roff et al., 2019). The composition of the benthic community also affects the fish assemblage (Chong-Seng et al., 2012; Done, 1992; Gratwicke & Speight, 2005; Halford et al., 2004; Williams, 1982). Changing conditions due to disturbances (e.g. increased wave exposure and turbidity during/after storms) and resulting changes to benthic organisms all have an influence on the temporal dynamics of reef fishes (Pratchett et al., 2011). Superimposed on biophysical drivers are human factors such as exploitation, habitat destruction through coastal development, dredging and destructive fishing, and spatial management such as NTMRs (Pinca et al., 2012).

Multiple-use zoning management was first introduced to the Great Barrier Reef Marine Park (GBRMP, Marine Park) in the late 1980s. Networks of NTMRs were expanded throughout the Marine Park in 2004 and since that time approximately 33% of the Marine Park area (and 33% of the coral reef habitats) have been protected within NTMRs. Inshore GBR coral reefs are no exception to the alarming rates of global ecosystem degradation caused by the cumulative and escalating effects of global warming (Ceccarelli et al., 2020; Hughes, Kerry, & Simpson, 2018). The proximity to human populations means that pressure from extractive activities like recreational fishing is significant on inshore fringing reefs around islands near the coast (Williamson, Ceccarelli, Evans, Hill, & Russ, 2014; Williamson, Ceccarelli, Evans, Jones, & Russ, 2014). Furthermore, inshore reefs of the GBR are subject to the pressures typical of coastal and inshore reefs worldwide, despite active management of stressors and relatively low human population densities compared with other tropical coastal nations. In this sense, the response of the GBR inshore reefs to these pressures could serve both as a benchmark for thresholds of pressure these systems can withstand, and an example of what a reduction in pressure could result in for marine ecosystems that are much more heavily used and degraded.

In this study, we quantify regional and local differences in the key physical and biological drivers of fish assemblages and the ability of NTMRs to mitigate against multiple cumulative stressors. The primary aim was to examine long-term trends in the abundance, diversity and species composition of fish assemblages on inshore coral reefs within NTMRs and fished zones across four regions of the GBRMP: the Palm Islands, Magnetic Island, the Whitsunday Islands and the Keppel Islands. Specifically, we (1) quantify changes in fish density, species richness, species composition and the abundance of trophic groups over 12–14 years, (2) determine whether NTMRs reduced or halted any long-term declines in the summary metrics and (3) investigate the relative importance of 20 potential predictor variables in explaining the temporal variability of fish assemblages using boosted regression tree (BRT) models.

2 | METHODS

2.1 | Study locations, management zoning and reef survey protocols

The four inshore island regions are located 10–30 km from the mainland coast and span 4.5 degrees of latitude, from 18.603S to 23.19S (Figure 1). Inshore reefs of the GBR are high use and high value, and exist in waters with higher sediment, pesticide and nutrient loads than offshore reefs (Fabricius et al., 2008; Hughes, Kerry, & Simpson, 2018; Negri et al., 2011; Negri & Hoogenboom, 2011), particularly in sheltered (predominantly west-oriented) locations (Fabricius et al., 2008). Coastal waters with a terrestrial influence are often associated with reduced fish biomass and species richness, and a range of water quality parameters may affect fishes both directly and indirectly (Letourneur et al., 1998). Benthic communities on these reefs typically consist of a combination of hard corals, soft corals and macroalgae that are adapted to conditions of high turbidity, nutrients and suspended sediment (Ceccarelli

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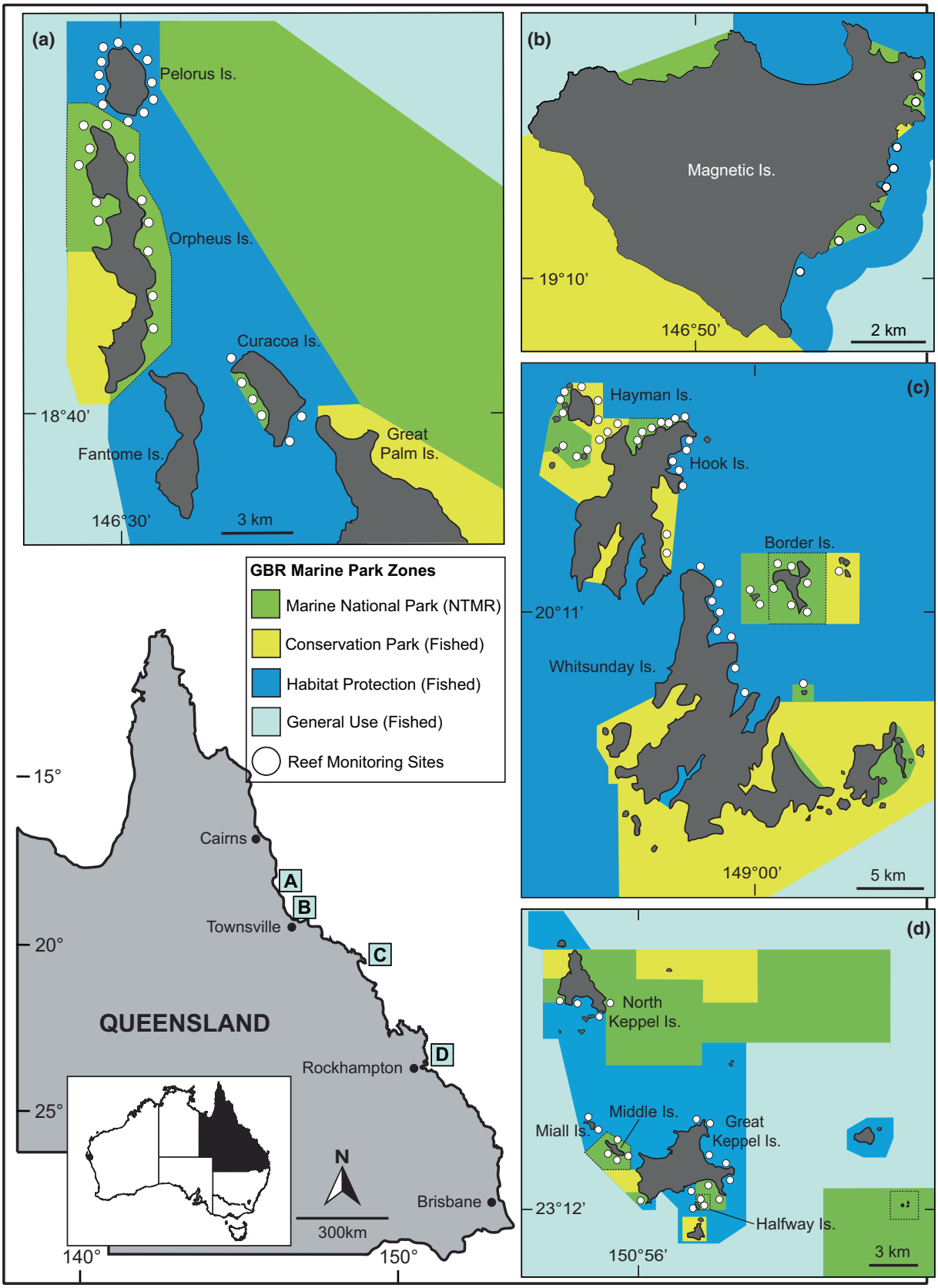

FIGURE 1 Composite map of coral reef monitoring sites in the Palm (a), Magnetic (b), Whitsunday (c) and Keppel (d) Island groups. White dots indicate the approximate position of monitoring sites within each island group. Colour-shaded areas represent the configuration of post-2004 Great Barrier Reef Marine Park (GBRMP) management zones. Light blue, dark blue and yellow zones are open to recreational fishing. Green zones are no-take marine reserves (NTMRs). NTMRs that were established in 1987 are bordered with black dashed lines. All other NTMRs were established in July 2004.

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et al., 2020; Flores et al., 2012). Around the islands, reef flats are often exposed to the air on spring low tides, and the reef slopes vary from shallow, gentle inclines on the sheltered (western) sides of the islands to steeper formations and greater depths on the windward (eastern) sides. The reefs are often close to mangroves and seagrass beds, and sediment on inshore reefs has a high terrigenous component, unlike the biogenic carbonate sediments on reefs further offshore. These inshore reefs also tend to occur in shallower waters than those further offshore, with the base of the reef slope rarely exceeding 10 m in depth. Fish assemblages on these inshore reefs are composed of a subset of species that occur on mid-shelf and outer shelf reefs, with a few inshore specialists (Emslie et al., 2017; Emslie et al., 2019; Hoey et al., 2013; Russ, 1984; Williams, 1982).

Standardised underwater visual census protocols were used to survey benthic and fish assemblages at long-term monitoring sites on fringing reefs of the Palm Islands (30 sites), Magnetic Island (8 sites), Whitsunday Islands (42 sites) and Keppel Islands (20 sites) (Figure 1) between four and eight times during the period 2007–2021. The Palm and Whitsunday Islands were surveyed in 2007, 2008, 2009, 2012, 2014, 2016 and 2018, with an additional survey in 2017 at the Whitsunday Islands; the Keppel Islands were surveyed in 2007, 2008, 2009, 2011, 2013, 2015, 2017 and 2021, and Magnetic Island reefs were surveyed just four times due to weather constraints, in 2007, 2012, 2016 and 2019 (Table S1). Within each island group, monitoring sites were evenly distributed among reefs that are open to fishing (General Use, Habitat Protection and Conservation Park Zones) and NTMRs that were closed to fishing in either 1987 or 2004 (Figure 1).

At each of the 100 sites, five 50 m transects were deployed on the reef slope along a single depth contour between 4 and 12 m, depending on the reef slope depth and topography at each site. Fish and benthic surveys were conducted by trained and experienced observers on SCUBA, and all species of diurnal, non-cryptic reef fish were recorded. Large-bodied, mobile fishes were surveyed using a transect width of 6 m (i.e. 300 m^2 survey area) by two divers swimming side by side, with a third diver laying out the transect tape behind them. Small-bodied fishes (family Pomacentridae and small Labridae) were surveyed by one diver during the return swim along each transect, using a transect width of 2 m (i.e. 100 m^2 survey area). The same three observers conducted all fish surveys throughout the monitoring period (DHW, DMC and RDE). All recorded fish species were assigned to trophic groups (Table S2; parrotfish include scrapers and excavators), and counts were converted to density (individuals per 1000 m^2) for all analyses except the generalised linear mixed model, where individuals per 300 m^2 were used to satisfy the requirement of integers for the preferred negative binomial distribution (see below).

Benthic communities were surveyed using a standard point-intercept survey method (Williamson, Ceccarelli, Evans, Jones, & Russ, 2014) by one diver during the return swim along each transect. A single benthic point sample was recorded at every 1 m graduation mark along each transect tape (i.e. 50 samples per transect). Benthic biota and substrata were classified into the following categories: live and dead hard coral with further subdivision into morphological categories (branching, tabular, digitate, solitary, massive, foliose and encrusting), soft coral, sponge, clams (*Tridacna* spp.), other invertebrates (such as ascidians and anemones), macroalgae, coral reef pavement (covered in turf algae), rock, rubble and sand. Additionally, for the live hard coral categories (branching, tabular and digitate), each colony was further classified as either *Acropora* spp. or 'other'. The structural complexity of the reef habitat at each site was estimated using a simple method that gave a rank (1–5) to both the angle of the reef slope and the rugosity of the benthos for each 10-metre section of each transect (see Wilson et al., 2007).

2.2 | Physical predictor variables

2.2.1 | Cyclone wave exposure

We generated quantitative estimates of relative wave exposure at each monitoring site during each relevant cyclone (identified from a dataset described in Puotinen et al. 2016) from 1998 to 2021. We used modelled wave height and direction data from NOAA WAVEWATCH III and the Commonwealth Scientific and Industrial Research Organisation (CSIRO) to identify which cyclones generated significant wave heights (Hs = average of top 1/3 of wave heights) of 3.5 m or more at each monitoring site. For each cyclone at each site, the distance to the nearest wave-blocking obstacle was measured every 7.5 degrees around each site (fetch). These measures were weighted by the relative frequency at which cyclone-generated waves approached the site and their average magnitude. These distances were then summed and normalised to create a dimensionless index of relative cyclone wave exposure, as per previous studies (e.g., Gilmour et al. 2022; Table 1).

2.2.2 | Turbidity exposure

Daily Moderate Resolution Imaging Spectroradiometer (MODIS) Level-0 data were acquired from the NASA Ocean Colour website (https://oceancolour.gsfc.nasa.gov) and converted into RGB colour images with a spatial resolution of 500 × 500 m using the SeaWiFS Data Analysis System (SeaDAS; Baith et al., 2001). The images were then (i) spectrally enhanced to transform them from RGB to the Hue-Saturation-Intensity (HSI) colour system and (ii) classified into three distinct water colour categories corresponding to the three optical water types (primary, secondary and tertiary) commonly found in the GBR during the austral wet season (Devlin et al., 2015; Petus et al., 2014; Waterhouse et al., 2018; Wenger et al., 2016). For full detail on the water quality classification, see Appendix S1.

We used the primary water type characterisation to quantify the frequency of exposure of the monitoring sites to highly turbid water from flood plumes and subsequent sediment re-suspension during the 2003–2017 Queensland summer wet seasons

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TABLE 1 Predictor variables tested with boosted regression trees, divided into physical forces acting directly on the fish community, habitat variables, prey density and a management variable (zoning). Units of measurement are provided in brackets for each driver.

Type	Driver	Justification
Physical	Cyclone exposure (index)	Different species show different susceptibilities to storms and cyclones (Gerlach et al., 2021)
	Exposure to primary flood-water (weeks)	Strong fluctuations in salinity and turbidity can affect reef fish communities (Johansen & Jones, 2013)
	Kd490 (m)	Changes in turbidity affect abundance, composition and behaviour of reef fishes (Johansen & Jones, 2013)
	Chlorophyll-*a* (mg L^{-1})	Nutrient loads affect the abundance and composition of reef fish assemblages (Sartori et al., 2021)
	Degree heating weeks (°C-weeks)	Thermal stress has lethal and sublethal effects on fishes (Stuart-Smith et al., 2018)
	SST mean (°C)	Reef fishes respond to temperature (Lloyd et al., 2012)
	SST anomaly (°C)	Thermal stress has lethal and sublethal effects on fishes (Pearce & Feng, 2013)
Habitat	Live hard coral (% cover)	Loss of live coral means a loss of food, shelter and recruitment habitat (Russ et al., 2021)
	Soft coral (% cover)	Loss of soft coral means a loss of food and shelter (Epstein & Kingsford, 2019)
	Turf (% cover)	Turf is the preferred food source for several groups of reef fish species (Tootell & Steele, 2016)
	Macroalgae (% cover)	Macroalgae can be food and recruitment habitat for some species, but many reef fishes avoid areas of macroalgal dominance (McClure et al., 2019)
	Unconsolidated substratum (% cover)	Has low structural complexity, but hosts specific types of fishes (Wolfe et al., 2021)
	Coral morphological diversity (index)	Is a measure of the complexity the three-dimensional structure of the habitat Higher habitat complexity tends to lead to higher abundance and species richness (Graham & Nash, 2013)
	Benthic richness (index)	Is a measure of the complexity the three-dimensional structure of the habitat, and the diversity of food sources. Higher habitat complexity tends to lead to higher abundance and species richness (Graham & Nash, 2013)
	Rugosity (score)	Is a measure of the complexity the three-dimensional structure of the habitat. Higher habitat complexity tends to lead to higher abundance and species richness (Graham & Nash, 2013)
	Slope (score)	Is a measure of the steepness of the reef slope, which can influence the species composition of reef fishes (Graham & Nash, 2013)
	Structural complexity index (index)	Is a measure of the complexity the three-dimensional structure of the habitat. Higher habitat complexity tends to lead to higher abundance and species richness (Graham & Nash, 2013)
Other	Prey density (individuals 1000 m^{-2})	Higher prey density means more food for carnivores and piscivores (Hixon, 1991)
	Prey biomass (kg 1000 m^{-2})	Higher prey biomass means more food for carnivores and piscivores (Hixon, 1991)
	Zoning (NTMR status: Fished, NTMR)	Fishery target species are usually larger and more abundant in NTMR zones (Emslie et al., 2015)

Note: Prey density and biomass were included in the models for carnivores and piscivores only.

(December–April inclusive). The primary water type represents high turbidity (Devlin et al., 2015), and high values of coloured dissolved organic matter (CDOM) and total suspended sediment (TSS) (Devlin et al., 2013). TSS and Secchi disc depth (SDD) in the primary water type are typically around 18.3 ± 45.7 mg L-1 and 1.8 ± 1.8 m (mean ± 1SD), respectively (Waterhouse et al., 2021). The primary water type is often associated with low salinity from flood plumes, but not always, as high turbidity can also reflect re-suspended sediment from wind and tides (Devlin et al., 2012). We created 22 weekly composites of daily images from 1 December to 30 April per wet season, to minimise the amount of area without data per image due to masking of clouds and sun glint (Alvarez-Romero et al., 2013). We assigned each weekly composite a presence/absence (0/1) value of primary water type in each pixel (500 × 500 m resolution; Table 1).

2.2.3 | Water quality

Two measures of water quality were used: remotely sensed Chlorophyll-a, which provides an estimate of phytoplankton biomass and can act as a proxy for seawater nutrient concentrations (Otero & Carbery, 2005), and Diffuse Kd490 (the Diffuse Attenuation Coefficient at 490 nm), which provides an estimate of turbidity (Lee et al., 2005). Chlorophyll-a (Hu et al., 2012) and Kd490 composite monthly 4 km data, collected using a

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MODIS satellite, from 2003 to 2017 were downloaded from the ERDDAP website. (Chlorophyll-a—https://coastwatch.pfeg.noaa.gov/erddap/griddap/erdMH1chlamday; Kd490—https://coastwatch.pfeg.noaa.gov/erddap/griddap/erdMH1kd490mday). In situ measurements of these variables are preferred as there is increased uncertainty in turbid waters, however in their absence, remotely sensed measurements can and have been used in a number of other studies (Moustaka et al., 2018; Olsen et al., 2018; Zinke et al., 2018) (Table 1). The Whitsunday Islands data for both Chlorophyll-a and Kd490 were anomalous, so they were excluded from the Whitsundays BRT analyses (see below).

2.2.4 | Degree heating weeks

Degree heating week (DHW) values represent the accumulated thermal stress over the previous 12 weeks at a given pixel. DHW is calculated as the number of degrees above the coral bleaching threshold multiplied by the number of weeks that the elevated temperature persists (Skirving et al., 2020). Coral bleaching is likely at 4 DHW, and this is routinely used to estimate thermal stress on coral reefs (Hajime, 2017). Daily 5 km data from 1998 to 2016 were provided by NOAA Coral Reef Watch (2018). The maximum DHW reported between sequential surveys was used for each year; however, if the period between surveys exceeded 1 year, the maximum DHW within the two previous years was used in the following year of the study (Table 1).

2.2.5 | Mean sea surface temperature and SST anomaly

Annual average SST and SST anomalies were calculated from multi-scale, ultra-high resolution (MUR), SST and sea surface temperature anomaly (SSTA) data (Table 1). Monthly 1 km data from 2002 to 2017 were downloaded from the NOAA ERDDAP website (https://coastwatch.pfeg.noaa.gov/erddap/griddap/jplMURSST41mday.html and https://coastwatch.pfeg.noaa.gov/erddap/griddap/jplMURSST41anommday.html).

2.3 | Habitat-based predictor variables

The 11 habitat-based predictor variables included per cent cover of live hard coral, soft coral, algal turf, macroalgae and unconsolidated substratum (generally sand or rubble), two measures of benthic diversity (benthic richness: the sum of all broad benthic categories, and hard coral morphological diversity: the sum of all hard coral morphologies), three measures of overall complexity of the habitat (slope, rugosity and a combined structural complexity index) and prey density (specifically to account for variability in carnivores and piscivores) (Table 1).

2.4 | Data analysis

The temporal dynamics of total fish density and species richness were tested for each island group using a generalised linear mixed model with the glmmTMB package in R (Brooks et al., 2017). Pairwise comparisons were made between years and between NTMR and fished zones within each year. The analysis was repeated on the total density and species richness of reef fish, excluding the numerically dominant and species-rich Pomacentridae (damselfishes). This family has the potential to dominate temporal changes of the fish assemblage and to mask estimates of NTMR effects on inshore reefs, since Pomacentridae are not fished (Williamson, Ceccarelli, Evans, Jones, & Russ, 2014). Consistent spatial differences in fish assemblage structure among island groups and among locations within island groups during the monitoring period were explored using non-metric multidimensional scaling (MDS), using fish densities averaged across all sites for each year-zone combination at each island group. The contributions of individual species to the dissimilarities between years and NTR groups were tested with ANOSIM and SIMPER. The analyses were based on the Bray–Curtis similarity of fourth-root transformed density data with Primer-e Version 7.

Temporal trends in total fish density and hard coral cover were also explored graphically, using *ggplot2*. Third-order polynomials were fitted to fish density and hard coral cover to emphasise trends over time at each island group and zone, in particular to highlight where major changes to hard coral cover were associated with major changes in fish density.

Drivers of fish density and species richness were explored using gradient BRT models (Elith et al., 2008; Hastie et al., 2011). A total of 10,000 trees were fit using a binomial distribution (modified from a Bernoulli) to an interaction depth of 5, with a bag fraction of 0.5 and a shrinkage rate of 0.001. All the trees apply out of bag and cross-validation to minimise overfitting. The optimum number of trees to retain was determined by cross-validation from a total of 10-fold. All continuous covariates were centred, and monotonic forms were imposed when simple scatterplots suggested monotonic forms were appropriate, to increase the stability of the outcomes. All BRTs were fitted using the gbm package (Ridgeway, 2017) within the R statistical and graphical environment (R Core Team, 2024). Variable importance was calculated as the frequency of tree splits involving each covariate weighted by the associated square improvement in the model-averaged over all trees and scaled out of 100 such that larger values signify stronger influence. Variable importance values that exceed 1/p (where p is the number of covariates included in the model), were considered substantial. Missing data (e.g. where the timescales differ between response and predictor variables) were handled with surrogate splits (Elith et al., 2008).

The partial effects of each substantially important covariate were estimated by back-fitting a vector of covariate levels (1000 evenly spaced values) against the BRT model. For tree splits that do not involve the focal covariate, both branches are traversed in

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their entirety and averaged together to form a partial prediction. For each covariate, the covariate value that corresponded to the maximum partial effect was used as an estimate of the value associated with optimum (maximum) cover. A *quasi-*R^2 for each covariate was calculated as the simple square of correlation between the observed and partial predicted response. The partial effects, optimum and *quasi-*R^2 values were aggregated over the 10 cross-validation folds so as to yield mean trends along with 95% confidence intervals.

The predictor variables were separated into 7 physical drivers, 11 habitat-based drivers, 2 measures of prey abundance and 1 management driver (NTMR status) that may affect fish density, species richness or species composition (Table 1). The predictor variables identified by the BRT models to be most influential for each fish metric were assigned to physical or habitat drivers and the proportion of each type of driver was calculated for fish density, species richness and the abundance of each fish trophic group. To test the effects of different drivers on reef fish species composition, the BRT models were run on the eigenvalues of PC1 of a principal components analysis for the individual island groups. When running the full analyses, the substantially influential predictors for any single analysis are identified. These predictors are then expressed as their temporal components by centring them against their respective temporal means for each location. The analyses are then repeated using just the important temporal versions of the influential predictors. This second analysis was used to identify which predictors should feature in temporally focussed analyses, as opposed to a spatial focus, and the analysis repeated with those predictors. As with the GLMM analysis, BRT analyses were repeated for total reef fish density, species richness and species composition (PC1) excluding the Pomacentridae (damselfishes), to explore the effects of drivers on the fish community, without the potentially overwhelming effects of this abundant and species-rich family. Furthermore, the fish assemblage was divided into trophic groups, and the BRT models repeated for each individual trophic group. Data and code are available through the Australian Institute of Marine Science Data Repository (AIMS, 2024).

3 | RESULTS

3.1 | Temporal dynamics in fish density, species richness and composition

Acute environmental disturbances led to several periods of decline and subsequent recovery in fish density and species richness that were unique to each island group, but recovery periods were insufficient to prevent an overall decline in both density and species richness over time in all regions (Figure 2, Table 2). Declines in density of between 39% and 72% were recorded on fished reefs, while declines of 33%–60% were recorded on NTMR reefs. Species richness also declined by up to 75% on fished reefs, and up to 63% on NTMR reefs. Despite similar temporal trajectories in total density and species richness without the Pomacentridae, the declines were not as pronounced (Figure S1, Table S3).

Each major decline followed an acute disturbance, especially cyclones and floods, and to a lesser extent, coral bleaching events. Major declines in fish density and species richness were recorded on reefs at the Palm Islands following Cyclone Yasi in 2011 (Figure 2a,b). There was some recovery in both fish density and species richness between 2012 and 2014 in the Palm Islands; however, there was a further decline in density between 2014 and 2018 following a flood plume in 2014 and coral bleaching in 2016 and 2017, while species richness declined between 2014 and 2016, and then recovered between 2016 and 2018 (Figure 2a,b). There were no significant differences in fish density between fished and NTMR reefs in the Palm Islands throughout the monitoring period, but species richness was significantly lower on NTMR reefs both before and after the disturbance events (Figure 2b). The analysis without the Pomacentridae resulted in lower density and species richness in the Palm Island NTMRs that were significant in several years (Figure S1a,b).

On Magnetic Island, there was no significant change in fish density and species richness between 2012 (after Cyclone Yasi, Figure S2.1) and 2019 in fished zones, but a significant increase in both occurred at NTMR reefs (Figure 2c,d). This pattern was not significant when the Pomacentridae were removed (Figure S1c,d). Overall, there were no differences in fish density and species richness detected between fished and NTMR reefs at Magnetic Island.

In the Whitsunday Islands, total fish density declined between 2009 and 2014, with a small recovery in 2016 (Figure S2.1), followed by a precipitous decline after Cyclone Debbie in 2017 (Figure 2e; Figure S2.1). Cyclone Ului did not appear to affect species richness, and Cyclone Debbie had a much smaller effect on fish species richness than on fish density (Figure 2f). There were no significant differences in fish density and species richness between fished and NTMR reefs (Figure 2e,f), with or without the Pomacentridae (Figure S1e,f).

Reefs in the Keppel Islands experienced a dramatic and significant loss of fish density and species richness following major flood plumes in 2011 and 2013 (Figures 2g, h, S2.2, S2.3). Fish density declined to almost an order of magnitude lower in 2013 compared with 2007–2009, and although it increased between 2013 and 2017, it did not reach the pre-flood levels of 2007–2009 (Figure 2g). Species richness in 2013 was half that in 2007–2009, remained low in 2015, increased between 2015 and 2017, and then declined in 2021 after successive bleaching events in 2017 and 2020 (Figure 2h; Figure S2.5–S2.7). Without the Pomacentridae, fish density and species richness recovered more rapidly in the later survey years (Figure S1g,h).

Species composition shifted over time at all four island groups and, in all cases, was different at the last survey period compared with the beginning of the monitoring programme (Figure 3). Species composition differed between fished and NTMR reefs at the Palm (Figure 3a), Keppel (Figure 3c) and Whitsunday Islands (Figure 3d), but the changes in composition over time occurred in parallel in the two zones. In the Palm and Whitsunday Islands, the

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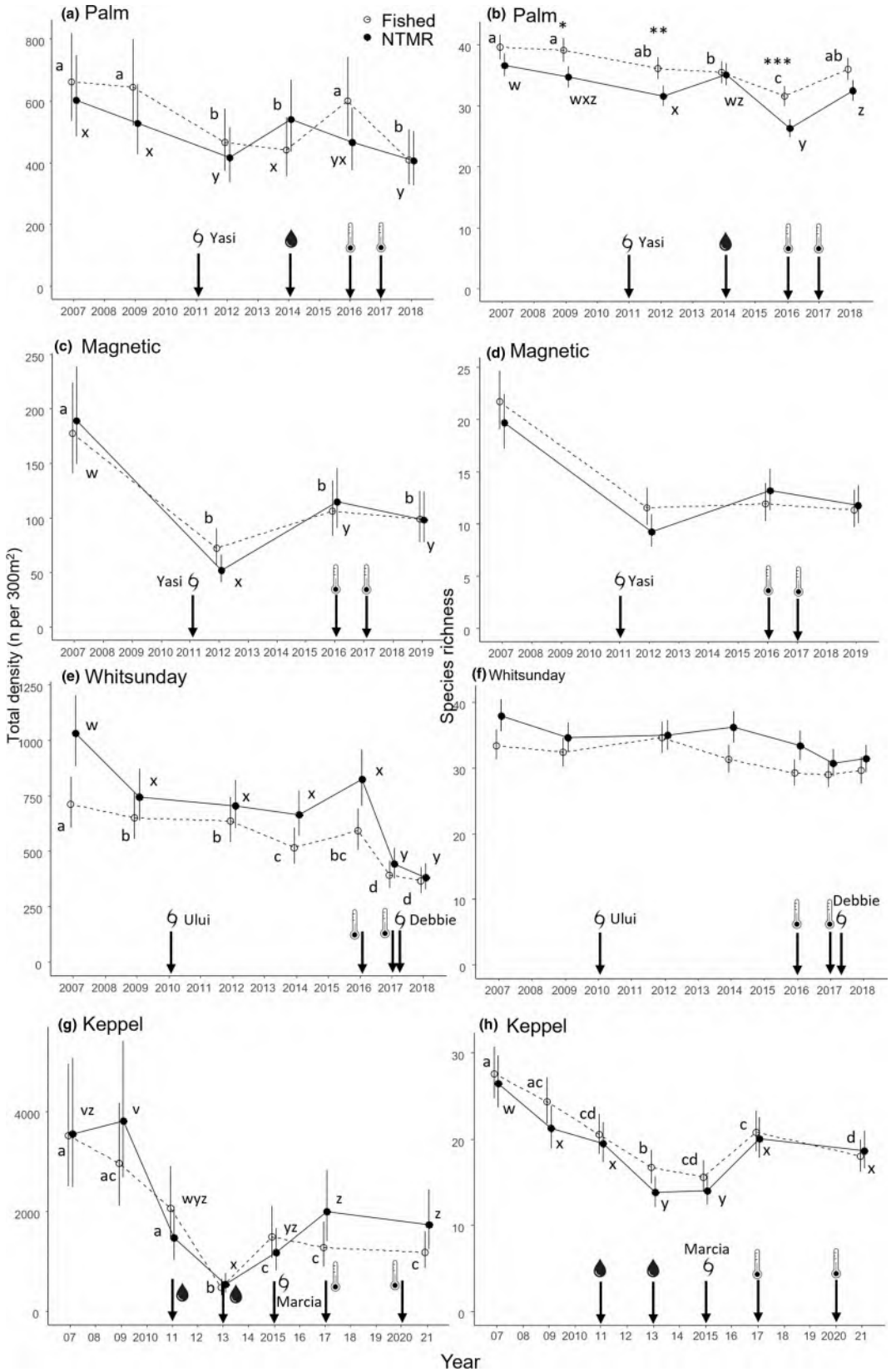

FIGURE 2 Temporal trends in the density (individuals 300 m^{-2}, a, c, e, g) and species richness (number of species per transect, b, d, f, h) of inshore reef fishes in the Palm (a, b), Magnetic (c, d), Whitsunday (e, f) and Keppel Islands (g, h). Arrows show the years of major disturbance events: spinning wheel: cyclones (named); thermometer: bleaching event; and water drop: flood. Open circles are fished zones and closed circles are no-take marine reserves (NTMRs). Letters mark significant differences among years (years that do not differ share the same letters) for each zone, and asterisks mark significant differences between fished and NTMR zones. $^{*}p < .05$, $^{**}p < .01$, $^{***}p < .001$. Error bars are standard errors; note the differences in scale among the *y*-axes in each panel.

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TABLE 2 Results of generalised linear mixed models comparing fish density and species richness across years and zones in each island group.

	Estimate	Std. Error	*z* Value	Pr (>|z|)	Estimate	Std. Error	*z* Value	Pr (>|z|)
	Palm Islands–density				Palm Islands–species richness			
(Intercept)	6.50	0.11	59.39	**<0.001**	3.72	0.03	145.20	**<0.001**
2009	−0.03	0.06	−0.41	0.681	−0.01	0.03	−0.31	0.760
2012	−0.35	0.06	−5.61	**<0.001**	−0.08	0.03	−3.03	**0.002**
2014	−0.40	0.06	−6.39	**<0.001**	−0.10	0.03	−3.90	**<0.001**
2016	−0.10	0.06	−1.55	0.121	−0.22	0.03	−7.99	**<0.001**
2018	−0.48	0.06	−7.65	**<0.001**	−0.08	0.03	−3.05	**0.002**
Zoning	−0.09	0.15	−0.60	0.547	−0.09	0.04	−2.40	**0.016**
2009 × Zoning	−0.11	0.09	−1.19	0.235	−0.04	0.04	−1.11	0.269
2012 × Zoning	−0.02	0.09	−0.18	0.861	−0.06	0.04	−1.60	0.109
2014 × Zoning	0.29	0.09	3.29	**0.001**	0.07	0.04	1.82	0.069
2016 × Zoning	−0.16	0.09	−1.79	0.073	−0.10	0.04	−2.50	**0.012**
2018 × Zoning	0.09	0.09	0.98	0.327	−0.02	0.04	−0.64	0.523
	Magnetic Island–density				Magnetic Island–species richness			
(Intercept)	5.18	0.12	43.67	**<0.001**	3.10	0.07	45.87	**<0.001**
2012	−0.90	0.15	−6.19	**<0.001**	−0.65	0.09	−6.95	**<0.001**
2016	−0.51	0.15	−3.55	**<0.001**	−0.61	0.09	−6.60	**<0.001**
2019	−0.59	0.15	−4.05	**<0.001**	−0.66	0.09	−7.07	**<0.001**
Zoning	0.06	0.17	0.36	0.717	−0.11	0.09	−1.15	0.252
2012 × Zoning	−0.38	0.21	−1.83	0.068	−0.09	0.14	−0.70	0.484
2016 × Zoning	0.02	0.21	0.08	0.933	0.21	0.13	1.61	0.107
2019 × Zoning	−0.06	0.21	−0.31	0.754	0.14	0.13	1.05	0.295
	Whitsunday Islands–density				Whitsunday Islands–species richness			
(Intercept)	6.57	0.08	81.18	**<0.001**	3.54	0.04	97.20	**<0.001**
2009	−0.09	0.06	−1.48	0.139	−0.02	0.03	−0.73	0.464
2012	−0.11	0.06	−1.89	0.058	0.06	0.03	2.37	**0.017**
2014	−0.32	0.06	−5.28	**<0.001**	−0.04	0.03	−1.42	0.157
2016	−0.19	0.06	−3.08	**<0.001**	−0.10	0.03	−3.84	**<0.001**
2017	−0.60	0.06	−9.90	**<0.001**	−0.13	0.03	−4.90	**<0.001**
2018	−0.67	0.06	−11.00	**<0.001**	−0.10	0.03	−3.74	**<0.001**
Zoning	0.37	0.11	3.26	**0.001**	0.15	0.05	2.94	**<0.001**
2009 × Zoning	−0.23	0.08	−2.76	**0.006**	−0.07	0.04	−2.03	**0.043**
2012 × Zoning	−0.27	0.08	−3.15	**0.002**	−0.13	0.04	−3.62	**<0.001**
2014 × Zoning	−0.12	0.08	−1.40	0.160	0.02	0.04	0.53	0.597
2016 × Zoning	−0.04	0.08	−0.45	0.651	−0.02	0.04	−0.53	0.598
2017 × Zoning	−0.24	0.08	−2.89	**0.004**	−0.09	0.04	−2.36	**0.018**
2018 × Zoning	−0.32	0.08	−3.80	**<0.001**	−0.09	0.04	−2.47	**0.013**
	Keppel Islands–density				Keppel Islands–species richness			
(Intercept)	8.17	0.17	46.99	**<0.001**	3.35	0.06	58.58	**<0.001**
2009	−0.17	0.17	−1.01	0.312	−0.14	0.05	−3.06	**0.002**
2011	−0.54	0.17	−3.12	**0.002**	−0.32	0.05	−6.78	**<0.001**
2013	−2.02	0.18	−11.5	**<0.001**	−0.51	0.05	−10.50	**<0.001**
2015	−0.86	0.17	−4.99	**<0.001**	−0.57	0.05	−11.46	**<0.001**
2017	−1.02	0.17	−5.96	**<0.001**	−0.27	0.05	−5.90	**<0.001**

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TABLE 2 (Continued)

	Estimate	Std. Error	z Value	Pr (>|z|)	Estimate	Std. Error	z Value	Pr (>|z|)
2021	−1.09	0.17	−6.61	**<0.001**	−0.45	0.05	−9.55	**<0.001**
Zoning	0.01	0.25	0.03	**<0.001**	−0.06	0.08	−0.69	0.488
2009 × Zoning	0.24	0.24	0.99	0.321	−0.09	0.07	−1.36	0.175
2011 × Zoning	−0.34	0.25	−1.40	0.163	0.01	0.07	0.22	0.829
2013 × Zoning	0.13	0.25	0.52	0.605	−0.12	0.07	−1.67	0.095
2015 × Zoning	−0.25	0.24	−1.04	0.230	−0.04	0.07	−0.61	0.544
2017 × Zoning	0.44	0.24	1.78	0.074	0.02	0.07	0.24	0.809
2021 × Zoning	0.38	0.24	1.59	0.111	0.11	0.07	1.59	0.112

Note: Significant differences are highlighted in bold. Site and Transect were included as random factors, and a negative binomial distribution was used.

separation between zones was clearly driven by a higher proportion of *Plectropomus maculatus* and *P. leopardus*, the primary fishery target species, in NTMRs (Figure 3a,c). In the Palm Islands, the greatest dissimilarity in species composition occurred between 2016 and all other years, but no one species contributed more than 2.3% to the overall change, suggesting subtle shifts in the abundances of numerous species. There was less separation between zones at Magnetic Island (Figure 3b) and the Keppel Islands (Figure 3d). The largest shift on Magnetic Island occurred in 2012 (after Cyclone Yasi), driven by a decline in the carnivore *Lutjanus fulviflamma*, coral-dependent *Pomacentrus moluccensis*, and small changes in the abundance of omnivorous and planktivorous damselfishes (Figure 3b). Similarly, changes between years in the Whitsunday and Keppel Islands were driven by highly abundant planktivorous damselfish species such as *Chromis nitida* (Figure 3c,d), but individual species contributions were never greater than 3.6% in the Whitsunday Islands and 9% in the Keppel Islands (Appendix S2).

3.2 | Regional differences in temporal drivers

3.2.1 | Potential drivers

Temporal changes in the drivers of fish assemblages were unique to each island group and sometimes varied among management zones (Figure S2.1–S2.19). Changes in cyclone exposure reflected the timing of major cyclones in each region. They reached higher index values in NTMRs in the Palm Islands (Cyclone Yasi, in 2011) and in fished zones in the Whitsunday Islands (Cyclone Ului, in 2010). Highly turbid water was measured in all island groups and zones at the beginning of the study, but kd490 and Chlorophyll-a values reflected this only in the Keppel and Palm Islands, and were higher in NTMRs (Figure S2.2,3,4). In contrast, the temperature-related variables (SST mean, SST anomaly, DHW) increased over the study period (Figures S2.5,6,7).

Over the 12–14 years of the study, the island groups experienced a loss and subsequent recovery of hard coral cover, coral morphological diversity and benthic richness (Ceccarelli et al., 2020). Turf, macroalgae and unconsolidated substratum followed the opposite trajectory to hard coral cover to some degree (Figure S2.8–14). Measures of structural complexity declined in the Keppel Islands, with the most recent estimate half of what it had been at the start of the study (Figure S2.5–7). In the Keppel Islands and on Magnetic Island, the cover of hard and soft corals, benthic diversity and structural complexity metrics were lower in NTMRs. The Whitsunday Islands experienced a relatively stable benthic community until Cyclone Debbie (2017) caused a dramatic loss of hard coral and benthic richness, with a concomitant increase in macroalgal cover (Figure S2.8–S2.19). Prey density and biomass followed the hard coral cover trajectory in the Keppel Islands, and declined at Magnetic Island, in the Palm Islands (with a recent recovery in biomass) and in the Whitsunday Islands (Figure S2.20–2.21).

3.2.2 | Trends in fish density and hard coral cover

Overlaying smoothed trends in live hard coral cover and total fish density shows that the responses to disturbance events occurred in parallel for most combinations of island group and zone (Figure 4). Despite disparate fluctuations in the Palm Islands, both fish and coral showed a downward trend; this decline was steeper in the Whitsunday Islands. On Magnetic Island and in the Keppel Islands, there were signs of recovery for both fish and corals towards the end of the study period (Figure 4).

3.2.3 | Regional drivers of fish assemblages

Across all island groups, the strongest relationships in the temporal dynamics of total fish density were with the cover of unconsolidated substrata, living hard corals, turf and macroalgae, and changes in temperature (mean SST, Figure 5a, Table S4). The strongest positive relationship was with the cover of living hard corals, with fish density rising rapidly to 2500 individuals per 1000 m^2 at 30% coral cover. Relationships with all other influential variables were negative

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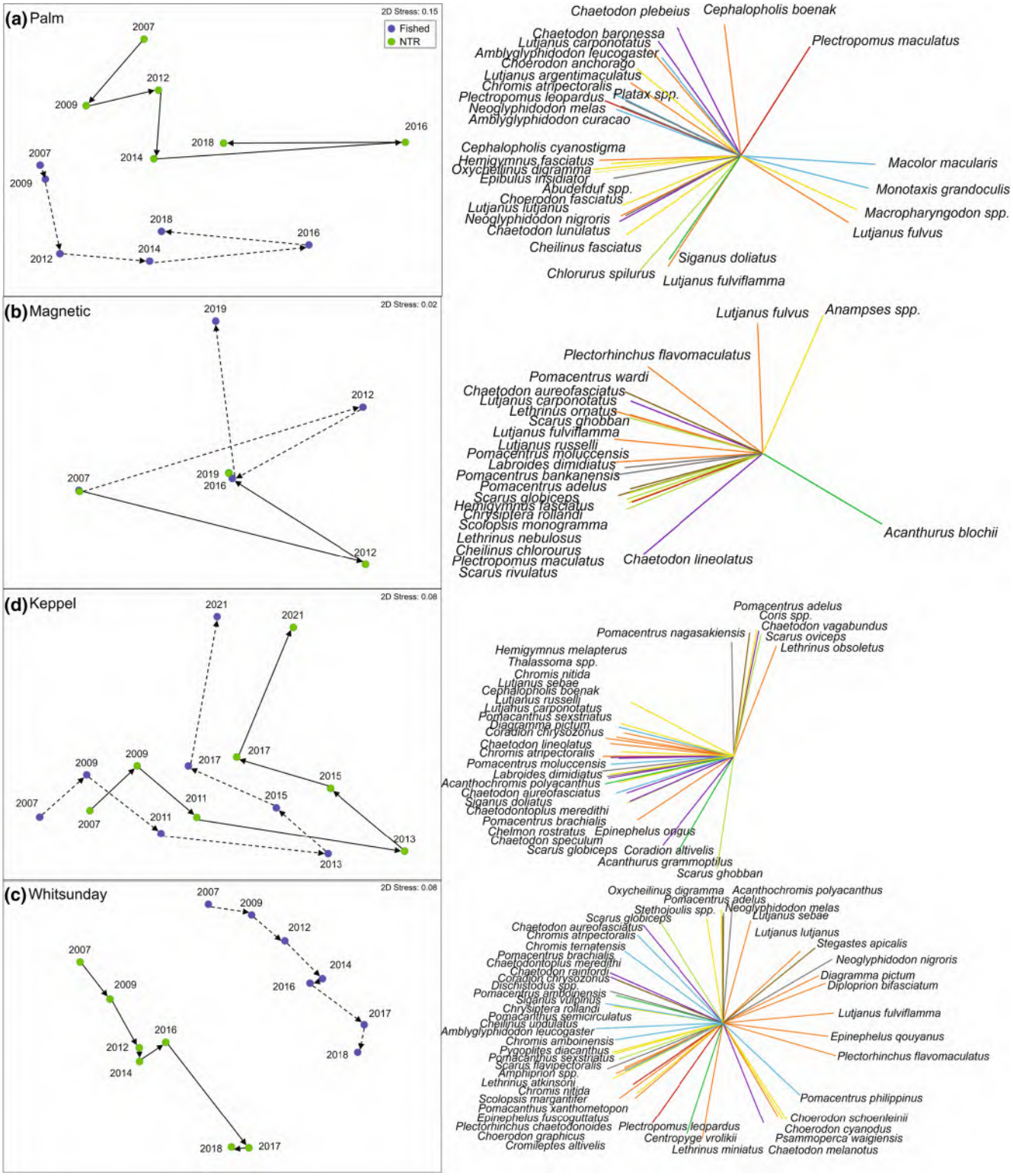

FIGURE 3 Non-metric multidimensional scaling plot (MDS) of temporal trends in fish species composition, performed on the Bray–Curtis dissimilarity matrix of zone-averaged, square-root transformed fish density data for each island group. Blue dots: fished zones and green dots: NTMRs. Vectors are coloured by trophic group: yellow: benthic invertivores; orange: carnivores; purple: corallivores; brown: farmers; dark green: grazers; grey: omnivores; light green: parrotfish; red: piscivores; and blue: planktivores.

(Figure 5a). Without the Pomacentridae, live coral cover was no longer among the most influential predictors (Figure S3a, Table S5). The total density of the remaining fish assemblage declined steeply with increasing mean SST, and had a positive relationship with the cover of turf and unconsolidated substrata (Figure S3a). Changes in fish species richness over time were positively correlated with

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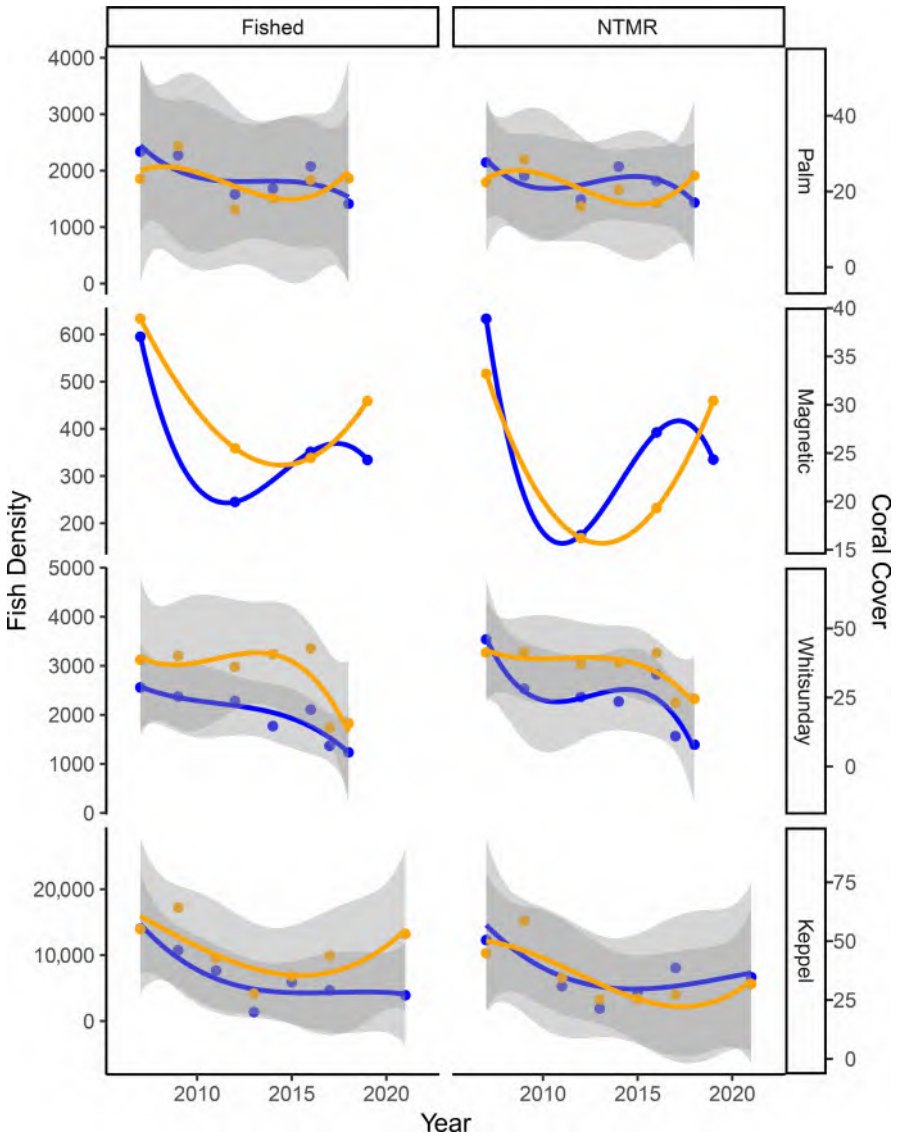

FIGURE 4 Summary trends (2007–2019) of total fish density (blue line) and live hard coral cover (orange line) for each island group and zone. Data points are year-level means across all sites at each island group, trend lines are third-order polynomials, and shading represents 95% confidence intervals. Magnetic Island's small number of sites did not allow the production of confidence intervals.

increases in benthic richness and negatively correlated with increases in mean SST and SST anomaly (Figure 5b). DHW had a weak positive relationship with overall species richness. Excluding the Pomacentridae revealed a positive effect of soft coral cover and mean SST on species richness, and a negative effect of SST anomaly (Figure S3b).

Across all island groups, temporal change in species composition was most strongly correlated with the cover of soft corals ($R^2 = 0.58$; Figure 5c). Soft coral cover above 5% was associated with a profound shift in species composition of reef fish; in the Palm and Whitsunday Islands, soft coral cover reached 30% at times. Mean SST was by far the most important driver of species composition once the Pomacentridae were removed; assemblage structure changed dramatically at approximately 25°C (Figure S3c). Overall, most trophic groups declined, except farmers, grazers, omnivores and parrotfish. However, the relationships between fish metrics and biophysical drivers varied between island groups.

3.3 | Local drivers of temporal dynamics

3.3.1 | Palm Islands

In the Palm Islands, the total density of reef fishes increased with increasing hard coral cover and had a negative relationship with the relative cover of unconsolidated substrata and changes in DHW (Figure 6a). Fish density decreased rapidly once unconsolidated substrata covered 10% or more of the benthos, but DHW was positively correlated at a value of 2.5, after which fish density plateaued (Figure S4.1, Table S4). Removing Pomacentridae from the model resulted in turf and unconsolidated substrata having a stronger, and positive, relationship with total fish density (Figure S5a, Table S5). DHW also had a positive relationship with species richness, together with the cover of soft corals and higher coral morphological diversity values (Figure 6a, Figure S4.2). Mean SST had a negative relationship with species richness, with richness declining rapidly even with small increases in mean SST

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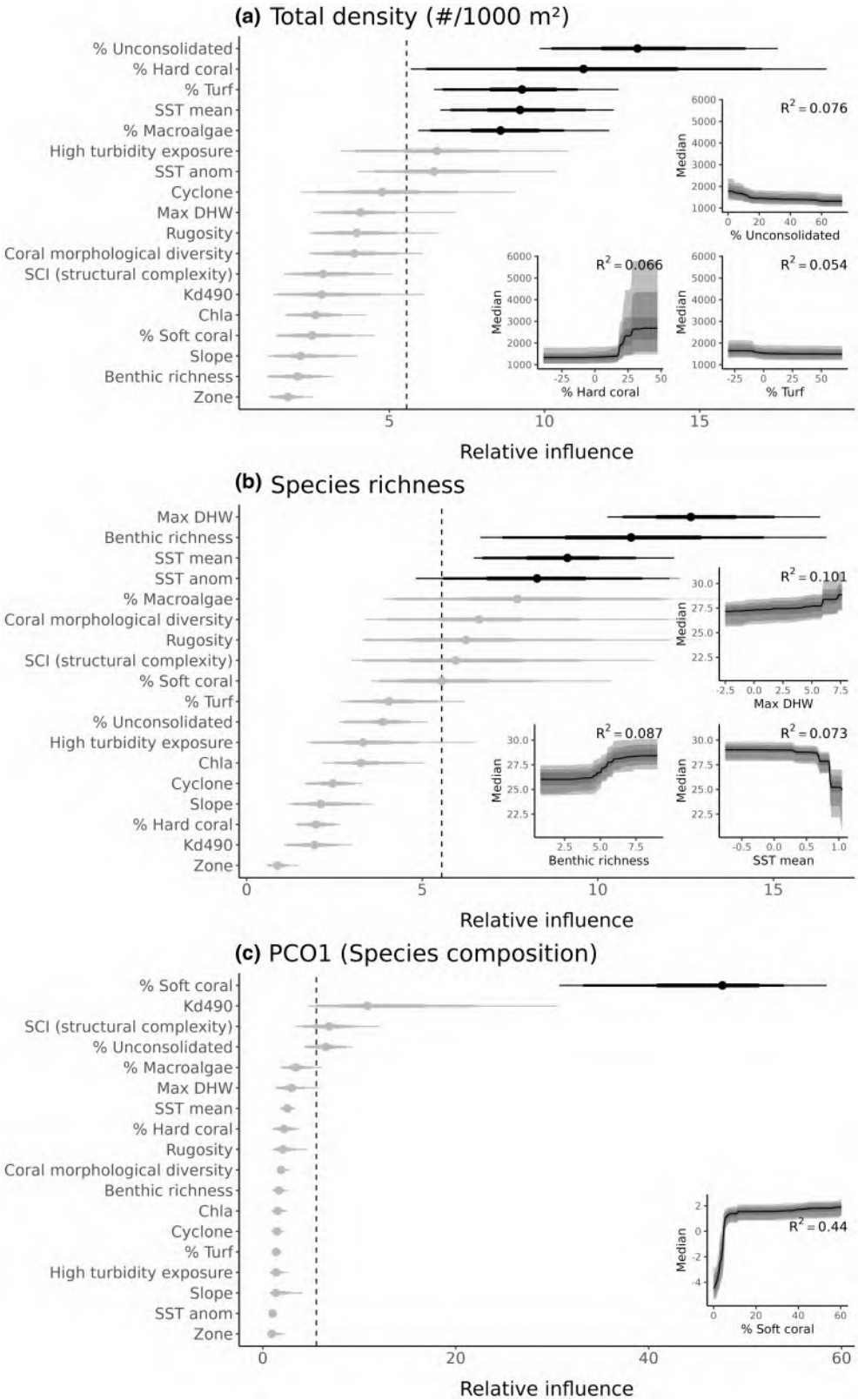

FIGURE 5 Relative importance plot for all predictors of (a) total fish density (individuals 1000 m^{-2}), (b) total fish species richness and (c) fish species composition as defined by the first axis of a principle coordinates analysis (PCO1), and partial plots of the most influential predictors across all island groups. Predictors that performed best (i.e. they were disproportionately represented in trees) are highlighted in bold. Confidence bands represent 95% quantiles on bootstrapped estimates; note the differences in the *y*-axes of the partial plots. The dashed vertical line represents a reference point of relative influence that would be expected if all predictors were equally influential. Values above (to the right of) this reference (black symbols) are therefore considered to exhibit a higher degree of influence than expected by chance.

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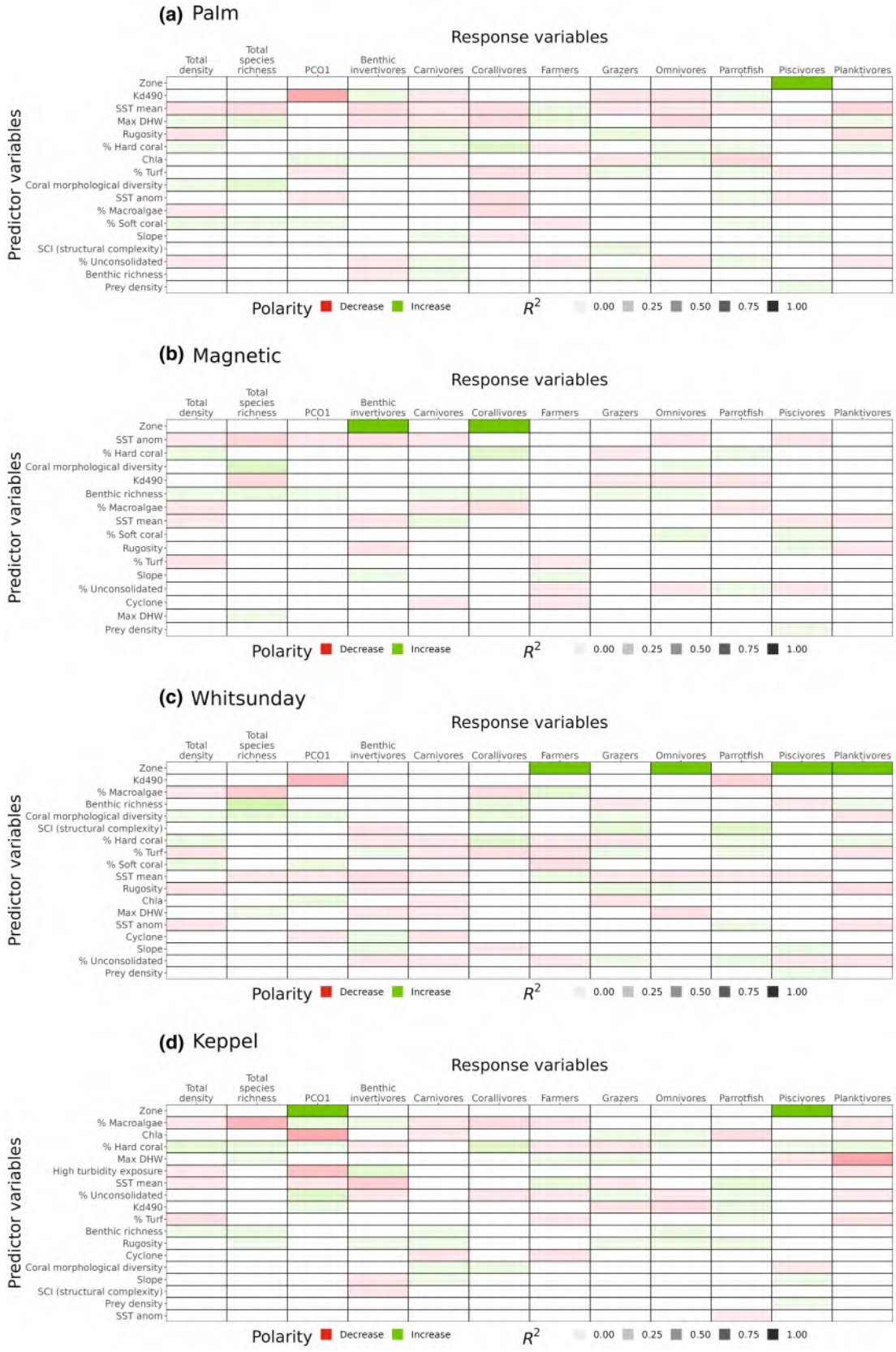

FIGURE 6 Heat map of the level of influence of each predictor variable with fish metrics (total fish density, fish species richness, species composition and density of each trophic group), as expressed by the R^2 value of the relationship, for (a) the Palm Islands, (b) Magnetic Island, (c) the Whitsunday Islands and (d) the Keppel Islands. The quasi-R^2 was calculated as the simple square of the correlation coefficient between the observed and partial predicted response. Warm colours are predictors that had a negative effect on fish metrics, green colours are predictors that had a positive effect on fish metrics. Only predictors that had an effect on at least one response variable are shown.

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(Figure S4.2). Removing the Pomacentridae revealed a stronger relationship between species richness and SST anomaly, where there was a stepwise decline in species richness with increasing SST anomaly (Figure S5b). Increased turbidity and SST anomaly were correlated with higher values of PCO1 (Figure 6a), which were associated with a relatively depauperate, post-disturbance composition of fish species in the Palm Islands (Figure 4a; Figure S4.3). This depauperate assemblage was also correlated with higher DHW once Pomacentridae were removed, while higher structural complexity was indicative of a species-rich assemblage (Figure S5c).

All trophic groups except farmers had a negative or no relationship with mean SST, and all groups except farmers had a positive or no relationship with live hard and soft coral cover (Figure 6a, Table S6). Benthic invertivores showed a negative correlation with benthic richness and DHW and a positive correlation with Chlorophyll-a and turbidity (kd490) (Figure S6.1). Carnivores were negatively influenced by DHW (Figure S6.2). Corallivore densities showed neutral or negative relationships with all predictors except hard coral cover, to which they were positively correlated (Figure S6.3). Contrary to expectations, farmers were negatively correlated with soft coral cover and turf cover, and positive associations were found between farmers and mean SST and DHW (Figure S6.4). Grazers responded negatively to increasing turbidity (kd490) and DHW, and positively to increasing turf cover and rugosity (Figure S6.5). Although omnivores increased over time, they responded negatively to turbidity (kd490) (Figure S6.6). Parrotfish densities decreased with increasing Chlorophyll-a and mean SST but had positive or no relationships with all other predictors, including kd490 and hard coral cover (Figure S6.7). Piscivores were the only group that had a strong positive relationship with zoning, and their densities increased with NTMR protection, prey density and slope steepness (Figure S6.8). Planktivores had a negative relationship with turf cover, the cover of unconsolidated substrata and mean SST (Figure S6.9). Planktivores, omnivores and farmers, dominated by small-bodied species of Pomacentridae, nevertheless had different patterns in their associations with biophysical variables. For example, farmers had a negative association with hard coral cover, while planktivores and omnivores had a positive relationship with hard coral cover (Figure 6a). All three groups, however, had a negative relationship with unconsolidated substrata (Figure 6a), but farmers and planktivores appeared to have a threshold at approximately 20% unconsolidated substrata, after which they declined, whereas the threshold for omnivores was between 40% and 60% (Figure S6.6).

3.3.2 | Magnetic Island

At Magnetic Island, temporal changes in total fish density were strongly and positively associated with the cover of live hard corals (Figure 6b). Even small increases in hard coral cover, from 0% to 10%, were associated with steep gains in fish density (Figure S3.4, Table S4). Species richness increased rapidly with increasing benthic richness, but declined dramatically with SST anomaly (Figure S3.5). Similarly, species composition was correlated with the same two drivers as density, but with weak relationships (R^2 of 0.004 and 0.007, respectively, Figure S3.6). Without Pomacentridae, benthic richness was a more important positive driver of total density (Figure S3d, Table S5), and SST anomaly was the most important driver of species composition (Figure 5f).

Among the trophic groups, management zoning on Magnetic Island had a strong positive relationship with the density of benthic invertivores and corallivores (Figure 6b, Figure S4.10–S4.18, Table S6). SST anomaly, turbidity (kd490) and the cover of macroalgae had a neutral or negative effect on all trophic groups, while benthic richness was a positive driver for many trophic groups (Figure 6b). Carnivores, which included several target species of the recreational fishery, responded positively to benthic richness and mean SST, but had a negative relationship with SST anomaly, cyclone exposure and macroalgal cover (Figure S4.11). Farmers also had negative relationships with cyclone exposure and also responded negatively to the cover of turf and unconsolidated substrata, but increased with increasing slope, albeit at very low slope index values (Figure S4.13). There was a positive correlation between corallivores and parrotfish and hard coral cover (Figure S4.12,16). Piscivores were positively correlated with increasing prey density, but not NTMR protection (Figure S4.17). Planktivores were present in low abundance, and negatively associated with mean SST and rugosity.

3.3.3 | Whitsunday Islands

In the Whitsunday Islands, fish density was strongly positively correlated with increasing per cent cover of hard coral, and negatively correlated with increasing turf and macroalgae (Figure 6c; Figure S3.7, Table S4). Species richness increased with coral morphological diversity and declined with mean SST (Figure S3.8). Years with higher SST, higher turbidity and lower Chlorophyll-a also had higher proportions of planktivores and corallivores, while carnivorous species predominated during times of lower temperatures and turbidity and higher Chlorophyll-a (Figures 4d, 6c; Figure S3.9). Removing the Pomacentridae changed these relationships, whereby total density was positively associated with the cover of turf, unconsolidated substrata and soft coral (Figure S5g, Table S5). The relationship between species richness and mean SST became positive, and there was a stronger positive relationship with the cover of unconsolidated substrata, but SST anomaly had a negative effect on Compared species richness (Figure S5h). Macroalgae had a much greater influence on species composition with Pomacentridae removed, as well as mean SST and SST anomaly (Figure S5i).

NTMR protection was positively correlated with piscivores, but also with the Pomacentridae-dominated farmers, omnivores and planktivores, affecting more trophic groups than in the other three regions (Figure 6c; Figure S4.19–S4.27, Table S6). Benthic invertivores showed a negative correlation with mean SST and a positive correlation with cyclone exposure (Figure S4.19). Carnivores were

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negatively correlated with hard coral cover, turf cover, cover of unconsolidated substrata and mean SST; there was no discernible effect of zoning on carnivores (Figure S4.20). Corallivores were positively correlated with live hard coral cover and benthic richness, and negatively correlated with slope steepness, macroalgal cover and turf cover (Figure S4.21). Farmers had a negative relationship with hard coral cover and turf cover, and positive associations were found between farmers and mean SST (Figure S4.22). Grazers responded negatively to increasing benthic richness and mean SST, and positively to increasing coral morphological diversity (Figure S4.23). Although omnivores increased over time, they responded negatively to SST anomaly and DHW (Figure S4.24). Parrotfish densities increased with increasing unconsolidated substrata, and declined with turbidity (kd490), mean SST and SST anomaly (Figure S4.25). However, turf cover had a positive relationship with parrotfish density (Figure S4.25). Piscivores declined with increasing benthic richness and were positively correlated with cyclone exposure (Figure S4.26). Planktivores responded positively to increases in hard coral cover and benthic richness, but had a negative association with coral morphological diversity, the cover of algal turf and unconsolidated substrata, rugosity and SST anomaly (Figure S4.27).

3.3.4 | Keppel Islands

Hard coral cover had a strong positive relationship with the temporal dynamics in fish density in the Keppel Islands, while turf cover and mean SST had a negative effect (Figure 6d; Figure S3.10, Table S4). Fish species richness had a positive association with DHW (Figure S3.11). Changes in species composition over time were governed by zoning, macroalgal cover, turbidity and mean SST, with periods in which the fish assemblage was relatively depauperate (higher values of PCO1) associated with periods of higher macroalgal cover and turbidity, and lower temperatures (Figure 4c, Figure 3.12). Without the Pomacentridae, the cover of unconsolidated substrata had a positive effect on total density (Figure S5, Table S5), species richness increased with rugosity and meant SST (Figure S5), and rugosity was the most influential driver of species composition (Figure S5).

The relationships between predictor variables and trophic groups were mixed, except for benthic richness and rugosity, which had only positive relationships with fish groups (Figure 5d, Figure S4.28–S4.36, Table S6). Benthic invertivores were associated with lower hard coral cover, but had (weak) positive relationships with cyclone exposure and slope (Figure 6a; Figure S4.28). Carnivores were most strongly correlated with rugosity, with which they had a positive relationship, and also showed a tendency to increase with increasing benthic richness, coral morphological diversity and slope, but to decline with increasing Chlorophyll-a, cover of macroalgae and cyclone exposure (Figure 6a; Figure S4.29). Coral morphological diversity had the strongest (positive) effect on corallivores, more so than hard coral cover, and even small increases in macroalgal cover had a negative effect on corallivore densities (Figure 6a; Figure S4.30). Cyclones and higher turf cover led to declines in farmers, but DHW had a positive relationship with farmer density (Figure S4.31). Grazers appeared to benefit from higher DHW and rugosity but declined with increasing hard coral cover and SST (Figure S4.32). Omnivores also preferred higher hard coral cover and rugosity but declined with increasing unconsolidated substratum (Figure S4.33). Parrotfish preferred higher turbidity (Figure S4.34), piscivores responded positively to NTMR protection, higher prey density and hard coral cover (Figure S4.35), and planktivores increased with increasing hard coral and declined with higher cover of turf and macroalgae (Figure S4.36). Similarly to the Palm Islands, hard coral cover affected farmers negatively, but omnivores and planktivores positively, while unconsolidated substrata were negatively correlated with all three Pomacentridae-dominated groups (Figure 6a).

4 | DISCUSSION

Coral reef fish assemblages on inshore GBR fringing reefs showed strong responses to regionally specific disturbance events, with periodic declines over 12–14 years. While increases were observed during disturbance-free years, an overall decline in density (by 33%–72%) and species richness (by 41%–75%) was seen over the study period, driven to a large extent by small-bodied fishes of the family Pomacentridae. Similar declines were observed on both NTMRs and fished reefs, suggesting that inshore NTMR networks provided only a marginal benefit against environmental disturbance events (but see Williamson, Ceccarelli, Evans, Jones, & Russ, 2014) beyond fishery target species. Key drivers of temporal change in fish assemblages most common across regions and trophic groups were living hard coral cover, temperature-related variables (mean SST, DHW), turbidity and the cover of algal turf. Therefore, while changes in fish assemblages over time were influenced by changes in their habitat, the BRT models indicate that they were also affected directly by physical variables such as temperature and water quality. Predicted increases in ocean temperatures (IPCC, 2021) and expected declines in water quality with increasing flooding caused by extreme weather events (Devlin et al., 2012) raise concerns for these inshore reefs and their fish assemblages. These assemblages typically consist of lower numbers of species at lower densities than those further offshore, making the inshore assemblages potentially more vulnerable to disturbances (McClure et al., 2019).

4.1 | Temporal dynamics and disturbance events

Environmental disturbance events over the last 12–14 years were usually followed by a decline in density and species richness of coral reef fish, as well as shifts in species composition. None of these metrics returned to their pre-disturbance state within the study period. Additionally, the phases of recovery were not long enough to

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prevent an overall decline in fish total density and species richness over the monitoring period. The smallest overall decline occurred at the Palm Islands, where total density and species richness reached similar levels to the early years by the end of the study. The largest periodic declines occurred in the aftermath of cyclones at the Palm and Whitsunday Islands, and Magnetic Island, and severe floods causing mass coral mortality at the southernmost island location, the Keppel Islands. While cyclones and floods produced the greatest response in fish abundance and richness, our analyses indicate that it was not the direct effect of these events that were the most important drivers of change in fish communities, but rather the indirect effects of habitat loss in the form of hard coral declines. This was further corroborated by the close relationship between the fluctuation in coral cover and total fish density, which was driven by the numerically dominant Pomacentridae and therefore the bulk of the planktivorous, omnivorous and farmer trophic groups.

Compared with storms and floods, fish assemblages responded less to bleaching events that reduced the cover of living corals, likely due to the remaining skeletons continuing to provide structure, at least in the short term (Gerlach et al., 2021; Pratchett et al., 2011). Generally, the physical destruction of the complex structure of reefs has greater consequences for fish than coral mortality events that leave the structure intact (Emslie et al., 2014; Gerlach et al., 2021); structural complexity decline can cause losses in abundance of up to 75% and make local extirpations likely (Emslie et al., 2014). In addition, although many species will have been adversely affected by coral mortality, for example corallivores and some of the planktivores that rely on live corals for shelter, other trophic groups such as grazers increased in abundance (Russ, Questel, et al., 2015), offsetting losses and thereby reducing the decline in total density. In this way, 'winners and losers' alternate in cycles. Fish density and species richness recovered during concurrent periods of coral recovery (usually lasting at least 5 years) documented in Ceccarelli et al. (2020), indicating a period that was conducive to general reef recovery, and that both coral and fish assemblages on the GBR retain the capacity to recover during disturbance-free periods (Emslie et al., 2024; Plass-Johnson et al., 2018).

The species composition of fish assemblages shifted over the duration of the study at all four island groups, with the largest changes occurring after disturbance events. Importantly, species composition at all four island groups did not 'bounce back' to pre-disturbance configurations, remaining different from the 2007 assemblage at the end of the monitoring period. The Palm Islands demonstrated the greatest propensity to return towards the composition of the early years, possibly due to its wide range of different habitat types, exposure levels and high connectivity between them. Magnetic Island and the Keppel Islands had phases where the post-disturbance assemblage was generally depauperate, with losses across the entire fish assemblage, as is common when hard coral loss exceeds 50% (Pratchett et al., 2011). Magnetic Island is unique among the locations in this study in that it is a solitary island, rather than an interconnected group of islands, with a smaller area of available coral reef habitat than the other island groups. Turbidity is typically higher (Fabricius et al., 2005), and anthropogenic pressure through visitation and recreational fishing is high due to the close proximity of Magnetic Island to the mainland (Ceccarelli et al., 2023). Much of the shallow coral reef habitat around Magnetic Island is seasonally overgrown with brown macroalgae (e.g. *Sargassum* spp.), and habitat complexity of the benthos is lower than at other island groups (Ceccarelli et al., 2020). The trajectory of change in the Whitsunday Island group followed a near-linear pathway. Generally, assemblages shifted towards omnivorous, carnivorous and grazing species, while coral-dependent species declined. Such mixed responses, both taxonomically and geographically, appear typical in studies of disturbance impacts to reef fish assemblages (Fukunaga et al., 2022; Wilson et al., 2006). The changes to fish assemblages due to disturbance measured here are likely to differ from the changes in fish assemblages on reefs further offshore. McClure et al. (2019) suggested that inshore reefs are the most vulnerable to loss of species, traits and functional roles after disturbance events, because of their lower species richness and exposure to chronic environmental stresses near the coast.

Other studies also documented 'winners and losers' after cumulative disturbances, and in many cases, summary metrics such as total density and species richness masked changes in the proportional abundance of different species (Cheal et al., 2008, Wilson et al. 2009, Lamy et al., 2015, Ceccarelli et al., 2016, Triki & Bshary, 2019). As reefs degrade under chronic anthropogenic pressures, there is concern that the highly diverse coral reef fish assemblages of the past will become dominated by generalists, reflecting a decline in the diversity of benthic communities and habitats (Stuart-Smith, 2021). In other studies, species reshuffling occurred, but trophic characteristics and traits, and therefore functional redundancy, were retained despite repeated and chronic stress, maintaining the processes, if not the exact species composition, of coastal reefs (Cook et al., 2022). It is therefore concerning that the reefs in our study did display such significant declines in coarse summary metrics such as total density and species richness.

4.2 | Drivers

Disturbance-induced coral loss, regime shifts to macroalgal dominance and the decline in overall structural complexity are repeatedly correlated with declines in fish density, biomass and diversity (Graham & Nash, 2013; Pratchett et al., 2008; Wilson et al., 2006). In contrast, certain groups of fishes have been shown to increase after coral mortality, such as parrotfish that can benefit from the sudden increase in carbonate substratum covered in turf and blue-green algae (Clements et al., 2017, Nicholson & Clements, 2023, Russ et al. 2021). Here, we show that benthic habitat was certainly a driver for temporal changes in coral reef fish assemblages on inshore reefs of the GBR, but that physical forces also acted directly upon reef fish assemblages. Where the relationships we explored were weak (in the form of low R^2 values), we acknowledge that forces other than those we tested are also important drivers of change in reef fish assemblages, such as recruitment patterns (Sale, 2004),

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connectivity (Gerlach et al., 2021), historical biogeographical and geomorphological factors (Bennett et al., 2018; Samoilys et al., 2019) or reef size (Dames et al., 2020). Furthermore, we offer any generalisations with caution, given that the temporal dynamics and drivers that affect inshore reefs are likely to be different from those that influence mid-shelf or outer shelf reefs, both on the GBR and elsewhere (Dubuc et al., 2023; Emslie et al., 2017; Emslie et al., 2019; Malcolm et al., 2010). However, GBR inshore reefs do serve as useful representatives for a large proportion of coastal reefs worldwide. Over 75% of the world's coral reefs occur within 20 km of the coast (UNEP-WCMC et al., 2021) and are therefore similarly vulnerable to overexploitation, land-based run-off and the impacts of environmental disturbance events exacerbated by climate change.

4.2.1 | Physical variables

Temperature variables were the most consistently influential physical drivers of temporal change in fish assemblages. Of these, mean SST and DHW were most frequently among the key drivers of change, with mostly negative effects, indicating thermal stress in coral reef fishes. These results therefore show that predicted climate change-driven increases in global ocean temperatures will not only have devastating effects on reef-building corals (Frieler et al., 2013), but will directly affect reef fish assemblages. However, in the Palm, Keppel and Whitsunday Islands, increasing SST had positive effects on farming damselfish. This trophic group also responded positively to DHW in the Palm Islands, while in the Keppel Islands, DHW was positively correlated with species richness and the density of farming damselfish and grazing fishes.

Water temperature can be positively correlated with fish species richness due to increased metabolic potential of many species (Allen et al., 2002; Parravicini et al., 2013). In our study, small-bodied fishes of the family Pomacentridae tended to respond positively to increasing mean temperature, but were negatively affected by SST anomalies. Fishes also have an upper-temperature threshold above which they experience sublethal and perhaps even lethal stress (Shultz et al. 2016). SST increases and changes in the upper limits of temperature anomalies with climate change have already altered the distribution and community interactions of marine species (Poloczanska et al., 2013).

Temperature tolerance can be species- or even size-dependent, potentially resulting in the re-assembly of fish communities over time (Clark et al., 2017). However, declines in density or biomass following heat stress can simply be due to vertical movements to deeper waters, rather than mortality; in such cases, repeated monitoring usually finds a rapid return to previous population abundance (Magel et al., 2020). Mellin et al. (2016) found a strong decline in the density of large-bodied species and those with small geographic ranges when certain temperature thresholds were exceeded. On the inshore GBR, where the maximum depth is 12 m and fish have no escape from shallow warming, this study suggests that with increasing water temperatures and recurrent bouts of heat stress, we may lose density of all fish groups except grazing and farming species. In some parts of the world, an increase, or a dominance, in farming damselfish is viewed as a sign of reef degradation (Han et al., 2016).

After temperature, fish assemblages were influenced most by water quality variables and the exposure to cyclones. Turbidity, as measured by kd490, was a key driver of species composition in all island groups except Magnetic Island, which was the most uniformly turbid region throughout the study period. Generally, highly turbid reefs are thought to be associated with lower habitat quality and lower richness and abundance of reef fishes (Bejarano & Appeldoorn, 2013). On the inshore GBR, periods of greater turbidity can be associated with the aftermath of disturbance events (Luter et al., 2021), which, in the Keppel Islands, led to a low-diversity fish assemblage and an increase in parrotfish numbers taking advantage of the additional bare substratum. However, the more equivocal results (e.g. higher diversity in the Whitsunday Islands) may be due to the nature of these inshore reefs, where even periods of high wind speeds can resuspend the terrigenous sediment from the shallow seafloor (Ceccarelli et al., 2020). Similar cautions can be made for the interpretation of the effects of primary water, which is highly turbid and usually associated with freshwater flood plumes, but can also be the result of periods of high wind. Physical impacts on fish from being thrown around by cyclone waves are the most likely direct effect from cyclones, the other possibility (which is beyond this paper's scope) is fish response to cyclone cooling. Changes in abundance could occur due to emigration to calmer areas (Bacheler et al., 2019), or mortality (Gavriel et al., 2023). Further research is needed to disentangle the relative importance of cyclonic waves and cooling from the effects of habitat loss.

While turbid water may help hide prey from predators (Hess et al., 2019) and lead to more detritus for detritivores and omnivores (Brown et al., 2017), it also blocks visual cues (Newport et al., 2021), reduces the feeding efficiency and productivity (Tebbett et al., 2023) of some species directly or through sediment deposition (Goatley et al., 2016) and smothers the benthic habitats of some species (Cook et al., 2022). Furthermore, when turbidity is increased in the wake of disturbance events, it may be the effects of these same disturbances, rather than the turbidity itself, that elicits a response. High nutrients and turbidity have been a feature of these inshore reefs for decades or perhaps centuries, and most coral reef fish are likely to have acclimated to the conditions before our study began. Furthermore, short-term turbidity changes may not be captured in our data because fish surveys were not conducted in visibility below ~5 m, and surveys were conducted over annual or multi-year scales.

Productivity gradients as measured by Chlorophyll-*a* can also explain variability in fish assemblages (Samoilys et al., 2019). Across the Pacific, productivity was associated with higher biomass not only of predators but also of planktivores (Williams et al., 2015). Here, Chlorophyll-*a* was not a universally positive driver of fish density, with negative (albeit weak) relationships with carnivores and parrotfish in the Keppel and Palm Islands, and grazers in the Whitsunday and Palm Islands.

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4.2.2 | Habitat-based variables

The most important habitat-based drivers of change in coral reef fish assemblages were the cover of live hard coral, macroalgae, turf and unconsolidated substratum. Additionally, some fish groups responded to changes in habitat complexity. Overall, the total density of coral reef fish, and that of coral-dependent species, increased with increasing hard coral cover; this was highlighted by the almost ubiquitously parallel trajectories of hard coral cover and fish density, and confirmed by the results of the BRT models. Periods of higher hard coral cover in these regions occurred in the absence of disturbance events (Ceccarelli et al., 2020), and these were the periods in which fish density also recovered. Additional analyses to partition out the influence of small-bodied Pomacentridae revealed that these small-bodied planktivorous and omnivorous species are especially vulnerable to reductions in live coral cover. However, groups such as grazers and farmers, as well as carnivores and benthic invertivores, were negatively affected by higher hard coral cover in some instances. When hard coral cover is very high, the habitat can be relatively uniform, such as when reef slopes are dominated by monotypic stands of branching *Acropora* spp. (Diaz-Pulido et al., 2009). Previous studies have shown negative relationships between parrotfish and live hard corals (Russ, Questel, et al., 2015) and highlighted that certain families, such as goatfishes, wrasses and detritivorous surgeonfishes respond to different elements of the benthos, such as rubble and sand patches, soft corals or carbonate pavement covered in turf (Lowe et al., 2019; Russ et al., 2017; Russ et al., 2018; Russ, Bergseth, et al., 2015).

Reef fish recovery to pre-disturbance assemblage structure can be closely linked to coral recovery (Williamson, Ceccarelli, Evans, Jones, & Russ, 2014), or a new suite of macroalgal associated fish species may replace them if coral recovery fails (Evans et al., 2014; Robinson et al., 2019). Macroalgal dominance benefits certain species, such as some wrasse species (Fulton et al., 2019; Lowe et al., 2019), and macroalgal beds are known to play a positive role in the recruitment of lethrinids, siganids and *Choerodon* spp. (Evans et al., 2014; Wilson et al., 2008). Therefore, although a shift to macroalgal dominance can reduce overall fish diversity, it can bring some benefits to important fisheries species. However, our study showed that an increase in macroalgae caused declines in almost all trophic groups of fishes, whether this effect was among the most influential or not.

We found a negative association between the cover of unconsolidated substratum (sand, rubble) and fish density, which was often reversed towards a positive association in the absence of small-bodied Pomacentridae, likely due to the shift in dominance to Labridae and their subfamily Scarinae (parrotfish). This is also consistent with the observed declines in fish abundance after disturbance events that cause coral mortality and produce rubble. A spatial analysis of the same sites found some positive effects of increasing unconsolidated substratum, whereby a disturbance-mediated benthic shift towards patches of coral, macroalgae and rubble at small scales could increase the overall patchiness of the habitat, providing opportunities for species other than those that prefer live corals, and therefore increasing species richness overall (Ceccarelli et al., 2023). This pattern was corroborated by removing small-bodied fishes from the analysis. However, this temporal analysis suggests that over time, more rubble leads to an eventual erosion of the positive effect on species richness as overall fish density declines (Wilson et al., 2006), and it would appear that this is driven by the response of small-bodied species. Habitat degradation in the form of coral loss and a flattening of habitat complexity has been shown to benefit only few trophic groups, such as farmers, some benthic invertivores and parrotfish (Graham, 2014).

Living hard coral is most important for species that directly rely on it for food and shelter. At a whole-assemblage level, live coral is rarely found to be among the most important drivers; a global meta-analysis found that associations between fish and corals are generally positive but weak (Muruga et al., 2024). However, every time a major disturbance impacted the inshore GBR, coral reef fish density (and to a lesser extent, species richness) declined, due to either mortality or, most likely, temporary movement. The link between live coral and the species that depend on it can also break down when those species are capable of broadening their habitat and dietary choices following coral loss (Semmler et al., 2022). Furthermore, the relationship between fish species richness and coral cover varies with increasing or declining coral cover, with a suggested threshold at around 10% coral cover, below which the relationship is strongly positive and above which it asymptotes (see also Beldade et al., 2015). At global scales, it has been projected that a hypothetical loss of all coral would result in a halving of fish diversity (Strona et al., 2021).

Structural complexity was generally not one of the most important drivers in this study, although it is known to be a strong driver of reef fish assemblage structure and abundance (Bell & Galzin, 1984; Chabanet et al., 1997; Emslie et al., 2014; Graham & Nash, 2013; Messmer et al., 2011; Sabater & Tofaeono, 2007; Samoilys et al., 2019). This is true not just for overall three-dimensional habitat structure but also for the variety of growth forms of corals and other benthos (Gratwicke & Speight, 2005), as we found in this study. In their review, Graham and Nash (2013) found overwhelmingly positive associations between reef fishes and structural complexity, but, once broken down into family groups, the associations were not universally significant. Higher structural complexity can provide more niche space to mediate density-dependent competition, refuge for prey and therefore more predators, hiding places for ambush predators and shelter from high water flow rates (Gratwicke & Speight, 2005). Different trophic groups of coral reef fishes tend to respond differently to changes in their structural environment, based on their resource and habitat requirements and interactions with other organisms (Graham et al., 2017; Jennings & Polunin, 1996; Ruppert et al., 2017; Russ & Alcala, 1989).

4.3 | No-take marine reserves

Temporal changes in total density and species richness in NTMR and fished zones were generally similar. The Whitsunday Islands was

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the only region where density and species richness were generally higher in NTMRs; in the Palm Islands, species richness was higher in fished zones. This is not necessarily surprising in an ecosystem where fisheries only target a small number of largely piscivorous species, and it is highly likely that the differences in fish metrics are due to other attributes of those particular sites, and not due to management zoning (but see below). For example, a spatial analysis of the fish assemblages at these sites found that routine wave exposure was one of the key structuring forces of species composition, along with benthic habitat variables such as coral, macroalgae and rubble (Ceccarelli et al., 2023). NTMRs did have different species composition from fished zones in the Palm, Keppel and Whitsunday Island groups, but the changes in composition over time largely occurred in parallel in the two zones. In the Palm and Whitsunday Islands, the separation between zones was clearly driven by a higher proportion of *Plectropomus maculatus* and *P. leopardus*, the primary fishery target species, in NTMRs. Here, the density of target species remained higher in NTMRs than in fished zones throughout the study period.

Management zoning was an important driver of density only for piscivores, which was expected for a system in which the main commercial and recreational fishery targets a small number of predatory species such as *Plectropomus* spp. and large snappers and emperors (Emslie et al., 2015; Williamson et al., 2004). In fact, the NTMR effect in the BRT models was somewhat diluted by the fact that *Plectropomus* spp. were combined with some snappers, emperors and other groupers, some of which are not as strongly targeted by fisheries as *Plectropomus* spp. alone. Studies of NTMR effects on *Plectropomus* spp. alone on inshore GBR coral reefs often show strong, positive NTMR effects on density, biomass and reproductive output, sometimes despite evidence of poaching (Emslie et al., 2015, Evans et al., 2008, Harrison et al., 2012, Williamson et al., 2004, Williamson, Ceccarelli, Evans, Hill, & Russ, 2014, Williamson, Ceccarelli, Evans, Jones, & Russ, 2014). In other systems, fishing, or the absence of successful management, can be an important driver of overall coral reef fish density and biomass (McClanahan & Arthur, 2001; Russ & Alcala, 1989; Sandin et al., 2008).

There are a number of necessary design principles that facilitate the achievement of common NTMR goals (Edgar et al., 2014), such as the recovery of exploited populations (Graham et al., 2011), biodiversity conservation and improving ecosystem resilience. It is widely agreed that NTMRS are most effective when they are no-take, effectively enforced and managed, old (>10 years), large (>100 km^2) and isolated from other areas by sand or deep water. The NTMR networks in the inshore island groups were up to 14 years old at the time of writing (Fernandes et al., 2005), but most of them are small, shallow and there is evidence that compliance is poor (Bergseth et al., 2015). For example, of the total reef slope area around Magnetic Island only 17% of this is protected within a series of six NTMRS that measure between 0.002 and 24 hectares (Williamson et al., unpubl. data). The Whitsunday Islands, where a larger effect of NTMRs was measured, has 24 NTMRs ranging up to over 200 hectares, protecting 20% of the reef slope habitats (Williamson et al., unpubl. data). While the NTMRS studied here are enough to protect target species (Williamson et al., 2004), their small effect of the fish assemblages as a whole may be due to their small size, imperfect compliance and largely shallow habitats. More research could explore the influence of regional NTRM network design within the GBR on their abilities to buffer fish assemblages from disturbance.

5 | CONCLUSIONS

Anthropogenically driven climate change is already causing changes in ocean temperatures, acidity and environmental disturbance regimes worldwide (Henley et al., 2024; Hughes et al., 2017). Increasing temperatures are leading to range shifts of species and communities from tropical to subtropical and temperate marine habitats (Horta e Costa et al., 2014), and repeated heatwaves have caused global coral bleaching events of increasing spatial extent, frequency and intensity (Hoegh-Guldberg et al., 2023). Acidification is reducing growth rates and stability in organisms that rely on, or produce, calcium carbonate structures (Wei et al., 2009). On the GBR, the past decade has seen an unprecedented frequency and intensity of disturbance events, and coral populations—the primary ecosystem engineers—have become increasingly erratic and unstable (Emslie et al., 2024). It is against this backdrop that we present the concerning decline of a reef fish assemblage that is, in addition, subject to the chronic anthropogenic pressures typical of the coastal setting of 75% of the world's coral reefs.

This study revealed long-term declines in total reef fish density (up to 72%) and species richness (up to 75%), as frequent acute disturbances subjected coral habitats to multiple successive shocks that eroded abundance and biodiversity, and limited recovery. Our findings are concerning and at odds with previous GBR studies that have generally shown stability in these metrics in the face of environmental disturbances, albeit on reefs further from the coast (Cheal et al., 2008, Ceccarelli et al., 2016, Wilson et al. 2009). It is possible that we are witnessing a step change in benthic and reef fish community dynamics in the face of increasingly frequent disturbances. Additionally, our removal of the Pomacentridae from the Whole assemblage points to a risk of losing the numerically dominant and species-rich, small-bodied fish planktivores and omnivores. Such fish make up a large part of the food of piscivores and omnivores, and their small body size makes them highly productive, and they are thus an important part of the food web. Small-bodied prey fish species can affect the abundances of carnivorous species, and their decline may lead to losses of commercially and recreationally important predatory species (Carbone et al., 2011; Graham et al., 2003; Williamson, Ceccarelli, Evans, Jones, & Russ, 2014).

Environmental disturbances can reduce fish density and richness quickly, but recovery is typically slower in coral reef systems. We show that long-term decline in the quality of benthic habitat and physical environmental conditions led to demonstrable shifts in reef fish assemblage structure. NTMRs had little effect on total fish density, and in fact, species richness was higher on fished reefs than on NTMR reefs at three of four island groups. This result is

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not surprising, considering the fishery predominantly targets larger piscivorous species and top-down predation pressure can drive prey fish species abundance and assemblage structure (Graham et al., 2003). In fact, our results do show NTMR benefits to target species (piscivores), but on reefs that experience high levels of acute and chronic pressure, small NTMRs in shallow habitats may not be as effective as they could be, given that their primary purpose on the GBR is the conservation of biodiversity (Fernandes et al., 2005). Studies that specifically quantify NTMR effects on fishery target species, on the GBR and elsewhere, confirm their efficacy in boosting populations of these species (Rodríguez-Rodríguez & Martínez-Vega, 2022; Russ et al., 2008; Williamson, Ceccarelli, Evans, Jones, & Russ, 2014). There is also evidence of indirect effects of NTMRs on assemblage structure, trophic dynamics, ecosystem recovery potential and pest outbreaks (Allard et al., 2022; Kroon et al., 2021; Topor et al., 2019). NTMRs remain one of the only large-scale tools for protecting marine environments, but there is increasing evidence that without global action on climate change, spatial protection and management alone are not sufficient for safeguarding coral reefs in the Anthropocene.

AUTHOR CONTRIBUTIONS

Daniela M. Ceccarelli: Conceptualization; data curation; formal analysis; methodology; visualization; writing – original draft; writing – review and editing. **Murray Logan:** Data curation; formal analysis. **Richard D. Evans:** Conceptualization; data curation; formal analysis; investigation; methodology; project administration; writing – review and editing. **Geoffrey P. Jones:** Conceptualization; funding acquisition; investigation; methodology; project administration; resources; supervision; writing – review and editing. **Marji Puotinen:** Resources; writing – review and editing. **Caroline Petus:** Methodology; resources. **Garry R. Russ:** Conceptualization; funding acquisition; investigation; methodology; project administration; supervision; writing – review and editing. **Tane Sinclair-Taylor:** Visualization. **Maya Srinivasan:** Investigation; writing – review and editing. **David H. Williamson:** Conceptualization; data curation; formal analysis; funding acquisition; investigation; methodology; project administration; writing – review and editing.

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CONFLICT OF INTEREST STATEMENT

The authors state that there is no conflict of interest.

DATA AVAILABILITY STATEMENT

The data that support the findings of this study are openly available in Dryad at https://doi.org/10.5061/dryad.jsxksn0k6The code that supports the findings of this study are openly available in Zenodo at https://doi.org/10.5281/zenodo.3441725.

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SUPPORTING INFORMATION

Additional supporting information can be found online in the Supporting Information section at the end of this article.

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ARTICLE

ECOLOGICAL APPLICATIONS
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Ecological success of no-take marine protected areas: Using population dynamics theory to inform a global meta-analysis

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Abstract

Adaptively managing marine protected areas (MPAs) requires accurately assessing whether established MPAs are achieving their goals of protecting and conserving biomass, especially for harvested populations. Ecological MPA assessments commonly compare inside of the MPA to a reference point outside of and/or before implementation (i.e., calculating "response ratios"). Yet, MPAs are not simple ecological experiments; by design, protected populations interact with those outside, and population dynamic responses can be nonlinear. This complicates assessment interpretations. Here, we used a two-patch population model to explore how MPA response ratios (outside–inside, before–after, and before–after-control-impact [BACI]) for fished populations behave under different conditions, like whether the population is receiving a sustainable larval supply or if it is declining despite protection from harvest. We then conducted a Bayesian evaluation of MPA effects on fish and invertebrate populations based on data collected from 82 published studies on 264 no-take MPAs worldwide, using the results of an earlier global meta-analysis as priors. We considered the effects of calculating different summary metrics on these results, drawing on the theoretical insights from our population model as a comparative framework. We demonstrate that not all response ratio comparison types provide the same information: For example, outside–inside and BACI comparisons can fail to detect population decline within MPAs, whereas before–after comparisons likely detect that pattern. Considering these

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limitations, we nonetheless found that MPAs globally are producing positive outcomes, with on average greater biomass, density, and organism size within their boundaries than reference sites. However, only a small portion of studies (18 of 82) provided the temporal data necessary to determine that protection, on average, has led to increased abundance of populations within MPAs over time. These findings demonstrate the importance of considering the underlying system dynamics when assessing MPA effects. Assuming that large outside–inside or BACI response ratios always reflect large and net positive conservation effects may lead to misleading conclusions, we recommend that: (1) when assessing specific MPA effects, empirical findings be considered alongside theoretical knowledge relevant to that MPA system, and (2) management should respond to the local conditions and outcomes, rather than a blanket expectation for positive MPA effects.

KEYWORDS
adaptive management, before–after-impact-control, marine protected area, marine reserves, meta-analysis, modeling, population dynamics

INTRODUCTION

Marine protected areas (MPAs) are important tools for managing and conserving marine ecosystems globally. In particular, no-take MPAs in which all extractive and destructive activities are banned are typically established to conserve biomass and protect species from direct human activities (Grorud-Colvert et al., 2021; Horta e Costa et al., 2016). The global coverage of MPAs is rapidly increasing (UNEP-WCMC, IUCN, and NGS, 2018), and likely to continue in the future due to recent international commitments to protect biodiversity (IPBES, 2019). The last two decades have consequently seen a rise in the number of studies evaluating the effects of MPAs on marine ecosystems, as well as meta-analyses synthesizing these studies (Appendix S1: Table S1; Woodcock et al., 2017). Long term, large-scale monitoring and assessments are also underway for multiple MPA networks globally (e.g., CDFW, 2022; Emslie et al., 2020). As these studies and monitoring programs inform the adaptive management of current MPAs, and decision making about future MPAs, accurate assessments of the ecological effects of MPAs relative to their stated goals and objectives are critical.

Through spatial closure, MPAs are expected to protect and conserve species within their boundaries that have been impacted directly by human activity (IUCN WCPA, 2018). Indeed, numerous studies have demonstrated that MPAs increase local densities and biomass, average individual size, species richness, and benthic cover of habitat-forming species, and that these effects are especially strong for harvested species (Appendix S1: Table S1 summarizes a non-exhaustive list of such prior work). In some cases, these species-level recoveries may also lead to local ecosystem recovery and larger-scale population effects through spillover and larval export (Di Lorenzo et al., 2020; Kerwath et al., 2013). There is also a rich empirical and theoretical literature documenting how ecological responses inside of MPAs are affected by features of the system, such as MPA characteristics, species and ecosystem traits, and local fisheries management (e.g., White et al., 2011, 2024). However, there has been little consideration of how the estimated magnitude and direction of those ecological responses may be impacted by the *assessment approach* used.

Practical assessments of the formal goals of MPAs—to protect and conserve species and ecosystems—require evaluation metrics that reflect achieving those goals. Two such metrics of MPA success are (1) that increases in ecological variables (e.g., local population density or biomass) are observed within the MPA relative to a reference point and (2) that ecological measures, at a minimum, do not decline within the MPA following implementation. The first metric indicates that protection is occurring, relative to any larger-scale factors affecting both the MPA and the reference point, and the second metric indicates that there is successful long-term conservation of the local population. While more complex approaches can be used (e.g., Osenberg et al., 2011; Ovando et al., 2021), the effects of MPAs are often distilled into a *response ratio* value, typically calculated as the logarithm of the ratio of the response variable (e.g., population density) inside of the MPA to a reference site outside, to data collected before MPA implementation, or both. Positive log

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response ratios are typically taken to indicate success in achieving an MPA's conservation goals. The use of response ratios is particularly common in meta-analyses, which require comparisons across studies with different sampling approaches and techniques (Hedges et al., 1999). Previous meta-analyses demonstrate that empirical studies overwhelmingly use spatial comparisons between the MPA and a relevant reference site (outside–inside), compared with comparisons across time (before–after) or both (before–after-control-impact, aka "BACI") (Halpern, 2003; Lester et al., 2009). Reflecting this, meta-analyses tend to focus on calculating outside–inside comparisons, sometimes intentionally excluding temporal data (Appendix S1: Table S1). While this outside–inside focus is often unavoidable (e.g., funding or logistics dictate that sampling begins after MPA implementation), it may create biases in MPA assessments (Claudet, 2018; Osenberg et al., 2011). Furthermore, as a summary metric, response ratios can provide little, and sometimes erroneous, insight into the underlying system dynamics and whether the MPA is achieving longer-term conservation goals (Moffitt et al., 2013).

The comparison approach used by MPA studies is based on the concept of detecting ecological impacts, such as the effects of a localized habitat disturbance (Schmitt & Osenberg, 1996). However, MPAs are not simple ecological experiments; by design, they have effects outside of their boundaries (Di Lorenzo et al., 2020; Grorud-Colvert et al., 2014; Ovando et al., 2021), are impacted by external factors (e.g., increased fishing pressure outside; Hopf et al., 2016b), and the dynamic responses can be nonlinear (Hopf et al., 2016a; White et al., 2013). For example, non-protected (reference) areas may be better off than expected due to larval export or adult spill-over from MPAs (e.g., Le Port et al., 2017), worse due to displaced fishing effort (e.g., Suuronen et al., 2010), or one may also off-set the other (Halpern et al., 2004). This confounds the use of these areas as independent controls. Indeed, ecological theory demonstrates that outside–inside and before–after response ratios are smaller for species with longer larval dispersal distances or larger adult home ranges, all else being equal (Moffitt et al., 2013).

The dynamics of a system also affect comparison metrics differently: Outside–inside MPA comparisons are more robust to high larval recruitment variability and acute disturbance events (Hopf et al., 2022; Hopf & White, 2023), but are unlikely to detect that a local population is declining despite protection (Hopf et al., 2022; Moffitt et al., 2013). Conversely, comparisons calculated over time can detect a population trajectory, but are more influenced by population fluctuations unrelated to protection. BACI-style designs are considered more robust to system heterogeneity (Halpern et al., 2004; Schmitt & Osenberg, 1996; Stewart-Oaten et al., 1986), yet they can be sensitive to periodic variations in the system (Hopf et al., 2022), reflecting a tendency to have higher false-positive detections with population dynamics that are autocorrelated (Rassweiler et al., 2021). As different comparison types are likely to reflect different characteristics of a system, it is therefore important to understand the theoretical benefits and limitations of each type.

To help inform the synthesis of observed ecological MPA effects, we used a two-patch population model of a harvested species to demonstrate how the magnitude and build-up of MPA effects—measured as log-response ratios (logRR; Hedges et al., 1999)—can vary when calculated using different comparison types (outside–inside, before–after, and BACI) and biological response variables (biomass density, abundance density, and mean individual size). Importantly, we also show how logRR values can vary under different scenarios, such as whether the population is demographically open or closed, if fishing is reallocated at the time of implementation, or if the population is declining despite no-take protection (indicating that conservation goals may not be fully met). We focus on MPA effects on single species (as opposed to community-scale or indirect effects), as there is the clearest mechanistic link between the cessation of fishing and the increase in abundance and size at the level of individual populations. Using these model insights as a comparative framework, we then evaluate MPA effects for single species based on a meta-analysis of data collected from published studies on no-take MPAs from around the world. Overall, we propose that assessing MPA effects requires considering the interplay between context dynamics (MPA, environmental, and population traits), sampling approach (comparison and variable types), and the criterion being used to assess effectiveness. By considering the strengths and challenges of different comparison types and measurement variables, we make a more conservative and informed estimate of the effectiveness of no-take MPAs to protect and conserve populations within their boundaries.

METHODS

Population model

To demonstrate how logRR can vary by comparison types, measurement variables, and under different environmental or management scenarios, we used an age-structured, density-dependent, two-patch (one fished local population and one protected) model of Blue Rockfish (*Sebastes mystinus*; Sebastidae), a common, harvested, nearshore rocky reef and kelp forest fish on the US west

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coast. Throughout this paper, we refer to the groups of individuals within an MPA patch as the "local population," "MPA population," or "protected population," as distinct from a population that spans across MPAs and fished areas. We assume the spatial scale of the patches is large enough that adult fish do not move between them. The overall structure of the baseline model follows recent work examining the effect of environmental variability on MPA monitoring (Hopf et al., 2022; Kaplan et al., 2019; Nickols et al., 2019). Parameter descriptions and values can also be found in Appendix S1: Table S2.

Population dynamics over time tracked the state variables abundance ($N_{a,i,t}$) and biomass ($B_{a,i,t}$), of fish age a, in patch i, in year t. Recruitment to patch i at time t ($N_{1,i,t}$), is a product of larvae arriving ($L_{i,t}$), and recruit survival ($s_{1,i,t}$):

$$N_{1,i,t} = s_{1,i,t} L_{i,t}.$$

Our baseline scenario considered the case where patches have stable abundances prior to MPA establishment. Then, following implementation, fishing pressure is removed from the protected patch, allowing biomass to increase within MPA boundaries. This reflects the case where protection is successful and long-term conservation of harvested species is occurring within the MPA.

As the broader population consequences of increasing biomass within MPAs depend on scale, we consider both open and closed population scenarios. In the demographically open population, patches received an equal, constant, sustainable supply of arriving larvae ($L_{i,t}$). The parameter value for $L_{i,t}$ is arbitrary as our model is dimensionless with outcomes measured relative to $t = 0$ (initial conditions). This open scenario reflects a case where an MPA and a reference site are embedded within a larger metapopulation, with most larval production occurring outside of the two study sites (e.g., some portions of the California Channel Islands; Watson et al., 2010). Here, MPA effects are expected to be seen within the MPA, but not outside. At the other extreme, the closed population scenario, where larval production is a function of total adult biomass across both sites, reflects the case where an MPA contributes substantially to broader metapopulation dynamics through larval export (e.g., Harrison et al., 2012). In the closed population scenario, larval arrival ($L_{i,t}$) from a well-mixed larval pool was the summed product of fecundity of all fish age a (f_a) that was distributed proportional to the area in patch i (A_i):

$$L_{i,t} = A_i \sum_{i=1}^{2} \sum_{a=a_{\text{mat}}}^{a_{\max}} f_a N_{a,i,t-1},$$

where a_{mat} and $a_{\max}$ are the age of maturity and maximum age, respectively.

In all scenarios, post-settlement density-dependent survival ($s_{1,i,t}$) followed the Beverton–Holt functional form:

$$s_{1,i,t} = \frac{\alpha}{1 + \frac{\alpha L_{i,t}}{\beta}}.$$

We (1) set the slope at origin (α) so that the population collapses if fishing decreases the average lifetime egg production to below 25% of the unfished maximum (Botsford et al., 2019) and (2) set the theoretical maximum density of recruits (β) set to a constant value (1000). As with $L_{i,t}$ from the open scenario, the parameter value for β is arbitrary.

Once recruited, we assumed that fish remained within their local patch. Post-recruitment yearly survival depended on natural mortality rate M and, in non-MPA patches, fishing mortality rate F for fish over the minimum capture age (a_c), with units of years^{-1} for both mortality rates:

$$s_{a,i,t} = \begin{cases} e^{-M}, & a \in [2, a_c) \\ e^{-(M+F)}, & a \geq a_c \end{cases}.$$

Prior to MPA implementation F was identical in both patches. We used a medium fishing pressure estimated for Blue Rockfish in the Channel Islands, California, USA (Nickols et al., 2019). Following MPA implementation, F was set to zero in the MPA patch and left unchanged in the fished patch (but see the alternative scenarios below).

We included process error as "pink," or $1/f$, noise, common in many natural systems (Denny et al., 2004; Vasseur & Yodzis, 2004). Noise from randomly generated pink noise time-series, $\epsilon(t)$, were applied independently to each patch in each time step, reflecting spatial–temporal variability between patches (but see the alternative scenarios below).

Total patch abundance density (accounting for area) at time t was, therefore,

$$N_{T,i,t} = \frac{1}{A_i} \epsilon_{i,t} \sum_{1}^{a_{\max}} s_{a,i,t} N_{a-1,i,t-1},$$

and biomass density was

$$B_{T,i,t} = \frac{1}{A_i} \epsilon_{i,t} \sum_{1}^{a_{\max}} w_a s_{a,i,t} N_{a-1,i,t-1},$$

where w_a is fish biomass at age a, as a function of length at age $a(L_a)$. L_a was used to calculate average individual size for local populations in each patch.

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Because field sampling rarely captures the true population density, we also included measurement error in our model, where the sampled population abundances were drawn from a negative binomial distribution with a mean equal to the modeled density; this distribution was used because the variance in blue rockfish densities is greater than the mean (Hopf & White, 2023). We estimated the negative binomial distribution shape parameter (aggregation parameter: k) using publicly available blue rockfish data (Hopf & White, 2023).

In addition to the baseline, we also considered three alternative scenarios that are representative of some of the conditions that could confound the detection of increases in biological variables during ecological monitoring:

1. A *fishery squeeze scenario* in which fishing pressure (F) following MPA establishment was increased proportional to the area that remains open to fishing.
2. A *declining population scenario* where the density of incoming recruits linearly declines 50% over 50 years, reflecting a moderate decline in the population due to extrinsic factors (e.g., environmental degradation). The declining scenario represents a scenario where protection is occurring, but the MPA is not achieving the goal of conserving the local population long term.
3. A *correlated noise scenario* where the same pink noise time-series was applied to both patches, which assumes all patches experience similar environmental fluctuations (results presented in Appendix S1).

We simulated 2000 replicates of each scenario, and all scenarios had a 200-year burn-in period prior to MPA implementation, long enough to reach a stable distribution of abundance.

We calculated modeled response ratios over time for abundance density, biomass density, and mean fish size ("biological variables") for all scenarios by comparing inside of the MPA to outside at the same point in time ($t \geq 0$; "*outside–inside*"), inside of the MPA before implementation ($t = 0$) to after ($t > 0$; "*before–after*"), and the ratio after-inside/before-inside to after-outside/before-outside (BACI). Simulated response ratios were then natural log transformed to calculate logRR values.

All population model simulations were implemented in MATLAB 2022b (The MathWorks Inc., 2022).

Literature meta-analysis

We undertook a comprehensive meta-analysis of the peer-reviewed scientific literature documenting ecological effects of designated no-take MPAs published between 2006 and June 2020 (i.e., the literature spanning the period after the Lester et al. (2009) meta-analysis, up to the time we began our analysis). We were unable to include the data from the Lester et al. (2009) meta-analysis as those data were aggregated across taxa rather than analyzed at the species level. As such, we took a Bayesian approach, using the Lester et al. (2009) results as priors and updating the posterior estimates of MPA effects using data collected since then (see details below).

In December 2020, we searched the Web-of-Science database for articles that included "marine protected area" and associated search terms (see Appendix S1 for further details). Our initial search resulted in 7213 studies, of which 490 were manually selected based on title and abstract context. These studies were then read in detail to assess if they matched our selection criteria. Our filtering approach largely followed Lester et al. (2009): We only included studies that measured variables before–after, outside–inside, or both, for fully protected, individual no-take MPAs with suitable paired-reference sites. "Before" data was classified as before the MPA was enforced or during the first year of enforcement. "After" data was the most recent data available in the study, representing the longest duration of protection. Whether the study included time-series data was also noted. Studies must have measured at least one of three biological variables: abundance density, biomass density, and average organism size. While studies may have collected data at higher taxonomic levels, for the final analysis we only included species-level data. As population dynamics depend on species-specific demographic time lags, there is no simple way to scale model results to higher taxonomic levels. Studies that selectively presented only positive MPA effects, as declared in the studies' methods or elsewhere, were not included.

The resulting database used in our analysis consisted of 708 "entries" (data points at the level of unique combinations of location—species—state variable—comparison type) from 82 studies, for which we extracted the relevant data. Where data were only available in plots, we extracted values using an online plot digitizer (WebPlotDigitizer v4.6; https://automeris.io/WebPlotDigitizer.html). We then calculated the logRR value (Hedges et al., 1999) as per the comparison used in the study (i.e., outside–inside, before–after, or BACI). Since zero-valued data points result in undefined or infinite logRR values, entries containing zeros were not included (this was 121 of the 728 entries). For each species we assigned harvest status (harvested or not), based on the status provided in the study. If no status was provided, we assigned status based on expert opinion and primary literature searches. Further details of the meta-analysis criteria and data collected are in Appendix S1, and datasets are available in JKHopf (2024) at https://doi.org/10.5281/zenodo.12697206.

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To provide updated estimates of literature-based MPA effects, we took a Bayesian approach using effect estimates (measured as percentage change) from Appendix S1: Table S1 in Lester et al., 2009 as priors to estimate mean logRR values for the three biological variables. As Lester et al. (2009) pooled data by biological variable, we used these data as priors for estimates of the mean (μ) in all models, with weakly informative priors for interaction terms ($\beta_0, \beta_1, \beta_2, \beta_3$) and SD (σ) (Table 1). For each of the biological variables, we estimated (1) overall logRR, (2) logRR as predicted by the categorical predictors Harvest Status (harvested or not) and Comparison Type (outside–inside, before–after, or BACI), and (3) logRR as predicted by Harvest Status and MPA age (Table 1). To avoid bias toward more frequently studied MPAs, we averaged logRR values across individual MPAs at the relevant level of analysis. Sample sizes were low for entries that had only collected before–after data, especially those measuring biomass density and size (Appendix S1: Figure S34). Therefore, we supplemented the before–after dataset with before–after data extracted from BACI entries when testing for the effects of Harvest Status × Comparison Type. There were too few data to test for the effects of MPA age at the level of comparison type (Appendix S1: Figure S35).

For each model, we estimated posterior distributions using Markov chain Monte Carlo (No-U-Turn sampler variant) with four chains of 5000 iterations each and a burn-in of 5000 iterations. We confirmed model convergence using visual inspections of chain convergence (trace, density, and autocorrelation plots; Appendix S1: Figures S1–S27), following best practices (Johnson et al., 2022). All Bayesian analyses were done in R (R Core Team, 2022) using the "rstan" (Stan Development Team, 2022) and "rstanarm" (Goodrich et al., 2023) packages.

All code is publicly available in JKHopf (2024) at https://doi.org/10.5281/zenodo.12697206.

RESULTS

Modeled response ratios

Our open-population, baseline model scenario for a harvested species—where patches received a sustainable larval supply, fishing pressure was not reallocated, and patches were stable prior to MPA establishment—represented a case in which the predicted logRR was not affected by the comparison type used (Figure 1). In this scenario, all three biological metrics (abundance, age structure, size) used in calculating logRR captured patch dynamics well: Local population density remained constant outside of the MPA while increasing steadily inside of the MPA (Figure 1). Consequently, logRR increased asymptotically over time. Response ratio magnitudes, however, depended on the biological variable measured: logRR of biomass density was largest, followed by abundance density, and then average individual size (Figure 1). Note that the magnitude of the response ratio for individual size was limited in our model by the asymptotic maximum size fish can reach, which reflects the decelerating growth in size with age that most fishes exhibit.

TABLE 1 Model and prior distributions (by biological variable) used in Bayesian estimation of log-response ratios (logRR) for marine protected area (MPA) effects.

Model name	Model	Prior distributions
Basic	$\text{LogRR}_i \mid \mu, \sigma \sim N(\mu, \sigma^2)$	Biomass density: $\mu \sim N(0.567, 0.371)$[a] Abundance density: $\mu \sim N(0.282, 0.324)$[a] Size: $\mu \sim N(0.096, 0.097)$[a] All: $\sigma \sim \text{Exp}(1)$[b]
Harvested × Comparison type	$\text{LogRR}_i \mid \mu, \sigma \sim N(\mu_i, \sigma^2)$ with $\mu_i = \beta_0 + \beta_1 \text{HarvestStatus}_i + \beta_2 \text{ComparisonType}_i$	Biomass density: $\beta_0 \sim N(0.567, 0.371)$[a] Abundance density: $\beta_0 \sim N(0.282, 0.324)$[a] Size: $\beta_0 \sim N(0.096, 0.097)$[a] All: $\beta_1, \beta_2, \beta_3 \sim N(0, 2.5)$[b] $\sigma \sim \text{Exp}(1)$[b]
MPA age × Harvested	$\text{LogRR}_i \mid \mu, \sigma \sim N(\mu_i, \sigma^2)$ with $\mu_i = \beta_0 + \beta_1 \text{MPAage}_i + \beta_2 \text{HarvestStatus}_i + \beta_3 \text{MPAage}_i \text{HarvestStatus}_i$	Biomass density: $\beta_0 \sim N(0.567, 0.371)$[a] Abundance density: $\beta_0 \sim N(0.282, 0.324)$[a] Size: $\beta_0 \sim N(0.096, 0.097)$[a] All: $\beta_1, \beta_2, \beta_3 \sim N(0, 2.5)$[b] $\sigma \sim \text{Exp}(1)$[b]

[a]Calculated from mean and SD of data in Appendix S1: Table S1 in Lester et al. (2009).
[b]Weakly informative prior.

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When patch dynamics differed from those in our baseline scenario, the response ratios were affected. Importantly, logRR values sometimes described different temporal trends depending on how they were calculated, and the different comparisons did not always capture both of the metrics of MPA conservation success we described in the introduction: higher values inside of the MPA relative to outside, and non-decreasing values inside of the MPA (Figure 2). We demonstrated this with our example alternative scenarios, focusing on

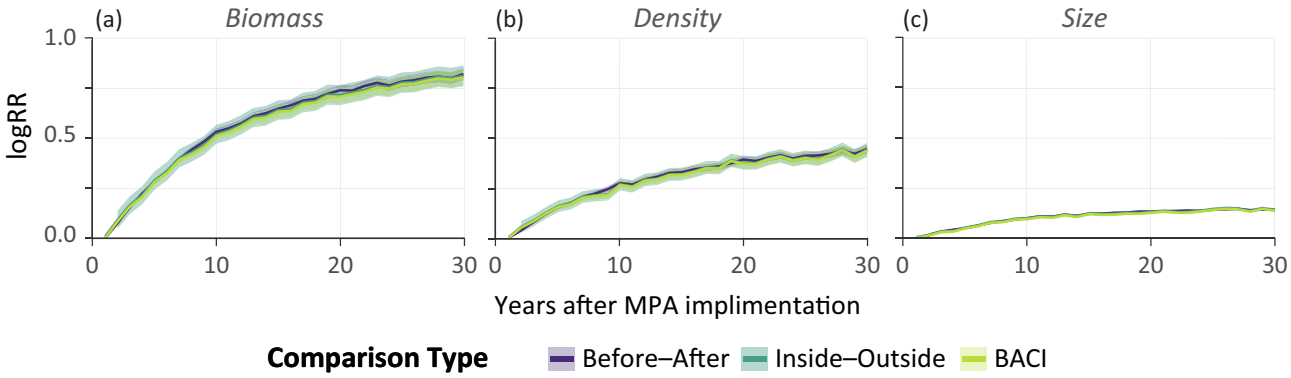

FIGURE 1 Modeled log response ratios (logRR) of a harvested species over time using different comparison ratios (colors), and biological measurement metrics (biomass density, abundance density, individual size). Baseline scenario: Open population, no correlation in variance, and no fishery squeeze. BACI, before–after-control-impact; MPA, marine protected areas.

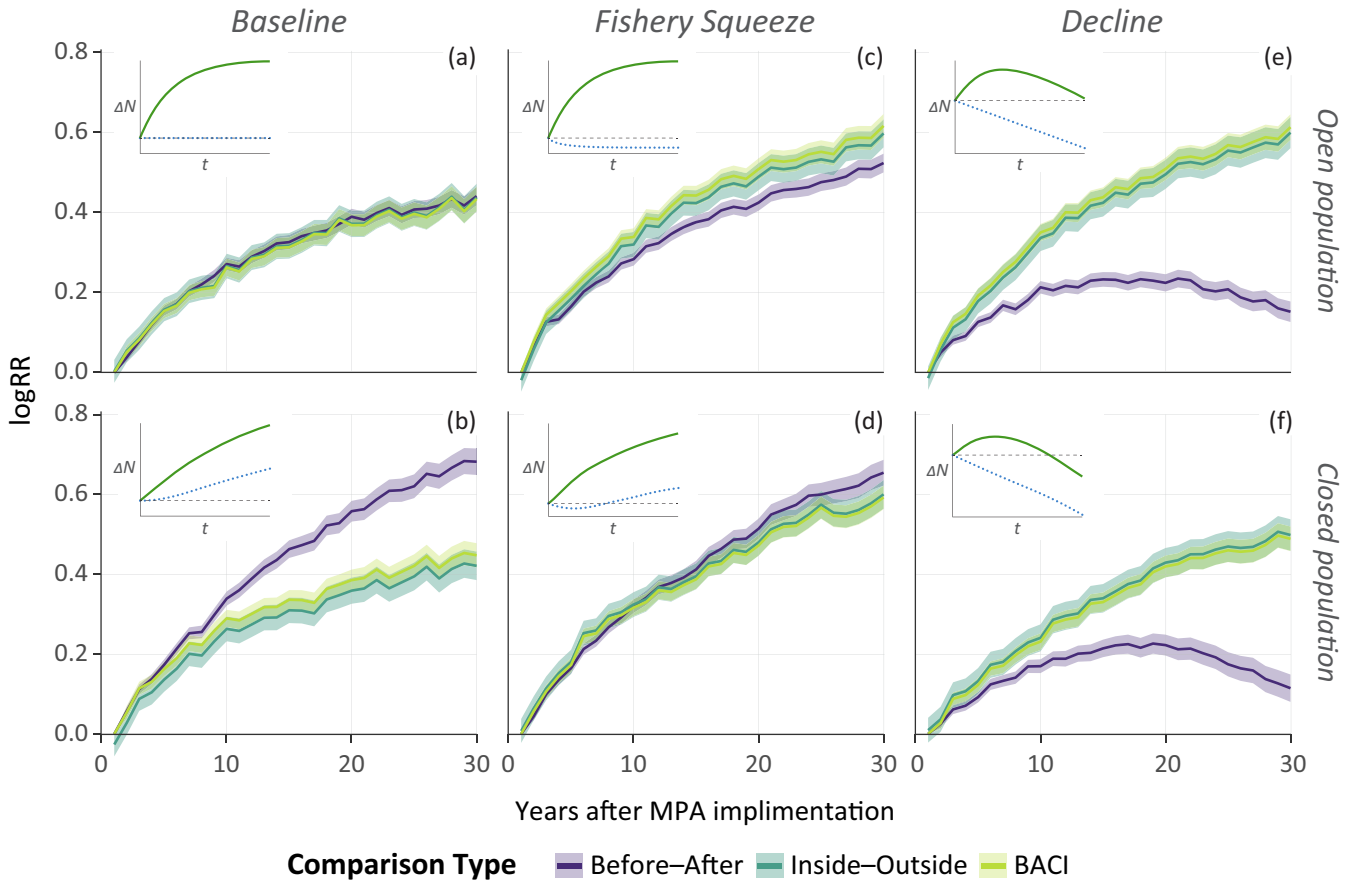

FIGURE 2 Modeled log-response ratio (logRR) of the *abundance density* of a harvested species over time using different comparison ratios (colors), for a range of scenarios. Solid lines indicate the mean with SE envelopes (shading) for 2000 replicate runs. In all scenarios, both patches experience independent pink noise. Inset plots show average modeled trends of patch abundance densities (ΔN) over time (t), relative to the time of marine protected areas (MPA) implementation (dashed horizontal line) for the MPA (green solid line) and fished (blue dotted line) patches. BACI, before–after-control-impact.

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abundance density only (see Appendix S1: Figures S28 and S29 for biomass density and size results, which have similar trends). When interpreting the trajectories in Figure 2, a manager may not have access to the full time-series of observations depicted in the figure, but instead may only be able to sample one point in time along the trajectory, and must make adaptive management decisions accordingly.

In all scenarios considered, before–after comparisons most accurately reflected the true local population trajectory within the MPA (Figure 2). Scenarios that increased the difference between the protected and fished populations led to higher logRR values with outside–inside and BACI comparisons, than with before–after comparisons. This was exemplified by our open population, fishery squeeze scenario, where reallocated fishing pressure resulted in an initial decline (at the minimum) in biomass density outside of the MPA, enhancing the difference between the two patches (Figure 2c). This difference, however, was offset by net larval export in the closed population scenario, which led to densities in the fished area recovering over time due to larval export from the MPA (Figure 2d). Except for before–after comparisons, which are not affected by outside densities, logRR increased marginally slower in the closed population, reflecting the decreased difference between patch densities (Figure 2b,d,f).

Patterns of overall population decline (despite protection) were only captured with before–after comparisons, at least in the first 30 years (Figure 2e,f). Critically, BACI performed similarly to outside–inside in the declining scenario: The difference between patches was greater than the rate of decline over the 30-year simulation period (insets in Figure 2e,f).

Our modeled results were also true when patches experienced correlated pink noise (Appendix S1: Figures S30–S32). CIs, however, were smaller for outside–inside and BACI comparisons when noise was correlated, as patches fluctuated synchronously over time.

Meta-analysis: MPA studies

In our meta-analysis of MPA studies from 2006 to 2020, we found that most studies (86.6%) were focused on, or included, outside–inside comparisons, followed by BACI (18.3%) and before–after (3.8%) (Figure 3). Almost half of the studies (45.1%) also included some time-series data. Notably, 36.6% of studies with outside–inside data also included time-series data; these data were unable to be used in a true BACI comparison, however, as data collection began after the

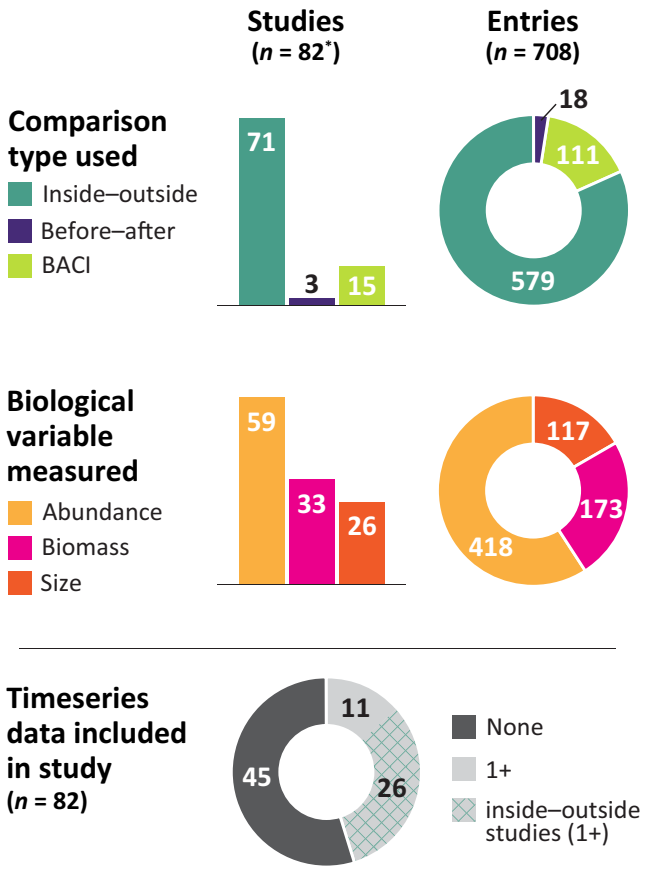

FIGURE 3 Number of studies and number of entries from the meta-analysis that included a given comparison type and biological (response) variable, and the number of entries that did or did not include time-series data. Note that the total number of studies is less than plot totals as some studies included multiple comparison types. BACI, before–after-control-impact.

MPA was established. Most studies included abundance density data (71.2%), followed by biomass density (40.2%) and then organism size (31.7%).

Reflecting the study bias toward outside–inside, most entries (data points) were collected on outside–inside comparisons (81.8%), followed by BACI (24.4%) and before–after (2.5%) (Figure 3). Likewise, most entries used abundance data (59%), followed by biomass (24.4%) and size data (16.5%) (Figure 3).

Meta-analysis: MPA effects

In general, we found a positive MPA effect for all three response variables. The estimated posterior mean logRR values were positive across all metrics, when not accounting for comparison type (Figure 4, Appendix S1: Figures S36–S39). Biomass density had the largest effect, followed by abundance density and then size, as predicted by our baseline population model.

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The overall positive MPA effect was driven by harvested species, with posterior predicted distribution of logRR values consistently higher for harvested species than non-harvested species across all biological variables and comparison types (Figure 5, Appendix S1: Figures S40–S45). Posterior mean logRR values for non-harvested species were close to zero except for biomass outside–inside and BACI comparisons, both of which had low sample sizes ($n \leq 2$; Appendix S1: Figure S34). For abundance and size, outside–inside had the highest predicted posterior logRR, followed by BACI and then before–after. Conversely, outside–inside had the lowest mean logRR for biomass. Despite positive posterior means, all posterior-predicted logRR distributions had considerable density below zero (30.1% for biomass, 37.4% for abundance, and 39.9% for size). Additionally, there was greater confidence in the mean logRR values for size than for biomass or abundance, as indicated by the widths of the posterior distributions (Figure 5).

We found little evidence for an effect of MPA age on logRR, for any of the three biological variables considered (Figure 6, Appendix S1: Figures S46–S48). Estimated posterior mean slope values for fitted linear models were close to zero, with non-harvested species having marginally higher, but less confident, slope estimates than harvested species (Figure 6). Intercept values were estimated with low confidence, with estimated posterior density spanning across zero for all biological variables: Intercepts greater than zero were consistently estimated for harvested species, and less than zero for non-harvested species.

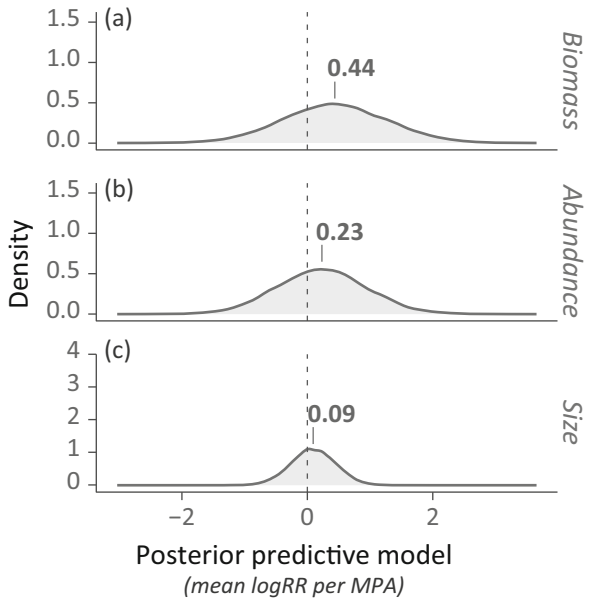

FIGURE 4 Predicted overall marine protected area (MPA) effects. Posterior predictive distributions of log response ratio (logRR) by biological (response) variable (rows). Text annotations indicate estimated posterior means.

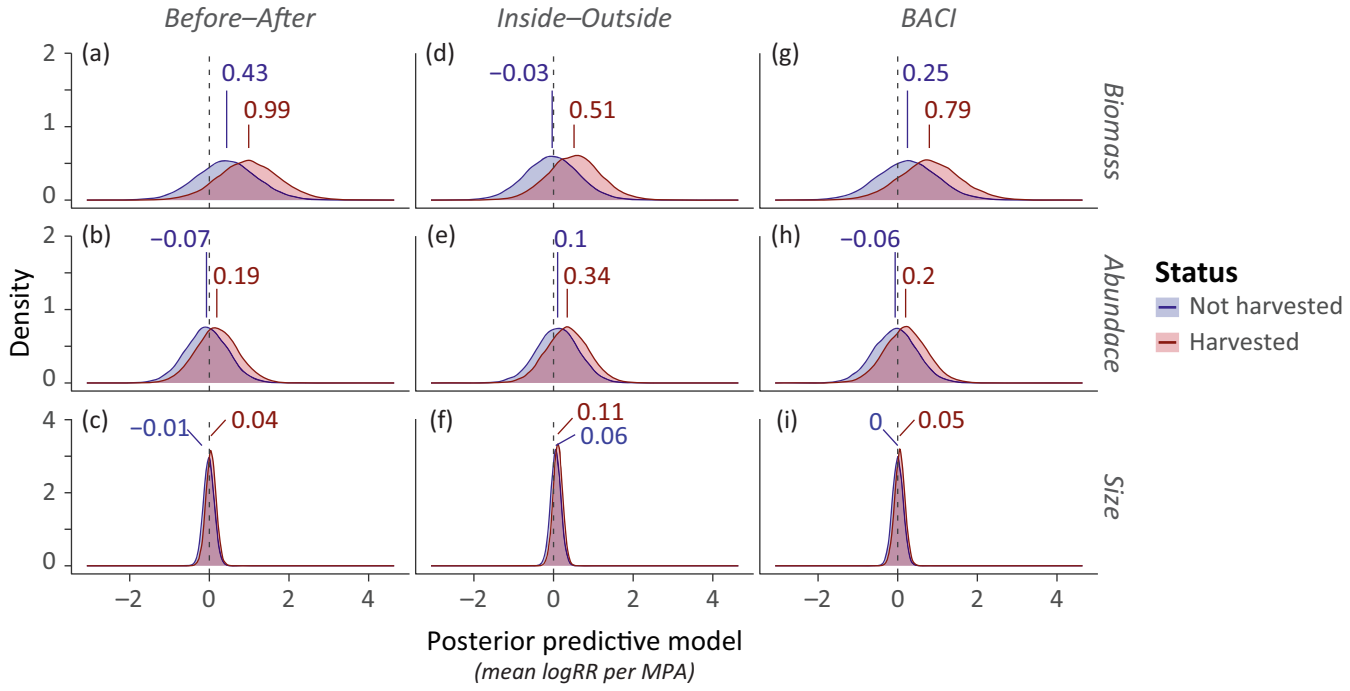

FIGURE 5 Predicted marine protected area (MPA) effects. Posterior predictive distributions of log response ratio (logRR) by harvest status (colors), comparison type (columns) and biological (response) variable (rows). Text annotations indicate estimated posterior means. Note that before–after data for all biological variables has been supplemented with before–after data extracted from before–after-control-impact (BACI) studies (see *Methods* for further details).

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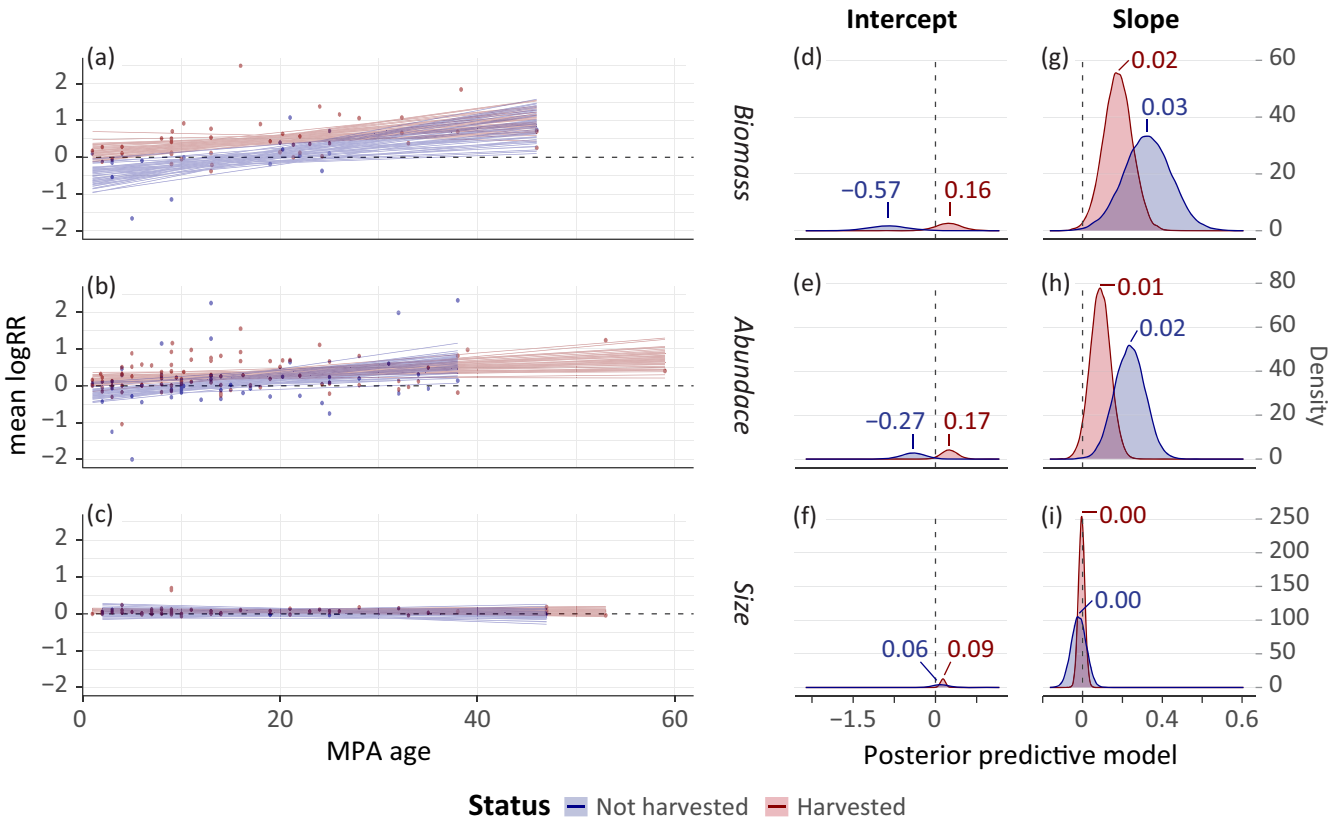

FIGURE 6 Estimated effects of marine protected areas (MPA) age on biological responses. (a–c) Mean log response ratio (logRR) for biomass, abundance, or size versus MPA age, with separate models for harvested (red) and non-harvested species (blue). Points indicate collected meta-analysis data (MPA × age average), and lines indicate sampled posterior model fits for a linear regression ($n = 50$ samples). (d–i) The corresponding posterior predictive distributions of coefficients (d–f: Intercept; g–i: Slope), with text annotations indicating the mean of each posterior.

DISCUSSION

Accurate assessments of MPA effects are required to inform the adaptive management, and future planning, of MPAs. Here, we have focused on the MPA objectives to increase and conserve local populations. Reflecting previous meta-analyses (e.g., Giakoumi et al., 2017; Lester et al., 2009; Sciberras et al., 2013), we found that no-take MPAs globally are providing positive outcomes within their boundaries, especially for harvested species. However, we show that these benefits may be smaller and more uncertain than previously reported in Lester et al. (2009), particularly when considered in the context of how we expect observed effects to change under different dynamics (MPA, environmental, and population traits) and sampling approaches (comparison types and biological variables measured).

Through simulating sampling of MPAs under a range of ecological scenarios, we were able to demonstrate that not all response ratio comparison types provided the same information. Critically, both outside–inside and BACI approaches failed to reflect patterns of long-term population decline within the MPA (Figure 2). The implications of this depend on the question being addressed: If the goal is to evaluate whether an MPA only achieved greater density, biomass, or average individual size than fished areas (i.e., protection is achieved), then all comparison metrics reflected that information accurately. However, as MPAs typically aim to also conserve populations over the long term (Grorud-Colvert et al., 2021; IUCN WCPA, 2018), it is also important to assess whether local populations are not declining (i.e., they are preserved or being restored). When addressing this question, we showed how BACI or outside–inside comparisons failed to provide insight into whether an MPA may be preventing decline. Furthermore, due to stochasticity and disturbances, a positive before–after effect is not absolute evidence of local population growth, only long-term time-series data can clarify this. However, before–after comparisons are more likely to provide insight into population trends.

In our global meta-analysis of empirical data, all three of the response ratios had positive posterior means for all three biological variables (at least for harvested species).

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Our simulation results allow us to interpret the before–after results as evidence for where MPA protection is likely associated with an overall increase in the local population following implementation, while the other two types of response ratios reflect scenarios where biomass is greater inside of the MPA than outside but provide no evidence that those MPAs are preserving or restoring local populations. Thus, assuming that large outside–inside or BACI response ratios always reflect large and net positive MPA effects may lead to misleading conclusions about MPAs and possibly poor adaptive management. This is especially important as the majority of empirical studies use outside–inside data to evaluate MPA success (Appendix S1: Table S1; Figure 3; Lester et al., 2009).

Additionally, our simulated response ratios calculated using biomass density had notably larger increases in magnitude over time than abundance density or size. This is to be expected, as biomass increases reflect both changes in numerical abundance and the population size distribution after protection. Changes in average size, however, are limited by the maximum size for species with determinate or asymptotic growth and could be muted if there is an increase in the recruitment of smaller individuals that balances out the growth of larger individuals due to greater longevity. These patterns were reflected in our meta-analysis: The posterior estimate of MPA effects was highest overall for data that measured biomass, regardless of comparison type or harvest status, and the posterior mean response ratios were all near zero for size.

It is important to note that though the posterior mean response ratios for all three biological variables were positive for fished species, indicating a positive MPA effect, the posterior predictive distributions all had considerable (>30%) probability density below zero, reflecting large uncertainty that any given MPA would be expected to have a positive effect. In fact, our posteriors had a central tendency very similar to the corresponding priors, but much wider uncertainty bounds (Appendix S1: Figures S36–S48). There are a few potential explanations for this. First, the data from Lester et al. (2009) that we used for our priors were only available aggregated across taxa, not species, and may have had lower variability by virtue of that averaging process. Second, this could be an example of the repeatability crisis observed in some scientific fields, in which repeated studies of the same phenomenon produce results with weaker effect sizes and less statistical confidence (Filazzola & Cahill, 2021). We argue that this is unlikely as different MPAs are not true replicates of one another, and the actual "MPA effect" would be expected to differ because of differing ecological and management contexts. Rather, we suggest that the greater uncertainty could reflect the placement of more MPAs in more places, possibly with poorer management, or more studies reporting results on a broader suite of species (as opposed to a few species of specific interest to fisheries), leading to a broader array of outcomes. Publication bias toward positive MPA results may also contribute to more certainty in previous positive MPA assessments (Woodcock et al., 2017), and we did not include any study that acknowledged reporting only positive MPA effects. Nonetheless, our results highlight the need for localized adaptive management to respond to the local conditions and outcomes, rather than a blanket expectation for positive MPA effects.

The confounding effects of MPAs beyond their borders (through larval export, adult spillover, fishery displacement etc.) have long been recognized as a potential bias in quantifying MPA effects (e.g., Claudet et al., 2010; Lester et al., 2009; Osenberg et al., 2011; White et al., 2011), especially when considering outside–inside data. Positive MPA effects result in a self-contradictory approach to detecting those effects: MPAs are expected to perform better than the reference site, but they are also expected to produce spillover and larval export, which makes it harder to detect increasing MPA effects, as demonstrated by our modeled closed population scenario (Figure 2). How much and under what scenarios these biases are likely to happen has not been previously explored alongside empirical data. While we have taken steps toward resolving this, we have not considered the full gamut of scenarios possible. For example, we did not explore the implications of adult spillover, although it would likely lead to response ratios similar to those in our closed-population scenario (Moffitt et al., 2013). Likewise, we focused on a single species (blue rockfish) for our model. Numerous studies have demonstrated how MPA effects are likely to, and do, vary with MPA characteristics, species and ecosystem traits, local fisheries management, and stochasticity (e.g., reviewed in White et al., 2011). However, the tendency of outside–inside, and to a lesser extent BACI, to less faithfully reflect the underlying MPA trend is likely to be consistent across most cases, as previous modeling studies have demonstrated that outside–inside sampling is the least sensitive to temporal fluctuations in MPA dynamics (Hopf et al., 2022; Hopf & White, 2023). As the species and ecosystems protected, and the specific goals of each MPA are unique to each case, we recommend that modeling of expected trends and effect sizes be undertaken to accompany the analysis of monitoring data for a specific MPA (e.g., Kaplan et al., 2019) to ensure that MPA goals are properly quantified and met.

A surprising outcome from our modeling results is that BACI comparisons performed similarly to

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outside–inside comparisons and did not always reflect the underlying temporal dynamics faithfully. By accounting for spatial and temporal variations, even simple BACI designs (which we have considered here) are expected to provide more reliable measures of MPA effects than outside–inside or before–after (Osenberg et al., 2011; Schmitt & Osenberg, 1996; Stewart-Oaten et al., 1986). This expectation implicitly assumes that changes over time due to management intervention will be on the same order of magnitude as, or greater than, changes occurring over space, since the BACI comparison calculates the ratio of changes at spatial and temporal scales. However, in our modeled scenarios, this condition did not hold: The outside–inside difference was notably greater than the before–after difference. To see this, compare the difference between the MPA (green line) and the fished population (blue line), to change within the MPA in the insets of Figure 2. This difference in magnitude of change between space and time resulted in BACI values following outside–inside more closely. This may not occur in scenarios where protected populations recover quickly, but to low densities (e.g., a lightly-fished fast-growing species). More work is required to elucidate this and may partly explain why predicted BACI logRR values were closer to before–after values in our empirical meta-analysis. A solution to this BACI challenge is to separately analyze the before–after data to gain insight into the possible population trends, if this is of importance to the MPA assessment.

It is important to emphasize that our conclusions about outside–inside versus before–after comparisons reflect the reality of many monitoring programs: Sampling is limited to only occasional snapshots of the system, rather than a continuous time-series. It is under those conditions that a large outside–inside response ratio could be deceptive when assessing longer-term conservation goals (Hopf et al., 2022; Moffitt et al., 2013; Rassweiler et al., 2021). If a time-series was used to calculate the outside–inside ratios, then population trends could also be detected. Thus, a key takeaway from our findings is that long-term time-series data, ideally from both MPA and reference area(s) and spanning implementation, are required to make robust and more complete assessments of MPA effects. Indeed, a large portion of the studies in our meta-analysis included at least one temporal data set longer than two time points. While the analysis of these data is outside of the scope of this study, it warrants further study.

The results of our analysis of the effect of MPA age did not match the general expectation that there would be a positive effect of MPA age on harvested species, and no effect on non-harvested species. Instead, there was a greater positive effect of age on non-harvested species, and overall high uncertainty in the slope of the regression, which explained little of the variation in the data. We propose this result arose because our dataset was sampling multiple different systems with different species traits and population dynamics, at different times in the post-implementation trajectory. For example, in some scenarios one would expect an initial decline in abundance post-implementation, prior to an increase in abundance or biomass, because of age-structured transient dynamics or fishery squeeze (Hopf et al., 2016b; Nickols et al., 2019; White et al., 2013). A better approach to understanding the effects of MPA age would be to compare different MPAs protecting the same or similar species, as Claudet et al. (2010) have done in the Mediterranean Sea. Given that limitation to our study, we do not make further inferences about MPA age effects in our dataset.

Our study demonstrates the importance of considering the assessment goals and the underlying system dynamics when assessing MPA effects and, importantly, demonstrates how they may affect summary metrics. Because it is unfeasible to model the expected dynamics for each unique system and scenario considered in our meta-analysis, we have considered the broader implications of our model findings; that MPA effects are likely to be smaller than suggested in previous meta-analyses that only considered outside–inside comparisons or did not separate analysis by comparison type. Furthermore, the failure to detect population declines using outside–inside comparisons has only been recognized theoretically (Hopf et al., 2022; Moffitt et al., 2013) and is typically overlooked when evaluating empirical data. This is problematic as a key indicator of successful MPA management is maintaining a persistent population (local or global; Botsford et al., 2001), which many studies may incorrectly assume is also occurring if positive increases are observed within MPAs compared with outside. When assessing specific MPAs, we recommend considering empirical findings in conjunction with theoretical knowledge relevant to the context of that MPA system, as previously called for by others (e.g., White et al., 2011; Woodcock et al., 2017).

AUTHOR CONTRIBUTIONS

Jess K. Hopf, Sarah Farnsworth Hayroyan, Sarah E. Lester, Kerry Nickols, and J. Wilson White conceived the ideas and designed methodology. Jess K. Hopf, Victoria Quennessen, Jacob Ridgway, Caren Barceló, Fabio Prior Caltabellotta, Sarah Farnsworth Hayroyan, Derek Garcia, and Montana McLeod collected the data. Jess K. Hopf and J. Wilson White analyzed the data. Jess K. Hopf and J. Wilson White led the writing of the manuscript. All authors contributed critically to the drafts and gave final approval for publication.

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CONFLICT OF INTEREST STATEMENT

The authors declare no conflicts of interest.

DATA AVAILABILITY STATEMENT

Data, script files, and model code (Hopf, 2024) are available in Zenodo at https://doi.org/10.5281/zenodo.12697206.

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SUPPORTING INFORMATION

Additional supporting information can be found online in the Supporting Information section at the end of this article.

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From: cameron cribben <[redacted]>
Sent: Thursday, October 24, 2024 05:47 AM
To: FGC <FGC@fgc.ca.gov>
Subject: Fwd: Opposition to Proposed Closure of Point Loma Ocean Waters – MPA Expansion

Begin forwarded message:

From: Paris Cribben <[redacted]>
Date: October 24, 2024 at 5:44:36 AM PDT
To: cameron cribben <[redacted]>
Subject: RE: Opposition to Proposed Closure of Point Loma Ocean Waters – MPA Expansion

Dear Members of the California Department of Fish and Wildlife,

I am writing to express my strong opposition to the proposed closure of Point Loma ocean waters as part of the Marine Protected Areas (MPA) expansion. As a San Diego-based fisherman with over 12 years of experience fishing for California spiny lobster, I believe that the proposed closure will negatively affect not only my livelihood but also the broader fishing community that depends on these waters.

The California spiny lobster fishery is one of the most sustainable and well-regulated in the state. I have been part of this fishery for more than a decade, working with local fishermen and adhering to strict regulations designed to ensure long-term sustainability. These include trap limits, size restrictions, and seasonal closures—all of which are enforced to maintain a healthy lobster population. The additional closure of Point Loma, an area vital to our operations, would unnecessarily restrict access to one of the most productive fishing grounds for this species.

Throughout my career, I have seen firsthand the positive impact of California's responsible fishery management practices. The spiny lobster population has remained stable, and our industry has been proactive in supporting conservation efforts. Closing Point Loma's waters to commercial and recreational lobster fishing is not only redundant but also harmful to the hardworking men and women who rely on these waters for their livelihood.

Additionally, the economic impact of this closure would be devastating to local businesses. Many of us have deep ties to the San Diego community, working with seafood distributors, restaurants, and markets that depend on a steady supply of local, sustainably caught spiny lobster. Limiting our access to these critical waters could force some of us out of business and disrupt the local seafood economy.

It is also important to consider that closures like this could lead to increased fishing pressure in other, less-regulated areas, potentially harming the very marine ecosystems we all seek to protect. A balanced approach is crucial to maintain both environmental conservation and economic sustainability, and I believe we already have that balance under the current regulations.

As someone who has spent countless hours on the water and has a deep respect for the ocean and its resources and would like to pass on his lobster permit to his young son in the future, I strongly urge the Department to reconsider this proposal. The closure of Point Loma waters is unnecessary and will disproportionately impact the livelihoods of responsible, local fishermen who have long been stewards of these waters.

Thank you for considering my comments. I hope you will consider the voices of the local fishing community when making your final decision.

Sincerely,

Cameron Cribben

California Spiny Lobster Fisherman, San Diego, CA

From: Brian Kiyohara <[redacted]>
Sent: Thursday, October 24, 2024 06:00 AM
To: FGC <FGC@fgc.ca.gov>
Subject: Fw: Opposition to Proposed MPA Expansion

Begin forwarded message:

On Thursday, October 24, 2024, 5:59 AM, Paris Cribben <[redacted]> wrote:

Dear California Fish and Game Commission,

I am writing to express my strong opposition to the proposed closure of the ocean waters off Point Loma as part of the California Marine Protected Areas initiative. As a California spiny lobster fisherman for over 33 years, I have seen firsthand the value of sustainable fishing practices that not only support our local economy but also feed our community.

Fishing is not just a job for many of us in Point Loma; it is a way of life. The ocean provides for us, our families, and our neighbors. The proposed closure threatens to disrupt the livelihoods of hardworking fishermen who rely on these waters to sustain their families and contribute to the local economy. Point Loma is a vibrant community that thrives on the fresh seafood we provide, and our spiny lobster catches are a key part of that.

Moreover, our fishing practices have evolved to prioritize sustainability and environmental stewardship. We work diligently to adhere to regulations that protect marine ecosystems while ensuring that our local community continues to have access to fresh, locally sourced seafood. Closing these waters does not guarantee better conservation; instead, it can create economic hardships and undermine the traditions and values that define our coastal way of life.

I urge the MPA to consider the voices of local fishermen and the importance of maintaining access to these waters. Instead of implementing blanket closures, we should explore collaborative management strategies that involve the local fishing community in decision-making processes. This approach would not only promote conservation but also support the livelihoods that depend on responsible fishing practices.

Thank you for considering my perspective as a lifelong fisherman dedicated to preserving both our marine resources and our community's way of life.

Sincerely,

Brian Kiyohara
California Spiny Lobster Fisherman
Point Loma, CA

From: Tracy <[redacted]>
Sent: Thursday, October 24, 2024 01:58 PM
To: FGC <FGC@fgc.ca.gov>
Subject: Opposition to Proposed Closure of Point Loma Ocean Waters – MPA Expansion

RE: Opposition to Proposed Closure of Point Loma Ocean Waters – MPA Expansion

Dear Members of the California Department of Fish and Wildlife,

I am writing to formally oppose the proposed closure of Point Loma ocean waters as part of the Marine Protected Areas (MPA) expansion. As a commercial fisherman who has been fishing California spiny lobsters and other species in these waters for the past 35 years, I know firsthand the impact this closure will have not only on my livelihood but also on the local economy. I also own a local fish market and a fish processing operation, both of which will suffer significantly if this proposal moves forward.

The California spiny lobster fishery, along with the other fisheries I participate in, has been carefully regulated for years to ensure sustainability. We have strict seasonal limits, trap restrictions, and size regulations that ensure we are not overfishing and are leaving the ecosystem in a balanced state. We fishermen, processors, and market owners have long been partners in conservation efforts, and it's important to highlight that these existing measures are already achieving the goal of resource preservation. The proposed closure of Point Loma's waters is not necessary from a sustainability standpoint and would impose undue hardship on those of us who have invested decades in responsible fishing practices.

In addition, the closure will have no meaningful benefit for the state of California, either environmentally or economically. In fact, it will be detrimental. If Point Loma is closed off, it will force many fishermen, myself included, to scale back or cease operations. This means that California will lose out on substantial tax revenues from fish sales, licensing fees, and the economic activity generated by businesses like my market and processing operation. No income or benefit will be generated by the state from a closure that puts responsible fishermen out of work.

The ripple effect will be felt across the entire community. My market employs several local workers, and our processing operation supports even more jobs. We sell directly to restaurants, distributors, and consumers, all of whom want fresh, local seafood. If Point Loma's waters are closed, we will not be able to meet demand, and consumers will be forced to turn to imported or less sustainable options. This is a direct loss for the local seafood industry and for the state, which will lose revenue and jobs as a result.

In addition, closures such as this one could lead to increased fishing pressures in other, less regulated areas, potentially causing harm to fisheries and ecosystems that currently benefit from the sustainable practices of those fishing in Point Loma.

The fishing industry in San Diego has been a cornerstone of the local economy for generations, and we take pride in our role as stewards of the marine environment. The proposed closure of Point Loma will undermine decades of responsible fisheries management and hurt hardworking, local businesses without delivering the intended benefits.

I strongly urge you to reconsider this proposal and to take into account the full economic and environmental consequences before moving forward. The local fishing community, including myself, stands ready to collaborate on solutions that protect both the ocean and our livelihoods.

Thank you for your time and consideration.

Sincerely,

Randy Toussaint

From: Sarah Wallace <[redacted]>
Sent: Thursday, October 24, 2024 03:56 PM
To: FGC <FGC@fgc.ca.gov>
Subject: Written public comment for November 6th MPA meeting

Thank you for your time in reading my comments.

Sarah Wallace

Dear members of the California Fish and Game commission; Marine Resources Committee

I would like you to imagine, a man who works every single day for his family, including weekends, with hopes that the amount of money he brings home is enough to pay for food, clothing, a home and safety for his family. This man is trying to run a small business in an unstable economy with rules that are constantly changing, law enforcement who can investigate him at anytime for any reason without a warrant, in one of the most dangerous and unexplored environments known. He is paying for permits, paying for VMS tracking, paying for fishing gear, vessel repairs and still trying to pay fair wages for those working with him. Now, knowing all this, imagine he is now told that he can no longer fish where he has for the last 20 years, in waters he knows like his own backyard. In waters where he befriends, sheep head, grass bass, seals and other marine life, he knows these ecosystems more intimately than most can claim.

The proposed MPA closures in Petition ID 2023 33 MPA is not founded on science nor was it discussed with those who are in and under those waters on a weekly basis and know them best. May I ask, why is this even an option for closure then? If I am not mistaken, these closures are being driven by the hope to rebuild kelp. With that said, fishing is not known to be detrimental to kelp growth, in fact the harvesting of red and purple sea urchin has been know to help boost kelp growth. Instead of closing the area why not look to other organizations such a NOAA a with their kelp restoration projects and see what can be done to support and help them. Knowing how detrimental it could be to human life by causing families who work hard for a living to potentially need to rely on government financial assistance because the waters they were once allowed to fish in they no longer can.

As I am sure you know the “man” I speak of theoretically consists of a group of upstanding commercial fishermen who have made it their life’s work to fish sustainably, and try to keep the food they catch available to Americans and those who care to purchase sustainably caught seafood.

By pushing these fishermen out of these areas, you are then forcing the American people to rely more heavily on international fishing. These other fisheries have no where near as strict laws or support for sustainability and ecosystem management

Additionally, the waters that then are left as “available” our fishermen will become much more crowded, the biodiversity could potentially dwindle and cause further issues. At this point there is a fair percentage of our waters considered marine protected and we see no further need in creating more unless it is done based on sound scientific evidence and in collaboration with these fishermen who know the waters best.

As a further thought, it would be interesting to see the public’s reaction to a fishing documentary. One where it shows our United States fishermen, who are following all laws and practicing sustainable fishing. Compared to those of other countries- countries we import our fish from, with their disregard for biodiversity, sustainability and lack of deep care of the fish they are selling. Our fishermen take pride in their catch and we as consumers should support them in these efforts and not make it more difficult.

I acknowledge the weight of your responsibility as decision makers for our state waters. Please consider that your decisions impact directly our ability to provide for our children. The ripple effect would not only impact the immediate fisherman and their families but will continue to create tremendous hardships that will be disastrous for many generations to come. Once an area becomes an MPA is rarely ever changes back to “fishable waters”, I urge you to please consider other options besides closing these waters and to please work collaboratively with the fishermen who know the waters best.

Thank you for your time,

Sarah Wallace

From: John Conniff <[redacted]>
Sent: Friday, October 25, 2024 03:09 PM
To: FGC <FGC@fgc.ca.gov>
Subject: Proposed MPA expansion in Point Loma

Dear Commission,

I am writing this letter in response to the proposed creation of an expanded MPA in Point Loma. I have been a commercial crab and lobster fisherman in Point Loma for the last 15 years and am also the president of the Point Loma Commercial Fishing Alliance. Additionally, I am a partner in Tunaville Market and Grocery, a brick and mortar fish market on the waterfront in Point Loma. This market started two years ago with the mission of providing locally and sustainably caught seafood to the local community, much of it based on lobster.

There are currently 22 lobster fishermen operating in the proposed reserve. Those who are not pushed out of business will be forced to travel to La Jolla, effectively tripling the pressure in this area. Additionally, VMTs and VHTs will dramatically increase for the fleet furthering the negative effect of carbon emissions in the region. It seems clear that this would only exacerbate the issue of global warming which seems to be the primary factor with regard to urchin proliferation and kelp deforestation. Additionally, our market will now be forced to source seafood from other, more distant sources which will result in more trucks (and planes), resulting in more VMTs. Closing Point Loma to all fishing will have a destructive effect on our local fishing economy and will primarily target small, family owned businesses.

I drive through the Cabrillo MPA on a daily basis. There is less kelp in the preserve boundaries than outside of it. I've found no scientific evidence that creating a no take zone improves kelp health within that boundary. It seems to me, this closure has the potential to create the opposite effect of what is intended.

Thank you for your time,

John Conniff
Owner/Captain
FV Juliet Leigh
[redacted]

From: Dave Stephens <[redacted]>
Sent: Tuesday, October 29, 2024 10:17 AM
To: FGC <FGC@fgc.ca.gov>
Subject: November 6 meeting/MPA petitions

DFW Commission

Please accept this letter as written comment for MPA petitions discussion and action items 2 on the Agenda.

RE: MPA Petitions October 29, 2024

DFW Commission,

I am writing to you with regard to public comment for the upcoming meeting November 6th, 2024. I want to address the use of petitions as a tool rather than scientific research and fisherman observations for data with regards to decision making for creating MPAs. Often petitions are based upon opinion and not fact. By allowing petitions to create new MPAs you are opening the door and allowing feelings and lobbying for rule making which uses politics (appeasing the 30x30 initiative) rather than science and true observable data to make decisions.

I am concerned because the proposal for the use of petitions will lead to creating an MPA in an area (Point Loma) in which I have 55 years of experience and observation. I was born and raised in Point Loma and my dad started taking me to the reefs when I was 2 years old. I have been fortunate to grow up with this coastal surrounding, on both sides of the Point, as my front and backyard. Over my lifetime I have had vast and extensive observation of the reefs and kelp forest. My observations come from many different perspectives, land based, boats surface based, in and underwater based. These observations are because I have walked, surfed, snorkeled, commercially dove and trap fished this region my entire life not to mention I was very blessed to have grown up in a house that was situated one block from stairs at the bottom of Ladera street at the end of Sunset Cliffs. Everyday I woke up and observed and watched the ocean from my windows and everywhere around the vicinity. That coastline was and still is my life. Today I still have two commercial fishing vessels in which I berth in Point Loma, San Diego Bay and harvest Lobster, Sea urchins and Sea Cucumbers throughout the year. This perspective leads me to my observations of the Kelp Forest.

Though some scientists may have been studying Point Loma's kelp forest for 5 to 10 years, I have more than 50 years studying it. I am also an educator and teach subjects like Climate Change to my 6th graders. My brother, who also grew alongside me in Point Loma, became a Marine Biologist who studied the intertidal zones and region of San Luis Obispo. I was fortunate to have amazing discourse about the marine coastline regions spanning between San Diego and Moss Landing with my brother which added to my knowledge of this topic. In my observations, I would say that not just in Point Loma but up and down the coast, the kelp forest has diminished because of pollution and climate change (not just cyclical swings) leading to water temp changes and more severe storm activity. Over the past 50 years the giant kelp forest was the healthiest when Kelco was allowed to harvest kelp. By their harvest of the canopy of the kelp forest, the roots and stalks grew healthier and more robust (I observed this from the sea floor) just as trimming trees and plants on land. Along

with favorable environmental conditions the kelp forest flourished. Recently, in the past year and a half I have been very pleased to see certain areas of Point Lomas kelp forest "coming back" growing and spreading over the reefs in the 30 to 90 ft zone. I feel that this is due to 2 cooler seasons which have given rise to more favorable temperature range for giant kelp to grow.

So, in conclusion, by allowing the use of petitions as a tool for creating MPAs is bad management practices. I am concerned that this will lead to unnecessary closures of marine regions which will have a negative effect on the health and economic viability of those regions. If you want to help the kelp forest then you need to address the overall cause of the global environmental changes, human activities that cause pollution and climate change not the day-to-day interactions within the kelp regions.

David Stephens

Commercial Fisherman 40+ years

K-12 Educator 26+ years

From: Jason Johns <[redacted]>
Sent: Tuesday, October 29, 2024 06:50 PM
To: FGC <FGC@fgc.ca.gov>
Subject: formal comment to MRC

To whom it may concern,

My name is Jason Johns and I'm a conservation scientist and fisherman in Santa Barbara county. I read petition 2023-33 MPA with an open mind, as I know that MPAs can be successful both for natural and human communities when carefully applied. While reading the petition as well as the scientific literature it both cited and failed to cite, I found two major errors that undermine the petition's legitimacy.

In the attached letter I outline these errors in the context of what is known about the effect of MPAs on the health and resilience of kelp. Thank you in advance for taking the time to read and consider these points.

Sincerely,

Jason Johns

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Postdoctoral Researcher

One People One Reef - Bernardi Lab, UC Santa Cruz

Urban Forest Institute

A Petition To Expand California Marine Protected Areas Contradicts Science And Itself

By Jason Johns, Conservation Scientist

Marine Management and Conservation

Conservation is a critical tool in maintaining the health of our ocean ecosystems. The kelp forests of California are important sources of ecological, cultural, and economic value. Their careful management is one of the highest priority initiatives for all of their stakeholders and stewards, including policy makers, tribes, fishers, divers, conservation biologists, and others.

Building marine management plans is a complex endeavor, and the success of any given initiative relies on its ability to consider multiple, sometimes conflicting perspectives. Each stakeholder group brings unique and important expertise, and each perspective has both assets and limitations. The asset that the scientific perspective brings to management is the ability to produce and analyze objective, tangible evidence.

Using science objectively, not selectively

While it's a no-brainer to use science in conservation decisions, it requires additional effort to use it objectively and comprehensively. Part of this objectivity is being sure to consult all of the science available on the issue at hand. We need to be wary of "using" any science to support a given initiative, especially when we have a personal stake in the outcome. Omitting relevant studies from the conversation undermines both the legitimacy and success of conservation initiatives.

Several organizations recently submitted a petition to the California Fish and Game Commission to protect kelp forests in Southern and Central California. The purpose of this letter is to address their incomplete and improper acknowledgement of the science around kelp health in California.

Let me first establish my biases. I'm fortunate to have a deep relationship with and respect for the ocean, which started in my childhood. I interact with the ocean by any means possible, whether it be riding waves, paddling various crafts, snorkeling, scuba diving, and occasionally sourcing food from it with various tools. I am also a scientist with a keen interest in learning more about the dynamics of the natural world, and a conservation biologist working to support its longevity. Accordingly, I approached this petition with an open mind, and multiple sources of both expertise and motivation.

I looked at the scientific papers and reports cited in the petition to examine the evidence myself. While sharing opinions is an important part of this process, the following are not my opinions - rather objective analyses of two fundamental errors in petition 2023-33MPA that either contradict the scientific literature and/or the petition itself.

Errors in the petition

The first major error that the petition makes is claiming that kelp density itself is positively influenced by MPAs. While we know that some California kelp dwelling species can be positively affected by MPAs, such as lobsters and sheephead (Kay et al., 2012; Hamilton & Caselle, 2015), kelp density has never been shown to be consistently higher in MPAs than outside them. In fact, the vast majority of published science on this topic from California demonstrated that that kelp density is unaffected by MPAs (Malakhoff & Miller, 2021; Smith et al., 2023). The second inconsistency is in the petition's description of the selection process for the sites chosen for MPA expansion or establishment. These two errors are fundamental to the petition, and their lack of rigor substantially undermines its legitimacy.

Error #1: MPAs improve kelp density and resilience to climate change

The petition is written with the intention of protecting kelp itself, which relies on the premise that MPAs enhance the health of kelp. It is true and relatively uncontroversial that MPAs protect many fish and invertebrate species - there are generally more fish and larger fish within MPAs than outside of them (Lester et al., 2009; Rolim at al., 2019). This has been demonstrated many times in various ecosystems around the world. Importantly, though, there is a lack of scientific evidence demonstrating that kelp itself is positively influenced by MPAs (Malakhoff & Miller, 2021; Smith et al., 2023).

However, the petition makes the following claim: "The Decadal Management Review of the statewide MPA network found that, while kelp species across the state experienced large-scale declines during the 2014-2016 marine heatwave, 'overall, kelp canopy was more stable and appeared to be more resilient inside MPAs' (CA MPA DMR 2022)."

The Decadal Management Review (DMR) does state this, but does not show any data to support it, which makes it an inappropriate citation in this context. A more appropriate citation would have been the 2021 report by Carr and colleagues that the DMR authors cited, entitled "Monitoring and Evaluation of Kelp Forest Ecosystems in the MLPA Marine Protected Area Network."

While the Carr et al. report did compare kelp resilience in MPAs and non-MPAs across California, there are multiple factors that make it a less than appropriate citation for this claim, especially considering there is much more directly relevant science to consult on this topic (Malakhoff & Miller, 2021; Smith et al., 2023). First, two out of three

comparisons had no visual difference between MPAs and their “reference” non-MPAs. In addition, when looking specifically at kelp resilience, the DMR lumped all MPAs across California into one analysis (Figure 25), rather than splitting them into Southern, Central, and Northern California regions, as they did with their other analyses. Given the many fundamental differences between these regions, including the species of kelp that dominate them, it is difficult to draw any region-specific conclusions from this analysis. The strong differences between California regions are emphasized elsewhere in the DMR, as well as in two other studies currently (Hall-Arber et al. 2021 and Kumagai et al).

Further, the DMR did not show any statistics in this particular analysis, which is a fundamental part of determining the confidence that any apparent trend is a true representation of the entire population. This is likely why they chose the language, “appeared to be more resilient.” Finally, the authors acknowledge the inherent difficulty in comparing MPAs with non-MPAs, as MPAs are often chosen *because* they are known or suspected to be especially resilient, even before their protection.

A more directly applicable study to the petition’s claim is Smith et al. (2023), which did split their analyses of kelp communities in California MPAs by region, and fortified the trends they found with statistics. They found that “for all habitats except the rocky intertidal, MPAs did not impart increased resistance or recovery from marine heatwave-driven community changes compared to sites outside of MPAs.”

Malakhoff & Miller (2021) would have also been an important study to consider, which found that “no significant effect of reserve status (MPA vs. non-MPA) or time period or the interaction between status and time was evident for kelp stipe density” (Figure 1). They also compared grazing and urchin density inside and outside MPAs, and found “no evidence, therefore, that increases in predators inside Channel Islands MPAs are causing, either through direct or indirect effects, a trophic cascade leading to positive effects on kelp forests via decreased sea urchin biomass and grazing.” They conclude that “urchin biomass overall has increased inside

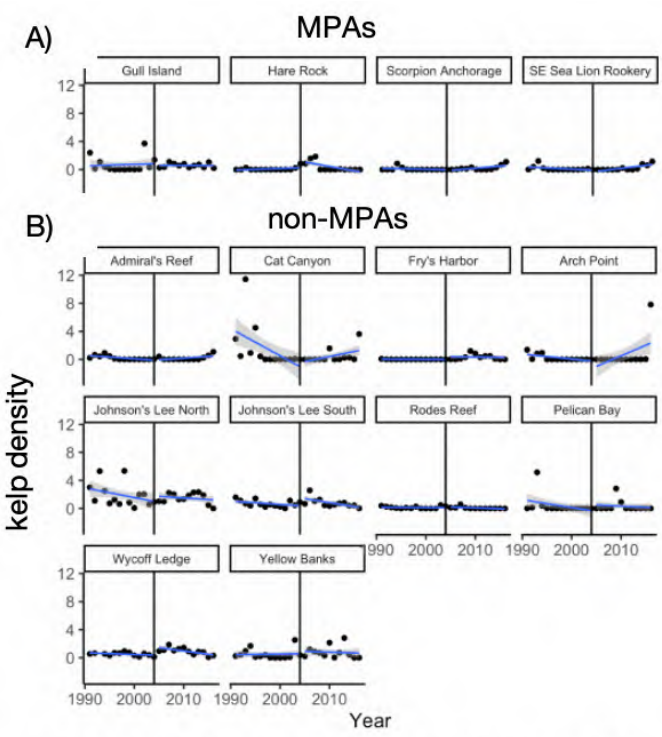

Figure 1. *Adapted from Malakhoff & Miller (2021) Figure S3. “Change in kelp stipe density over time with regression lines fit before and after the establishment of marine reserves in 2004 (vertical lines) at reserves (A) and control (B) sites.”

reserves, and we found no evidence that giant kelp is positively affected by reserves."

While it is not yet published, it is important to mention a recent study by Kumagai et al. which found that kelp resilience and recovery to the 2014-2016 marine heatwave was slightly more robust inside Southern California MPAs than outside (there was no effect of MPAs in Central California). They do, however, acknowledge that their measurements of kelp resilience and recovery are subject to some amount of error, as they were from satellite imagery. In contrast, both Malakhoff & Miller and Smith et al. measured kelp directly by counting the density of stipes (aka "stringers") on the reef, which is arguably a more thorough measure of kelp health. They also acknowledge the bias associated with the selection of MPA sites - "Taken together, these results could be biased if MPAs had been non-randomly placed in habitat more favorable to kelp recovery."

Importantly, this study is in preprint, meaning it has been submitted to a scientific journal and is currently under peer review. The petition does not cite this paper, nor should it, but the preprint is publicly available, thus it is mentioned here for thoroughness.

Another study not cited by the petition, but worth mentioning, is Eisaguirre et al. (2020). Like Kumagai et al., they did not examine the effects of non-random placement of MPAs, which likely could have affected their finding of higher kelp density in MPAs than outside in the Northern Channel Islands. This result contrasts that of Malakhoff & Miller, which found no effect of MPAs on kelp density. Notably, Malakhoff & Miller surveyed 33 sites and analyzed each site both individually and together, with statistics. Eisaguirre et al. surveyed 7 sites and lumped them all together, reporting no statistical hypothesis testing, but rather models that did not fit their data particularly well.

The above literature review demonstrates the objective failure of the petition authors to thoroughly examine the science relevant to their initiatives and claims, rendering the petition illegitimate.

Error #2: Sites were chosen because they were not listed as "high priority" by Giraldo-Ospina et al., 2023.

The second contradiction is in regard to the strategy used to select sites for MPA expansion. This error is not a contradiction or omission of the literature, but rather a contradiction of the petition itself.

The petition narrative states, "we did not focus on 'high priority' restoration sites identified by Giraldo-Ospina et al. 2023…" However, Table 1 of the petition suggests that they propose to expand the two MPAs on the Northern Channel Islands *because* they hold portions of high priority sites: "The Northern Channel Islands contain some of the largest remaining resilient kelp beds in state waters, although large portions of the

islands have experienced die-offs and are rated as ‘high priority’ sites by Ospina-Giraldo et al. 2023.”

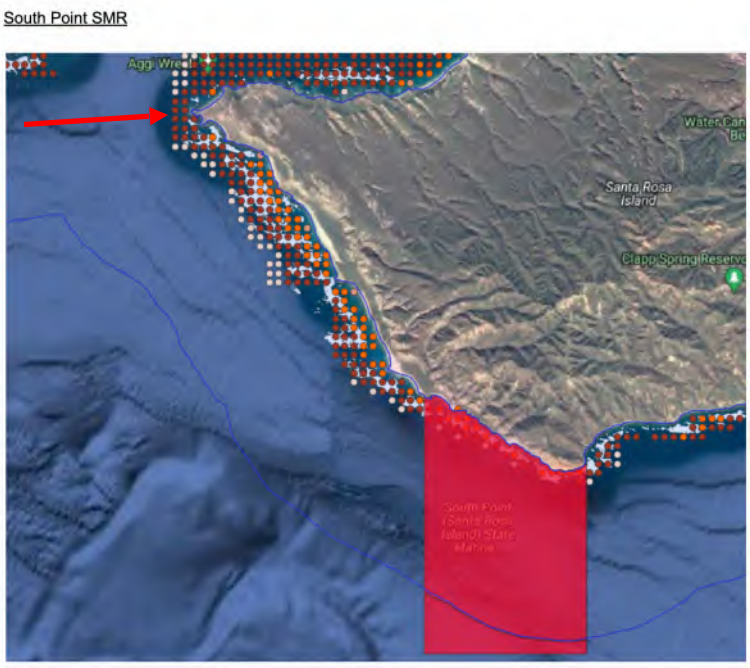

Figure 2. *Adapted from Petition 2023-33 MPA. The red polygon indicates the current South Point MPA on Santa Rosa Island. The red arrow indicates the point to which the MPA is being proposed to expand, 3nm out. Dark red circles indicate “high priority” zones.

Further, Giraldo-Ospina explicitly states that Santa Rosa has a concentration of high priority sites: “Sites in the south coast classified as high priority for giant kelp restoration are visibly clustered around San Miguel and Santa Rosa Islands.” This is clear from the map of Santa Rosa Island included on page 17 of the petition, which proposes to expand the current South Point MPA (red polygon) on the southwest side of Santa Rosa Island all the way to the west end of the island (red arrow; Figure 2). The dark red circles indicate “high priority” areas, which clearly constitute the majority of the proposed expansion area.

This is another egregious error that undermines the legitimacy and relevance of petition 2023-33MPA. The authors of this petition gathered thousands of signatures on a fundamentally flawed document, which is negligent at best.

Going forward

The intent of this letter is not to denigrate marine management and protection, nor any of the science cited in the petition, rather to expose the lack of foundation for this proposal. The errors identified here not only undermine the legitimacy of the petition itself and its signatures, but demonstrate a lack of regard for complete and objective due diligence for a potentially highly impactful initiative. My hope is that this previously ignored information will be considered in all discussions going forward.

Finally, I remind that the natural sciences, while crucial, are not the only factor to consider. There is also a robust body of social science research examining the effects of marine reserves on other tangible and intangible factors such as livelihoods, cultures (both indigenous and non-indigenous), healthy subsistence, and lifelong passions. These considerations should also be weighed heavily, yet were mostly ignored in this petition. Knowledge is power, and it is our duty to incorporate all of the relevant knowledge available to us in these significant decisions.

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From: Mitchell Conniff <[redacted]>
Sent: Tuesday, November 5, 2024 09:39 AM
To: FGC <FGC@fgc.ca.gov>
Subject: MRC November 6-7, 2024 Meeting Comments

Greetings,

Below is a letter from the Point Loma Commercial Fishing Alliance to be included as public comment for the November 6-7, 2024 meeting. The comment is in regards to Petition 23-33MPA. I am aware that the deadline for electronic submission has passed, I will be presenting this letter in person at the meeting, but I am sending an electronic copy as well for the administrative record.

Thank you,

Mitch Conniff

PLCFA

www.ptlomacfa.org

October 28, 2024

Marine Resources Committee

Natural Resources Headquarters Building

Second Floor

715 P Street

Sacramento, CA 95814

Greetings:

I am writing this letter to the council regarding petition (2023-33MPA) submitted by Environment California and Azul in November of 2023. Our organization has grave concerns regarding this petition and many of the assertions contained therein, specifically in regard to the proposed expansion of the Cabrillo MPA. Additionally, we feel the petition does not merit further consideration due to numerous inconsistencies with the 2016 MLPA Master Plan and a failure by the petition to reach the standards outlined by the MLPA Master Plan.

First, allow me to introduce our organization. The PLCFA is an organization of Commercial Fishers and Commercial Fish Businesses based in Point Loma. We were established to address issues that impact our businesses including state and federal regulations, land-use issues and environmental/ marine resource management. Our members are primarily made up of trap and hook & line fishers and they primarily fish the near shore waters around Point Loma, adjacent to the current Cabrillo MPA. As a group we take our environmental and marine stewardship responsibilities seriously and our members engage in zero bycatch fisheries, utilize carbon reducing CARB Tier 2 engines in their vessels as well as engage in various community based environmental events.

Because our group is Point Loma/ San Diego based, our members are specifically concerned with the impact of the proposed expansion of the Cabrillo MPA on their livelihoods. The proposed expansion would add an additional 15+ Square miles of zero-take MPA and represent a 500% increase of the existing MPA. This expansion would eliminate virtually all marine resource take for the historic fishing community of Point Loma and reduce near-shore fisheries available within the city of San Diego by roughly half. When combined with the existing restrictions in La Jolla it eliminates the viability of commercial fishing accessible from San Diego Bay and would eliminate the livelihoods of

dozens of families. The petition blithely infers that these fishers could pursue their livelihoods elsewhere, but that opportunity simply does not exist. This expansion of the current MPA would result in what amounts to a massive closure, impacting a large swath of historic commercial fishing grounds and the evidence used to justify such a drastic move is inadequate at best.

The Petition Is Not Aligned with the Process Laid out in the 2016 MLPA Master Plan

The 2016 MLPA Master Plan laid out a process for new petitions. That process had specific standards that included the following:

- a blue-ribbon scientific panel that looked at all aspects of successful MPA's with "results driven management" and proposed expansion
- "robust" stakeholder outreach including "advice, assistance and involvement of the participants in the various fisheries"
- "Preserve the diversity of recreational, educational, commercial and cultural uses"
- Include diverse types of reserve (no-take, restricted take and unrestricted take in compliance with current fishery management) to evaluate the effectiveness of different protection levels
- Contain an analysis of socio-economic impacts resulting from the proposed MPA

Petition 2023-33MPA fails to meet those standards in many specific ways.

The Petition does not follow the process for new petitions as described in the Master Plan

Petition 2023-33MPA fails to meet the process standards in many specific ways. The MLPA Master plan outlines a process in which the groups included in the Memos of Understanding (MOU), a Blue-Ribbon Scientific Panel, MLPA and CDFW staff and members of the Regional Stakeholder Group would work collaboratively to analyze and make proposals for changes to the MPA network. Nowhere in the Master Plan is there a process in which wide-ranging, narrow interest groups outside the above referenced groups create their own petitions. It is our contention that the petition contains numerous errors in process and did not go through the proper process outlined by the MLPA Master Plan and thus should be exempt from further consideration.

The science sed to justify the expansions is overly broad, data is misconstrued

and necessary scientific data is incomplete or absent altogether

The proposition lists seven MPA's, with a combined size of 76.2 square miles and spread over hundreds of miles, yet virtually every study mentioned deals exclusively with a small

number of areas in the Santa Barbara channel and Monterey Bay. To apply limited studies of a relatively small area, hundreds of miles away, broadly to a variety of marine environments with a unique set of issues is irresponsible and flies in the face of the Master Plan's promise to apply a science driven approach to MPA management and new petitions. The Cabrillo MPA, for example, faces a broad and unique set of possible challenges that could be relevant to kelp die off. Explanations and possible causation that deserve investigation are Tijuana River runoff, San Diego River runoff, possible contamination from the three adjacent Naval bases, Naval activities on the water adjacent to the proposed expansion, pesticide use in the creation of the Sunset Cliffs Natural Park, extreme marine wave events that occurred in recent years and corresponded with the kelp forest disappearance, a sewage treatment plant in the proposed MPA and storm runoff that is prevalent in the area. Each one of those factors deserve consideration for their impact on the health of the kelp forest, yet the petitioners completely ignore them. The biggest consideration the petitioners fail to investigate is the health of the kelp forest inside the existing MPA compared with kelp forest health adjacent to the MPA. Anecdotal observation would suggest that the kelp forest disappearance is in fact the same within the MPA and outside the MPA and at minimum a study should be completed to determine whether or not that is the case. All seven of these MPA expansions should be considered on a case-by-case basis, considering the unique factors each one faces and relying on data and analysis pertinent to each one.

The petition mentions several times that "overfishing" is contributing to kelp forest disappearance (despite conceding multiple times that the most generally accepted factor contributing to kelp forest die off is climate change and associated acidification). The petition does nothing to analyze the overall health of the various fisheries and fails to show any evidence that the areas in question are in fact "overfished". There is no analysis of what a healthy baseline stock for the various fisheries is, what the stock looks like currently and what it would look like if it were "overfished". The commercial fishing activity within the proposed Cabrillo MPA expansion are highly regulated, limited entry, zero by-catch fisheries. To imply that these fisheries are "overfished" is to imply that the current analyses of the state and federal government, PSMFC and all the scientists involved are wrong and their management practices, up to and including the present, have been inaccurate and detrimental to the marine ecosystem.

The one factor that virtually every scientist and stakeholder agrees is the driving force behind the declining health of our kelp forests are marine heatwave events, climate change and ocean acidification. Despite that shared belief the petitioners fail to address that in any meaningful way and their petition could in fact contribute to those areas. Any responsible, science-based petition would investigate the most likely cause and prescribe

solutions that would primarily deal with that cause. The only solution this petition realistically prescribes is no take of marine resources and absolutely no prescribed action to deal with the most likely culprit. Further, the petition does no analysis of the likely side-effects of their proposed solution. Closures of this magnitude will undoubtedly result in increased Vehicle Miles Travelled and Vessel Hours Travelled (VMT/VHT) as fishers are forced to travel beyond the closures in order to make a living. Considering the Cabrillo MPA, the only areas left for those fishers would be La Jolla or travelling offshore to San Clemente Island and the offshore banks. Best case scenario is that this expansion would result in a doubling of VHT as fishers travelled north to La Jolla and likely would send a significant number of fishers offshore increasing VHT tenfold. Additionally, the petition does nothing to address the likelihood that this closure would lead to a decrease in locally available seafood products forcing the market to rely on products from further away, increasing VMT to bring products to market. The expansions and resulting closures would undoubtedly lead to an increase in imported resources as well, leading to greater VMT/VHT and an outsourcing of the environmental impacts to places with poorer fisheries management practices than California. Any responsible petition would include an analysis of likely side effects, including a VMT/VHT analysis, and how those factor into the goals of the prescribed solutions.

<u>The Master Plan calls for MPA's to include diverse types of reserve (no-take, restricted take and unrestricted take in compliance with current fishery management) and diverse types of marine environment.</u>

San Diego County has multiple MPA and SMCA. They are all virtually identical in that they are all reef structure and contain a zero-take or highly limited take. There is zero diversity, and the petition proposes to massively expand that without proposing any efforts at diversity of ecosystem or take allowances. There is an opportunity to include areas of different take allowances to explore the differences between the management techniques, yet the petitioners ignore that notion altogether. To increase an MPA to this degree, and eliminate citizen access to Marine resources, without even exploring the results of different management techniques is inconsistent with the MLPA Master Plan.

This petition clearly does not meet the standards outlined in the MPA Master Plan, nor was the process for new petitions followed. The petitioners failed to meet the scientific standards, ignore altogether any notion of a collaborative process and fails to engage, in any meaningful way, to "preserve the diversity of recreational, educational, commercial and cultural uses". Because of the failure of the petitioners to even attempt to adhere to the process laid in the MLPA Master Plan the petition should be excluded from any further consideration.

The Socio-Economic Impact is ignored altogether, and the necessary impact and study were never completed

The socio-economic impact portion of their petition (which is required for the petition to be accepted) amounts to one small paragraph that includes no real scientific analysis. The petition includes seven expansions from San Diego hundreds of miles north to Santa Cruz yet sums up the economic impact as "minimal" and ridiculously suggests that the economic interests will somehow be enhanced. There are no economic figures included in the proposition, there is no analysis of the cultural, historical or social impacts, no mention of possible impacts on native communities and what little science that is included is irrelevant and misconstrued. Ms. Deehan of EC attended the San Diego MPA Collaborative in October and when pressed on the matter admitted that they didn't have any economic data and would be "very interested in seeing the numbers". That is an admission of their neglect to this area, a response removed from reality and an example of how out of touch the petitioners are.

The proposal would have a devastating socio-economic impact on the Point Loma Community

We have attached an Economic Impact Report that analyzes how this expansion would impact the livelihoods of Trap Fishers and the associated land-based businesses in Point Loma. The report indicates that the Trap Fishery contributes 51 jobs and $4.3 million to the local economy. This analysis does not include the tens of millions of dollars contributed from the sport fishing industry, the recreational spear-fishing industry, the tourism industry and many more. This data can be extrapolated out 6 more times for each expansion and economic impact quickly reaches into the hundreds of millions of dollars and hundreds (possibly thousands) of jobs. The petitioners appear to rely on the notion that all of these stakeholders can simply move a little bit and then enjoy the fruits of the expanded MPA's. The reality is that there is nowhere to move any longer and these businesses will be left with no choice but to go out of business. The Cabrillo MPA expansion in particular would remove the last available reef structure in southern San Diego County. The only other possible option would be to move north to La Jolla and that is not a realistic option as La Jolla is already impacted by the South La Jolla MPA and the remaining fishable area is too impacted at present; it certainly could not support the addition of the entire Point Loma Fishery. The Cabrillo expansion amounts to a closure of the last fishable area and would result in the loss of income to the members of the fishery. Additionally, it would wipe out the capital investment that each one of these businesses has made in licenses and vessels. It would result in the annual economic loss to the community of $4.3. All of these businesses are family operated, and many are multi-generational. These businesses are

the last vestiges of a once thriving commercial day boat fishery and are integral to the character of the community. This is a massive socio-economic impact on just one of the seven communities in the petition and that it is addressed in one small paragraph is devoid of reality and sensitivity to the needs of the stakeholders and their communities.

San Diego County and the City of San Diego would suffer an outsized impact from this petition

The San Diego County coastline is long and varied and home to millions of people. Already we are home to multiple MPA's, SCMA's and de-facto closures from military bases (Camp Pendleton and the Coronado Navy bases). The amount of coastline shut off to the take of marine resources far exceeds the 30% goal and the proposed expansion of the Cabrillo MPA would take away a significant piece of what is left. Furthermore, virtually all of the marine ecosystem deemed no-take under the MLPA is reef structure. If the Cabrillo expansion occurred a significant portion of the remaining reef structure would be removed and what is left is difficult to access due to the relative distance from available marinas, not to mention the increased impact on those areas due to greater use. If this expansion were approved the citizen and economic impact on access to marine resources in San Diego County would be outsized and place an undue burden on the citizenry.

The petitioner's dismissal of the required socio-economic impact analysis, and their disregard for the various commercial and economic interests should preclude this petition from further consideration.

Stakeholder outreach plainly and simply was not even attempted by the writers of this petition.

The MLPA Master Plan envisions a process for petitions in which the petitioners engage in robust stakeholder outreach and a collaborative effort in which the economic and cultural interests of various parties were considered. These petitioners have attempted nothing remotely close to that. Each one of the seven MPA expansions has a unique group of stakeholders with a variety of perspectives on what management of these ecosystems would look like. The MLPA Master Plan takes these varying perspectives into account and prescribes a process in which petitions would be written in collaboration with those varying interests and outreach would be made to address the concerns. The petitioners did none of that.

There are any number of stakeholders, notably commercial fishing interests. Most of these groups, like ours, maintain websites and social media accounts. Many of us are in regular contact with fisheries scientists and staff at institutions like Scripps and Cal Sea Grant and maintain contact with CDFW wardens and staff on a regular basis. We operate businesses

and hold public events on a regular basis. In essence, we are easy to find, yet no effort was made to find us in the process of crafting this petition. Before the petition was submitted there was no effort to reach out for feedback. After the petition was submitted, there was no outreach to get feedback on the submission. No effort was made whatsoever at collaboration or outside feedback.

In reference to the Cabrillo MPA expansion, the one attempt at outreach and public feedback occurred in October of this year at an MPA collaborative meeting, eleven months after the submission was made. Notably, the meeting was scheduled at 10 a.m. on the first Wednesday in October which just so happened to be the opening day of Lobster season. At the meeting Ms. Deehan of EC was present, and stakeholders were allowed an opportunity to address concerns. Following the meeting we presented our concerns in writing as well as presented economic analysis. To date no acknowledgement or response has been received, nor has there been any further attempt to address our concerns or collaborate. Quite clearly this was an attempt to check the stakeholder outreach box and that is the extent of any attempt at collaboration.

It is quite evident that this petition was written and submitted without any intention of engaging with stakeholders, addressing the varied economic and social interests and working collaboratively. The meager attempts that have been made were all after the fact and concerns have not been meaningfully addressed. Considering that this effort is not in alignment with the spirit, or the letter, of the MLPA Master plan this petition should be exempt from further consideration.

The process by which the commission accepted this petition is not in-line with the process laid out in the MLPA Master Plan.

The MLPA Master Plan speaks extensively of what the process for petitions of changes to the MPA network should look like. It provides for a process for that includes “blue-ribbon” scientific analysis, socio-economic analyses, stakeholder and community outreach and collaboration. Most importantly it describes a process that is to be addresses by the various state committee’s and their staffs, the groups under the MOU banner and the Regional Stakeholder Groups. What we got instead is a process that allowed any group to submit any petition, self-assess whether it met the criteria for consideration and allow it to be accepted at face value for consideration regardless of its merits or whether it met the criteria set out in the MLPA Master Plan. As a result, various stakeholder groups are left in the impossible position of defending and advocating against the wish list of any special interest group that has the resources to submit a petition. This is not what good regulation and good governance looks like. The citizens of the State of California, and the stakeholders beholden to regulation, were promised many things in the MLPA and decadal

reviews. We were promised science driven management of fisheries and resources. We were promised a review of the effectiveness and costs of MPA's, and application of the findings be considered in any proposed expansion of the network. We were promised a science driven appraisal of the various restrictions on MPA's and various applications of types of restrictions to analyze effectiveness. We were promised a collaborative effort, considering all of the needs of citizens. What we have instead is special interest groups taking over the writing of regulations and submitting a wish list of their narrow interests. Environment California and Azul have no business writing new regulations for all the citizens of California any more than the NRA does writing gun regulations. Their petition is a well written letter in support of an MPA expansion, but it is just that- one stakeholder's opinion of what the MPA network should look like. To elevate it to the level of consideration, without any barrier to entry beyond a one-page self-assessment, flies in the face of any notion of good governance or citizen regulation. The commission is abdicating its responsibilities under the MLPA, the MLPA Master Plan and any notion of good governance. Considering that the petition fails to meet the process standards outlined by the MLPA and MLPA Master Plan it should be exempt from further consideration.

In closing, it is the opinion of the Point Loma Commercial Fishing Alliance that petition 2023-33MPA should be exempt from any further consideration. We have come to this conclusion considering the following:

· The petition fails to meet the criteria outlined in the MLPA master plan.

· The science used to justify the petition is overly broad, misapplied and incomplete

· The required socio-economic impact analysis was ignored

· The process by which the petition was submitted in the first place violates the principles outlined in the MLPA and the MLPA Master Plan

Combining the procedural errors and incomplete or erroneous analysis included in the petition, we feel that the CDFG and MRC have no choice but to exclude the petition from any further consideration.

Respectfully,

Mitchell Conniff

Administrative Director, PLCFA

4904 N. Harbor Drive, Suite 102

San Diego, CA 92106

PLCFA Cabrillo MPA Expansion Annual Economic Impact Analysis

The purpose of this document is to illustrate the economic impact of the proposed Cabrillo MPA Expansion and the resultant closure of the commercial trap fishery. The analysis looks at economic impact specific to the Point Loma based commercial fishery, the land based commercial fish businesses and associated economic activity from secondary sources (restaurants, fish markets, etc.) for the period from 7/1/2023 to 6/30/2024. The analysis only includes activity from commercial trap fisheries (Spiny Lobster, Crab, Sheephead) and does not consider the other socio-economic impacts this expansion would have on the area (recreational fishing, tourism, other forms of commercial fishing which) which numbers into the tens of millions. The methodology used to determine these figures was gathered through census (direct communication and gathering of economic data from stakeholders), direct analysis of reporting to CDFW and PSMFC and business record analysis for land-based businesses.

The table below illustrates the direct dollar value impact of commercial trap fishery activity:

	Dollar Value
Direct sales from Commercial Trap Fishers*	
Lobster	$3,861,323.00
Crab	$101,563.00
Sheephead	$40,130.00
Commercial Fish Business Sales**	
Lobster	$186,579.00
Crab	$6,512.00
Sheephead	$7,693.00
Secondary Sales***	$140,884.00
Total	$4,344,684.00

**Sales made directly from fishers to wholesale buyers*

***Sales made by land-based commercial fish businesses to end users (retail sales and wholesale)*

The table below illustrates jobs directly derived for the fishery:

	Job Value
Jobs Supported by the Point Loma Commercial Trap Fishery	
Fishers	22
Deck hands	26
Land Based Jobs*	3
Total	51

**Jobs in businesses that are supported by the commercial trap fishery (restaurant employees, fish market employees, etc.) This figure was derived from analyzing the amount of sales these businesses did of the fishery products and applying industry standard hours of employment required for those sales. The resulting figure is the number of employees required.*

Other economic impacts:

Each fisher builds traps specific to the fishery they are involved in. The number of traps depends on the fishery, but spiny lobster for example, utilizes 300 traps per fisher. These traps are built utilizing local labor and products from local purveyors. While it is difficult to pinpoint the exact annual impact of this activity it conservatively reaches above 100K annually.

Commercial trap fishing is a limited entry fishery with set numbers of permits for each species. The permits are sold on the secondary market, fetching well in excess of 100K per permit. Additionally, each fisher uses a highly specialized vessel equipped specifically for trap fishing. There is a wide variation in the value of these vessels. Conservatively, each fisher has 150K invested in permits and vessel and many in excess of 500K. This expansion (particularly when coupled with the Santa Barbara region expansions) would render many of these permits and vessels value-less. There is no reasonable expectation that these businesses could simply fish elsewhere and the loss in value of these investments would be catastrophic to most.

There is a broader socio-economic impact associated with this MPA expansion. This expansion would effectively end consumptive take of marine resources for the Point Loma geographical area. This area has been the sight of consumptive, commercial and recreational take for centuries, beginning with reliance of first people's on the area for sustenance, immigration to the area for the sole purpose of commercial fish activities and modern day activities that include tourism and recreation industries that rely on the ability to utilize marine resources.

PT. LOMA
COMMERCIAL FISHING
ALLIANCE

www.ptlomacfa.org

October 28, 2024

Marine Resources Committee
Natural Resources Headquarters Building
Second Floor
715 P Street
Sacramento, CA 95814

Greetings:

I am writing this letter to the council regarding petition (2023-33MPA) submitted by Environment California and Azul in November of 2023. Our organization has grave concerns regarding this petition and many of the assertions contained therein, specifically in regard to the proposed expansion of the Cabrillo MPA. Additionally, we feel the petition does not merit further consideration due to numerous inconsistencies with the 2016 MLPA Master Plan and a failure by the petition to reach the standards outlined by the MLPA Master Plan.

First, allow me to introduce our organization. The PLCFA is an organization of Commercial Fishers and Commercial Fish Businesses based in Point Loma. We were established to address issues that impact our businesses including state and federal regulations, land-use issues and environmental/ marine resource management. Our members are primarily made up of trap and hook & line fishers and they primarily fish the near shore waters around Point Loma, adjacent to the current Cabrillo MPA. As a group we take our environmental and marine stewardship responsibilities seriously and our members engage in zero bycatch fisheries, utilize carbon reducing CARB Tier 2 engines in their vessels as well as engage in various community based environmental events.

Because our group is Point Loma/ San Diego based, our members are specifically concerned with the impact of the proposed expansion of the Cabrillo MPA on their livelihoods. The proposed expansion would add an additional 15+ Square miles of zero-take MPA and represent a 500% increase of the existing MPA. This expansion would eliminate virtually all marine resource take for the historic fishing community of Point Loma and reduce near-shore fisheries available within the city of San Diego by roughly half. When combined with the existing restrictions in La Jolla it eliminates the viability of commercial fishing accessible from San Diego Bay and would eliminate the livelihoods of dozens of families. The petition blithely infers that these fishers could pursue their livelihoods elsewhere, but that opportunity simply does not exist. This expansion of the current MPA would result in what amounts to a massive closure, impacting a large swath of historic commercial fishing grounds and the evidence used to justify such a drastic move is inadequate at best.

The Petition Is Not Aligned with the Process Laid out in the 2016 MLPA Master Plan

The 2016 MLPA Master Plan laid out a process for new petitions. That process had specific standards that included the following:

- a blue-ribbon scientific panel that looked at all aspects of successful MPA's with "results driven management" and proposed expansion
- "robust" stakeholder outreach including "advice, assistance and involvement of the participants in the various fisheries"
- "Preserve the diversity of recreational, educational, commercial and cultural uses"
- Include diverse types of reserve (no-take, restricted take and unrestricted take in compliance with current fishery management) to evaluate the effectiveness of different protection levels
- Contain an analysis of socio-economic impacts resulting from the proposed MPA

Petition 2023-33MPA fails to meet those standards in many specific ways.

The Petition does not follow the process for new petitions as described in the Master Plan

Petition 2023-33MPA fails to meet the process standards in many specific ways. The MLPA Master plan outlines a process in which the groups included in the Memos of Understanding (MOU), a Blue-Ribbon Scientific Panel, MLPA and CDFW staff and members of the Regional Stakeholder Group would work collaboratively to analyze and make proposals for changes to the MPA network. Nowhere in the Master Plan is there a process in which wide-ranging, narrow interest groups outside the above referenced groups create their own petitions. It is our contention that the petition contains numerous errors in process and did not go through the proper process outlined by the MLPA Master Plan and thus should be exempt from further consideration.

The science sed to justify the expansions is overly broad, data is misconstrued and necessary scientific data is incomplete or absent altogether

The proposition lists seven MPA's, with a combined size of 76.2 square miles and spread over hundreds of miles, yet virtually every study mentioned deals exclusively with a small number of areas in the Santa Barbara channel and Monterey Bay. To apply limited studies of a relatively small area, hundreds of miles away, broadly to a variety of marine environments with a unique set of issues is irresponsible and flies in the face of the Master Plan's promise to apply a science driven approach to MPA management and new petitions. The Cabrillo MPA, for example, faces a broad and unique set of possible challenges that could be relevant to kelp die off. Explanations and possible causation that deserve investigation are Tijuana River runoff, San Diego River runoff, possible contamination from the three adjacent Naval bases, Naval activities on the water adjacent to the proposed expansion, pesticide use in the creation of the Sunset Cliffs Natural Park, extreme marine wave events that occurred in recent years and corresponded with the kelp forest disappearance, a sewage treatment plant in the proposed MPA and storm runoff that is prevalent in the area. Each one of those factors deserve consideration for their impact on the health of the kelp forest, yet the petitioners completely ignore them. The biggest consideration the petitioners fail to investigate is the health of the kelp forest inside the existing MPA compared with kelp forest health

adjacent to the MPA. Anecdotal observation would suggest that the kelp forest disappearance is in fact the same within the MPA and outside the MPA and at minimum a study should be completed to determine whether or not that is the case. All seven of these MPA expansions should be considered on a case-by-case basis, considering the unique factors each one faces and relying on data and analysis pertinent to each one.

The petition mentions several times that "overfishing" is contributing to kelp forest disappearance (despite conceding multiple times that the most generally accepted factor contributing to kelp forest die off is climate change and associated acidification). The petition does nothing to analyze the overall health of the various fisheries and fails to show any evidence that the areas in question are in fact "overfished". There is no analysis of what a healthy baseline stock for the various fisheries is, what the stock looks like currently and what it would look like if it were "overfished". The commercial fishing activity within the proposed Cabrillo MPA expansion are highly regulated, limited entry, zero by-catch fisheries. To imply that these fisheries are "overfished" is to imply that the current analyses of the state and federal government, PSMFC and all the scientists involved are wrong and their management practices, up to and including the present, have been inaccurate and detrimental to the marine ecosystem.

The one factor that virtually every scientist and stakeholder agrees is the driving force behind the declining health of our kelp forests are marine heatwave events, climate change and ocean acidification. Despite that shared belief the petitioners fail to address that in any meaningful way and their petition could in fact contribute to those areas. Any responsible, science-based petition would investigate the most likely cause and prescribe solutions that would primarily deal with that cause. The only solution this petition realistically prescribes is no take of marine resources and absolutely no prescribed action to deal with the most likely culprit. Further, the petition does no analysis of the likely side-effects of their proposed solution. Closures of this magnitude will undoubtedly result in increased Vehicle Miles Travelled and Vessel Hours Travelled (VMT/VHT) as fishers are forced to travel beyond the closures in order to make a living. Considering the Cabrillo MPA, the only areas left for those fishers would be La Jolla or travelling offshore to San Clemente Island and the offshore banks. Best case scenario is that this expansion would result in a doubling of VHT as fishers travelled north to La Jolla and likely would send a significant number of fishers offshore increasing VHT tenfold. Additionally, the petition does nothing to address the likelihood that this closure would lead to a decrease in locally available seafood products forcing the market to rely on products from further away, increasing VMT to bring products to market. The expansions and resulting closures would undoubtedly lead to an increase in imported resources as well, leading to greater VMT/VHT and an outsourcing of the environmental impacts to places with poorer fisheries management practices than California. Any responsible petition would include an analysis of likely side effects, including a VMT/VHT analysis, and how those factor into the goals of the prescribed solutions.

<u>The Master Plan calls for MPA's to include diverse types of reserve (no-take, restricted take and unrestricted take in compliance with current fishery management) and diverse types of marine environment.</u>

San Diego County has multiple MPA and SMCA. They are all virtually identical in that they are all reef structure and contain a zero-take or highly limited take. There is zero diversity, and the petition proposes to massively expand that without proposing any efforts at diversity of ecosystem or take allowances. There is an opportunity to include areas of different take allowances to explore the

differences between the management techniques, yet the petitioners ignore that notion altogether. To increase an MPA to this degree, and eliminate citizen access to Marine resources, without even exploring the results of different management techniques is inconsistent with the MLPA Master Plan.

This petition clearly does not meet the standards outlined in the MPA Master Plan, nor was the process for new petitions followed. The petitioners failed to meet the scientific standards, ignore altogether any notion of a collaborative process and fails to engage, in any meaningful way, to "preserve the diversity of recreational, educational, commercial and cultural uses". Because of the failure of the petitioners to even attempt to adhere to the process laid in the MLPA Master Plan the petition should be excluded from any further consideration.

The Socio-Economic Impact is ignored altogether, and the necessary impact and study were never completed

The socio-economic impact portion of their petition (which is required for the petition to be accepted) amounts to one small paragraph that includes no real scientific analysis. The petition includes seven expansions from San Diego hundreds of miles north to Santa Cruz yet sums up the economic impact as "minimal" and ridiculously suggests that the economic interests will somehow be enhanced. There are no economic figures included in the proposition, there is no analysis of the cultural, historical or social impacts, no mention of possible impacts on native communities and what little science that is included is irrelevant and misconstrued. Ms. Deehan of EC attended the San Diego MPA Collaborative in October and when pressed on the matter admitted that they didn't have any economic data and would be "very interested in seeing the numbers". That is an admission of their neglect to this area, a response removed from reality and an example of how out of touch the petitioners are.

The proposal would have a devastating socio-economic impact on the Point Loma Community

We have attached an Economic Impact Report that analyzes how this expansion would impact the livelihoods of Trap Fishers and the associated land-based businesses in Point Loma. The report indicates that the Trap Fishery contributes 51 jobs and $4.3 million to the local economy. This analysis does not include the tens of millions of dollars contributed from the sport fishing industry, the recreational spear-fishing industry, the tourism industry and many more. This data can be extrapolated out 6 more times for each expansion and economic impact quickly reaches into the hundreds of millions of dollars and hundreds (possibly thousands) of jobs. The petitioners appear to rely on the notion that all of these stakeholders can simply move a little bit and then enjoy the fruits of the expanded MPA's. The reality is that there is nowhere to move any longer and these businesses will be left with no choice but to go out of business. The Cabrillo MPA expansion in particular would remove the last available reef structure in southern San Diego County. The only other possible option would be to move north to La Jolla and that is not a realistic option as La Jolla is already impacted by the South La Jolla MPA and the remaining fishable area is too impacted at present; it certainly could not support the addition of the entire Point Loma Fishery. The Cabrillo expansion amounts to a closure of the last fishable area and would result in the loss of income to the members of the fishery. Additionally, it would wipe out the capital investment that each one of these businesses has made in licenses and vessels. It would result in the annual economic loss to the community of $4.3. All of these businesses are family operated, and many are multi-generational. These businesses are the last vestiges of a once thriving commercial day boat fishery

and are integral to the character of the community. This is a massive socio-economic impact on just one of the seven communities in the petition and that it is addressed in one small paragraph is devoid of reality and sensitivity to the needs of the stakeholders and their communities.

San Diego County and the City of San Diego would suffer an outsized impact from this petition

The San Diego County coastline is long and varied and home to millions of people. Already we are home to multiple MPA's, SCMA's and de-facto closures from military bases (Camp Pendleton and the Coronado Navy bases). The amount of coastline shut off to the take of marine resources far exceeds the 30% goal and the proposed expansion of the Cabrillo MPA would take away a significant piece of what is left. Furthermore, virtually all of the marine ecosystem deemed no-take under the MLPA is reef structure. If the Cabrillo expansion occurred a significant portion of the remaining reef structure would be removed and what is left is difficult to access due to the relative distance from available marinas, not to mention the increased impact on those areas due to greater use. If this expansion were approved the citizen and economic impact on access to marine resources in San Diego County would be outsized and place an undue burden on the citizenry.

The petitioner's dismissal of the required socio-economic impact analysis, and their disregard for the various commercial and economic interests should preclude this petition from further consideration.

Stakeholder outreach plainly and simply was not even attempted by the writers of this petition.

The MLPA Master Plan envisions a process for petitions in which the petitioners engage in robust stakeholder outreach and a collaborative effort in which the economic and cultural interests of various parties were considered. These petitioners have attempted nothing remotely close to that. Each one of the seven MPA expansions has a unique group of stakeholders with a variety of perspectives on what management of these ecosystems would look like. The MLPA Master Plan takes these varying perspectives into account and prescribes a process in which petitions would be written in collaboration with those varying interests and outreach would be made to address the concerns. The petitioners did none of that.

There are any number of stakeholders, notably commercial fishing interests. Most of these groups, like ours, maintain websites and social media accounts. Many of us are in regular contact with fisheries scientists and staff at institutions like Scripps and Cal Sea Grant and maintain contact with CDFW wardens and staff on a regular basis. We operate businesses and hold public events on a regular basis. In essence, we are easy to find, yet no effort was made to find us in the process of crafting this petition. Before the petition was submitted there was no effort to reach out for feedback. After the petition was submitted, there was no outreach to get feedback on the submission. No effort was made whatsoever at collaboration or outside feedback.

In reference to the Cabrillo MPA expansion, the one attempt at outreach and public feedback occurred in October of this year at an MPA collaborative meeting, eleven months after the submission was made. Notably, the meeting was scheduled at 10 a.m. on the first Wednesday in October which just so happened to be the opening day of Lobster season. At the meeting Ms. Deehan of EC was present, and stakeholders were allowed an opportunity to address concerns. Following the meeting we presented our concerns in writing as well as presented economic

analysis. To date no acknowledgement or response has been received, nor has there been any further attempt to address our concerns or collaborate. Quite clearly this was an attempt to check the stakeholder outreach box and that is the extent of any attempt at collaboration.

It is quite evident that this petition was written and submitted without any intention of engaging with stakeholders, addressing the varied economic and social interests and working collaboratively. The meager attempts that have been made were all after the fact and concerns have not been meaningfully addressed. Considering that this effort is not in alignment with the spirit, or the letter, of the MLPA Master plan this petition should be exempt from further consideration.

The process by which the commission accepted this petition is not in-line with the process laid out in the MLPA Master Plan.

The MLPA Master Plan speaks extensively of what the process for petitions of changes to the MPA network should look like. It provides for a process for that includes "blue-ribbon" scientific analysis, socio-economic analyses, stakeholder and community outreach and collaboration. Most importantly it describes a process that is to be addresses by the various state committee's and their staffs, the groups under the MOU banner and the Regional Stakeholder Groups. What we got instead is a process that allowed any group to submit any petition, self-assess whether it met the criteria for consideration and allow it to be accepted at face value for consideration regardless of its merits or whether it met the criteria set out in the MLPA Master Plan. As a result, various stakeholder groups are left in the impossible position of defending and advocating against the wish list of any special interest group that has the resources to submit a petition. This is not what good regulation and good governance looks like. The citizens of the State of California, and the stakeholders beholden to regulation, were promised many things in the MLPA and decadal reviews. We were promised science driven management of fisheries and resources. We were promised a review of the effectiveness and costs of MPA's, and application of the findings be considered in any proposed expansion of the network. We were promised a science driven appraisal of the various restrictions on MPA's and various applications of types of restrictions to analyze effectiveness. We were promised a collaborative effort, considering all of the needs of citizens. What we have instead is special interest groups taking over the writing of regulations and submitting a wish list of their narrow interests. Environment California and Azul have no business writing new regulations for all the citizens of California any more than the NRA does writing gun regulations. Their petition is a well written letter in support of an MPA expansion, but it is just that- one stakeholder's opinion of what the MPA network should look like. To elevate it to the level of consideration, without any barrier to entry beyond a one-page self-assessment, flies in the face of any notion of good governance or citizen regulation. The commission is abdicating its responsibilities under the MLPA, the MLPA Master Plan and any notion of good governance. Considering that the petition fails to meet the process standards outlined by the MLPA and MLPA Master Plan it should be exempt from further consideration.

In closing, it is the opinion of the Point Loma Commercial Fishing Alliance that petition 2023-33MPA should be exempt from any further consideration. We have come to this conclusion considering the following:

- The petition fails to meet the criteria outlined in the MLPA master plan.
- The science used to justify the petition is overly broad, misapplied and incomplete
- The required socio-economic impact analysis was ignored

- The process by which the petition was submitted in the first place violates the principles outlined in the MLPA and the MLPA Master Plan

Combining the procedural errors and incomplete or erroneous analysis included in the petition, we feel that the CDFG and MRC have no choice but to exclude the petition from any further consideration.

Respectfully,

Mitchell Conniff
Administrative Director, PLCFA
4904 N. Harbor Drive, Suite 102
San Diego, CA 92106

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- Commercial trap fishing is a limited entry fishery with set numbers of permits for each species. The permits are sold on the secondary market, fetching well in excess of 100K per permit. Additionally, each fisher uses a highly specialized vessel equipped specifically for trap fishing. There is a wide variation in the value of these vessels. Conservatively, each fisher has 150K invested in permits and vessel and many in excess of 500K. This expansion (particularly when coupled with the Santa Barbara region expansions) would render many of these permits and vessels value-less. There is no reasonable expectation that these businesses could simply fish elsewhere and the loss in value of these investments would be catastrophic to most.
- There is a broader socio-economic impact associated with this MPA expansion. This expansion would effectively end consumptive take of marine resources for the Point Loma geographical area. This area has been the sight of consumptive, commercial and recreational take for centuries, beginning with reliance of first people's on the area for sustenance, immigration to the area for the sole purpose of commercial fish activities and modern day activities that include tourism and recreation industries that rely on the ability to utilize marine resources.

From: Branislav Radibratovic <[redacted]>
Sent: Wednesday, March 12, 2025 10:00 PM
To: FGC <FGC@fgc.ca.gov>
Subject: 2023-33MPA - Specifically Cabrillo SMR expansion

Providing you with perspective of an avid surf fisherman, living in San Diego. And focusing on the proposed Cabrillo SMR expansion. Hope you'll find this argument honest, logical and specific, not a political pamphlet or an industry opinion.

What does fishing mean to me? A way of life, metal therapy, physical exercise (at the age of 54 my running and gym days are over). I can honestly not imagine my life without fishing.

What I think about California Marine Protective areas? I love them as they are. Together with all the fishing regulations they provide sustainable fishing supply for me to enjoy. Without them, there would not be many fish around.

Why I am protesting Cabrillo SMR expansion? We all know: 10-20% of spots hold 80-90% of fish. In my case, surf-fishing for halibut and calico bass happens only in areas with reef and kelp. Currently in San Diego County most of those areas are already protected. An exception is Sunset Cliffs area north of the existing Cabrillo SMR. The proposed expansion would eliminate the last significant piece of fishable reef in San Diego county.

In reality, most of that area is not approachable on foot. So, if you would move the boundary of new proposed area 1.5 miles south of Swordfish Point (proposed north boundary), no objective surf fishermen would complain.

I hope you consider the above in your deliberation. Below, I am adding some thoughts, that are not mine, and I expect you have already heard those many times. Never the less, I agree with them, and wanted to repeat them.

Equity argument: most people cannot afford boats; many cannot pay to fish on commercial boats. What is left for them is shoreline.

Environmental impact of shoreline fishing is negligible:

- It covers sliver strip of water near the shore.
- No electronics is used to locate the fish.
- Fish is released most of the time. Since started shore fishing, I have released > 95% of my catch. Boat fishing creates waste, spearfishing creates waste too.

It is really a valid argument that opening shoreline to fishing in all protected area would not impact habitat recovery and would help to many of us that count on fishing to improve quality of our lives.

Brian Radibratovic, PhD

From: Curran, Jessica J CIV USN COMNAVREG SW SAN CA (USA)
<[redacted]>
Sent: Friday, August 15, 2025 10:39 AM
To: FGC <FGC@fgc.ca.gov>
Cc: Shuman, Craig@Wildlife <[redacted]>; Golumbfskie-Jones, Jason C CIV USN COMNAVREG SW SAN CA (USA) <[redacted]>; Palmer, Jessica N CIV USN COMNAVREG SW SAN CA (USA)
<[redacted]>
Subject: Department of Navy Opposition to Expansion of Cabrillo State Marine Reserve (Petition 2023-33MPA_AM1)

Hello,

Please see the attached letter regarding the subject petition to expand the Cabrillo State Marine Reserve.

V/r,

Jessica

Jessica Curran | Navy Region Southwest Marine Biologist

[redacted] office: 619.705.5405

[redacted]

[redacted] San Diego, CA 92132

DEPARTMENT OF THE NAVY
COMMANDER NAVY REGION SOUTHWEST
750 PACIFIC HIGHWAY
SAN DIEGO CA 92132-0058

IN REPLY REFER TO:

5090
Ser N40
August 13, 2025

Dr. Erika Zavaleta
California Fish and Game Commission
President
715 P Street, 16th Floor
Sacramento, CA 95814

Dear Dr. Zavaleta:

SUBJECT: DEPARTMENT OF NAVY OPPOSITION TO EXPANSION OF CABRILLO STATE MARINE RESERVE (PETITION 2023-33MPA_AM1)

This letter concerns petition 2023-33MPA_AM1, submitted by Ms. Laura Deehan, which would expand the Cabrillo State Marine Reserve (SMR) westward and northward by approximately 9.9 square miles. This expansion would encroach into Navy-owned waters adjacent to Naval Base Point Loma (Navy owns waters out to 300 yards from mean lower low water line) and into areas off the Point Loma peninsula that are crucial to Navy testing and training to meet mission requirements. I am writing to you in my capacity as the Department of Navy (DoN) Regional Environmental Coordinator; the DoN is opposed to the proposed expansion of the Cabrillo SMR.

In your upcoming evaluation of this petition, we ask that you carefully consider, consistent with the California Marine Life Protection Act (MLPA) framework, the potential impacts to military readiness. Should the Commission decide to proceed with granting this expansion, we would like to work with you on the SMR language to ensure that it does not subject any DoN or greater Department of Defense (DoD) activities to state regulation or inadvertently restrict current or future military readiness activities. Additionally, a Memorandum of Understanding between DoD and the State may be necessary to recognize continued military readiness activities while reflecting our mutual cooperative conservation goals.

I would like to reemphasize that DoN is opposed to the expansion of the Cabrillo SMR as it would adversely affect national defense considerations in the nearshore waters of Point Loma. These offshore waters are central features of a large network of land, air, and sea ranges that are vital to national security, including training, testing, research, and development. Designation or expansion of any such marine protected area in these waters will create future operational constraints, which would compromise DoD's ability to carry out its national defense mission.

My staff point of contact for this matter is Ms. Jessica Curran. She can be reached at [redacted]

[redacted]

Fleet Environmental Director
By direction
of the Commander

Copy to: Dr. Craig Shuman, CDFW

CALIFORNIA FISH AND GAME COMMISSION
RECEIVED 10/24/2025

Planning and Development
Lisa Plowman, Director
Jeff Wilson, Assistant Director
Elise Dale, Assistant Director

Dear Ms. Miller-Henson,

As Secretary of the Santa Barbara County Fish and Wildlife Commission, I am submitting the attached letter containing formal comments regarding the current Marine Protected Area (MPA) petitions under consideration. This letter reflects the collective position of the full Commission, which includes signatures from all nine appointed members, representing diverse stakeholder groups within Santa Barbara County.

Our Commission has thoroughly reviewed the details of Petitions 2023-14MPA, 2023-15MPA-AM, 2023-18MPA, 2023-28MPA-AM, 2023-29MPA-AM, and 2023-33MPA-AM. As outlined in the attached document, our positions and recommendations were developed through numerous public meetings and extensive local input, based on decades of combined experience in fish and wildlife matters across the county.

We appreciate the opportunity to contribute to the discussion surrounding MPA management and thank the California Fish and Game Commission for its continued commitment to public engagement and science-informed decision-making. Should you or your staff require any further clarification or supporting materials, please do not hesitate to contact me directly.

Sincerely,

Secretary, Santa Barbara County Fish and Wildlife Commission
Phone: 805-934-6297
Email: castrot@countyofsb.org

one COUNTY one FUTURE

Planning and Development
Lisa Plowman, Director
Jeff Wilson, Assistant Director
Elise Dale, Assistant Director

October 20, 2025

To: Ms. Melissa Miller-Henson

Executive Director

California Fish and Game Commission

715 "P" St. 16th Floor Sacramento, CA 95814

From: Santa Barbara County Fish and Wildlife Commission

c/o Santa Barbara County Planning and Development

624 W. Foster Road. Santa Maria, CA 93455

Dear Ms. Miller-Henson,

The Santa Barbara Fish and Wildlife Commission is a county commission consisting of nine members appointed by the Santa Barbara County Board of Supervisors. The commission, among other things, aids the county board on active fish and wildlife related matters with our combined hundreds of years of local fish and wildlife experience between our fellow commissioners.

This comment letter serves to provide our input regarding the current MPA petitions requesting changes be made to the MPA network specifically around the Santa Barbara Channel and Channel Islands. We feel our county fish and wildlife commission's input on the MPA petition process may prove especially valuable due to our local experiences and local understanding of the ecosystem, as well as our variety of backgrounds, consisting of non-consumptive users, fishermen, and biological scientists. This letter serves as a culmination of many public meetings learning about the MPA petitions that have been proposed as well as fellow commissioners observations being involved in local discussions about the petitions outside of official meetings to gauge public input and sentiment. This county commission appreciates the opportunity to provide the following feedback on these local MPA petitions.

Petition2023-14MPA

Petition2023-14MPA requests changes to several State Marine Conservation Areas (SMCAs), one of which, the Naples SMCA, is within the County. Generally, SMCAs already allow for some form of limited take, this petition requests adding commercial take of sea urchins to the allowable methods list inside of the SMCAs in the petition.

Sea urchins are primarily taken commercially and are a core part of the County's commercial fishing sector. Urchins, and their tendency to graze on the root systems of local kelp forests, have recently posed problems with kelp rebuilding efforts after El Ninos in the 2010's reduced kelp forest size noticeably. Local fishermen cite urchin barrens inside of MPAs that cannot be touched and continue to spread to the surrounding area with no possible measures existing to remove the main mass from the MPA.

Recommendation: While cases may vary across different MPAs and counties, for the above reasons, this commission finds it reasonable to allow the proposed change and supports the petition for allowed sea urchin take at the Naples SMCA to help facilitate kelp forest regrowth. We kindly recommend this change be allowed at Naples.

Petition2023-15MPA-AM

Petition2023-15MPA requests changes to three joint State and Federal Marine Reserves (SMRs/FMRs), all of which, the Footprint SMR/FMR, Gull Island SMR/FMR, and Santa Barbara Island SMR/FMR, border the county. These MPAs, and others around the Channel Islands, are unique to the State network in that they were established through a joint process between State and Federal agencies before the coastal MLPA under the CINMS. The resulting network was a series of state and federal MPAs at the Channel Islands that covers federal water up to 6 nautical miles from the islands. All SMRs and FMRs the petition addresses are currently no-take areas.

The petition requests changing these areas to joint State and Federal Marine Conservation Areas, SMCAs and FMCAs, and proposes several options that allow for various forms of the limited take of pelagic finfish or highly migratory species recreationally and commercially. In addition, the petition provides possible sub-divisions of the Gull Island and Santa Barbara Island State MPAs into nearshore and offshore areas, similar to other State MPAs elsewhere. The primary arguments of the petition are the minimal impact pelagic fishing effort has on the local MPA ecosystem and goals, and the support of pelagic areas in the State's MPA Master Plans and other documents seen in the broader coastal network but apparent lack thereof in the pre-Master Plan Channel Islands network.

Several members of this commission were part of the original process at the Channel Islands over 20 years ago and the southern MLPA in 2012. We all understand that the primary factor for the MPA implementation at these island sites offshore was to originally protect species like groundfish and structure groundfish live on to rebuild overfished populations at the time. While MPA goals have changed since the 2000s, this fact is still key to understanding why these areas are the way they are today.

Pelagic fish, and the methods used to target them, are predominantly fished near the surface of the water column, offshore, and off the bottom. This type of effort avoids the nearshore or offshore rocky-bottom ecosystems local nearshore species or groundfish are predominantly found in. In addition, the pelagic species that would be taken in these areas are significantly less affected by these MPAs and the broader network due to them being very mobile, their relative abundance is not concentrated in an MPA compared to out of one. The MPA Master Plans from 2008 and 2016 discuss this, citing the lower effects that MPAs have on pelagic species and the need to have areas that allow for some form of limited pelagic take, aligning the petitioner's arguments with the Master Plans. In addition, the petition does point out an imbalance in pelagic allowed areas between the MLPA's coastal implementation phases that came after the first MPA Master Plan in 2008 and the Channel Islands Network implementation that came well before the first MPA Master Plan in the early 2000's.

Outside the Channel Islands, in the coastal network that came afterwards, most MPAs that overlap deeper waters pelagic species pass through allow for some form of take of pelagic finfish. Observing the Channel Islands, we can see a significantly higher overlap with offshore waters, namely due to the federal sections

of these MPAs. However, even with this significantly larger offshore encroachment, almost no pelagic allowed areas exist. Whether this difference was due to the Channel Islands process pre-dating the coastal process and the 2008 MPA Master Plan's outlook on pelagic species is up to debate, but the fact of the matter is the difference is noticeably present, and for no abundantly clear reason.

Recommendation: The subject of island MPAs allowing pelagic take, specifically these three, has been raised by the public several times prior at our meetings, and local MPA collaboratives our commissioners have attended. For these reasons, and those above, this commission supports this petition, and believes it should be accepted by the State Commission through one of the proposed "options" the petition lists that best fits the existing network.

Petition2023-18MPA

Petition2023-18MPA requests multiple changes to a variety of coastal and island MPAs within the county. Some of the changes are listed as "non-regulatory requests" by the Department while others make modifications to, or remove existing MPAs. All but one of the MPAs in the petition are within the County, they are the: Vandenberg SMR, Point Conception SMR, Kashtayit SMCA, Campus Point SMCA, and San Miguel Island Special Closure.

Of the changes, the proposal at Vandenberg SMR and San Miguel Island Special Closure are the two MPAs that would have the largest regulatory changes. At Vandenberg the petition requests a coastal SMCA be made that allows for only shore-based fishing by hook-and-line, citing an equity and enforcement concern between military base personnel and members of the public. Because military personnel are allowed to fish the shore of the SMR while members of the public outside the base cannot due to the SMR, both the equity and enforcement concerns are certainly present and should be addressed. The proposed solution of a shore based SMCA does seem to be a reasonable way to correct this problem.

At San Miguel and Anacapa (outside of the county) the petition requests the Special Closure(s) be removed in its entirety citing its original goal being to reduce disturbance to pinniped rookeries and seabird populations has been far exceeded and better methods have been developed on-site.

The remaining MPA requests are non-regulatory and include supported use for M2 radar monitoring at Point Conception SMR for better enforcement, a refined regulatory language for allowances at the Kashtayit SMCA, and using the color red instead of purple for distinguishing the Campus Point No-Take SMCA.

Recommendation: This commission finds all of the above modifications and requests more than reasonable, gives its support for them all. We recommend the FGC accept the petition in full.

Petition2023-28MPA-AM

Petition2023-28MPA requests to create a new MPA around Point Sal, designating it the Point Sal SMCA or a Tribally named SMCA, and listing it as a limited-take area with only an exception of a shore based finfish take allowance and tribal take allowance. The petitions driving reasons for the new MPA are that the area is ecologically significant in terms of local upwelling and relative to the landings that occur there the area is a small fraction of the State's commercial output, under 1%. The petition also cites tribal inclusivity and significance in the area as justification for its closure.

While the petition is accurate in the broader economic analysis, locally Point Sal is a very important area for both recreational and commercial operations out of Port San Luis (Avila), the local port to Point Sal.

Point Sal, and its surrounding waters, are essential for year-round and seasonal fisheries such as salmon, dungeness crab, groundfish, and halibut. This new MPA in addition to the existing network will significantly affect the local port's economic health due to Point Sal's being a significant fishing area for local commercial and recreational anglers. Namely, crab and groundfish boats out of Avila would be significantly affected by this change as per their testimony, over half their time is spent in the proposed area.

Recommendation: While the shore-based allowance is a welcome allowance, we believe this is still too costly on the local economy of Avila and its recreational and commercial fisheries to warrant its allowance. For this reason this commission has decided to be against this petition, and recommends the FGC deny it.

Petition2023-29MPA-AM

Petition2023-29MPA requests to create a new MPA around Carpinteria, designating it the Mishopshno SMCA. The petition asks to make take regulations for the area the same as the Point Sal petition, with an allowance of shore fishing of finfish and a tribal exception for those in the federally recognized Santa Ynez Band of Chumash Indians which would be able to still use tribal take methods inside of the SMCA. The proposed area's size was reduced when the petition was amended to include the shore allowance.

The petition's primary reasons for this MPA include this tribal allowance and co-management model along with the added reasons of MPA connectivity, spacing, and protecting juvenile great white shark nursery grounds. While this commission does agree that Tribal inclusion is a warranted piece of MPA and coastal management, we do not believe that a new MPA altogether is needed to accomplish this. MPAs across the coast can be modified themselves to allow for such co-management but the existing area offshore Carpinteria is currently open to the entire public, Tribes included.

Carpinteria's coast has been the subject of several MPA proposals over the years. During the MLPA the same area was looked into but was ultimately not selected, trading off two other SMCAs instead of establishing one at Carpinteria in a separate MLPA planning alternative. In 2020 this commission also followed a similar MPA petition in a smaller area to the current proposal that similarly advocated to protect juvenile great white sharks. That petition was ultimately rejected by CDFW due to the larger footprint white sharks, a pelagic species, covered relative to the coast of Carpinteria/California in general, and we believe the same reasons from 2020 are still relevant in 2024 against the petitioner's arguments.

Additionally, it should be said that Carpinteria Reef, the reef that would be almost entirely inside the MPA, is one of the last open reef areas to the fishing community. Removing this reef will see the end of local fishing access to coastal reefs, forcing anglers to travel further, coastally or to the islands, and burning more fuel to have similar opportunities. Commercial members of this commission are concerned for the areas of the proposed MPA that overlap the state halibut trawl grounds. These grounds are minimal already and have been reduced continuously over the years. This proposed MPA would cut a significant portion of the current open trawl area harming this unique fishery that the commission has repeatedly stated is well managed. Lastly, there is an overwhelming amount of public outcry on this petition specifically citing lost access to one of the last open reefs on the coast by boat and especially kayak.

Recommendation: For all of these reasons this commission has decided to be against this petition, and requests the FGC deny it.

Petition2023-33MPA-AM

Petition2023-33MPA requests for multiple MPA expansions and one MPA creation throughout the California coast, of which, three MPA expansions are within Santa Barbara at the Point Conception SMR, the Gull Island SMR, and the South Point SMR. Of the three expansions the South Point SMR expansion would be the largest, including all of the southwest side of Santa Rosa Island in the MPA and adding over 27.5 square miles to the SMR. This is followed by Point Conception SMR's expansion eastward adding over 14 more square miles to the SMR, and lastly by Gull Island SMR's smaller northward expansion adding over 1.5 square miles to the closure.

The driving force behind Petition2023-33MPA is kelp restoration. The petition claims growing these MPAs would allow for the now protected areas to rebuild their kelp forests under no fishing pressure which would also mean less traffic in general. Kelp restoration is a very important subject in Santa Barbara County as several sectors, consumptive and non-consumptive, depend on healthy levels of kelp for commercial and recreational use. That being said, this commission believes removing fishing access in these areas will do little to nothing to promote kelp regrowth and more-likely prevent kelp rebuilding projects (seeding, artificial reefs, and sea urchin removal programs) from directly assisting in the rebuilding of our kelp forests. Besides fishing, factors such as water quality, water temperature, storms, and swell need to be considered as larger drivers of kelp loss, not larger closed areas. There are several active projects locally and statewide dedicated to kelp rebuilding, none of which remove fishing access from areas in order to rebuild the kelp because there is no reason to. We believe the same applies in the areas this petition looks at. There are no reasons these specific areas need a fishing closure to help kelp forests regrow; therefore, there is no justification for their expansion, especially into waters predominantly too deep for kelp to root and grow. Similar to petition 29, there has been specific public outcry against this petition for all of the above reasons at MPA collaboratives, and public meetings.

Recommendation: For these reasons this commission has decided to be against this petition and recommends the FGC deny it.

Signed, the Santa Barbara County Fish and Wildlife Commission,

Phil Beguhl (Chair) - 2nd District

Scott Cooper (Vice Chair) - 3rd District

Frank Abatemarco - 1st District

Chad Thomas - 4th District

David Morgan - 5th District

Jeff Landers - Santa Maria Sportsman's Association Representative

Whitney Uyeda - Santa Barbara Sport Fishing Representative

Jeff Maassen - Commercial Fisherman Representative

Steve Adam - Santa Ynez Valley Pistol and Bow Club Representative

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Ms. Melissa Miller-Henson Executive
Director
California Fish and Game Commission

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From: Matthew Bond <[redacted]>
Sent: Monday, January 19, 2026 8:11 AM
To: FGC <FGC@fgc.ca.gov>
Cc: Tonie Bangos <[redacted]>; Devin O'Dea <[redacted]>; Christopher Killen <[redacted]>
Subject: Comment Regarding MPA Petitions for the February 11-12, 2026 Commission Meeting

Dear members and staff of the California Fish and Game Commission,

Please find attached our letter representing the voice of a broad coalition of individuals, organizations, businesses, and scientists with opinions and related rationale on each of the Bin 2 MPA petitions.

Thank you for your time and service,

Matt Bond
Allwaters Protection and Access Coalition

January 2026
Coalition Letter on Bin 2 MPA Petitions

January 2026
Coalition Letter on Bin 2 MPA Petitions

To the California Fish and Game Commission (FGC) and Department of Fish and Wildlife (CDFW),

This letter serves as a joint comment, representing a mass consensus reached by the undersigned groups and individuals representing tens of thousands of stakeholders from recreational, commercial, and scientific backgrounds on all of the Bin 2 MPA petitions. While some of us may submit our own individual comments in addition, or have already, we would like the FGC and CDFW to understand that this diverse community of statewide stakeholders are all united regarding the following comments on these petitions. We all would like to share our common beliefs outlined in the below letter to you as this united group. With the adaptive management process of our MPA network underway, we ask to please take the below input deeply into account when determining the outcomes of the following bin 2 MPA petitions.

Petition2023-14MPA – Accept

Petition 14 proposes the allowance of commercial urchin take inside of a group of SMCAs that already have allowable limited-take restrictions, with the exception of one no-take SMCA. This petition has not been amended since submission. We believe this petition's rationale to have enough merit to warrant its acceptance in part or in full.

At a time where there are mass interests in helping kelp forests regrow, allowing sea urchin take in areas already partially open to other fisheries is a minimally invasive step we can take, especially in SMCAs that already allow some forms of take. By being allowed to harvest and remove sea urchins that are currently protected in these areas, we allow the kelp the chance to grow back. While we cannot locally control global factors affecting kelp growth such as water temperature or swell meaningfully, we can still promote regrowth of kelp by being allowed to at least remove one of kelp's largest predators, the sea urchin.

Per SeaSketch, we may accept this petition whilst also maintaining the same relative level of protection (LOP) in six of the eight total SMCAs in the proposal: Double Cone, Salt Point, Stewarts Point, Sea Lion Cove, Naples, and Anacapa. This means any MPA connectivity benefits will be maintained as is in the current network. For the Point Dume and Point Vicente SMCAs, while the MPA LOP does drop, we believe the allowance of sea urchin take in these SMCAs will greatly benefit the entire area through restored kelp growth, and additional workable area for local urchin divers. However, we understand if a loss in connectivity for these two areas is something the commission is against, that just these two MPA be excluded. At a minimum, this petition should be granted for the SMCAs where the network as a whole does not lose any existing connectivity benefits.

January 2026
Coalition Letter on Bin 2 MPA Petitions

Petition2023-15MPA-AM2 – Accept

Petition 15 proposes allowing limited take of pelagic or highly migratory species at three joint State-Federal MPAs at the Channel Islands. The petition was amended twice, and proposes several possible options for limited-take of pelagic finfish or highly migratory species (HMS). The petition brings forward three gear types: hook-and-line, spear, and harpoon swordfish; additionally, it includes possible nearshore-offshore MPA options to mitigate bycatch in the more biodiverse nearshore areas and maintain high MPA LOPs for network connectivity. While it is up to the commission and department to determine what the best combination of choices may be, we all believe this petition should be accepted under a preferred option that retains a high LOP for these MPAs, maintaining existing ecosystem level protection/connectivity, that consists of an offshore SMCA and nearshore SMCA or SMR.

The petition is founded on a longstanding scientific basis and MLPA goals that the MPAs in our network are primarily intended to benefit our nearshore waters and non-pelagic species the most. This has been established since the MLPA MPA Master Plan (MMP) in 2008 where MPA benefits to pelagic species were explained to be weak at best, rather focusing the network toward non-pelagic species that benefit the most from MPAs per the MMP documents. This led to the coastal network outside of the Islands process allowing some form of pelagic access in over 40% of our existing MPAs, and no-take in the remaining 60%. Of the currently 60% of MPAs that are no-take, most areas are nearshore, cover predominantly shallow water, and would not provide much pelagic benefits if they were even partially open. The approximately remaining 40% of the network that is limited take, most of which is pelagic take, are set in areas where pelagic effort is reasonable enough to avoid any nearshore or bottom interactions, or does not allow hook-and-line, just spear.

This sets a clear precedent, based on the science, that we can allow reasonable pelagic fishing access in the areas where it makes sense to allow it, and fully protect areas where pelagic fishing is less realistic or interferes too much with nearshore areas. This precedent was again reiterated in the 2016 MMP in a regional objective that explicitly states to allow for forms of pelagic take across the network in all bioregions, something the coastal MPA phases included but the Channel Islands network specifically lacks. The commission then upheld this mass precedent in 2020 when it denied a petition to create an MPA for white sharks, citing specifically that MPAs in our network are not meant for highly migratory or pelagic species, they are for ecosystem level protections, which can still exist in pelagic allowed MPAs. We simply ask that this precedent continue to be upheld for the MPAs that can reasonably allow for pelagic or HMS take and network maintain connectivity. This has no better use case to be applied than at the Channel Islands. That region of the network was designated prior to all of the primary MPA guiding documents, covers mostly offshore waters, and provides the least pelagic access of all the MPA designation regions, a clear case of adaptive management.

Because the Channel Islands MPA network is the oldest region in the modern network, designated now over 20 years ago in 2002, it pre-dates the coastal MLPA implementation phases, the MLPA LOP frameworks, both MPA Master Plans, and all other frameworks and processes that established this pelagic allowance elsewhere during the 4 coastal phases. In the early 2000s during the Channel Islands process, the primary concerns driving the island MPAs involved groundfish species and recovering their overfished populations. This fact was a main driver in justifying the federal sections of the island MPAs, as the federal expansions cover deep water rocky bottom or reefs where groundfish frequent. Today, federal outlooks of no-take MPAs are almost non-existent. With the exception of the Channel Islands, federal protected areas off the west coast only protect non-pelagic bottom dwelling species (groundfish), and allow pelagic fishing access, aligning exactly to what the petition proposes.

We believe this to be an adaptive management case of modernizing MPAs that predate all guidance documents, and updating them to better align to these well established frameworks in the same way the rest of the network already has. In the case of pelagic access, this shift is clearly seen as the more-modern coastal MPAs allow significantly more pelagics access (40%), compared to the Channel Islands MPAs (3%). In the case of The Footprint MPA specifically, it is the only MPA in the State that is disconnected from land, is entirely deeper than 50m, and has no limited take allowance for pelagics. The Channel Islands MPAs as a whole are justifiably the most equipped to handle pelagic allowance in them, especially offshore, due to the depths covered allowing a massive buffer between pelagic fisheries in the mid to upper water column and non-pelagic fisheries on the bottom. Any take beyond State waters in the federal portions of these MPAs would affect the nearshore region even less than already existing State pelagic allowances present in the current coastal network. Most of the federal portions of these MPAs are well over 1000 feet in depth, and in some cases over 4000 ft in depth.

Per SeaSketch, LOP tiers from the original MLPA state pelagic take maintains MPA connectivity due to the take allowance’s high LOP in offshore waters. At the islands specifically this is seen as only allowing hook-and-line take in waters deeper than 50 meters (164ft), with harpoon or spear gears allowed anywhere due to their high selectivity and lack of any bycatch. A high LOP can be maintained and connectivity still upheld if the petition is accepted with the proposed “nearshore” SMCAs or SMRs at Gull Island and Santa Barbara Island that restrict nearshore hook-and-line, along with any SMCA option in The Footprint and the proposed “offshore” sections of Gull Island and Santa Barbara Island. With all of this precedent and SeaSketch LOP information in mind we believe there is more than sufficient rationale, federal and state evidence, and MLPA/MMP support to allow for this adaptive management change.

Petition2023-16MPA – Modify then Accept

Petition 16 requests the allowance of the commercial take of salmon by troll in two SMRs in the northern bioregion, Bodega Head and Stewarts Point, making them SMCAs. The petition argues similarly to petition 15, on the lack of interference allowed pelagic access would cause. While we do stand by this petition's core arguments, we also believe that this allowance should be accompanied with a similar recreational allowance of salmon by troll in these MPAs too.

Recreationally or commercially the salmon troll fisheries mirror each other with similar gear use, lack of gear conflicts with unintended species, and lack of interactions with the bottom environment due to the nature of the troll gear always moving and being in the upper section of the water column. There are no reasons to not allow recreational troll access in these areas as well because of this. This is further supported by the bordering and nearby pelagic allowed SMCAs in the area giving both recreational and commercial allowance for salmon trolling. A joint allowance would also help to solve any possible confusion on the water of only a specific group being able to troll in the area while others may not, reducing any possible enforcement problems.

Per SeaSketch, the LOPs of these areas as SMCAs allowing any kind of salmon trolling retains existing MPA protections for their respective connectivity benefits. While these MPAs in the northern bioregion are more-modern of MPAs, coming after initial MMPs, MPA frameworks, and processes, unlike those in Petition 15, we see this change allowance as reasonable for consideration. With the recreational troll allowance added to this petition, we see its arguments as more equitable and in-line with existing MPAs in the surrounding northern bioregion of the network.

Petition2023-18MPA – Accept

Petition 18 makes several requests across the Santa Barbara Channel to 6 MPAs in total, and some requests were non-regulatory requests. We support all of the prescribed changes in the petition to better regulatory language, provide better MPA regulation clarity through color corrections, and to make fine tune changes to better the overall MPA network. Of all the requests in petition 18, the most controversial is the creation of a shore region SMCA in the Vandenburg SMR. This would be called the Vandenburg SMCA and would allow shoretake of finfish. This case of a shore allowance is a unique case for our MPA network, as the bordering military base with the SMR allows shore fishing already anyway. This shoretake allowance would clear up any enforcement confusion by the public for the SMR and give some access back to the public in general. We believe this petition's regulatory and non-regulatory requests should be accepted in full.

Petition2023-19MPA – Reject or Modify

Petition 19 requests the creation of a tribal co-managed SMCA at Morro Bay that only allows for the recreational take of finfish and invertebrates except rock scallops and mussels by hand harvest, also including a tribal take exemption within the SMCA. We believe the petition should be either rejected or amended to allow for more general recreational and commercial take as well.

We believe tribal co-management to be a great step forward in managing California's waters and should be present in all MPAs; however, creating a new MPA that restricts exclusively commercial groups and most recreational fishing access from such an essential area should not be warranted. The commercial blocks overlapping the proposed SMCA account for 6.2% of Morro Bay's landing revenue alone. More specifically, these blocks represent 25% of the area's squid landings, 8.8% of the groundfish landings, and 15% of the area's salmon landings, per the MFDE. While not an exact correlation, recreational access in the area is likely comparable (with the exception of squid) and will likely be equally affected in the MPA regions, as this petition affects all fisheries not involving direct hand harvesting.

Additionally, there is concern that the proposed offshore wind energy program has its proposed electrical lines connecting the Morro Bay power bank stations to the offshore array crossing through the SMCA. If passed, this would need to be addressed and an additional allowance added.

Petition2023-20MPA – Reject Nearshore and Clarify/Accept Offshore

Petition 20 requests changes to the MPA cluster, the nearshore and offshore MPAs, at Point Buchon. The petition requests the offshore SMCA allow the hand harvest of finfish and invertebrates except rock scallops and mussels, allow the maintenance of artificial structures under the correct permits, and provide a tribal take exemption for federally recognized tribes. However, it is unclear if these requested allowances to the offshore SMCA at point Buchon are replacing or adding to existing recreational and commercial allowance for the take of albacore and salmon. Pursuant to the allowances being additive and not replacing the existing take allowances in the offshore MPA we support the request for the offshore region of the MPA cluster to have the added take allowances. This example in the offshore region is a clear example of how tribal components can be added to the existing network, not requiring creation of more MPAs to involve tribes.

Regarding the petitioner's request to the nearshore SMR being expanded, we believe this request should be rejected. The expansion of only the SMR section of the Point Buchon nearshore/offshore cluster would unnecessarily remove all access from the added area. The justification for this addition comes from MPA Collaborative meetings citing enforcement concerns, stating that moving the northern boundary to the physical

point will provide a better reference for enforcement. The core reason the existing MPA does not go to the physical point on land is because the nearest whole decimal degree value was used as the northern boundary instead, following MLPA guidelines. This usage of a round Lat/Long number for an MPA that does not experience much shore fishing opportunity is supported by the MLPA MPA design criteria to explicitly help, not hurt, enforcement. The current northern boundary gives those fishing beyond shore an easy to understand GPS reference point to know where the boundary is. Additionally, expanding only the nearshore SMR may cause further enforcement problems with the offshore SMCA remaining its original size. The expansion of the nearshore only leads to a case of an unevenly sized MPA in the nearshore and offshore regions.

Petition2023-21MPA – Accept

Petition 21 requests the Pyramid Point SMCA in the northern bioregion be modified to remove its existing recreational allowances for take of surf smelt and give additional tribal exemption to the Tolowa Dee-ni' Nation on top of its existing tribal exemption. The petition also requests the border of the MPA be moved south to the true CA-OR state boundary line, slightly shrinking the MPA.

While this petition does remove some recreational access to take surf smelt, that access was already relatively limited and small scale. The change to the border to shrink the SMCA to align to the actual state border clears up any possible confusion or issues the overlap currently causes. Overall we are supportive of this change, and addition of another Tribal component to the existing Pyramid Point SMCA.

Petition2023-23MPA-AM1 – Reject or Modify

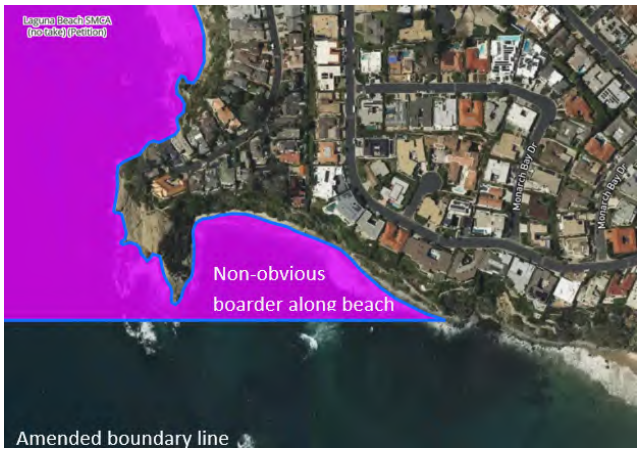
Petition 23 requests multiple changes to 3 existing SMCAs, the Carmel Bay SMCA, Pacific Grove SMCA, and the Edward F. Ricketts SMCA, requesting all three SMCAs become closed to take of finfish during “active kelp restoration permits” and to create a new SMR at Tankers Reef, the area of this SMR was reduced during amendments.

We believe the petition has reasonable goals, restoring kelp, but goes about this in the incorrect way. Regarding the specific MPA changes requested, we believe this petition should be rejected or modified. Acceptance would come at the additional loss of recreational fishing access to these SMCAs. Fishing has no significant impact on kelp restoration compared to environmental factors (e.g., water quality, water temperature, swell) and would be closed when a “kelp restoration permit is active.” This also raises further enforcement concerns as regulations would effectively be in constant flux depending if a permit is active or not, there would need to be new paths created to inform all on the water when said permit is active or not. Additionally, existing restoration efforts at Tankers Reef would immediately stop if an SMR is designated there for the lack of allowable take inside of an SMR, even the reduced in size SMR.

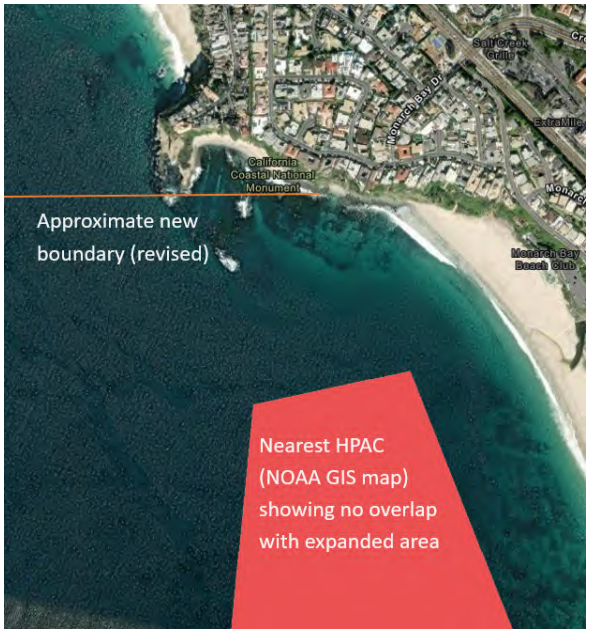
If the petitioner wishes to accomplish the outstanding goals of this petition, then a similar approach to that in Petition2023-14MPA should be considered. Such an approach could consist of keeping the 3 SMCAs as SMCAs with the same allowable take regulations, but only adding a new allowance for the recreational and commercial take of sea urchins, removing the finfish closures during "active permits." Regarding Tankers Reef, we believe no MPA, SMR or SMCA, should be designated there as existing restoration efforts would be able to continue there without requiring any closures or special allowances be made inside of a new MPA. Leaving Tankers Reef as is will also allow any future restoration methods to be deployed at the location without having to modify the SMCA allowances again as we continue to learn how to restore our kelp forests.

Petition2023-24MPA – Reject

Petition 24 requests expanding the existing Laguna Beach SMCA into the Dana Point SMCA. We believe Petition 24 should be rejected for several reasons. Petition 24's core argument claims enforcement concerns of the MPAs by lifeguards, when in fact, the primary enforcement of the MPAs is warden officers. Wardens are the only individuals that may issue citations for MPA compliance and are most notably, not bound by city limits. The idea of moving this border to allow for better enforcement will only create more of an enforcement problem due to where the proposed border lies versus the existing one. The existing border of the Laguna SMCA and Dana Point SMCA is a rocky point, a physical barrier between two areas. This allows the border to be clear as it is marked by an obvious, physical landmark, this is a guiding objective of the MLPA in MPAs that justifiably have a large shore fishing presence. The proposed new border would sit along the mean high tide line in the middle of a rocky beach. Simply put, removal of a physical barrier landmark to an invisible line on a public beach would only create more of an enforcement compliance problem, not reduce it along shore. (See Below images)



The petition then cites the Sustainable Fisheries Act of 1996 and its 2002 update where essential fish habitats (EFH) and habitat areas of particular concern (HAPCs) were designated along the west coast of California, Oregon, and Washington.



Essential fish habitats (EFHs) are defined by NOAA as areas where specific fish species, including groundfish, pink salmon, king salmon, coho salmon, coastal pelagic species, and highly migratory species, can feed, spawn, or grow to maturity. These habitats are extensive, the three EFHs overlapping the proposed expansion area—groundfish, CPS, and HMS—cover the entire coast of California, Washington, and Oregon. Because of their broad geographical scope, EFHs alone do not indicate a need for MPAs off the coast, or this proposed expansion.

Habitat areas of particular concern (HPACs), as the name implies, are sections of the EFH that are more important in providing the ecological functions that the general EFHs offer. These are more selective in their designation and display highlighted areas of concern within the EFHs. While these areas are more important in participating in these biological processes, the petitioner's proposed MPA expansion does not overlap with any existing HPACs (see above image). The arguments of the petition involving any EFHs or HPACs to protect this additional area are irrelevant for these reasons.

The petition additionally presents a rationale similar to that of Petition 2023-33 regarding the protection of kelp beds. It claims that conserving these areas is essential for the health of kelp forests. However, like the counterarguments we will see in Petition 2023-33, it is important to note again that fishing effort and so-called “anchor drag” does not significantly reduce kelp biomass; rather, factors such as water temperature, water quality, and swell conditions primarily drive changes in the kelp population. Additionally, any concerns raised in the petition about “anchor drag” damaging kelp beds would equally apply to non-consumptive vessels, not just fishing boats.

The petition references the Marine Mammal Protection Act (MMPA) concerning potential marine mammal entanglements from lobster traps in the area. While recreational and commercial lobster fishing occurs in the region, there have been little to no reported entanglement incidents involving whales or dolphins locally, showing in reality there is little need for concern. While it's important to acknowledge the possibility of such events, the absence of previous occurrences suggests that the likelihood of entanglements is extremely low. Furthermore, if the area were to be protected, lobster traps would simply be relocated, meaning the risk of entanglement would persist

regardless of where the traps are ultimately placed. Lastly, the adoption of ropeless fishing technologies, such as those developed by Sea Sonics, indicates a future where entanglement issues could be further mitigated.

Concerning the MLPA itself, it should be noted that the proposed expanded area would give the MPA an “L-shape.” This shape is specifically called out in the MLPA as a poor MPA design for enforcement and is just another reason we have concerns for this petition.

Petition2023-27MPA-AM1 – Reject

The original petition 27 and its amendments only look at lobster taken from the Anacapa SMCA. We believe this request should be rejected. Petition 27, similar to petitions calling for protections to increase kelp beds, calls for additional protections at the Anacapa Island SMCA, the difference being that 2023-27’s focus is on eelgrass, not kelp. While a trap sitting on the bottom does have a larger footprint than a pelagic hook and line configuration which is also allowed in the SMCA, traps fished in the area are not significantly impacting eelgrass beds due to there already being a 20 foot depth closure for traps around Anacapa in its Special Closure. This area contains already a large amount of the existing eelgrass beds as the SMCA and special closure overlap making the key rationale of this petition redundant as protections are effectively already in effect.

Petition2023-28MPA-AM1 – Reject

Petition 28 requests the establishment of a new MPA around Point Sal. This MPA would significantly impact local fisheries, recreational and commercial, despite the petitioner's claim that the effects would be minimal. For this primary reason we believe the petition should be rejected, even as amended to allow for shore based take of finfish.

The petition includes an economic analysis of the proposed area but overlooks the devastating local impacts this MPA would have economically. While the petition accurately states that the overlapping commercial fishing blocks contribute to 1.1% of the central coast's total landings by value, it fails to consider the actual local implications of that 1.1% and what it represents. Using the same time range (2012 to 2022) on the MFDE, the local port nearest to the proposed MPA, Port San Luis/Avila, derived 28.12% of its total commercial revenue from the overlapping blocks 631 and 632. More specifically, 25.92% of the port's groundfish revenue and 57.79%, over half, of its crab revenue came from these areas. If recreational effort even somewhat mirrors commercial effort in the area, not only is Point Sal relevant commercially, but recreationally too offshore. Establishing an MPA at Point Sal will significantly harm the community of Avila and other nearby ports, threaten local businesses, harm or remove

people's sources of income, and remove recreational and subsistence access to the area by boat.

Providing shore based take of finfish would allow for beach anglers to continue fishing as they have been, but would do so at the loss of all offshore activity. More notably, this also results in a drop of the LOP of the SMCA to moderate-low. This LOP ranking per the MLPA fails any connectivity requirements making the final proposed SMCA a protected area that does not add to total MPA network connectivity. This brings into question the main argument of the petitioner to add this MPA in order to maintain MPA connectivity, as the final amended SMCA would not accomplish this.

<u>Petition2023-29MPA-AM1 – Reject</u>

Petition 29 requests a new MPA be created at Carpinteria. This MPA would be a tribally allowed SMCA that would be closed to non-federally recognized tribal fishing (general recreational and commercial fishing); the petition was amended to reduce its overall size and allow shore-based take of finfish. The petition's three primary arguments for the new SMCA are to meet habitat connectivity/MPA spacing requirements, to protect habitat surrounding juvenile white shark grounds, and to allow for tribal access. While tribal co-management of all California MPAs should be considered, we believe for the following reasons this specific MPA proposal should be rejected.

Regarding habitat connectivity, the petition asserts that the spacing of the existing MPA network exceeds the recommendations set by the MLPA scientific advisory team, which suggests a minimum spacing of 31 to 62 miles. The petition argues that the nearest coastal MPAs, Campus Point and Point Dume, are too far apart, claiming they are separated by 63.8 nautical miles or 73.4 miles (Image 1).

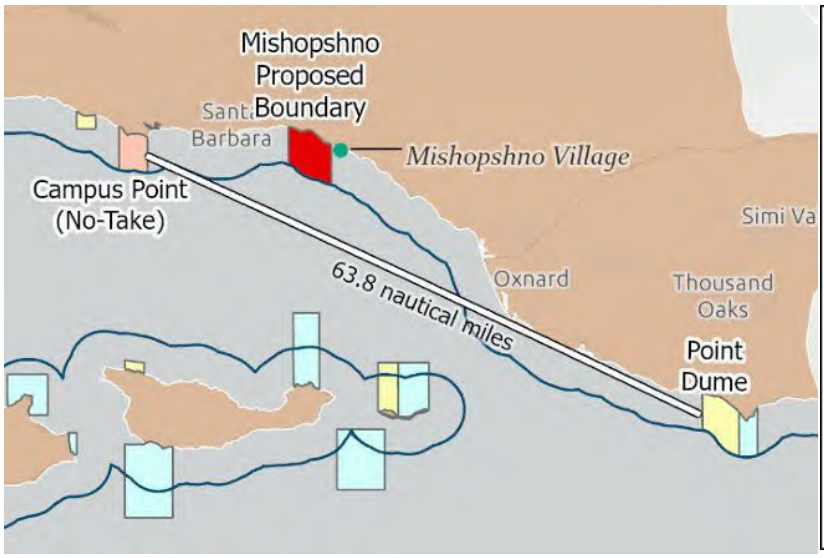


Image 1: Petition 29's image displaying proposed area and <u>claimed</u> spacing between existing Pt. Dume and Campus Point SMAs to be 63.8 nm (73.4 mi), which, if true, would exceed the southern MLPA MPA spacing requirements.

Note: the shown MPA is the original, pre-amendment size.

Discussions with the CDFW clarified that MPA spacing is measured by the, “shortest distance over water between two MPAs.” When measuring the distance between Campus Point and Point Dume, we find that it is in fact less than 62 miles, indicating that the current spacing distribution is adequate along the coast (see below Image 2).

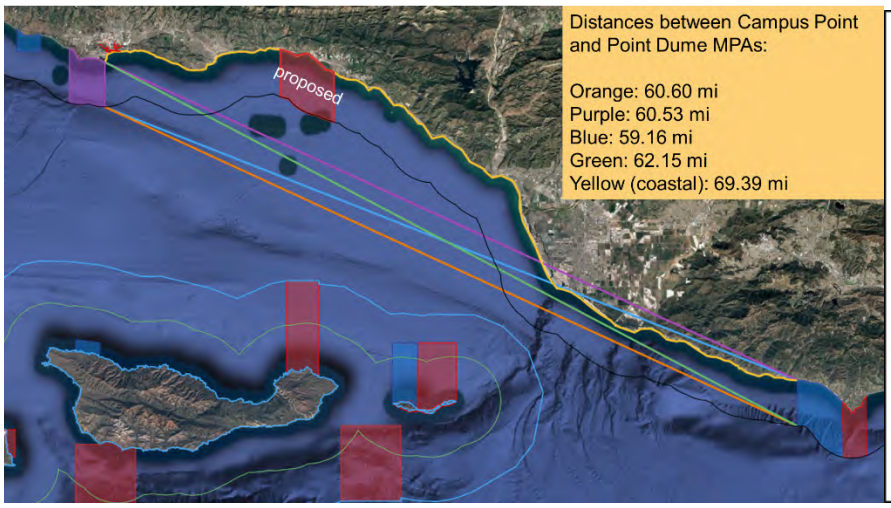


Image 2: Actual spacings between nearest existing MPAs around the proposed site. All but one straight line measurement exceeds 62 miles. The length that would be used by CDFW according to their provided input would be 60.60 mi (orange line) which falls within the spacing requirement.

Following the CDFW and MLPA guidelines, the shortest water distance between the two existing MPAs is ~60.60 miles, viewable by the orange line. This distance falls within the 31–62-mile MLPA spacing requirement. None of the provided measurements, including a measurement along the coastline (yellow) exceeded 73.4 miles of separation as the petitioner claims, again bringing into question the purpose for the new MPA if connectivity is already met.

In addition, the provided shore based take of finfish does allow for some form of recreational take but this now raises connectivity concerns. As mentioned in previous petitions, allowance of shore fishing of finfish reduces an MPAs LOP to moderate-low, losing its MPA connectivity with the network, this is confirmed by SeaSketch. Connectivity was a major reason for this MPAs proposal. With connectivity now lost due to these allowed take methods begs to question the purpose for this implementation in the first place if its foundational goals are not even accomplished. The LOP chart for the southern bioregion, moderate low protection is provided below.

	Mod-low	**SMCA SMP**	**Shore fishing** (H&L, hoop net); **kelp bass, barred sand bass, lingcod, cabezon, and rockfish** (H&L, spearfishing); **sheephead** (H&L, spearfishing, trap); **spotted sand bass and halibut** (H&L); **lobster** (trap, hoop net, diving); **urchin** (diving); **rock crab and Kellet's whelk** (trap); **catch and release** (H&L-general) **In water depth <10m: Catch and release** (H&L-single barbless hooks and artificial lures) **In water depth <50m at islands and <30m on mainland: pelagic finfish, bonito and white seabass** (H&L);

Regarding the protection of juvenile white shark nursery grounds, a similar petition was submitted in 2020 (Petition 2020-012 AM1) to close off a smaller section of beach at Carpinteria for the same purpose. Like Petition 29, this earlier petition aimed to protect

juvenile white sharks within the currently proposed area. This 2020 petition was rejected by the Department and the Fish and Game Commission (FGC), which stated that MPAs are designed to protect nearshore ecosystems rather than individual species, especially highly migratory species like white sharks. Given that this issue was previously addressed at the same location just four years ago, the same arguments against the current petition apply today regarding white sharks.

Lastly, regarding the tribal access portions of the petition, while tribal access and co-management should be explored across the entire MPA network, current access to the area by tribes is not limited in any way. Regardless of a tribal MPA designation or not, federally recognized tribes will have access in the area just like the public. Closing this area off to all groups except those of the federally recognized Santa Ynez Band of Chumash Indians would have the additional side effect of restricting any non-federally recognized tribes, as the petition does mention. In addition to the above counter reasons of the petition's primary claims, there exists additional effects to be considered at the proposed MPA site. The proposed area was considered during the MLPA for the southern section but was traded off for two other SMCAs on the coast, Naples and Kashtayit that were present in different MPA alternatives that Carpinteria was not in. If allowed, the new MPA would essentially break the agreements struck during the MLPA. Lastly, the pre- and post-amended boundaries overlap existing oil infrastructure that is maintained year round, no existing exemptions or conversations have been had regarding this infrastructure overlap. For these reasons we believe the petition should be denied.

<u>Petition2023-32MPA – Reject</u>

Petition 32 requests expanding the Duxbury Reef SMCA north, south and converting the SMCA into an SMR. The petition cites apparent drops in biodiversity in the areas, confusion on take regulations, and, as a result, high incidence of accidental poaching.

We believe this petition to be well intentioned but do not believe it should be accepted. The petition's claims that there was a local drop in biodiversity are all based on local surveys on no actual data displaying a measurable drop in the biodiversity in the area.

Observations by MPA Watch on potential MPA violations comes from observers seeing "anyone with buckets," citing even children with buckets counting as a possible violation. While it is understandable to ascertain data this way, we would like the commission to understand that someone simply with a bucket on one of the most popular beaches in the area does not mean they are violating MPA take regulations. This method of data collection possibly is why the self-reported values of possible violations at Duxbury are so high, when actual enforcement reports show infractions at Duxbury being so low they do not even make it to the yearly MRC report. Enforcement reports on MPAs from the yearly March MRC give insight into MPA violations in the state, of which Duxbury Reef never was in the top MPAs in violation (top 35) or top 5 in the northern region specifically in 2024 or 2025. Letters from partner agencies such as state and national parks as well as national marine sanctuaries all cite possible issues with the SMCA, all requesting it expand, but no agency goes so far as to support making the area an SMR. No hard data whatsoever has been provided to demonstrate a need to expand the SMCA to include these highly inaccessible areas in the north or south as well. The petitioner's claim that visitors walking through the existing southern border with legal catch from outside the SMCA is merely speculative. Access to the reef in this southern section is blocked by an inside channel except during extreme low tides, making further regulatory protection unnecessary and a niche case at best.

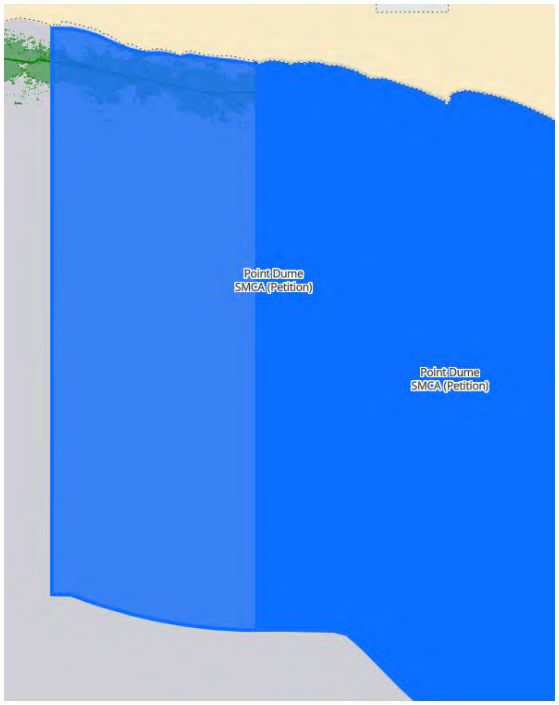
Regarding the original MPA expansion proposals, and even specifically the southern expansion (image above), the new covered area has a very asymmetric shape. This goes directly against MLPA guidelines for designating MPAs which state that MPAs with odd-asymmetric shapes are difficult to enforce and confusing to the public, possibly even adding to the confusions the petitioner claims is present at Duxbury. At the bare minimum, this border must be modified in a way that adheres to the MLPA MPA design guidelines before even being considered for final action. Because any possible additional area included or removed from the proposed expansion needs to be considered by all stakeholders, we must see what this final border actually is before providing further input. In December 2025, the petitioner did submit an informal request ("informal" was tagged by FGC staff) to change the border post-petition deadline, which could solve this odd shape issue. It is currently not known whether amendments like this can be considered. If the informal request is ultimately considered, the existing counter arguments still exist with exception of course of the expansion border shape.

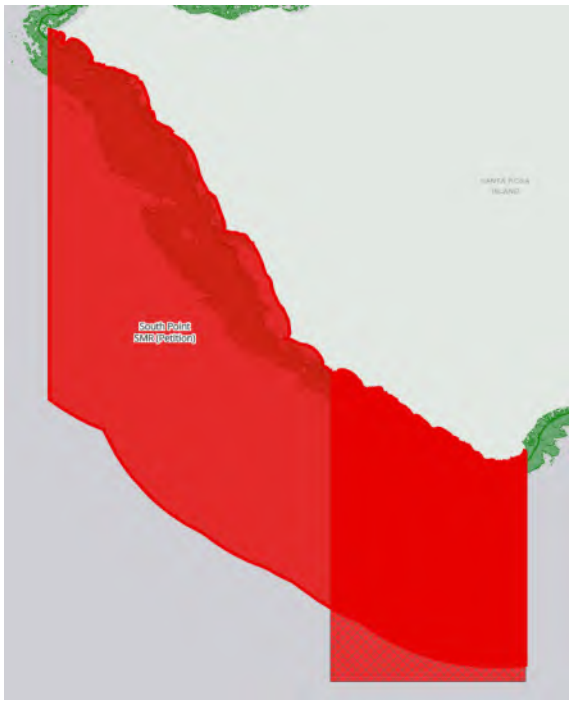
<u>Petition2023-33MPA – Reject</u>

Several groups and individuals have expressed opposition to this petition, and we all stand by the majority of their comments, even after the limited number of amendments to certain MPAs in petition 33. While there are various pathways for kelp restoration, the establishment of new or larger MPAs is not one of them. It is widely accepted that the growth and abundance of kelp are dependent on water quality and temperature. Even under ideal growing conditions, a large swell can damage kelp forests, ripping the

largest, most buoyant, stalks off the seafloor. Fishing activities have little to no impact on kelp health as seen by thriving kelp populations throughout history pre-dating even the MLPA when fishing access was less restrictive. It is well documented how we came to this spot in the first place for our kelp, the rolling El Ninos in the mid-2010s removed a substantial amount of our state's kelp forests, not fishing, and fishing restrictions are not what it will take for the forests to regrow. The creation or expansion of MPAs resulting from this petition will have a negligible effect on the recovery of kelp forests, but a permanent and lasting effect on those that have a livelihood on the water or those that want to simply fish and enjoy a day on the water. In some instances, such expansions may hinder restoration efforts by obstructing human interventions aimed at encouraging kelp growth, such as seeding areas or urchin barren removal efforts.

Furthermore, the petition does not adequately explain why most of the proposed expansion areas cover waters that are simply too deep for kelp to grow. All but one of its expansions (Gull Island) have this problem, covering waters well beyond kelps natural growing depth. Many of the proposed expansions extend to the state line, covering areas with depths exceeding 1,000 feet when kelp cannot grow any deeper than 150ft. For a petition focused on kelp restoration, this deepwater coverage is illogical and appears to be an attempt to limit area access to our already managed fisheries while protecting an area outside of the scope of the petition. Below are some of the petition's proposed expansions on SeaSketch with the kelp max extent per landsat and flyovers enabled (green layer under proposed expansions). This shows most of the expansion area does not even cover the absolute maximum kelp could grow. Any justifiable MPA expansions regarding kelp recovery at the bare minimum should be more targeted, covering specifically areas kelp can grow, not mass areas covering mostly water kelp cannot grow.





Lastly, the added amendments only pull back on one expansion, the Cabrillo SMR, and add in shore based take of finfish and general spearfishing of finfish at the proposed Pleasure Point SMCA and Point Dume SMCA. As mentioned previously, the shorebased allowance would reduce Pleasure Point and Point Dume to moderate-low levels of protection per the MLPA, losing their local MPA connectivity, making the proposed expansions weaken MPA connectivity rather than strengthen them. Specifically for Point Dume, that MPAs connectivity appears centrally important under the SeaSketch model and should be maintained. While the reduction in size at the Cabrillo expansion is a positive, we still believe any expansion in the first place is not warranted, especially for kelp restoration purposes.

Petition2023-34MPA – Reject

Petition 34 requests the redesignation of one offshore SMCA to a no-take SMR, merging it with the nearshore SMR at Point Buchon to make one no-take SMR. The petition also requests combining the nearshore and offshore SMCAs at Farnsworth into a single SMCA that would permit only pelagic finfish spearfishing, removing various pelagic fishing allowances existing there. The primary justification for these changes is enforcement concerns. Enforcement has effectively managed the existing MPA network without significant issues which already contains nearly 40% limited take SMCAs. The situations at Farnsworth and Point Buchon are similar to several other MPAs along the coast that successfully integrate nearshore and offshore components. The concept of allowing pelagic finfish targeting offshore—where interactions with the MPA's intended

protections are minimal—has been recognized since the first and second MPA Master Plans where it explicitly states the lesser effect pelagic fish have on themselves and the MPA ecosystem, and to allow for areas that have pelagic take respectively. Pelagic fishing should be permitted in MPAs that overlap with offshore waters, provided that fishing practices minimize interactions with local and nearshore species, which they inherently do. Additionally, if enforcement was truly the only concern, commercial harpoon at Farnsworth is just as enforceable, if not easier to enforce than recreational spear methods, and should be left in as an allowance in the SMCA. This petition also conflicts with Petition 20 and its requests at Point Bucheon.

The two MPA systems at Farnsworth and Point Bucheon are no different from other nearshore/offshore configurations, so-called “MPA clusters”, and we see no compelling reason to change them specifically. Both MPA clusters currently meet regional sizing guidelines for the total cluster area and LOP requirement to count them both for connectivity as is, with their current access. For these reasons, we believe this petition should be rejected.

Thank you,

AllWaters - AWPAC *(recreational)*
-Chris Killean (President)
-Matt Bond (Board Member)

Commercial Fishermen of Santa Barbara - CFSB *(commercial)*
-Chris Voss (President)
-Ava Schulenberg (Assistant Director)

Backcountry Hunters & Anglers - BHA *(recreational)*
-Devin O’Dea (Western Policy & Conservation Manager)

Coastal Conservation Association California - CCA Cal *(recreational)*
-Chris Arechaederra (Executive Director)
-Tonie Bagnos (Assistant Director)

Ventura County Commercial Fishermen's Association - VCCFA *(commercial)*
-Dave Colker (Executive Director)
-Jason Woods (President)
-Eric Hodge, Mike Kenny, Tim Athens (Board Members)

LA Rod and Reel Club *(recreational)*
-John Ballotti (President)

January 2026
Coalition Letter on Bin 2 MPA Petitions

Port San Luis Commercial Fishermen's Association *(commercial)*
-Chris Pavone (President)

Santa Barbara Sportfishing Club *(recreational)*
-Whitney Uyeda (President)

Alliance of Communities for Sustainable Fisheries *(recreational/commercial)*
-Alan Alward (Co-Chair)

San Diego Fishermen's Working Group *(commercial)*
-Pete Halmay (President)

Morro Bay Commercial Fishermen's Organization *(commercial)*
-Bill Blue (President)
-Tom Hafer (Secretary)

The Tuna Club Foundation *(recreational)*
-Chase Offield (Board Member)

Santa Barbara FreeDivers Club *(recreational)*
-Dave Huebner (President)
-Bradley Pirmen (Chair)

BD Outdoors *(recreational business)*
-Ali Hussainy (President)

The California Association of Harbor Masters and Port Captains *(commercial)*
-Tim Petrick (President)

Dana Wharf Sportfishing and Whale Watching *(recreational)*
-Donna Kalez (Co-Owner)

Santa Barbara Landing and Stardust Sportfishing *(recreational business)*
-Jamie Diamond (CEO/owner)

Monterey Bay Tritons *(recreational)*
-Brandon Burke (President)

NorCal Underwater Hunters *(recreational)*
-Matt Mattison (President)

January 2026
Coalition Letter on Bin 2 MPA Petitions

Fathomiers *(recreational)*
-Paul Romanowski (Conservation Officer)

The Catalina Seabass Fund *(recreational/commercial)*
-Jock Albright (Director)

The Laguna Maritime Alliance *(recreational/commercial)*
-Chase Offield (Chair)

Santa Cruz Kelp Stalker *(recreational)*
-Hans Haveman (Chair)

San Diego Freedivers *(recreational)*
-Ryan Moore (President)

OC Spearos *(recreational)*
-Hidenori Iwagami (president)

Long Beach Neptunes *(recreational)*
-Terry Maas (Chair)

Save Duxbury Access *(grassroots recreational/commercial)*
-Chris Martinelli (Local Lead)

American Fishing Tackle Company - AFTCO *(recreational/commercial business)*
-Bill Shedd (CEO)
-Casey Shedd (President)

Get Hooked Seafood *(commercial business)*
-Kim Selkoe and Victoria Voss (Co-Founders)

Pacific Coast Sportfishing *(recreational business)*
-Bill DePriest (Publisher / Editor)

January 2026
Coalition Letter on Bin 2 MPA Petitions

Dedicated Researchers/Scientists:

UCSB Bren School of Environmental Science & Management
-Dr. Dawn A. Murray (PhD. Ocean Sciences - UCSC)

UCSB & UCSC Conservation Scientist
-Dr. Jason Johns (PhD. Ecology and Evolutionary Biology - UCSB)

UCSB Marine Scientist
-Dr. Kim Selkoe (PhD. Ecology and Evolutionary Biology - UCSB)

Private Marine Scientist
-Ethan Estess (M.S. Earth Systems (Marine) - Stanford University)

Senior Marine Scientist and previous marine biologist for the Channel Islands NPS
-Derek Lerma (B.S. Biological Oceanography - Humboldt State University)

01/26/2026

California Fish and Game Commission
California Fish and Game Commission
P.O. Box 944209, Sacramento, CA 94244-2090

Subject: Bin 2 MPA Petitions

Dear Melissa Miller-Henson,

Please add the San Diego County Wildlife Federation (SDCWF) to the CCA Coalition letter regarding Bin 2 MPA petitions being considered. We were unfortunately a bit late getting our logo and signature added to the letter represented below. The San Diego County Wildlife Federation represents over 20,000 sportsmen and women in San Diego County, and we are active in conserving our inland and aquatic habitats in a manner which allows both conservation protection with consumptive use of the waters of our state.

The SDCWF agrees with the recommendations of Coalition listed below.

Thank you for the work you and the Commissioners do for California outdoorsmen and women.

Respectfully,

Gary F. Brennan
President, San Diego County Wildlife Federation
P.O. Box 3886
Ramona, CA. 92065

Copy to: CCA California

Marine Conservation Institute

29 January 2026

Re: Comments from Marine Conservation Institute for consideration during the February 11-12, 2026 meeting on petitions to amend the state's MPA network.

(submitted via email to fgc@fgc.ca.gov)

Dear California Fish and Game Commission,

As California works to protect 30% of state waters by 2030 (30 x 30) to fight climate change, protect biodiversity, and expand access to nature for all Californians, the implementation of Marine Protected Areas (MPAs) that provide tangible benefits to marine biodiversity requires an understanding of effective conservation and knowledge of which MPAs meet that threshold.

Since 2012, Marine Conservation Institute's Marine Protection Atlas (MPAtlas) has brought a focused lens to the quality of marine protections in MPAs around the world. MPAtlas (mpatlas.org) is the largest global repository of MPA assessments using The MPA Guide[1]. The MPA Guide is a peer-reviewed scientific framework published in *Science* in 2021 that evaluates an MPA's stage of establishment and level of protection by looking at the management of mining, dredging & dumping, anchoring, infrastructure, aquaculture, fishing, and non-extractive recreational activities. Both management regulations and in situ activity data specific to each individual MPA are analyzed to determine the actual outcomes provided by a given MPA. Ecological evidence[2] from as recently as 2025 suggests that the best conservation outcomes are seen when MPAs are implemented or actively managed, and fully[3] or highly[4] protected from these seven activities.

Scientists from MPAtlas evaluated the 20 petitions proposing changes to California's MPA Network submitted to the California Fish and Game Commission by the public and Tribes in 2023 using The MPA Guide. Our preliminary analysis suggests that the following petitions would improve the level of protection for existing MPAs or designate new MPAs, expanding and strengthening the California State MPA Network's overall ability to achieve conservation benefits:

Petition	Marine Protected Area
2023-19MPA	Chitqawi SMCA
2023-20MPA	Point Buchon SMR
2023-23MPA-AM	Carmel Bay SMCA
	Pacific Grove Marine Gardens SMCA
	Tanker's Reef SMR
2023-24MPA-AM	Laguna Beach SMCA

14301 Arnold Drive Suite 25 Glen Ellen CA 95442
Marine-Conservation.org • +1 707 938-7036

2023-27MPA-AM	Anacapa Island SMCA
2023-28MPA-AM	Point Sal SMCA
2023-29MPA-AM	Mishopshno SMCA
2023-32MPA	Duxbury Reef SMR
2023-33MPA-AM	Cabrillo SMR
	Gull Island SMR
	Natural Bridges SMR
	Pleasure Point SMCA
	Point Conception SMR
	Point Dume SMCA
	South Point SMR
2023-34MPA	Farnsworth Offshore SMCA
	Farnsworth Onshore SMCA
	Point Buchon SMCA

With critical tipping points approaching ocean biodiversity, the opportunity to align California's MPA network with the best and most up-to-date understanding of MPA science is incumbent on the Commission. We urge the Commission to adopt the petitions that serve to advance conservation and keep the State of California moving forward with a world-leading example of marine conservation, creating an effective MPA network, and progressing towards the State's commitment to 30 x 30.

Sincerely,

Lance Morgan, PhD, President, Sonoma County
Nikki Harasta, Marine Conservation Scientist, Ventura County

1 Grorud-Colvert, K., et al. (2021). The MPA guide: A framework to achieve global goals for the ocean. Science. https://doi.org/10.1126/science.abf0861

2 Horta e Costa, B., et al. (2025). Marine protected areas' stage of establishment and level of protection are good predictors of their conservation outcomes. Cell Reports Sustainability. https://doi.org/10.1016/j.crsus.2025.100345

3 No impact from extractive or destructive activities is allowed and all abatable impacts are minimized. Non-extractive activities may include recreational, traditional, cultural, or spiritual activities. Examples include minimal impact snorkeling, swimming and SCUBA, tidepooling, cultural/ceremonial gatherings, education, knowledge transmission, and motorized or non-motorized vessels associated with the previously mentioned activities.

4 Only light extractive activities are allowed that have low impact, and all other abatable impacts are minimized. If any anchoring is allowed, it is small scale and for a short duration with a low impact. If any infrastructure is allowed, it is small scale with low impact. Any aquaculture must be low impact, small scale, low density, and unfed. If fishing occurs, it is infrequent and only five or fewer gear types are used that are highly selective and low-impact. Any non-extractive activities are regulated and restricted and of low impact, low density, and small scale.

California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

February 6, 2026

Re: Retraction of signature and clarification of position on California MPA petitions

Dear President Zavaleta and Honorable Commissioners,

I am a marine scientist and environmental studies professor advising graduate students at Antioch University and teaching undergraduate courses in the Environmental Studies Department at UC Santa Barbara. I work in resource management and conservation realms to protect habitats and to amplify Indigenous voices in conservation initiatives. I also work locally with NOAA on intertidal marine sampling and support locally-rooted conservation efforts, including curriculum development and weaving Indigenous and Western Scientific Knowledge into system solutions. I have worked with the Northern Chumash Tribal Council (NCTC) supporting the Chumash Heritage National Marine Sanctuary (CHNMS) designation and Chumash cultural values, wisdom, and traditions in marine and land management practices. I currently serve on the NOAA CHNMS Advisory Committee as a Research Seat Alternate.

My research focuses on participatory conservation and co-designing conservation methods that equitably integrate local communities in multi-pronged conservation solutions. I value coalition-building, listening to and incorporating multiple perspectives in conservation planning. I work with fishermen around the world, including supporting the Miloli‘i Community-Based Subsistence Fishing Area (CBSFA), south of Kona, Hawai‘i, which includes the waters and submerged lands from the shoreline to the 100-fathom depth contour. The Miloli’i community leads the regulation creation and enforcement in their " last Hawaiian fishing village". In addition, I support the Commercial Fishermen of Santa Barbara in their continued efforts to practice local eco-friendly, sustainable fishing, sell locally caught fish in the Saturday market to our community, promote science and monitoring, and their stewardship of our coast via numerous annual beach and island clean-ups.

Over a year ago, I was asked to add my name to a joint letter about the MPA adaptive management proposals from commercial and recreational fishermen. I did so because of my relationships with many in the California fishing community. Recently, the letter was submitted to the Fish & Game Commission. Unfortunately, I had not kept up with the revisions, updates, or additions to the letter in the last 13 months and the in-depth amendments to each MPA petition. The letter contains recommendations that I am unable to endorse due to my expertise as a marine scientist. I need to retract my signature from that letter and clarify my position.

Clarifying my current perspectives on the MPA petitions:

- I submitted a letter in November 2023 endorsing Petition 2023-33MPA, and I am a supporter of protecting California's kelp forests because they provide invaluable ecological and environmental benefits. These dynamic and biodiverse ecosystems serve as critical nurseries for a wide variety of marine species, providing shelter and food for numerous fish, invertebrates, and marine mammals. Healthy kelp forests support thriving commercial and recreational fisheries and can help dampen the impacts of coastal erosion and storm impacts. With the declines in kelp forest cover across the Pacific West Coast, including California, from natural and human-induced factors, MPAs are a critical tool for supplying the population of recruits and supporting the resilience of kelp ecosystems in the face of these stressors.
- To achieve the stated goals of conserving biodiversity and ecosystem health, I encourage the state to consider increasing protections for MPAs that are currently only lightly or minimally protected as defined by The MPA Guide,[1] especially in places where weaker or more complicated regulations lead to poor compliance and enforcement. An example of what I support are the clarifications on Kashtayit regulation language and Campus Point SMCA color coding (Petition 2023-18MPA).
- I support strengthening the MPA network through the addition of new MPAs where they would protect critical habitat and advance Tribal co-stewardship. To that end, I endorse Petition 2023-28MPA designating Point Sal SMCA, which provides an opportunity to strengthen protections within the CHNMS and offers a pathway for meaningful co-stewardship between the state and NCTC. In addition, I support Petition 2023-29MPA designating Mishopshno SMCA, which would protect a special place culturally and ecologically, and similarly offer a pathway for meaningful co-stewardship between the state, Santa Ynez Band of Chumash Indians, and potentially other Tribes. I appreciate that the petitioners were responsive to feedback from the local community, including recreational and commercial fishers, cutting the size of the proposal in half.
- Finally, I do not support weakening MPA protections off the California coast in any capacity. For example, to open recreational fishing opportunities to non-Base fishers, Petition 2023-18MPA would create a narrow alongshore State Marine Conservation Area within the existing SMR that would allow all people to fish for finfish by hook and line. This change would weaken the MPA network by officially downgrading the protections within the state's largest fully protected MPA. Instead, I support the state ensuring current Vandenberg SMR restrictions are enforced and applied to Base personnel and dependents, so that it is not only non-military community members who must comply.

California's MPA network is imperative for maintaining healthy ocean habitats, biodiversity along the California coast, and ecosystem resilience. Management of MPAs can also honor numerous knowledge systems - commercial fishers, recreational fishers, Indigenous peoples, local communities, and Western scientific knowledge systems. The adaptive management process offers a pathway to improve, and build on the successes of our globally-recognized MPA network.

[1] Grorud-Colvert, Kirsten, Jenna Sullivan-Stack, Callum Roberts, et al. 2021. "The MPA Guide: A Framework to Achieve Global Goals for the Ocean." Science, ahead of print, September 10. World. https://doi.org/10.1126/science.abf0861.

Thank you for the opportunity to clarify my position. I appreciate your leadership and your commitment to a healthy and vibrant ocean for all.

Dr. Dawn A. Murray
Professor Environmental Studies, Antioch University
Lecturer Environmental Studies Department, UC Santa Barbara

Received at the California Fish and Game Commission
February 19, 2026

Hello FGC,

Our names are Ryder and Fisher Devoe. We live in both San Diego and Ventura and have been on the water around both areas participating recreationally and part-time commercially over the last 20 years in hook-and-line and free dive fisheries.

Our comment concerns the following MPA Petitions:

Petition 2023-34MPA: No Support
Petition 34 calls to close or further restrict two areas access to pelagic finfish. It is well known these species are less affected by MPAs and they should still be able to be targeted. We have areas that allow this all over the coast so calling these two areas "special" and have enforcement concerns justifying their closure is just an excuse to take more away. If enforcement does ok with all the limited take areas as they say, then there is nothing to be worried about.

Petition2023-33MPA: No Support
Petition 33 claims by expanding MPAs and closing down fishing access we will help regrow the kelp forests. How does fishing affect kelp growth in any way? Kelp growth and kelp breaking off is totally driven swell and water temperature. If you have no swell and water in the 60s kelp with thrive, but you get a major swell and water into the low 70s kelp will all break off its anchors and float away. Plain and simple, fishing does not affect kelp. Additionally, MPAs are made for biodiversity and ecosystems, they are not for kelp rebuilding, we have other projects for that. There appears to be several articles already out about the issues specifically with his petitions and those similar to it concerning kelp or eelgrass (petitions 24 and 27).

Petition2023-29MPA: No Support
Carpinteria reef is literally the only remaining coast reef remaining outside of MPAs between Point Conception and Point Mugu. Closing this area would effectively stop all calico bass fishing on the coast which is mainly catch and release. The petition claims the nearest MPAs are over 63 nautical miles apart (72 miles) which exceeds the 62-mile limit. Simply measuring the distance on maps shows the nearest MPAs, Campus Point and Pt. Dume are 61 miles apart and fall within the limit. This basic measurement displays the truth of this proposal, it's simply trying to take more away on top of what already was over 10 years ago. The petition also claims to be helping the White Sharks, we have already protected white sharks, and a great white will not be affected at all by a box as small as the proposal suggests due to how vast of an area they cover. Pelagic species are not affected by MPAs, especially Great Whites that travel so much.

Petition2023-24MPA: No Support
This petition is essentially another version of petition 33 trying to close more area for kelp forests that fishing has no effect on. The surrounding area is already saturated with MPAs in the local 4 MPA cluster, this expansion would just close even more off locally. The same

counter arguments for this petition apply from petition 33. Any argument for better enforcement for city limits is incorrect as city officials do not police the MPAs state wardens do and they are bound to no cities.

Petition2023-15MPA: Support
We fully support this proposed change. Participating on a smaller vessel in the swordfish fishery this petition really matters to us. The Channel Islands are significantly oversaturated with no-take areas that extend further offshore than anywhere else in the state. Pelagic fish or highly migratory species do not have the same effect on them or the surrounding area that local species do. The apparent Master Plan highlights this and calls to have areas open to these pelagic species but we do not see them anywhere relevant around the islands. The Channel Islands MPAs came before the rest of the network so it is understandable we were over cautious and implemented so many no-take areas but now that we know and have so many pelagic allowed area elsewhere, we need to update the Channel Islands to what we see in the rest of the state, a reasonable model where no-take areas are balanced with some pelagic allowed areas where they can be targeted offshore.

Petition2023-14MPA: Support
If we are trying to rebuild kelp anywhere this petition is a great starting point. Besides water temperature and swell, urchins contribute the most to wiping out entire forests of kelp. Allowing urchin access in there areas where it is restricted is a clear step in helping to mitigate the spread or sea urchins and the allow kelp the chance to grow inside these areas again where otherwise urchins would continue to eat all of it.

Thank you,

Ryder Devoe and Fisher Devoe

Outlook

CFSB comment letters on two petitions

From Kim Selkoe <kim@cfsb.info>
Date Tue 02/24/2026 12:32 PM
To FGC <FGC@fgc.ca.gov>
Cc Shuman, Craig [redacted]; CHRISJVOSS@GMAIL.COM <CHRISJVOSS@GMAIL.COM>; Eckerle, Jenn@CNRA <Jenn.Eckerle@resources.ca.gov>

Dear Colleagues,

Please find attached two comment letters from CFSB concerning Petitions 2023-29MPA_AM1 and 2023-33MPA-AM1 to be considered in the MPA Petition review process.

Please note that the CFSB Seasketch project referenced in these letters can be made available to members of the Commission and Department if it is of interest. The CFSB project focused on mapping the value of fishing grounds in the Santa Barbara Channel by gear type and species, as identified by 53 active commercial fishers, surveyed prior to the petition process. The methods are in the appendices to the letters.

Thank you,

Kim Selkoe

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Kim Selkoe, Ph.D.
~~~~~~~~~~~~~~~~~
Executive Director
Commercial Fishermen of Santa Barbara
6 Harbor Way #155
Santa Barbara, CA 93109
[redacted]

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COMMERCIAL FISHERMEN OF SANTA BARBARA

RE: Opposition to Petition 2023-29MPA-AM1 (Mishopshno SMCA)

February 17, 2026

To the California Fish and Game Commission and Department of Fish and Wildlife:

For over 40 years, Commercial Fishermen of Santa Barbara ("CFSB"), a 501(c)3 non-profit organization, has been committed to making our local fishing community resilient and effective by providing healthy, high-quality seafood to local and global markets, ensuring the economic and biological sustainability of fisheries, and maintaining California's fishing heritage. CFSB currently has over 80 members. We represent the interests of a diverse set of fishermen, shellfish farmers, and seafood processors and distributors who are leaders in the commercial fishing industry.

Commercial Fishermen of Santa Barbara (CFSB) respectfully submits this letter in opposition to Petition 2023-29MPA-AM1, which proposes establishing a new tribally-designated SMCA at Carpinteria. While we support the principle of tribal co-management across California's MPA network, this specific petition should be rejected. We have also submitted comments as a signatory of the CCA Coalition letter on Bin 2 Petitions submitted earlier this month, but we would like to reinforce that letter with further detail about our position below and new economic data relevant to this site.

Fisheries Connectivity Is Already High in This Region

Many of the key fishery species at this site—groundfish, lobster, crab, and urchin—are abundant throughout the adjacent coast and Channel Islands thanks to sound fisheries management. Therefore, a large fraction of larvae recruiting into the reserve network were spawned outside of it, and the role of the proposed MPA in boosting connectivity of the network would be vanishingly small. All of the targeted higher-volume fishery species at the site have pelagic larval durations exceeding two months (California Marine Species Portal). Surface currents in the Channel are ~0.3–0.4 m/s (~26–35 km/day), transport over **14–28 days would be ~360–980 km (~22–60+ miles)** under sustained flow, so two-month larval periods are creating high connectivity (Hendershot and Winant 1996, Washburn et al. 2002). MPAs at the Northern Channel Islands are well connected to the coastal MPAs due to cyclonic current flows in the Channel. In sum, larval connectivity is already functioning across broad spatial scales—there is no ecological basis for tighter MPA spacing to achieve it.

This closure will disrupt key fishery management plans and create undue economic impacts.

Carefully designed and negotiated spatial fishery management plans will be badly disrupted by this plan, namely Kelp Cutting and Halibut Trawl. There are few areas left to harvest kelp; the footprint of this MPA includes one of them. Further reduction in kelp cutting grounds would be an existential threat to The Cultured Abalone Farm's continuation. The California Halibut Trawl Grounds would be interrupted by the bounds of this MPA, creating impact of another highly limited fishery that cannot afford to lose any further area.

The proposed area encompasses the majority of offshore hard bottom substrate between Santa Barbara and Carpinteria (Figure 1). The existing Naples and Isla Vista MPAs have already protected large swaths of hard bottom that were high value grounds to many of our fisheries.

Fig. 1 The extent of hardbottom area (orange) in the coastal region, with approximate boundaries of proposed MPA. From California Seasketch portal.

The petition significantly understates the commercial fisheries activity and value in this area. We have referenced two sources of data that highlight the extreme importance of Block 652 and Carpinteria Reef to our commercial fisheries. More details about these data are in an appendix to this letter.

- CDFW block data for the Santa Barbara Channel from 2014–2023. These data were compiled by Mary Nishimoto in 2024 in her role as the Joint Oil and Fisheries Liaison for Padre's decommissioning activity planning for Platform Holly.
- Seasketch maps compiled prior to the MPA Petition process that record the value of fishing grounds in the Santa Barbara Channel, according to 53 commercial fishers at three ports in the Santa Barbara Channel, by species and gear type. This project was funded by ARPA-e MARINER program, administered by CFSB and carried out by Madeleine Berger of Seasketch in 2023 through the first quarter of 2024.

Key highlights of the CDFW data include the following statistics from Block 652:

- **100–200 fishing vessels** used this block over the last decade
- **1,000–2,500 distinct landing receipts** were recorded from the block
- **Over 200,000 lbs of trap-caught poundage** came from the block
- **Over 25,000 lbs of dive-caught poundage** came from the block

Key highlights of the Seasketch analysis are:

- The proposed area is ranked as **maximum value for box crab, lobster, ridgeback, rock crab, rockfish, sand dab, urchin, kelp**
- The area is ranked as **high value for halibut, kellet's whelk, sardines, anchovies, mackerel, white seabass, and yellowtail**
- For all fisheries data combined, the area is ranked as a mix of high and maximum fisheries value (Figure 2).

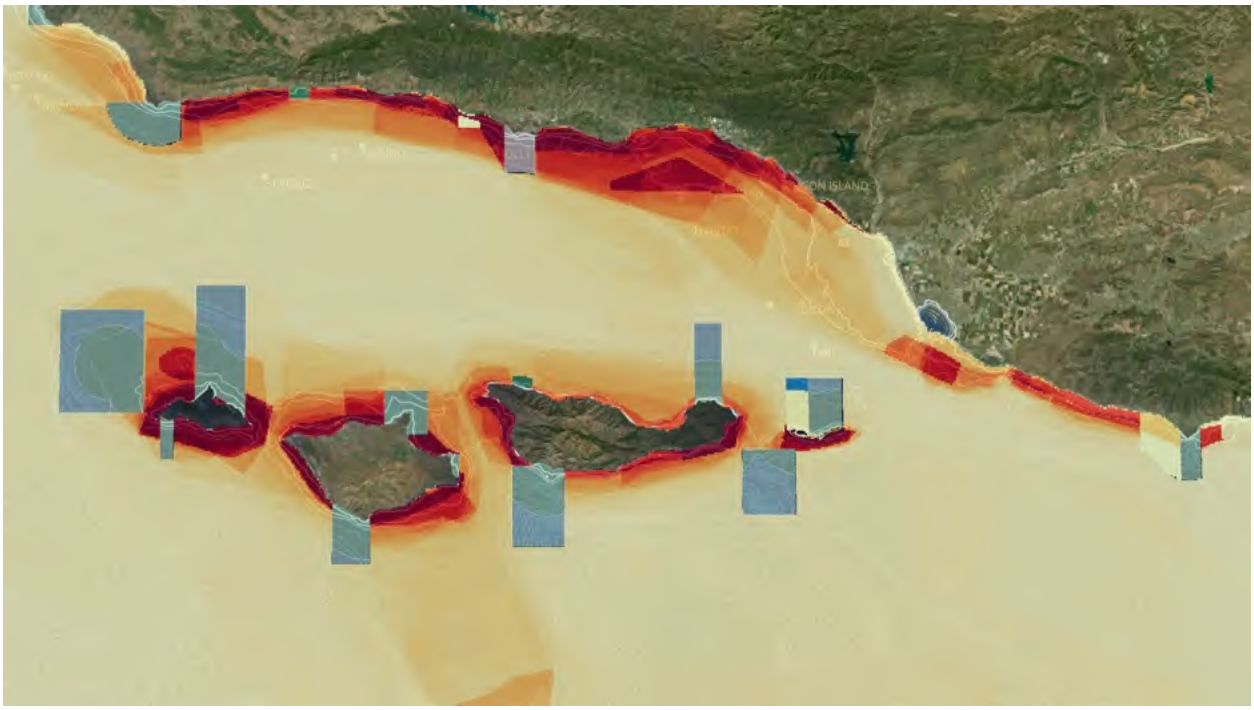


Fig. 2 Composite Seasketch heatmap showing the value of fishing grounds in the Santa Barbara Channel, for all 53 survey responses representing all species and gear types. Note that biases are possible, especially at the coastal margins, where fishers from other ports may more highly value grounds than the respondents. See appendix for more study information.

These data paint a very different picture than the petition's framing of "limited impact." The proposed SMCA would cover 18% of block 652, including the highest quality fishing grounds in the block, directly affecting the trap and dive fisheries, which constitute the majority of commercial activity in the area.

The petition states that commercial and recreational vessels "primarily visit the Channel Islands for fishing trips and **target the nearshore area around Carpinteria when weather conditions make travel to the islands unsafe or undesirable.**" The analyses in the attached CDFW and Seasketch data refute that claim – this area, very close to Santa Barbara Harbor, is essential to commercial fisheries. Moreover, in cases that it does function as a backup when conditions prevent safe passage to the islands, it is just as critical. Closing it eliminates the safety valve that allows our fishermen to remain productive during adverse weather windows—exactly when they need accessible nearshore grounds most.

Juvenile White Shark Protection Is Not an MPA Function—And This MPA Would Not Achieve It

A nearly identical petition (2020-012 AM1) was rejected by the Commission at this exact location just four years ago. The FGC correctly determined that California's MPAs are designed to protect nearshore ecosystems rather than individual highly migratory species like white sharks. This precedent applies directly to the current petition.

CDFW landing data for block 652 further expose the mismatch between the petition's stated rationale and its actual effect. Hook-and-line, gillnet, and trawl landings in this block were all relatively low over the past decade, while Block 652 was a key source of poundage for trap and dive fisheries (over 200,000 lbs trap-caught, over 25,000 lbs dive-caught). Shutting down commercial fisheries here is unjustified as they do not pose a meaningful bycatch risk to white sharks.

Leading white shark researcher Dr. Chris Lowe of CSU Long Beach confirmed that this **MPA design would not provide meaningful protection for juvenile white sharks** as measured by JWS mortality rates. He specified:

- **There is only one known fishing-related JWS mortality at this site**—from recreational hook-and-line gear, which would still be permitted under the proposed SMCA. Boat strikes and occasional recreational fishing are the primary human impacts to white shark at Carpinteria Reef, and these remain minor overall (C. Lowe, pers. comm.).
- **There is no rationale for interaction between white sharks and the majority gear types used commercially here.** Peer-reviewed research documents no trap or dive fishery interactions with JWS, the majority gear types used here (Lowe et al. 2012). Prohibiting trap and dive fisheries in the proposed MPA to protect white sharks lacks biological justification.
- **A 9 square mile MPA cannot meaningfully protect a species that uses the entire Southern California Bight as nursery habitat.** Tagging data show that young-of-year white sharks may travel over 3,000 miles in their first year, with their most precarious habitat use occurring in Mexican waters. Multiple nursery aggregation sites exist along the Southern California coastline and around Santa Cruz Island, with sharks moving freely between them. While JWS may spend weeks to months at Carpinteria, they regularly move to other sites (See Anderson et al. 2021 a and b, Logan et al. 2024 and Freedman et al. 2022).

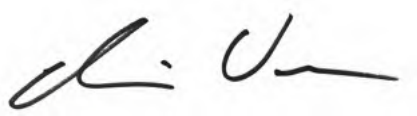
This Area Was Already Considered and Traded Off During the MLPA Process

The Carpinteria site was evaluated during the MLPA southern region process and was deliberately traded off in favor of the Naples and Kashtayit SMCAs. Approving this petition would undermine the stakeholder agreements reached during that process and destroy trust and respect for future policy processes. We have been told clearly by CDFW that prior negotiations to keep Carp Reef open would be respected in the petition process.

For these reasons, CFSB urges the Commission to reject Petition 2023-29MPA-AM1.

Respectfully submitted,

Commercial Fishermen of Santa Barbara



Chris Voss, President

Kim Selkoe, Executive Director

Literature Cited

Anderson, James M., et al. *"Non-random Co-occurrence of Juvenile White Sharks (Carcharodon carcharias) at Seasonal Aggregation Sites in Southern California." Frontiers in Marine Science*, vol. 8, 2021, article 688505, https://doi.org/10.3389/fmars.2021.688505

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Washburn, Libe, Brian M. Emery, and Jeffrey D. Paduan. *"The Surface Circulation of the Santa Barbara Channel as Observed with High Frequency Radar."* 2002, University of California, Santa Barbara. PDF, https://sbbotanicgarden.org/wp-content/uploads/2022/08/Washburn_et-al-2002-SB_Channel_surface_circulation.pdf

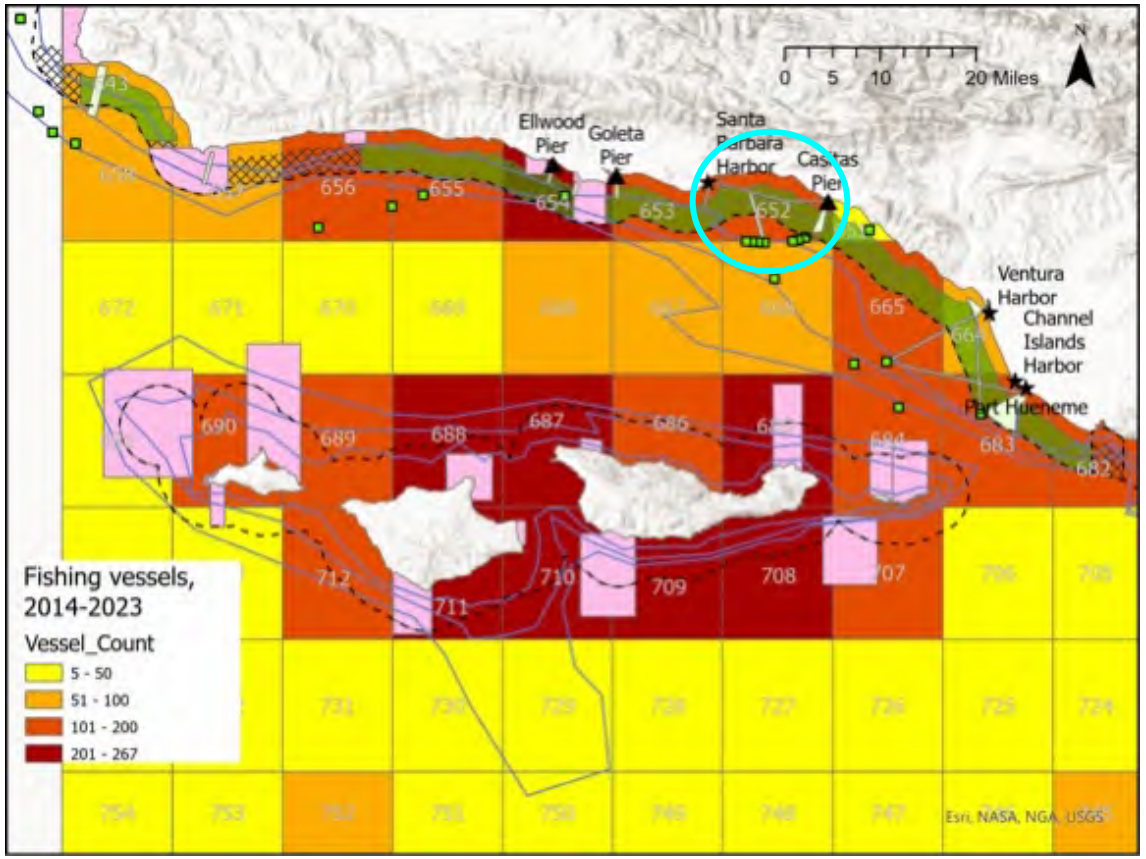
APPENDICES

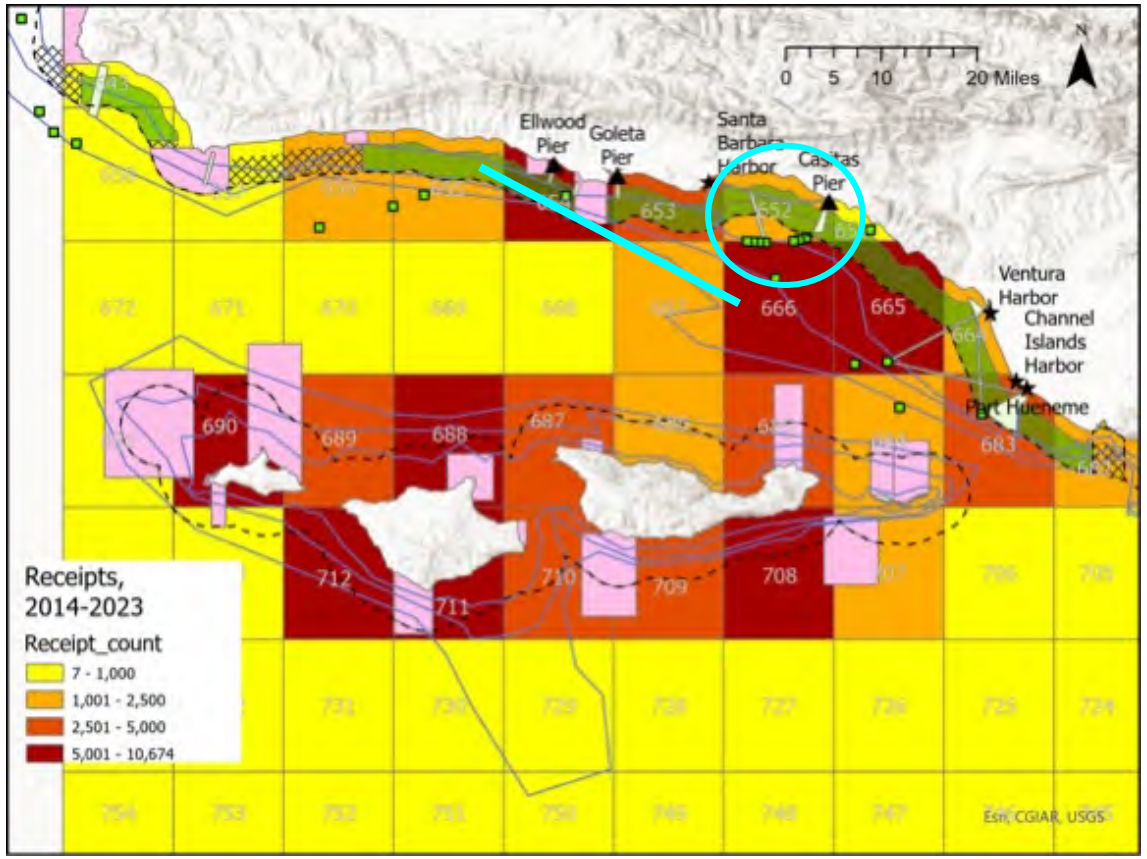
1. CDFW DATA
2. SEASKETCH METHODS

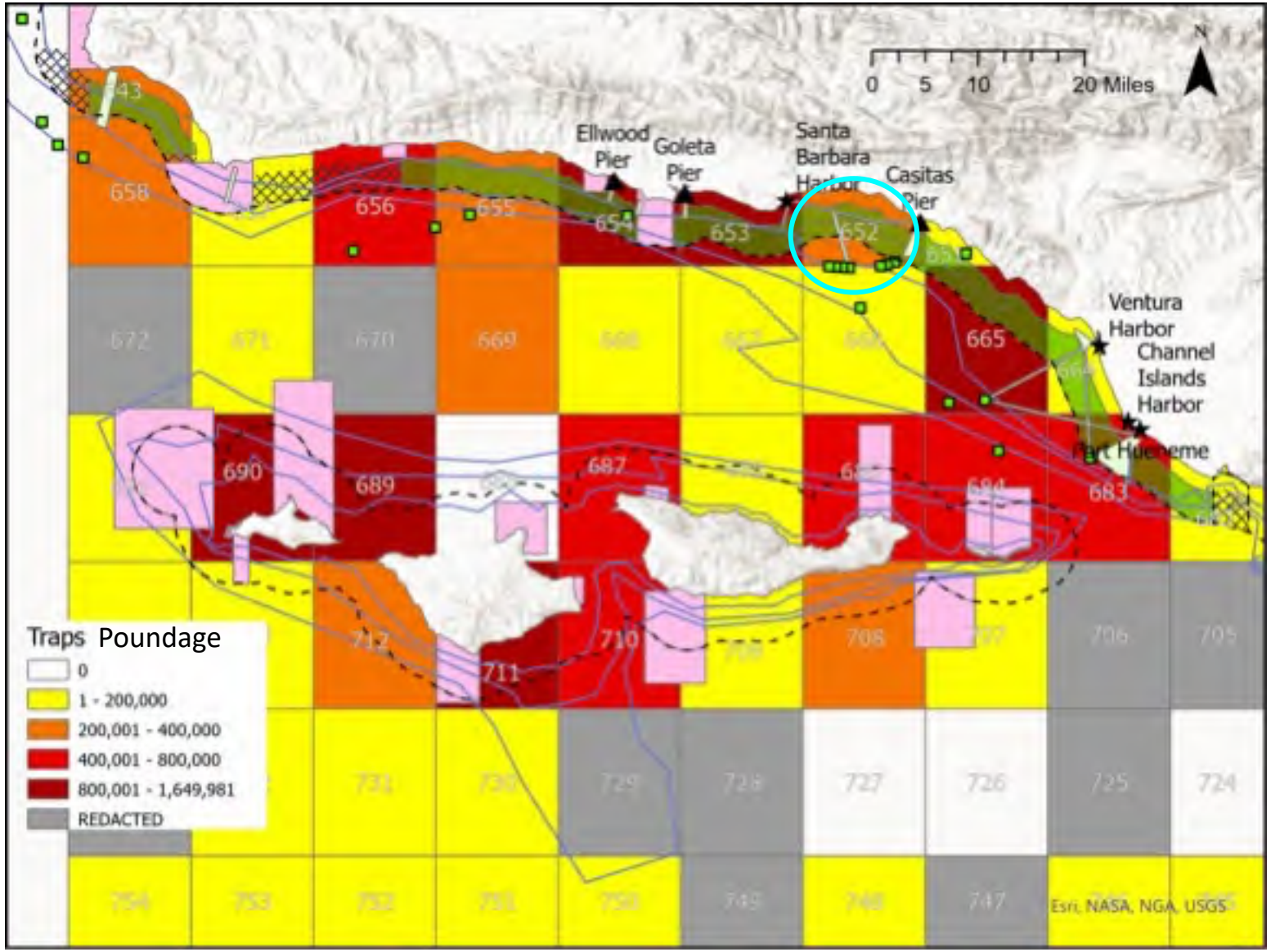
Data Compiled from CDFW records
by Mary Nishimoto, Ph.D.
shared with CFSB May 21, 2024

Blue circles added to highlight Block 652

296 vessels landed catch in Santa Barbara port area in 2023



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Ellwood Pier
Goleta Pier
Santa Barbara Harbor
Casitas Pier
Ventura Harbor
Channel Islands Harbor
Port Hueneme
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669
665
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684
683
717
711
710
708
706
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731
729
727
726
725
724
754
753
752
751
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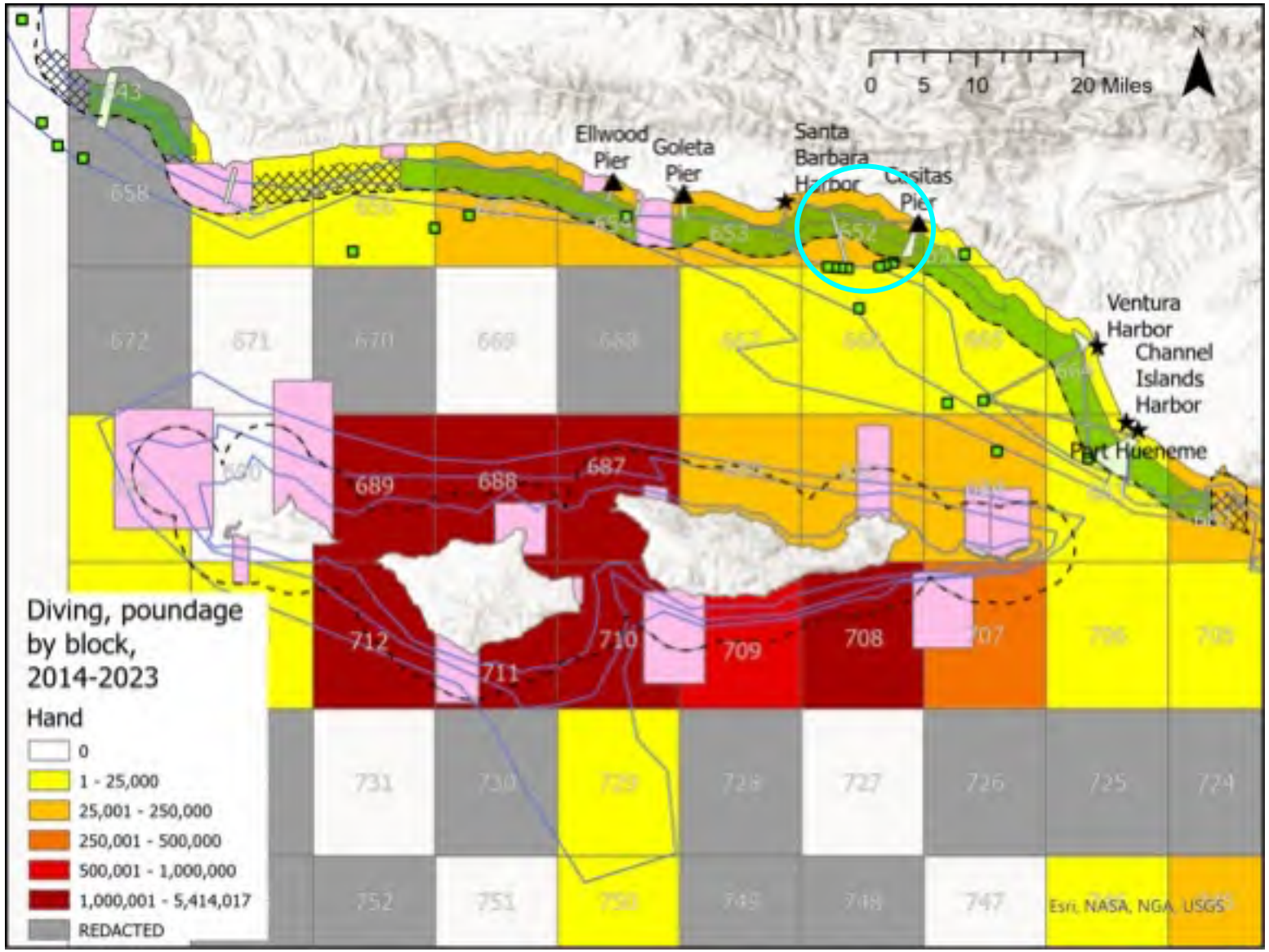
748
747
Traps Poundage
0
1 - 200,000
200,001 - 400,000
400,001 - 800,000
800,001 - 1,649,981
REDACTED
Esri, NASA, NGA, USGS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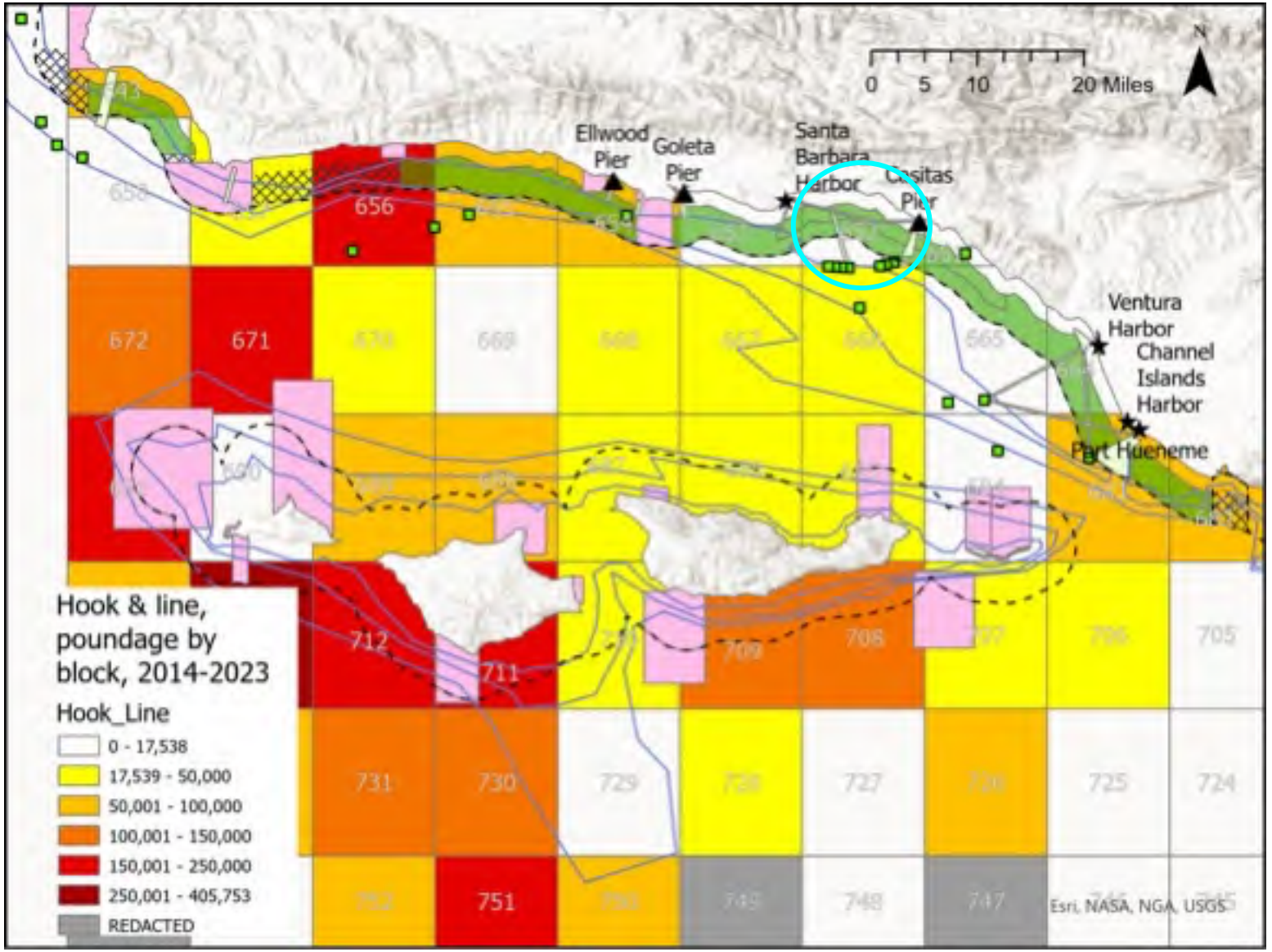
731
730
729
728
727
726
725
724
752
751
750
749
748
747
Diving, poundage by block, 2014-2023
Hand
0
1 - 25,000
25,001 - 250,000
250,001 - 500,000
500,001 - 1,000,000
1,000,001 - 5,414,017
REDACTED
Esri, NASA, NGA, USGS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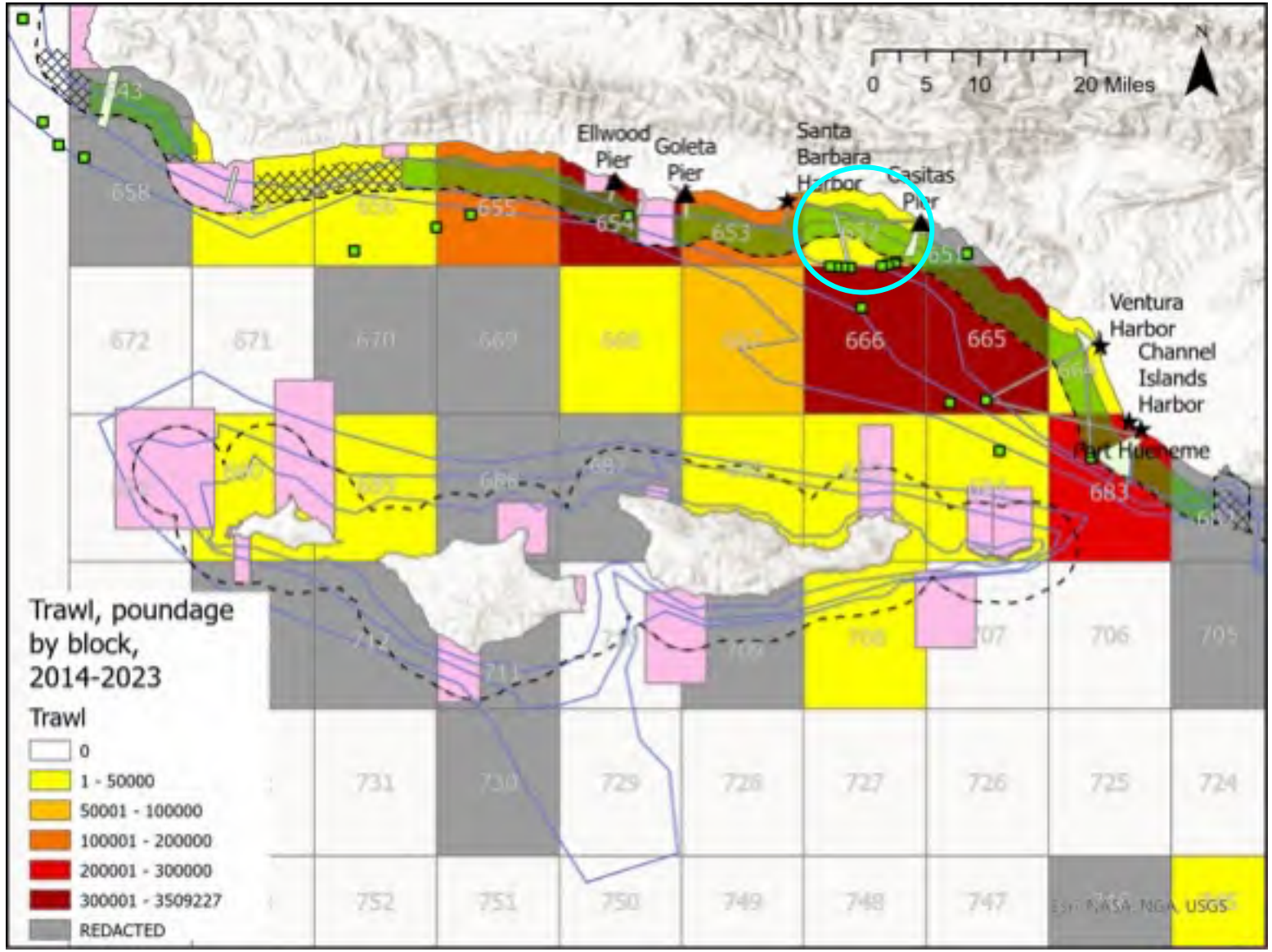
Goleta Pier
Santa Barbara Harbor
Casitas Pier
Ventura Harbor
Channel Islands Harbor
Port Hueneme
656
672
671
712
711
709
708
731
730
751
Hook & line, poundage by block, 2014-2023
Hook_Line
0 - 17,538
17,539 - 50,000
50,001 - 100,000
100,001 - 150,000
150,001 - 250,000
250,001 - 405,753
REDACTED
Esri, NASA, NGA, USGS


0 5 10 20 Miles
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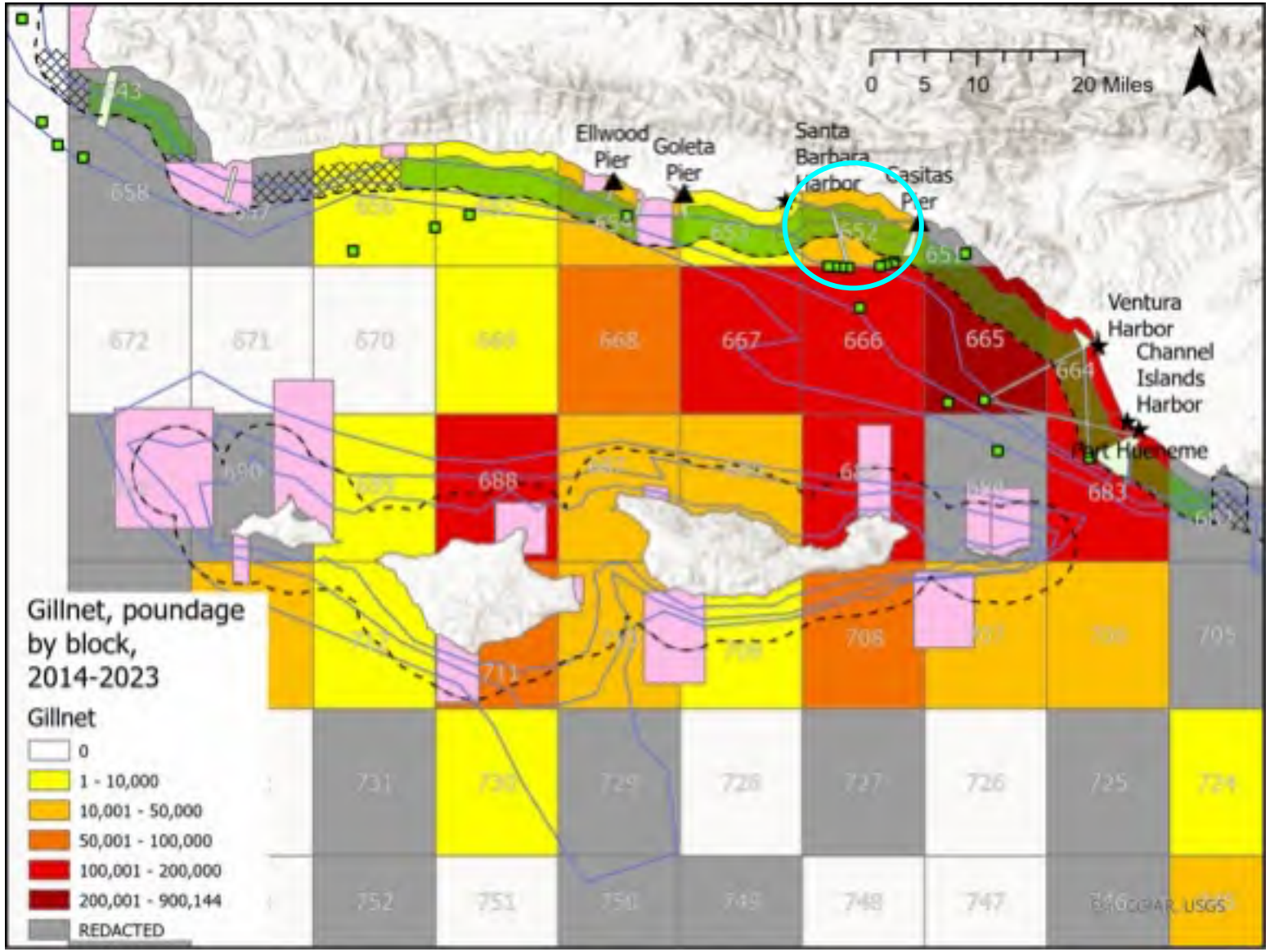
Ellwood Pier
Goleta Pier
Santa Barbara Harbor
Casitas Pier
Ventura Harbor
Channel Islands Harbor
Port Hueneme
Trawl, poundage by block, 2014-2023
Trawl
0
1 - 50000
50001 - 100000
100001 - 200000
200001 - 300000
300001 - 3509227
REDACTED


0 5 10 20 Miles
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Ellwood Pier
Goleta Pier
Santa Barbara Harbor
Casitas Pier
Ventura Harbor
Channel Islands Harbor
Port Hueneme
Gillnet, poundage by block, 2014-2023
Gillnet
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10,001 - 50,000
50,001 - 100,000
100,001 - 200,000
200,001 - 900,144
REDACTED
CDFW, USGS

SB Port Area ranked #1 in 2023 for vessel count

Port Area	Vessel Count		Fisher Count		Business Count		Landing Receipt Count	
Santa Barbara	296	(20.9%)	331	(22.5%)	117	(23.3%)	8577	(22.4%)
All Port Areas	1417		1472		502		38251	

SB Port Area ranked #2 in 2023 for poundage

Port Area	**Pounds**	**% Pounds**	**Value**	**% Value**
Santa Barbara	23,362,611	20.9%	$ 35,148,796	21.8%
Total, California	111,586,240		$ 161,221,551	

Number of commercial fishing vessels, fishers, and businesses reported on landing receipts from ports in the Santa Barbara Port Area and the percentage of the total from the port area in 2023.*

Port	Vessels		Fishers		Businesses		Receipts	
Santa Barbara Harbor	155	(52.4%)	175	(52.9%)	68	(58.1%)	4260	(49.7%)
Oxnard/Channel Islands Harbor	98	(33.1%)	112	(33.8%)	54	(46.2%)	2269	(26.5%)
Ventura Harbor	88	(29.7%)	97	(29.3%)	45	(38.5%)	1816	(21.2%)
Port Hueneme	21	(7.1%)	23	(6.9%)	10	(8.5%)	229	(2.7%)
Port Area Total	296		331		117		8577	

Volume and ex-vessel value of species landed in ports of the Santa Barbara Port Area in 2023. The value of each of the listed species landed in a port was $200,000 or greater.

Port: **Species**	**Pounds**	**Value**	**% Total Pounds**	**% Total Value**
Santa Barbara Harbor:				
Lobster, California spiny	308,118	$6,083,039	15.2%	48.6%
Sea urchin, red	799,178	$2,955,788	39.5%	23.6%
Crab, yellow rock	171,770	$444,900	8.5%	3.6%
Sablefish	141,701	$437,221	7.0%	3.5%
Rockfish, vermilion	107,392	$403,812	5.3%	3.2%
Halibut, California	66,144	$394,001	3.3%	3.1%
Prawn, spot	18,888	$369,819	0.9%	3.0%
Crab, red rock	180,900	$363,925	8.9%	2.9%
Thornyhead, shortspine	25,109	$281,859	1.2%	2.3%
Sea cucumber, giant red	37,659	$232,588	1.9%	1.9%
Additional species (93)	164,398	$543,764	8.1%	4.3%
Total	*2,021,257*	*$12,510,716*		

CFSB SeaSketch Mapping Project: Methodology Report

June 2024

Madeline Berger

Data Collection

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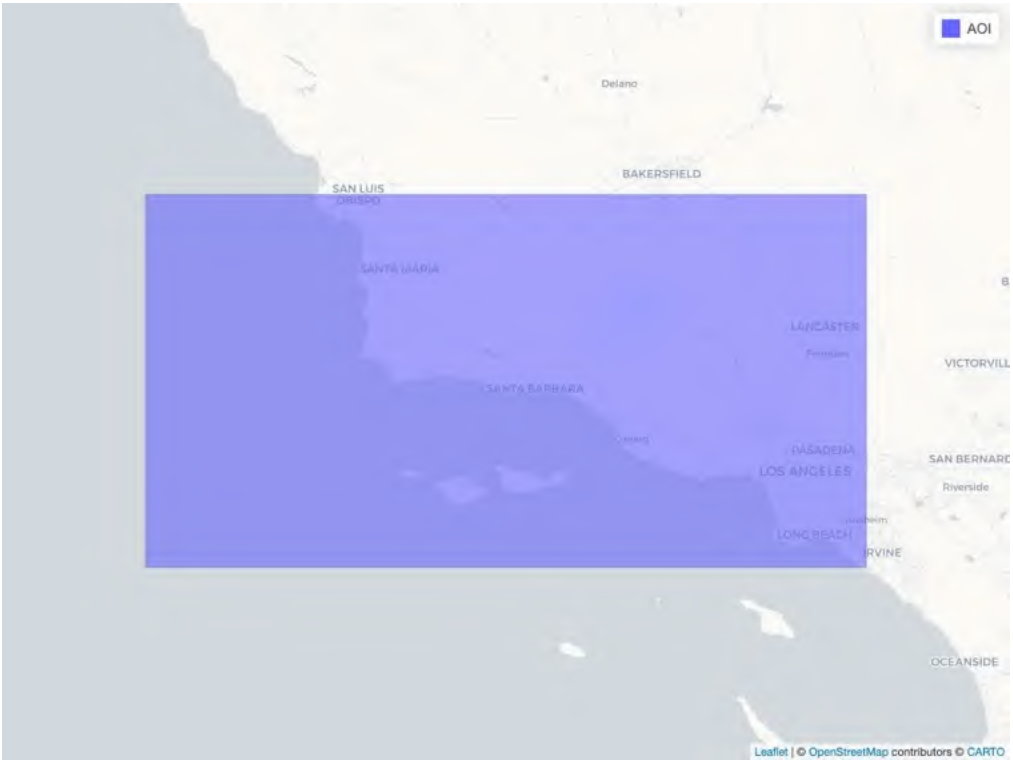

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The survey respondents indicated that they used a wide variety of gear types and targeted many different species in the Santa Barbara Channel. Appendices 2 and 3 provide the number of respondents for each gear and species choice provided on the SeaSketch survey.

Table 1: Survey Respondents per Landing Harbor

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Maps

Below are still images of the cumulative maps. These maps are 100 x 100 meter rasters symbolized using a linear interpolation between the 1st and 99th percentile of values. All values outside these percentiles (i.e. extreme high or low outliers) are grouped into the end color bins. Outliers were further trimmed from these maps by excluding any values with more than 16 bits.

Maps are available by request at info@cfsb.info.

Worked Cited

1. R Core Team (2021). R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria.https://www.R-project.org/.
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Appendix

A: Datasets created

A shapefile and raster were created for each of the following sectors, species fished and gear types used:

Sector / Activity Type (5)	Species (37)	Gear (13)
Commercial Fishing (all gear types) Commercial Fishing - omitting diving Commercial Fishing - omitting trapping Commercial Fishing - omitting diving and trapping Boat Transit	*Angel Shark* *Albacore* *Black cod* *Bonito* *Box Crab* *Dorado* *Halibut* *Kelp* *Kellet's Whelk* *Ling cod* *Lobster* *Louvar* *Mackerel/ sardines / anchovies* *Ocean Whitefish* *Octopus* *Opah* *Pelagic Shark* *Ridgeback shrimp* *Rock Crab* *Rockfish* *Salmon* *Sand Dab* *Sea Cucumber* *Sheephead* *Slime Eels* *Sole* *Spider Crab* *Spot Prawn* *Squid* *Swordfish* *Thornyhead* *Thresher shark* *Tuna* *Urchin* *White Seabass* *Yellowtail* *Other*	Deepset buoy line Deepset longline Dive/Rake/Bag Drag/Troll/Bottom Trawl Drift gillnet Harpoon Hook and Line / Longline Kelp cutter / harvester Lampara nets Purse seine Set gill net Trap Other

B. Responses per gear type

Fishers could select more than one gear type for each shape they drew, therefore the total respondents for each of these tables exceeds the total number of unique individuals that filled out the survey. Trap was the gear type with the most responses, and lampara nets and kelp cutters / harvesters were selected the least number of times.

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deepset buoy line	12	31
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drag / troll	18	48
dive/rake/bag	22	91
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trap	31	96

C. Responses per species

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kelp	5	17
lingcod	17	38
lobster	24	72
louvar	1	2
mackerel/ sardines / anchovies	18	52
ocean whitefish	25	68
octopus	3	6
opah	2	3
other	16	31
pelagic shark	13	35
ridgeback shrimp	10	26
rock crab	26	65
rockfish	32	84
salmon	13	24
sand dab	15	35
sea cucumber	14	49
sheephead	16	39
slime eels	3	4
sole	9	18
spider crab	11	25
spot prawn	9	26
squid	14	46
swordfish	15	30
thornyhead	11	21
thresher shark	15	34
tuna	19	40
urchin	21	80
white seabass	33	84
yellowtail	29	73

COMMERCIAL FISHERMEN OF SANTA BARBARA

February 23, 2026

California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

RE: Opposition to Petition 2023-33MPA-AM1 — Proposed MPA Expansions in the Santa Barbara Channel and Northern Channel Islands

Dear Commissioners:

Commercial Fishermen of Santa Barbara (CFSB) respectfully submits this letter in opposition to Petition 2023-33MPA-AM1.

For over 40 years, Commercial Fishermen of Santa Barbara ("CFSB"), a 501(c)3 non-profit organization, has been committed to making our local fishing community resilient and effective by providing healthy, high-quality seafood to local and global markets, ensuring the economic and biological sustainability of fisheries, and maintaining California's fishing heritage. CFSB currently has over 80 members. We represent the interests of a diverse set of fishermen, shellfish farmers, and seafood processors and distributors who are leaders in the commercial fishing industry.

While CFSB is fully committed to kelp ecosystem stewardship and actively engages in kelp restoration, we cannot support the proposed closures of fishing grounds proposed in Petition 33.

Our opposition to Petition 33 rests on three fundamental concerns: the scientific rationale for these closures is weak; the proposed MPAs could undermine more effective restoration strategies; and the economic harm to fishing communities would be substantial, long-term, and is inadequately analyzed.

This letter includes newly available data relevant to the proposed closures by Petition 33 in the Santa Barbara Channel in particular, at Point Conception, Santa Rosa Island, Gull Island, and Point Dume, areas which our fishing community especially depends upon.

I. The Scientific Rationale Does Not Support These Closures

The petition is misaligned with the drivers of kelp loss. The scientific literature is clear that disease epidemics in sea stars, ENSO dynamics, and marine heatwaves are the primary causes of kelp decline. Excluding fishing does nothing to address these factors. At the Northern Channel Islands, urchin barrens—not fishing pressure—are the inhibitor of kelp regrowth, and predators

generally do not feed on nutritionally depleted purple urchins in barrens due to their low caloric content; protecting predators will not resolve the barren state. At the coastal site proposed for new closure (Point Conception), food web dynamics are not evident as drivers of kelp abundance; few urchin barrens are even present on the SB Channel coast (according to urchin divers and abalone restoration divers recently diving there). Other factors, possibly pollution and sedimentation in addition to climatic factors, may be inhibiting kelp on the Gaviota coast. In neither case does the exclusion of fishing address the actual drivers of kelp loss.

The cited research does not justify new MPAs. Giraldo-Ospina et al. (2023) recommends three actions: monitoring sites for triggers warranting intervention, defending sites from threats, and studying mechanisms of resistance to marine heatwaves. The first two are better accomplished by preserving access by commercial divers, who cover far more territory than static subtidal transects and can monitor and rapidly mobilize to defend areas through purple urchin harvest. The third is better studied using the existing MPA network rather than establishing new closures that will take years to yield data. Notably, the study's identification of high-resilience kelp forests outside current MPA boundaries suggests that fisheries are not impairing kelp resilience to its main stressors. As noted by many other letter-writers, the scientific evidence for causal relationships between MPA protection and kelp resilience or MPA protection and biodiversity metrics in the Carr and Caselle (2021) report is too weak to justify the economic harm that could come from the closures in this petition. Other studies, such as Ovando et al. (2021), demonstrate no net biomass gain was associated with the MPA network in the Channel Islands and explain that in the absence of ongoing over-fishing (which is not occurring here), MPAs do not show broadscale net biodiversity gains.

The proposed closures extend far beyond kelp habitat. All but one of the proposed expansions (Gull Island) cover waters well beyond kelp's natural growing depth. The petition offers no rationale for closing deepwater areas to fisheries with no ecological connection to kelp ecosystems.

Scientific modeling tools exist to guide spatial placement of new area closures but have not been used. Many of these tools were developed in response to the previous California MPA Network process and should be leveraged if future changes to the MPA Network are warranted. These tools can present alternatives and evaluate trade-offs to simultaneously maximize intended biodiversity protections and minimize negative fishery impacts.

II. MPA Designation Could Undermine More Effective Restoration Strategies

MPA designation reduces the available toolkit. Designating these areas as MPAs makes implementation of commercial purple urchin harvest, kelp re-seeding, sea star outplanting, and importantly - future tech-based innovations yet to be developed - more time-consuming and difficult - or impossible - to permit for use in these places. The Ocean Protection Council's strategic plan commits to restoring at least 2,000 acres of kelp forest by 2030, with over $10 million recently allocated to kelp restoration projects. This substantial state investment in active restoration represents a more cost-effective and scientifically grounded approach than permanent fishery closures—particularly given the weak evidence that these fisheries negatively impact kelp recovery.

Commercial fishers are the most viable monitoring system. Subtidal monitoring using research transects covers less than one acre at largely static locations. Commercial divers routinely survey far greater areas and actively track kelp and urchin dynamics. Excluding them from these large areas eliminates the most practical, cost-effective system for detecting conditions that warrant intervention.

Active restoration is proving effective. CFSB has partnered with UC Santa Barbara, The Nature Conservancy, and The Bay Foundation to develop and demonstrate fishery-mediated kelp restoration. At a one-acre pilot site in Tyler Bight, San Miguel Island, commercial divers harvested 3,000 pounds of purple urchin between June and September 2025. PISCO-method monitoring at the harvest site and a nearby control site occurred in May 2025, October 2025, and January 2026. Our positive results echo those of TNC and The Bay Foundation in other parts of the State.

The results of our study in Figure 1 below demonstrate that commercial harvest can effectively restore kelp habitat:

- Purple urchin density was reduced (by harvest) to two-thirds, to approximately 35 per square meter in September 2025, and held at that level through January 2026 without further intervention
- Red urchin density remained unchanged—indistinguishable from pre-harvest levels and the control site
- Kelp (*Macrocystis pyrifera*) count increased from fewer than 5 plants pre-harvest to over 35 in October post-harvest
- Total algal count increased from fewer than 20 plants pre-harvest to over 280 in January post-harvest
- The nearby control site showed near-zero algal counts throughout the monitoring period, suggesting that kelp recovery at the harvest site benefited from the intervention

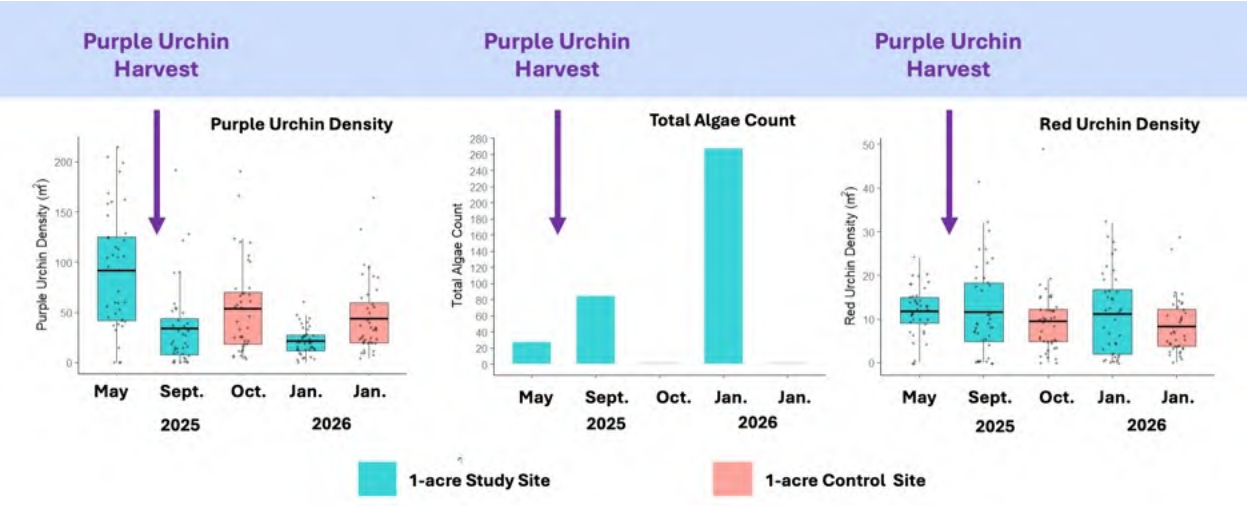


Figure 1. Results of CFSB's purple urchin removal pilot project at Tyler Bight in San Miguel Island that harvested 3,000 lbs of purple urchin in 1 acre. Data collected, analyzed and displayed by the Caselle Lab at UCSB.

We are simultaneously developing cost-effective market demand for harvested purple urchin to ensure this approach is economically sustainable at scale. The proposed MPAs would restrict our community's ability to expand these demonstrated strategies to other island and coastal sites in the Channel.

III. The Economic Harm Would Be Substantial and Inadequately Analyzed

The petition's economic analysis is insufficient. The assertion that these closures represent merely "short-term impacts" that will be "outweighed by larger benefits in the future" is unsupportable. The Coastal Fishing Communities Policy would suggest that a transparent, structured stakeholder engagement process and economic analysis of each proposed closure is required. This analysis must consider the full economic contribution of fisheries to coastal economies and must be predicated on place-based science using best-available science.

Spillover assumptions do not apply uniformly. The petition relies heavily on Lenihan et al. (2021), but lobster exhibits spillover dynamics that many other affected fisheries do not—particularly the sea urchin fishery, which is critical to our working waterfronts. The claim that "regional and statewide fishery landings and values do not appear to have been negatively impacted by MPAs" cannot be extrapolated here; these analyses must be conducted fishery by fishery and region by region for these specific proposed closures.

Displacement creates documented harm. These closures cannot rationally be characterized as short-term impacts. Displacement will create long-term fisheries compaction with documented negative ecological effects. As an example, Petition 2023-27MPA-AM1 regarding lobster fishing impacts on eelgrass at Frenchy's Cove, Anacapa Island, describes habitat impacts that began only after coastal MPAs forced fleet relocation. Compressing fisheries into crowded, suboptimal grounds reduces catch per unit effort and may intensify habitat impacts outside MPAs.

These grounds have irreplaceable value. CFSB conducted a Seasketch spatial assessment in 2023-2024 with 53 commercial fishers across three ports, funded by the ARPA-E MARINER program and analyzed by UCSB's Seasketch lab. The results show that the proposed closure areas rank among the highest-value (dark red, in Figure 2 below) for fishing grounds in the Santa Barbara Channel for multiple gear types, many of which have no scientific rationale for negative influence on kelp:

- **South Point, Santa Rosa Island:** Diving, Deep Set Buoy, Deep Set Longline, Harpoon, Lampara
- **Point Conception:** Deep Set Buoy, Deep Set Longline, Traps, Hook and Line, Kelp Cutting, Seine Net
- **Gull Island:** Diving, Traps, Deep Set Buoy, Deep Set Longline, Harpoon, Lampara, Hook and Line, Seine Net
- **Point Dume:** Diving, Hook and Line, Seine Net

Fishers invest decades learning to harvest strategically, sustainably and safely from specific grounds given weather, currents, tides, seasons, topography and ecology. As one urchin diver

stated, closing this area "is akin to taking away my college degree"—years of accumulated knowledge that cannot simply be transferred elsewhere.

Port viability is at stake. These closures threaten functional port economies reliant on commercial fishing, potentially pushing our ports below the minimum viable threshold needed to support fishing community resilience—including fully utilized shoreside infrastructure, intergenerational knowledge transmission, and local supply chains. This directly threatens California's food production capacity and the food security of our coastal communities. Santa Barbara was the State's top producing region in 2023, partly due to the declining rankings of other ports historically strong in Salmo and Dungeness. Hampering Santa Barbara is a nail in the coffin of wild, local and sustainable fisheries for the State.

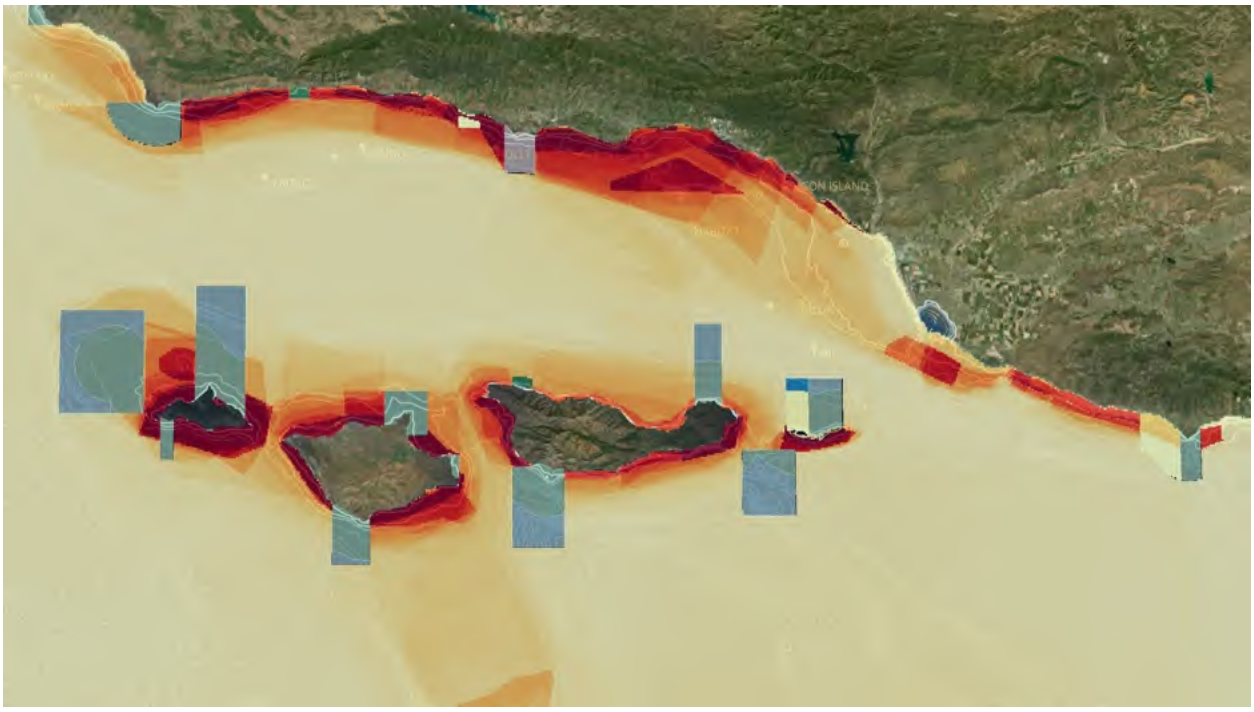


Figure 2. Composite Seasketch heatmap showing the value of fishing grounds in the Santa Barbara Channel to 53 fishers based in SB and Ventura. Note that biases are possible, especially at the coastal margins, where fishers from other ports may more highly value grounds than the respondents. See appendix for more study information.

Conclusion and Request

CFSB urges the Commission to deny Petition 2023-33MPA-AM1. The scientific rationale for these closures is insufficient - for all fisheries but particularly for fisheries that do not target kelp forest species. The proposed MPAs would restrict proven restoration strategies while imposing substantial, long-term economic harm on fishing communities that has not been adequately analyzed as required by the Coastal Fishing Communities Policy.

We recognize that many who support this petition share our commitment to kelp forest health. However, well-intentioned support cannot substitute for rigorous, site-specific analysis. The areas proposed for closure were not selected based on evidence that fishing is driving kelp loss at those sites, nor with adequate consideration of the impacts on fishing communities who depend on them.

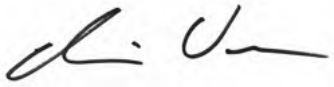
If the Commission seeks new kelp protection measures, we respectfully request that any action:

1. Require rigorous, site-specific analysis of the proximate causes of kelp loss and the actual influence of each affected fishery
2. Conduct a full economic cost-benefit analysis in line with the Coastal Fishing Communities Policy
3. Exclude urchin fisheries from any restrictions, given that they target a kelp suppressor
4. Exclude fisheries with no connection to kelp forest dynamics, including pelagic and deepwater fisheries
5. Prioritize investment in active restoration strategies that have demonstrated effectiveness

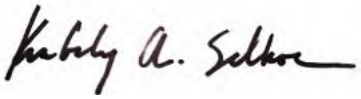
We appreciate the Commission's consideration of these concerns and welcome discussion.

Respectfully,

Commercial Fishermen of Santa Barbara



Chris Voss, President



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Appendix: Seasketch Methodology Report

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June 2024

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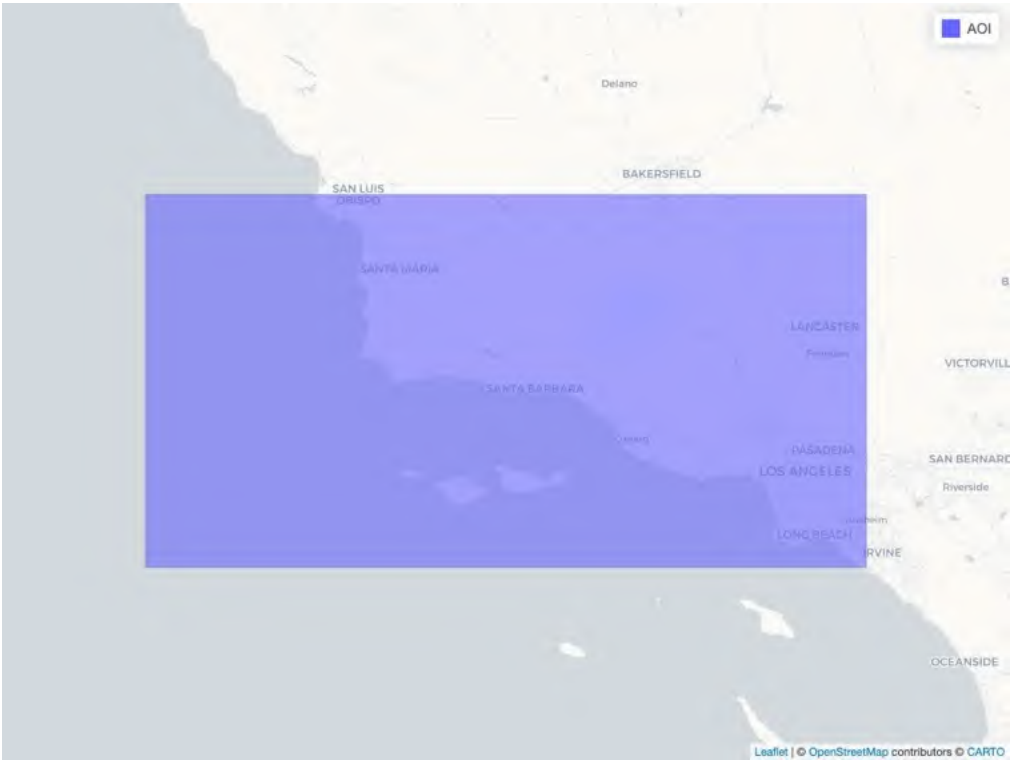

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scpd@santacruzharbor.org
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PORT COMMISSIONERS
Toby Goddard
Reed Geisreiter
Stephen Reed
Bill Lee
Robert DeWitt

March 25, 2026

California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

SUBJECT: Opposition to Marine Protected Area Regulation Change Petition 2023-33MPA

Commissioners:

The Santa Cruz Port District recognizes that properly designed and managed Marine Protected Areas (MPAs) play a critical role in protecting the natural diversity and abundance of marine life along the California Coast. Significant resources are required to manage California's extensive network of MPAs, and we appreciate the opportunity to comment on the proposed regulation change petitions which are currently being considered.

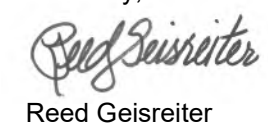
As you know, California's network of MPAs was developed by utilizing a science-based and highly collaborative stakeholder-driven planning process. This was done to ensure that California's MPAs had clearly defined objectives, were based on sound scientific guidelines, and accurately balanced both ecological and socioeconomic priorities by region.

Petition 2023-33MPA seeks, in part, to designate one new SMR off Pleasure Point and expand the boundary of one existing SMR off Natural Bridges for purposes of kelp forest preservation. The Santa Cruz Port District is writing to express its strong opposition to Petition 2023-33MPA and request that it be denied.

As proposed, Petition 2023-33MPA is extremely broad and would result in the wholesale elimination of commercial and recreational fishing opportunities in areas directly adjacent to Santa Cruz Harbor. The petition fails to provide regionally specific scientific substantiation to support its position, neglects to comprehensively evaluate the socioeconomic impacts associated with implementing and revising MPAs in locations directly adjacent to active fishing ports, and fails to work collaboratively with key regional stakeholders. If approved, Petition 2023-33MPA will significantly impact commercial and recreational fishing activities in the Monterey Bay, resulting in detrimental ramifications to the health and vitality of our coastal community.

The Santa Cruz Port District has been a longstanding collaborative partner with CDFW, performing extensive outreach and MPA education to the boating and fishing communities. We recognize that safeguarding the integrity of our region's ecosystem is critical, but oppose enacting regulation change petitions that seek wholesale elimination of fishing access, lack regionally specific scientific substantiation, and fail to garner input from key regional stakeholders. Accordingly, we request that action be taken to deny Petition 2023-33MPA.

Sincerely,



Reed Geisreiter
Santa Cruz Port Commission Chair

Outlook

Agenda item 2 FGC April 15, MPA Bin 2 Petitions

From Jaime Diamond <info@stardustsportfishing.com>
Date Mon 03/30/2026 08:18 PM
To FGC <FGC@fgc.ca.gov>

Clarifying my attached letter is for agenda item 2 4/15/26

On Mon, Mar 30, 2026 at 8:14 PM Jaime Diamond <info@stardustsportfishing.com> wrote:

> Please confirm receipt of my attached comments.
>
> --
> Jaime Diamond

--
Jaime Diamond
Stardust/Coral Sea
Owner
805-259-6775
www.StardustSportfishing.com

March 28, 2026

To: California Fish and Game Commission

From: Stardust Sportfishing and Santa Barbara Landing

Subject: Bin 2 Petition Analysis

Dear Chair Sklar and Commissioners,

Stardust Sportfishing and Santa Barbara Landing offers sportfishing trips, whale watching, guided Channel Islands kayaking and SCUBA adventures, SCUBA instruction, kayak & jet ski rentals, fishing clinics, and a bait and tackle store located in the Santa Barbara Harbor. We are the main provider of ocean access (both consumptive and non-consumptive) to the public from Santa Barbara. Stardust Sportfishing is owned by husband and wife team Captain Jason and Jaime Diamond. We are board members of The Sportfishing Association of California, and Jaime serves as Regional Vice President of SAC.

The MPA network was developed after an extensive and traumatic process, Captain Jason was part of the regional stakeholder group for the Santa Barbara area. Recreational anglers and charter operators had to adapt to the loss of access to approximately fifty percent of our traditional fishing areas. Unfortunately, some were not able to and went out of business.

Today, we have adapted to the framework, trust has been built as recreational anglers and vessels from the CPFV sector including our vessels Stardust & Coral Sea, have been involved in the study of the MPA network. We believed what we were told, it would never happen again, that was it. Unfortunately, now, we find ourselves far down the path of MPA 2.0, despite a list of 27 adaptive management recommendations from the MPA Decadal Management Review, which would or could have offered meaningful change to improve and strengthen the network vs blanket expansions. The sportfishing industry did not submit petitions to remove any MPA's, because we respect the work that has been done, and the protections as they are.

We applaud the CDFW analyses of the non-tribal bin 2 2023 MPA petitions submitted in response to the Decadal Management Review recognizing the adaptive management component of the Marine Life Protection Act.

In 2023 the "draft evaluation framework (Draft Framework) was developed for the 15 Bin 2 Petitions that propose changes to the Marine Protected Area (MPA) Network that were received by the California Fish and Game Commission (CFGC) and referred to the California Department of Fish and Wildlife (CDFW) in 2023. CDFW developed the Draft Framework, with support from staff at the CFGC and Ocean Protection Council (OPC), based on the adaptive management process outlined in chapter 4 of the 2016 Master Plan for MPAs. The 2016 Master Plan directs CDFW and CFGC to use the Marine Life Protection Act (MLPA) goals and mandates, MPA objectives, and design considerations as the primary basis for any action taken to make

changes to the MPA Network. The Draft Framework also draws from the Decadal Management Review (DMR) and recommendations, and the MPA Regulation Change Petition Framework approved by CFGC at their August 2023 meeting, which is rooted in the DMR recommendation cornerstones of MPA Governance, MPA Management Program Activities, and MPA Network Performance." (Evaluation Framework for 2023 Marine Protected Area Bin 2 Petitions at https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=232901&inline).

We support the Department's work product and recommendations and believe the Department has exhaustively researched and cited the components of the MLPAI process which illuminate the choices and considerations to guide their analyses and recommendations.

We offer our recommendations to the Commission for1 tribal petition and 5 non-tribal petitions that would have a detrimental impact on our own business and the broader sportfishing community a. We review the implications of the proposed actions with the greatest potential impact on our ability to provide public access to the state's rich and sustainably managed marine resources, our continued economic vitality, and the overall continued sustainable management of our fisheries.

Petition 2023-29MPA, and absent CDFW recommendations,

DENY based on the following:

Petitioners propose the establishment of a new State Marine Conservation Area off the coast of Carpinteria. This proposal is redundant, scientifically unsupported, reduces public access to all but the documented members of the Federally recognized Santa Ynez Band of Chumash. It creates an undue burden on a region already heavily impacted MPA fisheries closures.

Tribal Stewardship and Co-Management

We continue to support California's commitment to tribal sovereignty and co-management of native resources. However, we emphasize that tribal stewardship does not require the creation of new MPAs.

Tribal stewardship is currently a component of the MPA framework under the MLPA Master Plan. There are four MPA's allowing the Santa Ynez Band of Chumash exclusive fishing access at Anacapa SMCA, Naples Reef SMCA, Point Dume SMCA, and Kashtayit SMCA. Tribal exemptions allow traditional and ceremonial take. These examples demonstrate that the state can honor its commitment to tribal sovereignty and Traditional Ecological Knowledge (TEK) by modifying current regulations without closing additional area to public access for fishing. This was most recently done at the August 22, 2018, FGC meeting.

The Santa Ynez Band of Chumash previously submitted a petition for Tribal Take within several existing MPA's. In 2018, after a full analysis, the FGC approved their petition. (FGC Decision Document 08-22-2018) The new petition 2023-29MPA is exclusionary in nature. The area they propose is currently open and accessible to the public and all tribal members regardless of federal recognition. If implemented this new closure would exclude access for all others, including descendants of local Chumash who also have ancestral ties to these waters but are not registered members of the Santa Ynez Band. True collaborative co-management should be explored across California's entire MPA network to ensure equitable access for all tribal

members. We encourage you to prioritize collaborative management at these existing sites. Additional closures which eliminate access for non-federally recognized tribes and the public are not needed, nor appropriate.

Scientific Rationale for Denial

The scientific justifications provided in the petition are fundamentally flawed:
Connectivity: The petition argues for a new MPA to fill a gap in the network. However, official measurements show the spacing between existing MPAs at Campus Point and Point Dume is 60.60 miles, which falls within the state's recommended 31–62 mile spacing guideline, making a new designation unnecessary.

Species-Specific Protection: The petition focuses heavily on protecting juvenile white shark nurseries. The Fish and Game Commission established clear precedent in 2020 when it denied a nearly identical petition for this exact location, stating that MPAs are intended to protect entire ecosystems, not individual highly mobile species like sharks.

The petitioner proposes allowing shore-based finfish take, which reduces the area's Level of Protection to moderate-low. Under the MLPAI SAT guidance this LOP would not support MPA connectivity goal.

Disproportionate Regional Impact

The Santa Barbara Channel is already one of the most protected regions in California with 19 MPA's. Currently, 21% of Channel Islands National Marine Sanctuary waters in this area are protected, significantly exceeding the state average of 16%. Furthermore, 96.41% of the Channel Islands MPA network is designated as no-take, compared to a 60% average for the rest of the state. Closing Carpinteria would further marginalize local recreational fishermen who have already seen their traditional grounds significantly reduced.

Carpinteria Reef, the reef that would be almost entirely inside the proposed MPA, is one of relatively few reef areas close to harbor for fishing. Approving this petition will be the end of local fishing access to coastal reefs. It will totally exclude opportunity for those who cannot afford or safely travel across to the Channel Islands such as skiffs, kayak fishermen and freedivers. The reefs in the protected waters of the proposed MPA are where charter boats take first timers, trips with special needs children, and our wounded warriors due to close proximity to the harbor, generally protected area from weather, and the variety of fish habitat in this zone. There is also an overwhelming amount of public outcry on this petition due to a lack of meaningful local outreach. The Carpinteria reef area is vital to the local community, economy, local charter businesses, and tourism. Closing this area to fishing would ignore carefully negotiated outcome for this region during the MLPAI process. It would greatly reduce access for all non-Santa Ynez Band Chumash tribal people as well as create regulatory conflicts in the planned decommissioning of oil infrastructure in the area. We respectfully urge you to deny Petition 2023-29MPA---

Petition2023-27MPA-AM1 – new restrictions on anchoring within the existing Anacapa Island SMR/SMCA complex.

Deny (in concurrence with the CDFW recommendation and rationale)

There is little evidence that the current allowance of anchoring in these waters is having an enduring negative impact on seagrass beds in this area. Seagrass in the area is predominantly Zostera Marina, a resilient flowering plant that propagates predominantly through sub-benthic rhizomes lying buried beneath the seafloor in soft bottom substrates.

Its appearance and density above the bottom vary seasonally and season to season. Primary influences on its abundance are lighting (water clarity and depth), appropriate substrate, surge and current strength. The impact of anchoring, should it happen to be within an area colonized by Zostera, is minimal and temporary. Current levels of anchoring in the area are relatively low and sea grass beds disturbed quickly recover.

Members or our fleet do fish within this SMCA and appreciate the access to coastal pelagic species there. Anchoring is part of that activity, and this proposal leaves open the potential for an anchoring prohibition that would adversely impact that fishing opportunity for the public.

Petition 2023-33MPA –

This petition proposes the following MPA expansions and new MPAs

- **i. Cabrillo SMR - expand westward and northward by 15.2 sq mi ~9.9 sq mi**
- **ii. Point Dume SMCA - expand westward by 4.6 sq mi**
- **iii. South Point SMR - expand westward by 26.3 sq mi**
- **iv. Gull Island SMR - expand northward by 1.8 sq mi**
- **v. Point Conception SMR - expand eastward by 14.6 sq mi**
- **vi. Natural Bridges SMR - expand southward by 13.7 sq mi, eastward to the edge of Natural Bridges State Beach by ~14.5 sq mi**
- **vii. Pleasure Point, Santa Cruz - designate 3.2 sq mi as a new State Marine Reserve Conservation Area**

Deny (in concurrence with the CDFW recommendation and rationale)

This petition is a bold “land grab” which proposes to turn vast areas of prime, valued rocky reef habitat, especially in waters of less than 100 meters, into marine parks that ban fishing. This habitat type is already over-represented within our MPA network as compared to its natural occurrence in state waters. These proposed actions are completely out of line with the guidance provided for adaptive management measures to be considered by the Commission, which offered that this would not be MLPA-2.

To date our award winning MPA network has shown that a larger biomass-per-area of the species that fisheries target has developed within our MPAs. This state-wide result is driven by differences observed in the southern regions.

What has not been observed within the scientific monitoring effort was a difference in fish diversity, or ecosystem resistance to change (due to the recent marine heat wave). While these kinds of benefits have been observed globally that they were not here indicate two things.

The first is if there are differences in ecosystem resilience or species diversity between waters inside and outside of MPAs in California, the scale of the difference is likely to be small.

The second is quite revealing and illuminates that the existing robust fisheries management and environmental protections are already protecting biodiversity and ecosystem resilience at a very high level statewide. What's missing is only robust protection from future industrialization. However, this is something that is provided for within the National Marine Sanctuary waters.

The petitioners proposed actions would exclude fishing from vast areas of rocky bottom habitat in waters less than 100 meters. It is precisely this habitat type that our captains most depend on to provide successful fishing for our customers.

While the proposed actions are state-wide in nature, they disproportionately cost public access from Santa Barbara and Santa Cruz harbors. In areas closed to fishing the lost fishing access has so far not been compensated for by additional public participation based on an area being closed to fishing. Fishing participation transcends physical ability, socioeconomic strata, educational levels, cultural backgrounds, creeds and colors in ways SCUBA diving and underwater photography participation commonly does not.

Petition 2023-23MPA

This petition proposes to reclassify Duxbury Reef SMCA to an SMR and Expand the Southern and Northern Boundaries

Deny all proposed new restrictions to take and seaward boundary expansions in concurrence with the CDFW recommendations

The CDFW notes the following: "The petitioner asserts that current regulations cause confusion and that there has been an increase in non-compliance relative to other Marin County MPAs. These claims are unsubstantiated by CDFW enforcement data. The proposed change would not result in additional regulatory protection for the rocky intertidal habitat that the current MPA was designed to protect, and it would unnecessarily eliminate established uses previously vetted during the Marine Life Protection Act (MLPA) Initiative planning process."

Member vessel owners and operators with the Golden Gate Fisherman's Association (GGFA a SAC affiliate member) note "Our member vessels provide access to California's public fisheries for thousands of residents and visitors each year, many of whom would otherwise have no opportunity to fish due to economic, physical, or geographic limitations. Any expansion of the Duxbury Reef MPA would further restrict access to these public trust resources and disproportionately impact underprivileged and local community members who rely on affordable and equitable access to the ocean...Further closures in areas like Duxbury Reef remove historically important fishing grounds without sufficient consideration of social, economic, and access-related impacts."

GGFA members provided this broader comment on proposals that expand the area that the public is excluded from fishing. "We are concerned that continued MPA expansion without demonstrable conservation necessity shifts the burden of protection onto working families, small businesses, and underserved communities, while failing to acknowledge the conservation success already achieved through existing regulations. Limiting access does not equate to equity, nor does it automatically result in improved resource outcomes."

The SAC as a whole concurs with these SAC members' perspective.

The GGFA respects the CDFW's support for extending the intertidal invertebrate protections within this proposal "Grant in concept." This would allow the public's continued access to fish from shore. Most of our clients participate in surf fishing as well. Many if not most were first introduced to the rewards and the personal gratification that comes from harvesting one's own foods from the wild by it.

Petition 2023-24 proposal to expand the spatial extent of the prohibition of public access for fishing off the City of Laguna Beach.

Deny (in concurrence with the CDFW recommendation and rationale)

The Department found that the proposal does not "address a current or emerging MPA management challenge or align with the original intent of these MPAs as established during the MLPA Initiative planning process." They found that the proposed action would not further the proposer's stated objectives within their petition – ease of enforcement, kelp protection, whale entanglement risk.

We concur. We also note that the proposer's purpose appeared contrary to providing equitable access to a public trust resource for underserved communities (fishing within the state's submerged lands).

Rather, the intent appears to be an effort to further the relative exclusion of the public from the shorelines and coastal waters offshore of the economically exclusive community of Laguna Beach.

Our fleet out of Dana Point Harbor regularly takes the public to fish in the waters proposed for closure, a 1.3-mile stretch of some of the most scenic coastline in the state. The loss of access to fish these waters would halve the beautiful near-coastal fishing area north of Dana Point Harbor, where rocky headlands and deep secluded coves predominate.

A roughly 2.5-mile stretch immediately up-coast of the Dana Point Harbor, it is precisely these coves and headlands where the charter fleet out of Dana Wharf Sportfishing and Whale Watching takes organized groups of underserved youth, disabled veterans and others that are on limited time schedules or mobility challenged to experience recreational fishing in beautiful and inspiring surroundings.

Petition 2023-34MPA

Reclassify Point Buchon SMCA to an SMR and Limit Allowable Uses at Farnsworth Onshore and Offshore SMCAs to Recreational Spearfishing

Deny (in concurrence with the CDFW recommendation and rationale)

Within their analysis the Department notes the extensive deliberations by the various stakeholders during the 2-year Southern Region MLPAI Regional Stakeholder Group process. The take allowances at the Farnsworth MPA cluster were carefully considered and vetted, resulting in the current configuration and take allowances.

These take allowances provide important public access to mobile species which largely do not benefit from spatially based protections. At the same time the cluster provides spatially based protections for demersal, sessile and resident species including Stylaster hydrocoral, at scale.

The Farnsworth Bank is very important to our Santa Monica Bay, Los Angeles, Long Beach, Newport Bay and Dana Point Harbor based party boats' access to target squid, bonito, yellowtail, white sea bass and other species. The regionally famous "Farnsworth mossback yellows" are fish of legend – difficult to land once hooked but a true prize and badge of honor if successful.

The Department's analysis of these proposed actions (2023-34MPA_2 & 2023-34_3) provide "...further reductions to the fishing grounds and restricting take to spearfishing only would impose socioeconomic costs without clear ecological benefit. From an MPA Network design perspective, the Farnsworth SMCAs fulfill their intended role as partial-take MPAs with a High LOP..."

The Farnsworth is a site where avid anglers desire to fish big-game -- where the challenge is elevated but so is the potential reward.

In conclusion, we applaud the efforts of the scientists, regulators and staff from CDFW and the CFGC for their extraordinary effort to review and communicate with the community on this important topic. We strongly feel working together we can continue to strengthen the network through research, monitoring and targeting water quality issues.

Sincerely,

Jaime Diamond

Jaime Diamond

Stardust Sportfishing, Owner

Santa Barbara Landing, CEO/GM

Jason Diamond

Captain Jason Diamond

Stardust Sportfishing, Owner/Operator

Santa Barbara Landing, Partner

Outlook

SAC Letter to FGC Ref Agenda Item 2, April 15, 2026

From K Fran [redacted]
Date Mon 03/30/2026 05:49 PM
To FGC <FGC@fgc.ca.gov>

Hi Melissa,

I hope all is well. I am sure you are all working very hard.

Please find attached a letter from SAC to the FGC for the next meeting. I plan to be there in person.

Best wishes,

Ken

Ken Franke

President

Sportfishing Association of California

5060 N. Harbor Drive, Suite 165 | San Diego, CA, 92106
(619) 760-4031 | www.californiasportfishing.org

SAC SPORTFISHING ASSOCIATION OF CALIFORNIA

5060 N. Harbor Drive, Suite 165
San Diego, CA 92106
(619) 760-4031

March 28, 2026

To: California Fish and Game Commission (CFGC)
From: Sportfishing Association of California
Subject: Bin 2 Non-Tribal Petition analysis by the CDFW

The Sportfishing Association of California (SAC) is an organization whose membership includes commercial passenger fishing vessels (CPFV) based throughout the coastal ports of California. We provide public access to over one million visitors annually for fishing, whale watching and ocean charters.

The MPA network was developed after an extensive and often extremely stressful process. Recreational anglers and related vessel service providers had to adapt to the loss of access to approximately fifty percent of their traditional fishing areas.

That was then. Now everyone has adapted to the framework after what was a painful time. It is proving to be resilient. Trust has been built as recreational anglers and vessels from the CPFV sector have been involved in the study of the MPA network.

SAC appreciates and complements the analyses of the non-tribal bin 2 2023 MPA petitions submitted in response to the Decadal Management Review recognizing the adaptive management component of the Marine Life Protection Act.

In 2023 the "draft evaluation framework (Draft Framework) was developed for the 15 Bin 2 Petitions that propose changes to the Marine Protected Area (MPA) Network that were received by the California Fish and Game Commission (CFGC) and referred to the California Department of Fish and Wildlife (CDFW) in 2023. CDFW developed the Draft Framework, with support from staff at the CFGC and Ocean Protection Council (OPC), based on the adaptive management process outlined in chapter 4 of the 2016 Master Plan for MPAs. The 2016 Master Plan directs CDFW and CFGC to use the Marine Life Protection Act (MLPA) goals and mandates, MPA objectives, and design considerations as the primary basis for any action taken to make changes to the MPA Network. The Draft Framework also draws from the Decadal Management Review (DMR) and recommendations, and the MPA Regulation Change Petition Framework approved by CFGC at their August 2023 meeting, which is rooted in the DMR recommendation cornerstones of MPA Governance, MPA Management Program Activities, and MPA Network Performance." (Evaluation Framework for 2023 Marine Protected Area Bin 2 Petitions at https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=232901&inline).

Within this framework there were 18 approved target questions, 3 of which contained follow-on components which brought the total to 21. The CDFW has diligently provided a question-by-question analysis for each proposed action within each of the 10 non-tribal bin 2 proposals. A simplified 3-column table provides a brief summary of the results of these analyses along with a concise recommendation for each action.

We appreciate and complement the Department on their having held these 21 goalposts firm in their analyses, supporting these primary objectives.

- The proposed change is consistent with the goals of the MPA, as identified in the MLPA Initiative planning process, and may help further advance these goals.
- The proposed change improves the overall design of the MPA.
- The proposed change aligns with the original intent of the MPA.
- The proposed change advances management of the MPA Network.

We support the Department's work product and recommendations. We find that the Department has exhaustively researched and cited the components of the MLPAI process which illuminate the choices and considerations within that process and used that information to guide their analyses and recommendations.

Below we provide our recommendations to the Commission for those non-tribal petitions that would have important impacts to our fleet. We consider the implications of the proposed actions that have the greatest potential to impact our ability to provide public access to the state's rich and sustainably managed marine resources, our continued economic vitality and the overall continued sustainable management of our fisheries.

Petition 2023-23MPA

This petition proposes to reclassify Duxbury Reef SMCA to an SMR and Expand the Southern and Northern Boundaries

Deny all proposed new restrictions to take and seaward boundary expansions in concurrence with the CDFW recommendations

The CDFW notes the following: "The petitioner asserts that current regulations cause confusion and that there has been an increase in non-compliance relative to other Marin County MPAs. These claims are unsubstantiated by CDFW enforcement data. The proposed change would not result in additional regulatory protection for the rocky intertidal habitat that the current MPA was designed to protect, and it would unnecessarily eliminate established uses previously vetted during the Marine Life Protection Act (MLPA) Initiative planning process."

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We concur. We also note that the proposer's purpose appeared contrary to providing equitable access to a public trust resource for underserved communities (fishing within the state's submerged lands).

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Petition 2023-29MPA, and absent CDFW recommendations,

DENY (based on the following)

Petitioners propose the establishment of a new State Marine Conservation Area off the coast of Carpinteria. This proposal is redundant, scientifically unsupported, reduces public access to all but the documented members of the Federally recognized Santa Ynez Band of Chumash. It creates an undue burden on a region already heavily impacted MPA fisheries closures.

Tribal Stewardship and Co-Management

We continue to support California's commitment to tribal sovereignty and co-management of native resources. However, we emphasize that tribal stewardship does not require the creation of new MPAs.
Tribal stewardship is currently a component of the MPA framework under the MLPA Master Plan. There are four MPA's allowing the Santa Ynez Band of Chumash exclusive fishing access at Anacapa SMCA, Naples Reef SMCA, Point Dume SMCA, and Kashtayit SMCA. Tribal exemptions allow traditional and ceremonial take. These examples demonstrate that the state can honor its commitment to tribal sovereignty and Traditional Ecological Knowledge (TEK) by modifying current regulations without closing additional area to public access for fishing. This was most recently done at the August 22, 2018 FGC meeting.

The Santa Ynez Band of Chumash previously submitted a petition for Tribal Take within several existing MPA's. In 2018, after a full analysis, the FGC approved their petition. (FGC Decision Document 08-22-2018) The new petition 2023-29MPA is exclusionary in nature. The area they propose is currently open and accessible to the public and all tribal members regardless of federal recognition. If implemented this new closure would exclude access for all others, including descendants of local Chumash who also have ancestral ties to these waters but are not registered members of the Santa Ynez Band. True collaborative co-management should be explored across California's entire MPA network to ensure equitable access for all tribal members. We encourage you to prioritize collaborative management at these existing sites. Additional closures which eliminate access for non-federally recognized tribes and the public are not needed, nor appropriate.

Scientific Rationale for Denial

The scientific justifications provided in the petition are fundamentally flawed:
Connectivity: The petition argues for a new MPA to fill a gap in the network. However, official measurements show the spacing between existing MPAs at Campus Point and Point Dume is 60.60 miles, which falls within the state's recommended 31–62 mile spacing guideline, making a new designation unnecessary.

Species-Specific Protection: The petition focuses heavily on protecting juvenile white shark nurseries. The Fish and Game Commission established clear precedent in 2020 when it denied a nearly identical petition for this exact location, stating that MPAs are intended to protect entire ecosystems, not individual, highly mobile species like sharks.

The petitioner proposes allowing shore-based finfish take, which reduces the area's Level of Protection to moderate-low. Under the MLPAI SAT guidance this LOP would not support MPA connectivity goal.

Disproportionate Regional Impact

The Santa Barbara Channel is already one of the most protected regions in California With 19 MPA's. Currently, 21% of Channel Islands National Marine Sanctuary waters in this area are protected, significantly exceeding the state average of 16%. Furthermore, 96.41% of the Channel Islands MPA network is designated as no-take, compared to a 60% average for the

rest of the state. Closing Carpinteria would further marginalize local recreational fishermen who have already seen their traditional grounds significantly reduced.

Carpinteria Reef, the reef that would be almost entirely inside the proposed MPA, is one of relatively few reef areas close to harbor for fishing. Approving this petition will be the end of local fishing access to coastal reefs. It will totally exclude opportunity for those who cannot afford or safely travel across to the Channel Islands such as skiffs, kayak fishermen and freedivers. The reefs in the protected waters of the proposed MPA are where charter boats take first timers, trips with special needs children, and our wounded warriors due to close proximity to the harbor, generally protected area from weather, and the variety of fish habitat in this zone. There is also an overwhelming amount of public outcry on this petition due to a lack of meaningful local outreach. The Carpinteria reef area is vital to the local community, economy, local charter businesses, and tourism. Closing this area to fishing would ignore carefully negotiated outcome for this region during the MLPAI process. It would greatly reduce access for all non-Santa Ynez Band Chumash tribal people as well as create regulatory conflicts in the planned decommissioning of oil infrastructure in the area. We respectfully urge you to deny Petition 2023-29MPA---

In conclusion, we applaud the efforts of the scientists, regulators and staff from CDFW and the CFGC for their extraordinary effort to review and communicate with the community on this important topic. We strongly feel working together we can continue to strengthen the network through research, monitoring and targeting water quality issues.

Sincerely,

Ken Franke
President

Received April 1, 2026

To: Melissa Miller-Henson, Executive Director of the California Fish and Game Commission

March 31, 2026

Subject: Lack of scientific basis for expanding the south Point Loma SMR

The joint petition put forward by Environment California and Azul (2023-33MPA_1_AM1) to expand Cabrillo State Marine Reserve (SMR) westward (to 3-mile state line) and northward to New Hope Rock by ~9.99 sq miles would expand the existing small SMR at the tip of Point Loma to encompass more that 40% of the Point Loma kelp forest. The joint petition asserts that the decline of kelp in California is driven by extractive fishing of sea urchin predators (they cite overfishing of California Sheephead and lobsters) which has led to increases in sea urchins, overgrazing, formation of urchin barrens and declines in kelp. The petition asserts that this fishing effect applies to kelp beds throughout California. The proposed expansion of the SMR would prohibit fishing over more than 40% of the Point Loma kelp forest and would result in effectively eliminating the dive fishery for sea urchins, an important economic resource for the San Diego region. Environmental California and Azul's generalization about fishing leading to trophic cascades and resulting kelp decline is not supported by any data we are aware of. In the Point Loma kelp forest in particular it is contradicted by the extensive data of Parnell et al. 2026, based on 42 years of detailed studies of the demographics of giant kelp throughout the Point Loma kelp forest. During these studies there has been fishing for both lobsters, Sheephead and sea urchins and there has been no concomitant increase in adverse effects of sea urchins on giant kelp. In their extensive long-term studies, Parnell and colleagues have also found that there is no significant relationship between the sizes of giant kelp cohorts and the density of sea urchins, evidence contradicting the assertions of Environment California and Azul.

Based on observations made during more than 15,000 dives in the Point Loma and La Jolla kelp beds since 1976 the Red Sea urchin population has been reduced by sea urchin harvests to an estimated 30% of the size in 1976. Understory algae and elkhorn kelp have replaced giant kelp in many areas. Pushing harvests further away from the Port or to other countries would increase the carbon footprint of the fisheries, likely exacerbating global warming.

For these reasons we strongly urge you to reject the joint petition by Environment California and Azul.

Sincerely,

Dr. Ed Parnell, Scripps Institution of Oceanography, University of California San Diego

Dr. Paul Dayton, Scripps Institution of Oceanography, University of California San Diego

Dr. Stephen Schroeter, Marine Science Institute, University of California Santa Barbara

Mr. Peter Halmay, President, San Diego Fishermen's Working Group

Parnell PE, Lennert-Cody CE, Ladah LB, Riser KL, Bulach B, Leichter JJ, Latker AK, Schroeter SC, Dayton PK. Demography and dynamics of giant kelp cohorts across four decades: Lessons for conservation and resilience planning. Ecol Appl. 2026 Jan;36(1):e70181. doi: 10.1002/eap.70181. PMID: 41605549; PMCID: PMC12851851.

From: Rick Duenas <[redacted]>
Sent: Monday, April 13, 2026 7:22 AM
To: FGC <FGC@fgc.ca.gov>
Subject: Public comment: April 21, 2026: Northern Region Petitions

Dear President Sklar and Members of the Commission,

My name is Rick Duenas and I am a recreational angler and diver in Northern California. I am writing regarding the MPA petitions for Del Norte through Monterey Counties. I urge you to deny all of these petitions with one exception for Pyramid Point as noted below.

2023-21: **Accept** the boundary change to the stateline, **deny** the removal of surf smelt take. The petition seems to cite literature from the turn of the century regarding surf smelt decline. CDFW's "Surf Smelt Enhanced Status Report" normalized for unit effort indicates a 2020 abundance trend increasing to levels above the decline of the 1990s. Regardless, if surf smelt were truly declining, the decline should be mitigated via bag limit and season changes, not spatial restrictions.

2023-14: **Deny**. I agree with CDFW's recommendation and I believe that these reserves should serve as control treatment groups relative to urchin barren mitigation being done outside of reserves.

2023-16: **Deny.** I agree with CDFW's recommendation and I am not willing to give up consumptive access in other areas to make a carve out for commercial trollers in a niche area. Also, groundfish bycatch would inevitably occur within the new SMCAs.

2023-32: **Deny.** I agree with CDFW's recommendation. Granting the intertidal protection in concept is okay but does not fix the enforcement problem claimed by the petitioner.

2023-33: **Deny**. I agree with CDFW's recommendation. Barring take from boat-based anglers will do nothing to help protect kelp forests, and kelp forests are unable to grow in much of the proposed boundary areas anyway. Kelp in northern Monterey Bay runs out of light in much shallower water than elsewhere.

2023-23: **Deny.** I agree with CDFW's recommendation. Again, barring take of finfish will do nothing to protect kelp forests in the shale as proposed. Barring take during a "Kelp Restoration Management Permit" period is infeasible and a waste of Department resources to implement and enforce.

In short, please consider denying the vast majority of the northern bin-2 petitions as recommended by CDFW. Thank you.

Sincerely,

Rick Duenas

PCFFA PACIFIC COAST FEDERATION OF FISHERMEN'S ASSOCIATIONS

April 21, 2026

California Fish and Game Commission

RE: Regional Meeting on Marine Protected Area Petitions – San Mateo to Monterey

Dear President and Members of the Commission,

The Pacific Coast Federation of Fishermen's Associations represents commercial fishing associations from San Diego to Crescent City and works directly with the majority of active commercial fishermen in California. Our members fish across multiple regions, fisheries, and gear types, supporting working waterfronts, coastal communities, and the production of locally harvested seafood.

For generations, commercial fishing has been a way of life. It is how families have supported themselves, how coastal communities have been built, and how fresh, sustainably harvested local seafood has made its way to dinner tables. California fisheries operate within one of the most highly regulated and actively managed systems in the world and provide a low-carbon footprint, domestic food source that should be protected and prioritized.

Unfortunately, reducing commercial fishing harvest is often framed as an environmental win because it is an easy story to tell, and easy for people to believe. This is a narrative that risks prioritizing optics over evidence. Reducing commercial fishing does not inherently increase biodiversity or protect ecosystems. Nor does it address the actual drivers of changing ocean conditions, including ocean warming, habitat degradation, and water quality.

California already has a comprehensive, statewide MPA network developed through a structured public process, and that network remains in an evaluation and adaptive management phase. Expansion of this network should not be considered without first demonstrating how the existing network is performing against clearly defined objectives.

For too long, fisheries regulations have been layered on without evaluating whether they remain necessary or effective. Every time a new issue arises, another restriction is added. Commercial fishing is often used as the default regulatory lever because it is visible and easy to restrict, not because it has been shown to be the primary driver of whatever issues these petitions claim to address.

New, indiscriminate closures can push highly regulated, local food-producing families out of business, weaken coastal communities, and reduce California's food security. Reducing domestic harvest does not reduce demand; it simply shifts production away from one of the most highly regulated and transparent food systems in the world and increases reliance on

Lisa Damrosch • Executive Director • lisa@pcffa.org • 650-255-2063 •
www.pcffa.org

imported seafood from less regulated systems with weaker environmental and labor protections.

More fundamentally, this petition process is not evaluating whether MPAs are needed or appropriate to address any clearly defined problem. Instead, it assumes MPAs are the correct tool and then focuses on how to apply or expand them. MPAs are one management tool, not a substitute for fisheries management, and should not be treated as a default response. Before considering commercial fishing closures, the Commission must evaluate whether existing targeted management tools are already addressing the asserted underlying issues in these petitions.

As reflected in CDFW evaluations, proposals are being advanced without clearly defined problems or adequate analysis showing that expanding MPAs would address them. Ecological outcomes of marine protected areas are variable, context-dependent, and not consistently predictable, yet closures are being proposed without demonstrating that they are needed or effective.

At its core, the current petition process is fragmented and inconsistent, lacking a cohesive statewide framework and a clear, science-based standard applied across proposals. Separate tracks for tribally led and non-tribally led petitions also raise concerns about whether consistent standards are being applied throughout the process.

This regional meeting and those to follow are designed to gather input and perspectives, but they are not a substitute for meaningful community consultation. Input alone is not analysis. Public comment reflects perspectives, but it does not establish whether proposals meet a meaningful standard. Decisions about necessity and effectiveness require evidence and analysis.

This disconnected and prolonged process, has created the opportunity for a one-way expansion of closures and restrictions without clear understanding whether existing closures are effective, should be modified, or if existing restrictions should be re-evaluated. Layering on new closures ignores the actual drivers of change in the ocean and creates a rigid system that undermines the commercial fishing industry, coastal communities, and California's food security.

For generations, the commercial fishing fleets of California have been feeding our communities and beyond, and yet the required considerations of impacts to fishing communities are not being meaningfully applied. These petitions do not include socioeconomic analysis or reflect meaningful consultation with fishing communities, harbor businesses, crews, and processors whose livelihoods depend on these areas. This approach is inconsistent with the Marine Life Management Act and the Commission’s Coastal Fishing Communities Policy, which require

balanced decision making and consideration of both conservation and the communities that depend on marine resources.

PCFFA recommends denial of Petition 2023-23, Petition 2023-32, and Petition 2023-33 because they end access to active fishing grounds and displace fishing families without meeting the standard required to justify additional closures. PCFFA supports Petition 2023-14 and Petition 2023-16 which would maintain commercial fishing access and are consistent with sustainable use of these areas.

Commercial fishing is a managed use of ocean resources that supports domestic food production, working waterfronts, and coastal economies. Fishermen have done their part for conservation and continue to do so. The Commission should deny petitions that restrict commercial fishing access and ensure decisions are rooted in science and based on demonstrated need and measurable outcomes, not assumptions, precautions or optics.

PCFFA supports ocean protection measures grounded in the best available science, focused on clearly defined problems, and appropriately matched to those problems. The Commission must uphold these standards in the decisions ahead as it considers any expansion of commercial fishing closures.

Sincerely,
Lisa Damrosch
Executive Director
Pacific Coast Federation of Fishermen's Associations

Lisa Damrosch • Executive Director • lisa@pcffa.org • 650-255-2063 •
www.pcffa.org

Ventura County Commercial Fishermen's Association
1237 S. Victoria Ave #284
Oxnard, CA 93035
(805) 663-2152
venturacountyfishermen@gmail.com

16th March 2026

California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

Subject: **Opposition to Petition 2023-33MPA (Kelp Forest MPA Expansions and Modifications)**

Dear California Fish and Game Commission,

My name is Dave Colker, and I serve as the Executive Director of the Ventura County Commercial Fishermen's Association (VCCFA). Through my role with VCCFA, I represent a growing network of commercial fishermen, industry partners, and stakeholders who are directly connected to and dependent upon access to California's coastal resources.

Our association has been actively engaged throughout the Marine Protected Area (MPA) petition process, carefully reviewing proposals, participating in meetings, and working to ensure that the voices of the commercial fishing community are heard and considered. We are committed to responsible ocean stewardship, sustainable fisheries, and collaborative management approaches that are grounded in sound science, practical application, and a full understanding of both ecological and socioeconomic impacts.

Petition 2023-33MPA proposes a series of significant modifications to California's Marine Protected Area (MPA) network, including boundary expansions at multiple locations and the establishment of new protected areas intended to enhance protections for "resilient kelp forests."

While the intent to protect marine ecosystems is understood, this petition lacks sufficient scientific justification, fails to meaningfully evaluate socioeconomic impacts, and does not account for the broader system-wide consequences of expanding MPAs. Of particular concern is the precedent of large-scale closures—such as the proposed **South Santa Rosa Island expansion**—which could have devastating consequences on the commercial sea urchin and lobster fisheries in Ventura and Santa Barbara Counties.

Without a more complete understanding of both ecological and socioeconomic impacts, approval of this petition would be premature and potentially counterproductive.

Lack of Conclusive Scientific Justification

The petition's primary justification is that certain kelp forests have been identified as "resilient" and therefore warrant additional protection. However, this argument is broad and does not establish a clear, site-specific causal relationship between expanded MPA boundaries and measurable ecological improvements .

Kelp forest decline is widely understood to be driven by multiple environmental factors, including ocean warming, trophic imbalance (such as urchin overpopulation), and large-scale ecosystem shifts. These are complex, system-wide issues that are not necessarily addressed through spatial closures alone.

The petition does not demonstrate that:

- Existing protections are insufficient
- Fishing pressure is the primary driver of kelp loss
- Expanding MPAs will result in measurable recovery outcomes

Instead, the proposal appears aligned with broader policy goals, such as expanding protected areas under initiatives like "30x30," rather than being grounded in site-specific scientific necessity .

Absence of Comprehensive Socioeconomic Analysis

A critical deficiency in this petition is the lack of meaningful socioeconomic analysis.

While the petition acknowledges that these areas are actively used by recreational and commercial fishermen, it does not quantify the impacts of restricting access, nor does it evaluate the cumulative economic consequences across the fishing industry .

This omission is especially concerning when considering large-scale closures, such as those affecting areas like **South Santa Rosa Island**, which are vital to the commercial sea urchin and lobster fisheries. These fisheries are not only economically significant, but also support working waterfronts, processors, and supply chains throughout Ventura and Santa Barbara Counties.

Restricting access to these productive grounds without a full economic analysis risks causing substantial harm to these industries.

Effort Displacement and Pressure on Open Areas

One of the most significant oversights in this petition is the failure to address **effort displacement**.

When access is restricted in one area, fishing effort does not disappear—it is redistributed into remaining open areas. This results in increased pressure on those areas as fishermen are forced to **compete for increasingly limited fishing grounds**.

This intensified competition can lead to:

- Concentrated fishing pressure in smaller areas
- Increased operational costs and reduced efficiency
- Potential localized depletion of resources in open zones
- Increased conflict between user groups

The petition does not analyze or even acknowledge these impacts. As a result, it fails to consider whether expanding MPAs may simply shift environmental pressure rather than reduce it.

Potential for Counterproductive Outcomes

Without a comprehensive understanding of both ecological drivers and human-use redistribution, expanding MPAs may produce unintended and counterproductive results.

If fishing pressure is displaced into open areas, the net ecological benefit of expanded closures may be reduced—or even negated. In some cases, this could lead to greater impacts outside protected zones.

Additionally, if kelp decline is primarily driven by environmental factors rather than fishing pressure, then expanding MPAs may not address the root causes of the problem.

In this context, expanding MPAs without targeted, science-based justification risks being an imprecise management approach that diverts attention from more effective solutions.

Enforcement and Management Challenges

The petition proposes multiple boundary expansions and the creation of new MPAs across different regions. This increases regulatory complexity and presents significant enforcement challenges.

Each expansion requires:

- Clear boundary definition and mapping
- Public outreach and education
- Increased enforcement presence and monitoring

As the MPA network becomes more complex, it becomes more difficult for both the public and enforcement agencies to understand and apply the rules—particularly when different areas have different regulations.

The petition does not provide a clear plan for how these expanded areas will be monitored or enforced, nor does it address the additional funding and staffing required.

Without adequate enforcement resources, expanding MPAs risks creating regulations that are

difficult to comply with and inconsistently enforced.

Conclusion and Recommendation

Petition 2023-33MPA presents a broad proposal to expand California's MPA network in response to kelp forest decline. **However, it does not provide sufficient justification to support approval**.

Key concerns include:

- Lack of conclusive, site-specific scientific evidence
- Absence of comprehensive socioeconomic analysis
- Failure to evaluate effort displacement and impacts on open areas
- Potential for significant economic harm, particularly to the sea urchin and lobster fisheries
- Risk of counterproductive ecological outcomes
- Insufficient consideration of enforcement and resource requirements

Given these deficiencies, approving this petition—particularly in the context of large-scale closures such as South Santa Rosa Island—could result in significant unintended consequences.

Recommendation:
The Fish and Game Commission should **deny Petition 2023-33MPA**.

Respectfully submitted,

Dave Colker
Executive Director
Ventura County Commercial Fishermen's Association (VCCFA)

imported seafood from less regulated systems with weaker environmental and labor protections.

More fundamentally, this petition process is not evaluating whether MPAs are needed or appropriate to address any clearly defined problem. Instead, it assumes MPAs are the correct tool and then focuses on how to apply or expand them. MPAs are one management tool, not a substitute for fisheries management, and should not be treated as a default response. Before considering commercial fishing closures, the Commission must evaluate whether existing targeted management tools are already addressing the asserted underlying issues in these petitions.

As reflected in CDFW evaluations, proposals are being advanced without clearly defined problems or adequate analysis showing that expanding MPAs would address them. Ecological outcomes of marine protected areas are variable, context-dependent, and not consistently predictable, yet closures are being proposed without demonstrating that they are needed or effective.

At its core, the current petition process is fragmented and inconsistent, lacking a cohesive statewide framework and a clear, science-based standard applied across proposals. Separate tracks for tribally led and non-tribally led petitions also raise concerns about whether consistent standards are being applied throughout the process.

This regional meeting and those to follow are designed to gather input and perspectives, but they are not a substitute for meaningful community consultation. Input alone is not analysis. Public comment reflects perspectives, but it does not establish whether proposals meet a meaningful standard. Decisions about necessity and effectiveness require evidence and analysis.

This disconnected and prolonged process, has created the opportunity for a one-way expansion of closures and restrictions without clear understanding whether existing closures are effective, should be modified, or if existing restrictions should be re-evaluated. Layering on new closures ignores the actual drivers of change in the ocean and creates a rigid system that undermines the commercial fishing industry, coastal communities, and California's food security.

For generations, the commercial fishing fleets of California have been feeding our communities and beyond, and yet the required considerations of impacts to fishing communities are not being meaningfully applied. These petitions do not include socioeconomic analysis or reflect meaningful consultation with fishing communities, harbor businesses, crews, and processors whose livelihoods depend on these areas. This approach is inconsistent with the Marine Life Management Act and the Commission’s Coastal Fishing Communities Policy, which require

balanced decision making and consideration of both conservation and the communities that depend on marine resources.

PCFFA recommends denial of Petition 2023-23, Petition 2023-32, and Petition 2023-33 because they end access to active fishing grounds and displace fishing families without meeting the standard required to justify additional closures. PCFFA supports Petition 2023-14 and Petition 2023-16 which would maintain commercial fishing access and are consistent with sustainable use of these areas.

Commercial fishing is a managed use of ocean resources that supports domestic food production, working waterfronts, and coastal economies. Fishermen have done their part for conservation and continue to do so. The Commission should deny petitions that restrict commercial fishing access and ensure decisions are rooted in science and based on demonstrated need and measurable outcomes, not assumptions, precautions or optics.

PCFFA supports ocean protection measures grounded in the best available science, focused on clearly defined problems, and appropriately matched to those problems. The Commission must uphold these standards in the decisions ahead as it considers any expansion of commercial fishing closures.

Sincerely,
Lisa Damrosch
Executive Director
Pacific Coast Federation of Fishermen's Associations

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www.pcffa.org

CALPIRG Students

Dear California Fish and Game Commission, Governor Newsom, and Secretary Crowfoot,

Our ocean is in trouble. After decades of industrial fishing and new impacts from marine heat waves, many of the most beloved species are disappearing. One of the best things we can do to protect our ocean is protect critical habitats like kelp forests and rocky reefs. Marine protected areas, which prohibit destructive activities and allow ocean ecosystems to recover, give our ocean and our earth the best chance.

Our marine protected areas help give safe havens for the animals in the area, like the California Sea Lion, our iconic Elephant Seals, and the adorable Harbor Seals which all use the Channel Islands National Marine Sanctuary. They also protect others along the coast: the Southern Sea Otters which rely on the kelp forests in our MPAs, the humongous Mola Mola which live in and around the Point Lobos SMR, our protected Abalone which live in MPAs like Sea Lion Cove SMCA and the Edward F. Ricketts SMCA.

As a student-directed and student-funded organization representing over 25,000 dues-paying student members in the state of California, we're urging you to take action to protect our ocean and our futures. We are proud of much of the work our state has been doing to protect nature, but in order to follow through on the vision of our state outlined in the Nature Based Solutions Executive Order N-82-20, and Senate Bill 337 (to conserve 30 percent of California's lands and coastal waters by 2030), we need to take further action.

As our planet changes, so must our approach to managing our oceans. Over the past three years, we've engaged with Californians up and down the state, from our inland schools, to the coasts, and have seen overwhelming public support, especially from students. After all, it will be today's youth that will be most impacted by the decisions made in the MPA Decadal Management Review process.

Therefore, we are hereby stating our support for the following petitions to be approved:

- Petition # 2023-32
- Petition # 2023-33
- Petition # 2023-23

We are hereby recommending denying the following petitions:

- Petition # 2023-14
- Petition # 2023-16

Best,
Jake Twomey, CALPIRG Students Board Chair
Felix Boulton, CALPIRG Students Chapter Chair at UC Santa Cruz
Neha Janz, CALPIRG Students Chapter Chair at UC Davis
Breckin Caulfield, CALPIRG Students Chapter Chair at UC Berkeley

CALPIRG Students

Since January of 2023, CALPIRG Students has:

- Educated over 131,000 students and community members about marine protected areas and the opportunity to strengthen ocean protections. This happened through face to face conversations at public education events and during class presentations across eight UC campuses.
- 755 people have volunteered on the campaign.
- 21,276 have signed petitions in support of strengthening and expanding California's network of marine protected areas.
- 37 faculty and key voices have signed on.
- Students earned coverage in news outlets 38 times to reach more Californians about the campaign.

CALPIRG Students

Voices for our Oceans

To: Governor Gavin Newsom, CA Fish and Game Commission,

While approximately 16% of California's coastal waters are conserved, only 12% have the level of protection scientists say is needed to defend against biodiversity loss and climate impacts. California's unique network of 124 Marine Protected Areas (MPAs) makes the state a global leader in protecting the critical habitats and life existing in and around our oceans. However, with a warming planet, and historic species extinctions, it is clear that California must strengthen and expand our existing network of protections with highly and fully protected MPAs. Highly protected areas only allow light extractive activities, while fully protected areas do not allow any extractive or environmentally destructive activities. **I am asking you to call for the adoption of more highly and fully protected marine areas, which must be the standard for protecting 30% of our ocean by 2030.**

Sincerely,

Name	Title	Quote of Support
David Checkley	Emeritus Professor, UCSD, Scripps Institution of Oceanography	The ocean is an integral and essential part of planet Earth. It must be protected to ensure its continued ecosystem services to the humankind, from food to recreation to the air we breath, the wind we feel and use and the water we need.
Dimitri Deheyn	Research Scientist, Marine Biology Research Division, Scripps Oceanography, UC San Diego	Coastal MPAs are the lungs of the oceans and the planet. They are key for valuable resources supporting society!
Julia Diaz	Associate Professor, Scripps Institution of Oceanography	The ocean provides natural services that support our daily lives. Protecting the ocean is protecting people.
Tobias Fischer	Professor and Director of the Earth Research Institute, UCSB	When I go into the ocean, I feel the vastness of the water all around me with its calming effect. This water is precious for our living planet and for that reason we must protect it.
Suellen Hopfer	Associate Professor of Public Health, UCI	The ocean is a vital resource for human life

CALPIRG Students

Name	Title	Quote of Support
Gregory F. Grether	Professor, Ecology and Evolutionary Biology, UCLA	As an ecologist, I know the value of marine ecosystems, and as a scuba diver, I have seen the devastating consequences of leaving them unprotected.
Alejandro Camacho	Professor, UCLA Law	It is vital for virtually all life on the planet
Adrian Borsa	Professor, UC San Diego, , Scripps Institution of Oceanography	N/A
Ahmyia Cacapit	PhD Candidate at Scripps Institution of Oceanography	The ocean is vital to maintain biodiversity, cultural heritage, and socioeconomic security for many communities. Sustaining healthy marine ecosystems is necessary to secure a prosperous future.
Emma Combs	President / University of San Diego Sustainability Club	The ocean is not only a precious resource but a work of art that we can all enjoy. The ocean can bring bipartisan support together.
Jessica Toth	Executive Director, Solana Center for Environmental Innovation	We don't want to see our land-based litter become marine debris. That's why Solana Center for Environmental Innovation's vision is a world with oceans and landfills free of discarded valuable resources.
Megan Kassebaum	Co-President, Seal Society at UC San Diego	The ocean provides so much for us humans and its importance is overlooked. While often reduced to the beach and the fish we consume, the ocean is an integral part of our interconnected environment, and damaging the ocean has widespread and hidden detrimental consequences. Creating these MPA is crucial in preserving the rich biodiversity, economic benefits, and global

CALPIRG Students

Name	Title	Quote of Support
		processes the Pacific Ocean provides.
Robin Fator	Marketing and Development Manager	I swim, boogie board, and surf in the San Elijo MPA. Clean water, protection for plants and animals, and a thriving ecosystem make spending time at the beach an amazing experience. It is inspiring to see what this level of protection offers marine life. I love seeing schools of fish, flocks of birds, and thriving tidepools. Please protect the ocean, it is vital to our existence!
Nan Renner	I cannot speak for my organization. I share professional information here for identification purposes only. I serve as Senior Director of Strategic Partnerships, Birch Aquarium at Scripps Oceanography	The ocean makes like possible on our amazing Earth! We live on an ocean planet, with 71% of the surface covered by the ocean. We should protect biodiversity and ecosystems simply because they exist. Also, ocean protection and healthy marine habitats will help mitigate climate change. We need to restore and regenerate damaged ecosystems for current and future generations. I love the ocean because ocean life blows my mind, expands my heart and makes me feel connected with the living planet. I swim in MPAs frequently. They are a refuge for me too.
Glen MacDonald PhD	Professor / UCLA, Professor of Geography	It is impossible to articulate the importance of the ocean in a sentence - it is central to human existence.
Gregory F. Grether	Professor, Ecology & Evolutionary Biology, UCLA	
Muriel Spooner	Co-chair Conservation Committee/San Diego Bird Alliance	The ocean supports a treasure trove of seabirds and shorebirds.

CALPIRG Students

Name	Title	Quote of Support
		They are heavily impacted by human activity and marine protected areas is vital to preserve these birds. Good for birds, good for people, good for the planet.
Kim Stanley Robinson	Writer, self employed	See “Ministry For The Future”
Malik Ayesh	Night Market Coordinator	If you go to the gym like me you’ll know you don’t want to rely on lactic acid fermentation to work out!
Xocoyotzín Torres	Chĭcano at Large	As an Indigenous person, stewardship of the land and waters is vital to ensure the wellness of the seventh generation from today. Protect our planet today, for the future.
Emiliano Gomez	Academic/UC Berkeley	We all depend on it
Elizabeth Hoover	Associate Professor, Environmental Science, Policy & Management	
Tae-Yeoun Keum	Assistant Professor of Political Science, UCSB	As we grapple with the crisis of a warming planet, oceans and their delicate ecosystems remain some of the most vulnerable, yet least understood, areas of our shared world. Protecting our oceans is a foundational, non-negotiable element of any effort to chart out a sustainable future for future generations.
Ejaaz Mason	Lecturer in Earth Systems, Stanford University	I come from New Orleans, LA, one of the most unique and historically relevant places in the U.S. So much of our nation's history and present have come from my hometown. But year after year I have to watch helplessly as my city and the surrounding areas are consumed by rising seas. Each year during hurricane season I wait nervously

CALPIRG Students

Name	Title	Quote of Support
		hoping that another Hurricane Katrina won't completely decimate all that I love and hold dear. And as our ineffective state and federal government, dominated by those who still call climate change a hoax, continue to do nothing but exacerbate my city's environmental challenges, I fear that in no time at all it might be too late to save New Orleans. But it's not too late to fight for my hometown and definitely not too late to fight for coastal communities in my new home of California. Now is the time to act to save not only my home but all of the coastal communities around the world. As a leader of not only America but the entire world, California needs to be a shining example of what environmental sustainability can look like. So let's fight. Now, now, NOW!
Chase Hobbs-Morgan	Lecturer, UC Berkeley Geography	
Daphnie Sicre	Assistant Professor, UCR, Theatre, Film & Digital Production	As a former scuba diver, I have always loved the ocean and all the creature who live in it. We need to respect them and take care of them- there is only ONE!
Grace Wu	Assistant Professor, UCSB	It is where life originated, flourished, diversified and it remains home to a vast array of life on earth.

CALPIRG Students

Voices for our Ocean (Extended)

Our oceans are amazing. In the Arctic Sea, polar bears hunt on ice floats. In the Atlantic, beaked whales surface for air, then dive thousands of yards underwater. Shelves of rock, layered with barnacles, seaweed, and snails, form habitats for sand crabs, striped bass, and lobster. In the Pacific, 15-foot long octopuses climb over boulders. And in oceans across the globe, coral reefs and give rise to thriving underwater communities, where sharks hunt, sea turtles glide, and seals forage.

But our oceans, and all the marine life they hold, face increasing risk:

1. Stop drilling: When we drill, we spill -- and black, sticky oil drowns birds and extinguishes vibrant underwater habitats. We need to stop offshore drilling in America's oceans.
2. Reduce plastics: Whales, seabirds, dolphins, and sea turtles all face health risks from the plastic pollution. We need to ban single-use plastic bags, foam cups, and foam takeout containers and tackle the larger problem of plastic waste
3. Protect threatened species: Acoustic noise, as well as certain fishing and shipping practices, threaten the health and safety of our marine mammals. We should stand up for our sea's most vulnerable animals and work to win policies that will protect our endangered ocean species.
4. Create protected areas: One of the best ways to replenish fish populations, protect ocean habitats and marine species, and build ocean resiliency in the face of climate change is to protect key habitats that sustain ocean life. In pursuit of fulfilling California's pledge to conserve 30% of our land and coastal waters by 2030, we support protecting 30% of our ocean are highly or fully protected.

We want to keep our oceans healthy and our sea animals safe so future generations can experience and wonder at the beauty of our seascapes. That's why we support added protections for our oceans.

Name	Title	Quote of Support
Jodi Charrier	Natural Resource Management Specialist, NMFS, Santa Rosa	I'm passionate about conservation.
KC Fockler	Surfrider Foundation, Education Coordinator for North Orange County, Huntington Beach	
Mitch Silverstein	San Diego County Policy Coordinator, The Surfrider Foundation, Oceanside	
Hansika Nath	International Student	I believe Climate Change and Environment conservation should

Name	Title	Quote of Support
	Representative, USAC, Los Angeles	be a global priority at this point however the lack of initiatives and efforts in the government spaces are appalling. I believe CALPIRG and this program is a step in the right direction!
Phoebe Chiu	Undergraduate Student Association Council Facilities Commissioner, Los Angeles	My name is Phoebe Chiu (she/her). I am an elected council member of UCLA and a long-term California resident, born in Oakland, raised in the San Francisco Bay Area, and attending UCLA. I vouch for increasing the number of California Marine Protected Areas (MPAs) to 30% of the coastline in this year's internal review process for the 30x30 Plan occurring within the California Department of Fish and Wildlife ending in April 2023. One of my favorite activities in California is visiting the tidepools by the beaches in Monterey and seeing the thriving wildlife. For me, marine life is one of the prettiest sights in California, and I want more of our community to have the opportunity to experience the natural beauties of our state by expanding the number of MPAs. Beyond that, the ocean is a critical tool to tackle climate change, with wetlands and seagrasses absorbing five times the carbon of land-based forests and wetland ecosystems being more protective than constructed seawalls. Also, while the fishing industry might provide pushback on increasing MPAs, protecting marine life is critical for ensuring a healthy fish population, especially if fish migrate closer to the polls if we allow the temperatures of our oceans to rise due to a lack of protection. Lastly, over 40% of the US population lives in coastal counties, and nearly 75% of coastal areas do not have adequate plans to address future sea level rise, which could be up to 6 ft. California is not immune to this issue. Therefore, I want to become a Voice for Our Oceans to call upon the California Department of Fish and Wildlife to consider younger and future generations at risk of displacement if we do not overhaul our plans to protect our homes and ocean.
Kristin Dobbin	Assistant professor of Cooperative Extension, Berkeley	It is critical that we follow our youth leaders in protecting our oceans and their futures
Kate Harrison	Councilmember, Berkeley City Council	They are the heart of our ecosystem.
Yan Zhao	Vice Mayor, City of Saratoga	According to scientists' research, at least 30% of California must be protected in order to protect the state from environmental collapse. Our oceans are obviously incredible homes to lots of

Name	Title	Quote of Support
		beautiful creatures. It's our duty and obligation to protect our oceans so that we can save the earth for the generation to come.
Maddalena Bearzi	President and co-founder of Ocean Conservation Society, Marina del Rey	At Ocean Conservation Society, we have been studying dolphins and whales off Southern California for over 25 years – one of the longest-running investigations on marine mammals worldwide. We believe that protecting the areas frequented by these animals, and including them in the design and expansion of MPAs and MPA networks, is essential to ensure that the connection between critical habitats remains unbroken.

CALPIRG Students

Community Engagement and Education

UC San Diego Students host a press conference with speakers from Scripps Institution of Oceanography, to educate the public about the success of existing marine protected areas in protecting biodiversity, and the need to expand MPAs in California.

UCSB students hold a news conference in advance of going to Sacramento. Leona Gomez, a senior majoring in communications, tells the UCSB audience that conservation depends on both individuals engaging civically and government support.

CALPIRG Students

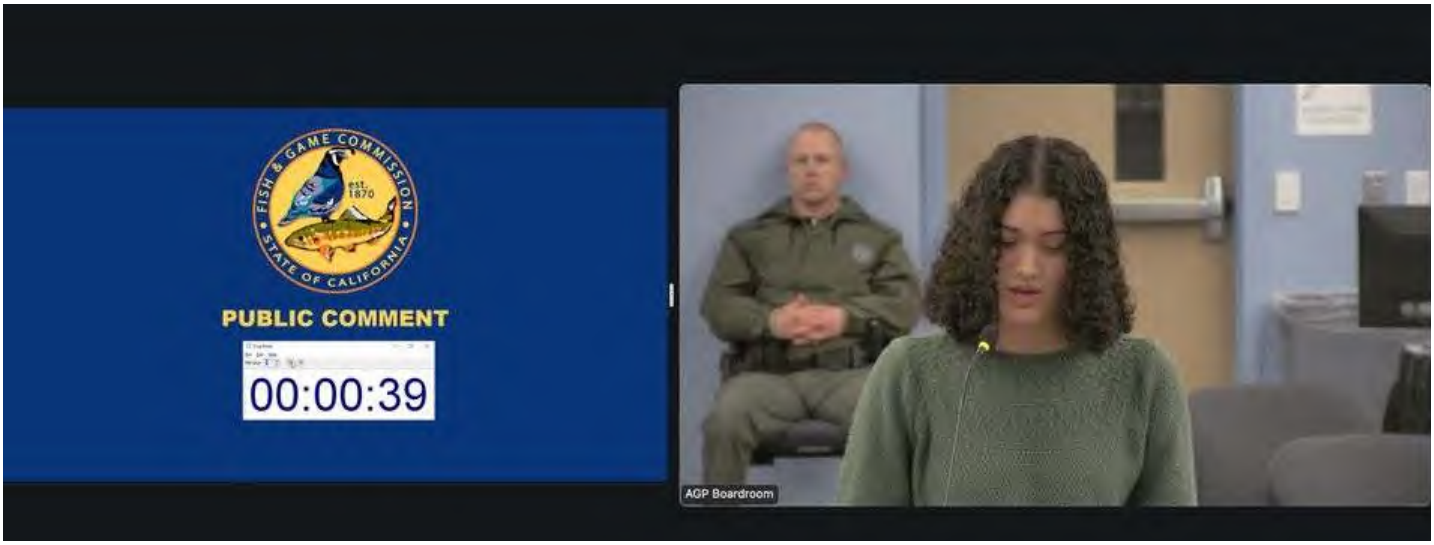
Students from CALPIRG Students at UC Berkeley gather outside the CA Natural Resources Agency (top), UC Berkeley student Bella Ibarra testifies in support of expanded marine protection areas (bottom, middle).

Clara Castronovo and Caia Lomeli delivered support to the acting director of the Ocean Protection Council, Jenn Eckerle. March 2023

CALPIRG Students Board Chair, Clara Castronovo, delivers support to decision makers at an international conference on Marine Protected Areas (IMPAC5) in Vancouver, Canada. Spring 2023

CALPIRG Students

Above: CALPIRG students (from left) Toby Ngo, Byul Sak, and Kate Burkhardt testify in favor of expanded Marine Protected Areas. Bottom: CALPIRG students and staff take a photo with CA Fish and Game Commissioners - 2023



Student leader at UC Davis, Neha Janz, speaks to the FGC on ocean protections on behalf of her campus.

CALPIRG Students

We hosted big events to engage the public and spread awareness:

- Organized Ocean Day 2023 with Environment California, and partners like Surfrider, Oceana, and Azul - and had 200 people in attendance.
- Generated media attention during Earth Day events
- 100 video interviews of student comments on why we need increase ocean protections

CALPIRG Students at an event to celebrate Marine Protected Areas and California's actions on ocean conservation with California's Senate President pro Tempore Toni G. Atkins.

CALPIRG Students

UC Davis chapter hosts educational events to call for stronger ocean protections. Spring 2025

Left: UCLA chapters tabling to sign up new members behind the campaign to expand marine protections in California. February, 2023 - Right: CALPIRG volunteers make recruitment announcements in lecture halls at UCLA, March 2026

"Water your fave things about the ocean" campaign event at UCSB. Campaign Rally for the oceans at UC Davis. Spring 2026

CALPIRG Students

CALPIRG's Ocean Rally at UCLA in February (bottom) and April (top) 2026.

UC Santa Barbara students pass a resolution in support of expanded and strengthened marine protected areas, after engaging thousands of students on their campus around the issue. February 2026

CALPIRG Students

CALPIRG activists also educated middle school students in the Los Angeles area about the benefits of MPAs for endangered species. Over 200 students and their teachers participated in a lesson about the endangered Southern Sea Otter and the importance of habitat protection through Marine Protected Areas! April, 2025

UC Santa Cruz (left) and UC San Diego volunteers (right) table to recruit new volunteers and build support for the Protect Our Oceans campaign, March 2026

CALPIRG Students

Students at UC Berkeley got coverage on local TV for Earth Day, 2025, after their event with city councilmembers and Senator Scott Wiener at the Aquarium of the Bay in San Francisco.

Students at UC Riverside (left) and UC Irvine (right) do education on campus. Spring 2025

CALPIRG Students

Lobby Day in Sacramento around strengthening ocean protections in Spring of 2025.

CALPIRG Students

Students host a press conference in Sacramento, February 2023, to deliver support for stronger and expanded marine protected areas in California.

CALPIRG at UC Davis hold an ocean species matching game and petitioning table for the Protect Our Oceans campaign (left). UC Riverside students (right) collect photo petitions for their campaigns. January, 2026

CALPIRG Students

UC Santa Barbara's "Carbs, Clay, and Coral" event at UC Santa Barbara. CALPIRG at UC Santa Barbara hosted a "Carbs Clay and Coral" event where volunteers built tiny coral reefs out of pasta, educated people about the campaign to expand Marine Protected Areas in California, and signed petitions. January 2026

Left: Students from UC Santa Cruz met with docents at Natural Bridges to talk about the Protect Our Oceans campaign. - Right: Students from CALPIRG's Protect Our Oceans campaign at UCLA and UC Riverside held a beach cleanup at the Santa Monica pier. They filled up a whole large trash can, and got beach goers to sign their petition!

CALPIRG Students

UCLA Students with Assemblymember Robert Garcia, February 2026

Left: Students meeting with staff from the office of Assemblymember Leticia Castillo. Right: UCLA Students meeting with with Assemblymember Ash Kalra. February 2026

CALPIRG Students

Students at UC San Diego (left) and UC Davis (right) launch their education drives to protect our oceans in February, 2026.

UC Santa Barbara (left) and UCLA (right) students collect support for their Protect Our Oceans campaign. Spring 2026

CALPIRG Students

Media Coverage on the campaign to Protect Our Oceans

UCSB Students rally for ocean protections

Photo by: KSBY

By: Sydney Morgan

Posted at 4:52 AM, Mar 01, 2023 and last updated 4:52 AM, Mar 01, 2023

UCSB Students are hosting a rally for ocean protections in preparation for their Sacramento Lobby Day.

https://www.ksby.com/news/ucsb-students-rally-for-ocean-protections

EAST BAY TIMES

Letters to the Editor | Letters: Flood solutions | Protect

Expand Marine ProtectedAreas for ocean health

California's oceans are severely under threat from practices we have known for a while are dangerous, like offshore oil drilling and overfishing. From the sea otters in kelp forests to the whales far into the Pacific Ocean, the species that make our coastline special are suffering. It is time to stand up for our oceans and stop dangerous activities so our ecosystems can bounce back, and ensure that the oceans we grew up with will remain for generations to come.

Marine Protected Areas have helped habitats thrive away from harmful human activities in California. It only makes sense to continue what is working, and increase California's Marine Protected Areas to 30% in order to protect the oceans we all love. California, with its iconic coast, can be a leader on ocean conservation and set the standard for the country and the world to follow.

Clara Castronovo*Piedmont*

https://www.eastbaytimes.com/2023/01/20/letters-1127/

CALPIRG Students

Culver City Observer

UCLA Students Host Ocean Carnival In Support Of Increased Ocean Protections

Mar 09, 2023 0

https://www.culvercityobserver.com/story/2023/03/09/news/ucla-students-host-ocean-carnival-in-support-of-increased-ocean-protections/12281.html

Santa Barbara Independent

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Letters

Oceans Day

By **Hudson Truchard, S.B.**
Mon May 13, 2024 | 6:03am

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As a kid, I was constantly at the beach, its vast ecosystems inspiring me to pursue a career in a STEM field. To this day I chase the wonder I felt looking at the mini ecosystems of tide pools, fascinated by the diverse life my two sisters and I found within them.

In order to do my part and push the Legislature to truly start gearing toward passing more climate conscious bills, I went to Sacramento CalPIRG to take part in Oceans Day, a massive coalition of environmental organizations all working toward one important goal: ensuring California's oceans and coastlines remain the important social and environmental asset they are. We hosted a press conference where various senators and assemblymembers spoke on the sheer importance of the bills they were championing, and their hopes to make strides toward a more equitable, environmentally sustainable future for California.

To ensure that future generations can be instilled with the same wonder I felt as a child, we need to push for the expansion and continued protection of our Marine Protected Areas to guarantee that we are not just idly waiting for the inevitable collapse of California's amazing coastline. MPAs are shown to be a critically important tool that we need to utilize if we want to protect the immense biodiversity and cultural significance of our coastline as they protect marine species from threats like overfishing, pollution, and habitat destruction.

https://www.independent.com/2024/05/13/oceans-day/

CALPIRG Students

THE GUARDIAN
UNIVERSITY OF CALIFORNIA, SAN DIEGO

UCSD CALPIRG Students Rally to Advocate for Marine Protected Areas

Melanie Khachatryan • Mar 5, 2023

https://ucsdguardian.org/2023/03/05/ucsd-calpirg-students-rally-to-advocate-for-marine-protected-areas/

'Save Our Oceans!' UC Santa Barbara Students Lobby to Maximize California's Marine Protected Areas

Ocean-Minded Activists Go to Sacramento Seeking to 'Protect Nature and Biodiversity for Generations'

By **Callie Fausey**
Mon Mar 06, 2023 | 3:21pm

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https://www.independent.com/2023/03/06/save-our-oceans-uc-santa-barbara-students-lobby-to-maximize-calif
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CALPIRG Students

Santa Barbara Today

By the People, for the People

Senate Supports Expanded Marine Protections, MTP Petition Goal Met

UCSB student government backs plan to protect 30% of California's coastal waters by 2030, while mobility program secures ballot initiative.

Mar. 12, 2026 at 4:50pm

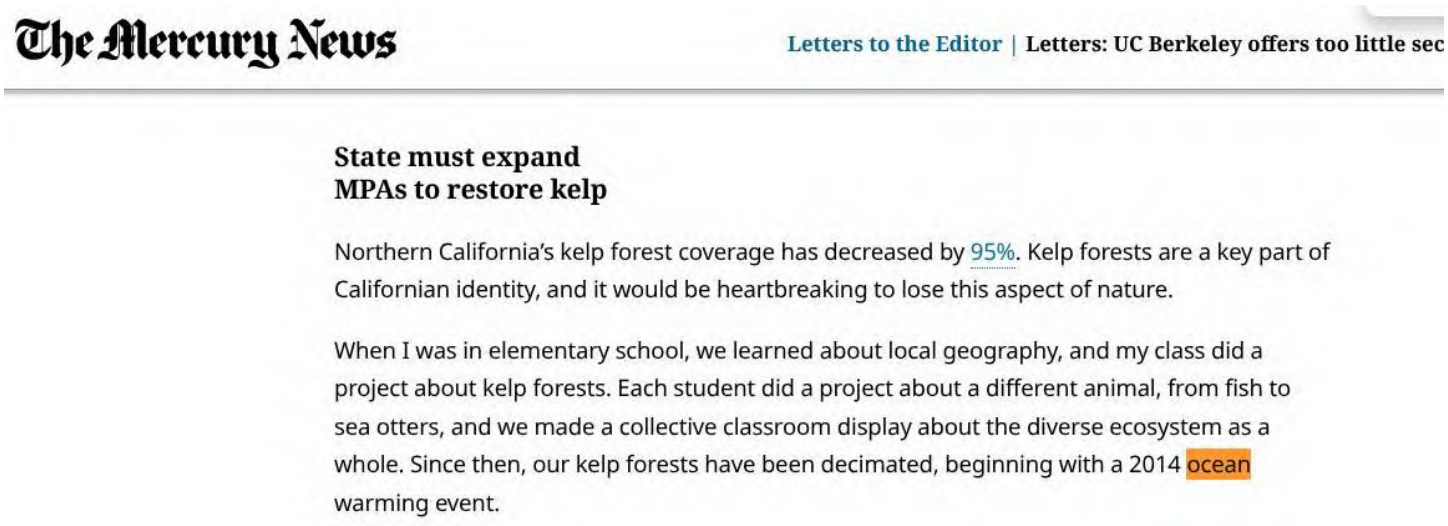
https://nationaltoday.com/us/ca/santa-barbara/news/2026/03/12/senate-supports-expanded-marine-protections-mtp-petition-goal-met/ *rnias-marine-protected-areas/*

The Davis enterprise

UCD students bring attention to oceans

Monica Stark, Enterprise staff writer Apr 25, 2025 Updated Apr 25, 2025 0

https://www.davisenterprise.com/news/ucd-students-bring-attention-to-oceans/article_615ebc3e-b87a-4b6e-83ea-7b8f17584859.html



The Mercury News

Letters to the Editor | Letters: UC Berkeley offers too little sec

State must expand MPAs to restore kelp

Northern California's kelp forest coverage has decreased by 95%. Kelp forests are a key part of Californian identity, and it would be heartbreaking to lose this aspect of nature.

When I was in elementary school, we learned about local geography, and my class did a project about kelp forests. Each student did a project about a different animal, from fish to sea otters, and we made a collective classroom display about the diverse ecosystem as a whole. Since then, our kelp forests have been decimated, beginning with a 2014 ocean warming event.

https://www.mercurynews.com/2025/11/14/letters-berkeley-security-conservative-event/

CALPIRG Students

Sunday, April 12, 2026

DAILY NEXUS

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

STUDENT GOV

Senate supports expanded marine protections, MTP meets petition goal

March 12, 2026 at 9:50 am by Wynne Bendell and Olek Zurek

The 76th Associated Students Senate formally signed on to support expanded California marine protections at its last meeting of winter quarter on March 4. Later in the meeting, the Mobility Transportation Program announced it received enough petition signatures to get its fee initiative on the spring election ballot.

The Senate unanimously adopted a resolution expanding marine protected areas and fully protecting 30% of California's coastal waters by 2030. Shengyu Zheng / Daily Nexus

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https://dailynexus.com/2026-03-12/senate-supports-expanded-marine-protections-mtp-meets-petition-goal/

‘Future Oceans,’ a look at San Diego County’s marine protected areas | San Diego Tribune

CALPIRG at UC San Diego and our friends at Environment California helped film a documentary last year with the San Diego Tribune. This week, it was finally released! The 35-minute film discusses threats to our oceans, and investigates San Diego County's 11 marine protected areas, along with proposals around expanding the existing Cabrillo Marine Reserve in San Diego. ***Watch the film on YouTube >>***

The segment featuring CALPIRG Students begins at the 14:40 timestamp

‘Future Oceans,’ a look at San Diego County’s marine protected areas

CALPIRG Students

Petitions In Support of Strengthening and Expanding Marine Protected Areas

Loca Crampin, UC Berkeley
Marleny Avila, UC Berkeley
Gabriela Rojasgarcia, UC Berkeley
Ronan Munoz, UC Berkeley
Ashley Nguyen, UC Berkeley
Yawei Zhang, UC Berkeley
Aysha Berry, UC Berkeley
Sofia Lopez Domingwez, UC Berkeley
Daniel Zlagan, UC Berkeley
Evalyn Flores, UC Berkeley
Dylan Hayes, UC Berkeley
Solange Deborah, UC Berkeley
Luiza Bacetti, UC Berkeley
Krish Bala, UC Berkeley
Howard Yao, UC Berkeley
Margarita Fedorova, UC Berkeley
Frederic Esters, UC Berkeley
John de Vere, UC Berkeley
Eliana Bazzo, UC Berkeley
Jinwoo Choi, UC Berkeley
Joy Tang, UC Berkeley
Sergio Gonzalez, UC Berkeley
Maya Ali, UC Berkeley
Mikayla Llamas, UC Berkeley
Pritesh Patel, UC Berkeley
Marco Green, UC Berkeley
Stacey Parra , UC Berkeley
James Bogursky, UC Berkeley
Delaney Marquette, UC Berkeley
Hope Tran, UC Berkeley
Paola Adame, UC Berkeley
Gargi Jejurikar, UC Berkeley
Emily Shu, UC Berkeley
Ashlyn Torres, UC Berkeley
Nicole Nguyen , UC Berkeley
Nicole Honguan, UC Berkeley
Karol Perez, UC Berkeley
Elizabeth Roeder, UC Berkeley
Ashlan Fortino, UC Berkeley
Greta Greco, UC Berkeley
Daisy Loya, UC Berkeley
Weijie Ma, UC Berkeley
Ryan Justice-Williams, UC Berkeley
Salvador Chavarria, UC Berkeley
Jenna Grant, UC Berkeley
Maisey Mansson, UC Berkeley
Alexis Hara, UC Berkeley
Mengyan Fang, UC Berkeley
Paulo Verzosa, UC Berkeley
Lia Lubit, UC Berkeley
Susan Wu, UC Berkeley
Hudson Dopp, UC Berkeley
Max Arellane, UC Berkeley
Daniel Kim, UC Berkeley
Hal Kikutani, UC Berkeley
Sheraz Shriqui, UC Berkeley
Conrad Tetrault, UC Berkeley
Willie Macharia, UC Berkeley
Diego Carranza, UC Berkeley
Sachin Rao, UC Berkeley
Haniya Irfan, UC Berkeley
Miriam Ramos, UC Berkeley
Shayan Premaratne, UC Berkeley
Denisse Ochoa Nguyen, UC Berkeley
Priyam Baruah, UC Berkeley
Luela Di Padova, UC Berkeley
Jorge Yorto Panduro, UC Berkeley
Sarah Chapman, UC Berkeley
Jennifer Rodriguee, UC Berkeley
Ethan Loth, UC Berkeley
Natalie Anaya, UC Berkeley
Kennedy Holloway, UC Berkeley
Victoria Phelps, UC Berkeley
Ariana Lara, UC Berkeley
Doreen Li, UC Berkeley
Lachian Cobb, UC Berkeley
Diego Rios, UC Berkeley
Giovanni Tlaxcalteco Lopex, UC Berkeley

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Axel Velasquez, UC Berkeley
Riley Weil, UC Berkeley
Lily Grodzins, UC Berkeley
Theodore Schimizzi, UC Berkeley
Emma Gallagher, UC Berkeley
Mia Chambers, UC Berkeley
Rossy Campos Moreno, UC Berkeley
Kennedie Edejer, UC Berkeley
Anabelle Kang, UC Berkeley
Shuheng Chen, UC Berkeley
Natsu , UC Berkeley
Ona Manen Gomez, UC Berkeley
Hudson Schuchmann, UC Berkeley
Ronnie Taylor, UC Berkeley
Lidia Michael, UC Berkeley
Kaylie Escobar-Islas, UC Berkeley
Allan Arata-Vega, UC Berkeley
Sandy Duong, UC Berkeley
Julia Goudey, UC Berkeley
Lucas Steele, UC Berkeley
Chris Calder, UC Berkeley
Michelle Croteau, UC Berkeley
Alexander Flores, UC Berkeley
Annie Foo, UC Berkeley
Rebekah Becerra, UC Berkeley
Fatina Peralta, UC Berkeley
Kyleigh Wallace, UC Berkeley
Vish Goel, UC Berkeley
Alexander Profatilou, UC Berkeley
Ethan Crouten, UC Berkeley
Elena Soad Yuja Matute, UC Berkeley
Sophia Parungao, UC Berkeley
Rui Oiny, UC Berkeley
Yong-lin Hu, UC Berkeley
Sofia Berman, UC Berkeley
Annabelle Monroe, UC Berkeley
Amina Raiss, UC Berkeley
Christina Hamilton, UC Berkeley
Elise Priesman, UC Berkeley
Jose Vazquez, UC Berkeley
Mina Prasad, UC Berkeley
Yiting Ding, UC Berkeley
Malina Padua, UC Berkeley
Isabella Sanchez, UC Berkeley
Tallula Murphree, UC Berkeley
Mars Lopez, UC Berkeley
Davidoula Georgopoulou, UC Berkeley
Ohsoo Kwon, UC Berkeley
Tenzin Choezom, UC Berkeley
Marjan Labib, UC Berkeley
Christian Dieguez, UC Berkeley
Julia Owens, UC Berkeley
Nicole Heffley, UC Berkeley
Lillian Chung, UC Berkeley
Xiushan Lu, UC Berkeley
Anjali Krishnan, UC Berkeley
Ruby Frederick, UC Berkeley
Nathan Tsory, UC Berkeley
Samantha Lee, UC Berkeley
Elisha Cho, UC Berkeley
Jaden Shochet, UC Berkeley
Madeleine Harp, UC Berkeley
Miranda Smith, UC Berkeley
Mathieu Torloting, UC Berkeley
Victor Pieart, UC Berkeley
Pranav Krishna, UC Berkeley
Justin Taylor, UC Berkeley
William Lopez, UC Berkeley
Vanessa Olague, UC Berkeley
Namod Pallen, UC Berkeley
Wayne Wu, UC Berkeley
Jan De Leon, UC Berkeley
Valarie Pienceini, UC Berkeley
Valeria Reyes, UC Berkeley
Marlene Gomez, UC Berkeley
Tatiana Hanks, UC Berkeley
Liam Dew, UC Berkeley
Megnote Mekdem, UC Berkeley
Kiyomi Tateno, UC Berkeley
Ariany Sanchez, UC Berkeley
Nisleyah Verdadeko, UC Berkeley
Isabella Sizemore, UC Berkeley
Siddhi Jain, UC Berkeley
Omar Caro, UC Berkeley
Ruigi Gmo, UC Berkeley
Talion Gamble, UC Berkeley

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Audrey Ravid, UC Berkeley
Jax Magee, UC Berkeley
Azuri Vallatine, UC Berkeley
Diego Trejo, UC Berkeley
Samantha Chen, UC Berkeley
April Pineda, UC Berkeley
Gilbert Badillo, UC Berkeley
Chris Tringali, UC Berkeley
Ava Bourdeau, UC Berkeley
Ara Mehran, UC Berkeley
Luka Crawford, UC Berkeley
Melinda Aguilar, UC Berkeley
Seo Yeon Ko, UC Berkeley
Sofia Ruiz-McGinty, UC Berkeley
Aneri Shah, UC Berkeley
Aliyah Donohue, UC Berkeley
Elodie Handler, UC Berkeley
Hailey Brooks, UC Berkeley
Rayyan Mohamed, UC Berkeley
Halona Lao, UC Berkeley
Rattanont Ariyaratranysee, UC Berkeley
Seongheun Kim, UC Berkeley
Edwin Gonzalez, UC Berkeley
Emily Rodriguez, UC Berkeley
Julie Rebollar, UC Berkeley
Jenny Fang, UC Berkeley
Alyssa Barkus, UC Berkeley
Victoria Ames, UC Berkeley
Gregory Ewing, UC Berkeley
John Vicente, UC Berkeley
Stephanie Landaverde, UC Berkeley
Mikaela Balaban, UC Berkeley
Adrian Sedgwick, UC Berkeley
Yuwen Heffley, UC Berkeley
Nidal Ali, UC Berkeley
Kaelyn Jones, UC Berkeley
Tiah Ross Butner, UC Berkeley
Hannah Sanchez, UC Berkeley
Sofia Forrest-Turner, UC Berkeley
Zizou Desai, UC Berkeley
Manya Kumar, UC Berkeley
Jennifer Hall, UC Berkeley
Samantha Graues, UC Berkeley
Fabian Nobbir, UC Berkeley
Liubov voloshina, UC Berkeley
Nalani Bright, UC Berkeley
Victoria Rico, UC Berkeley
Praneel Shah, UC Berkeley
RJ Galirndo, UC Berkeley
Tim Nguyen, UC Berkeley
Rishi Leung, UC Berkeley
Nicole Donovan, UC Berkeley
Soloman Davis, UC Berkeley
Rashelle Jauregui, UC Berkeley
Rohan Rajasekhara Patil, UC Berkeley
Isabella Polonsky, UC Berkeley
Varsha Torpunuri, UC Berkeley
Taylor Waimrin, UC Berkeley
Elise Baylon, UC Berkeley
Khanh Dvong, UC Berkeley
Lola Beidler, UC Berkeley
Naomi Lin, UC Berkeley
Hector Munoz, UC Berkeley
Kali Swanson, UC Berkeley
Lucas Robertson, UC Berkeley
Max Cota Joyce, UC Berkeley
Tessa Davis, UC Berkeley
Jonathan Tecanhuehue, UC Berkeley
Miles Hoogner, UC Berkeley
Kashvi Dikshit, UC Berkeley
Sofia Garcia, UC Berkeley
Andrea Chu-tam, UC Berkeley
Mikias Abesha, UC Berkeley
Nicolas Cee, UC Berkeley
Alessandra Escobar, UC Berkeley
Angeni Lieben, UC Berkeley
Xavier Beck, UC Berkeley
Jonathan Henschel, UC Berkeley
Emma Mott, UC Berkeley
Isabella Cosentino, UC Berkeley
Gro Mutha, UC Berkeley
Adieb Wahbeh, UC Berkeley
Nathan Martinez, UC Berkeley
Annneliese Airitam, UC Berkeley
Jamie Ambrose, UC Berkeley
Charlotte Ponder, UC Berkeley

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Thalia White, UC Berkeley
Chloeline Bourdu, UC Berkeley
Carolina Visca, UC Berkeley
Kristen McKellar, UC Berkeley
Hailey Cho, UC Berkeley
Hannah Zheng, UC Berkeley
Zayda Cabatingan, UC Berkeley
Stephanie Chomyk, UC Berkeley
Vejdra Crocker, UC Berkeley
Candice Martin, UC Berkeley
Samuel Robson, UC Berkeley
Karishma Dhingra, UC Berkeley
Carlos Sanchez, UC Berkeley
Judy Luo, UC Berkeley
Jocelyn Moreno, UC Berkeley
Kawsar Homayoon, UC Berkeley
Nicholas Gonzalez, UC Berkeley
Talia Threlkeld, UC Berkeley
Anh Khoa Vu , UC Berkeley
Isabella Demiroska , UC Berkeley
Disha Sharma, UC Berkeley
Tina Nguyen, UC Berkeley
Alex MacMillan, UC Berkeley
Gabriella Garcia, UC Berkeley
Bridget Hovind, UC Berkeley
Reggie Ellison, UC Berkeley
Ella Buckner, UC Berkeley
Ruby Jiang, UC Berkeley
Lily Marie Munoz, UC Berkeley
Bryanna Hernandez, UC Berkeley
Rachel Yoo, UC Berkeley
Finn Lindgren, UC Berkeley
Jasmine Medina, UC Berkeley
Brooke Miller, UC Berkeley
Pheonix Huynh, UC Berkeley
Matthew Kubala, UC Berkeley
Ava Orozco, UC Berkeley
Prisha Sinha, UC Berkeley
Salman Mehrzai, UC Berkeley
Marsiah Leblanc, UC Berkeley
Jaehyun Kang, UC Berkeley
Niali Silva, UC Berkeley
Arry Jeejeebhoy, UC Berkeley
Fantasy Wang, UC Berkeley
Justin Vilaysouu, UC Berkeley
Chumyim Hau, UC Berkeley
Yuqi Wang, UC Berkeley
Arjun Krishna, UC Berkeley
Brigitte Kelly, UC Berkeley
Sarc van Mechelen, UC Berkeley
Brandon Felinkatubbe, UC Berkeley
Annie Mai-phuong, UC Berkeley
Satvika Iger, UC Berkeley
Alexander Acosta, UC Berkeley
Estrella Zarate-Pacheco, UC Berkeley
Jesus Coria, UC Berkeley
Adair Rosus Romero, UC Berkeley
Lisette Lopez , UC Berkeley
Wilhelmina Ratto, UC Berkeley
Srishti Pendyala, UC Berkeley
Henry Jugan, UC Berkeley
Alicia Rodriguez, UC Berkeley
Gorette Arreola Solis, UC Berkeley
Isabelle Weng, UC Berkeley
Seza Sapida, UC Berkeley
Laurier Ke, UC Berkeley
Simarraj Bains, UC Berkeley
Pardis Abd, UC Berkeley
Kavya Dadia, UC Berkeley
Jinjeong Kim, UC Berkeley
Aidan Shiu, UC Berkeley
Lesley Martinez, UC Berkeley
Isabel Liu, UC Berkeley
Emily Humphrey, UC Berkeley
Santiago Hernandez, UC Berkeley
Daniel Alvarado, UC Berkeley
Evelyn Toner, UC Berkeley
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Dararith Sao, UC Irvine
Emma Napoleon, UC Irvine
Gizelle Zaragoza, UC Irvine
Angel Valdez, UC Irvine
Richard Manuel, UC Irvine
Maximillian Lemus, UC Irvine
Bryant Huynh, UC Irvine
Omeed Rabie, UC Irvine
Ashley Monroy, UC Irvine
Humberto Rivera, UC Irvine
Maha Qureshi, UC Irvine
Leslie Delgadillo, UC Irvine
Christine Franklin, UC Irvine
Kaleb Hsieh, UC Irvine
Nikitha Vancheeswara, UC Irvine
Andrea Reyes, UC Irvine
Jessica Bell, UC Irvine
Tanya Andalon, UC Irvine
Valeria Gutierrez, UC Irvine
Lizbeth Ramirez, UC Irvine
Soma Ali, UC Irvine
Kiara Phillip, UC Irvine
Marco Gama, UC Irvine
Yaritza Xitlaly Hernandez, UC Irvine
Angelu Lesaca, UC Irvine
Suhasiny Naik, UC Irvine

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Karen Lopez-Martinez, UC Irvine
Idean Shahbazian, UC Irvine
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Steven Mallonee, UC Irvine
Alison Francisco, UC Irvine
Luckana Kim, UC Irvine
Brenden Lopez, UC Irvine
Kaitlynn Chung, UC Irvine
Ezequiel Taleno, UC Irvine
Chantelle Languyen, UC Irvine
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Brenda Rodriguez, UC Irvine
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Ilaay Shwartzman, UC Irvine
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Miranda Lauren Kleier, UC Irvine
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Allonso Lopez, UC Irvine
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Xianyang Duan, UC Irvine
Nik Steiner, UC Irvine
Andrea Huertero, UC Irvine
Kassia Curl, UC Irvine
Samar Rana, UC Irvine
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Kayla Jackson, UC Irvine
Edwin Zhang, UC Irvine
Celia Nishikawa, UC Irvine
Eunice Shin, UC Irvine
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Ricardo Cortes, UC Irvine
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Vikram Repalle, UC Irvine
Zongze Li, UC Irvine
Cindy Le, UC Irvine
Kaitlyn Bin, UC Irvine
Madalaine Berthon, UC Irvine
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Lovleen Bajwa, UC Irvine
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Vincent Caudillo, UC Irvine
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Yvonne Yu, UC Irvine
Xochitl Berumen, UC Irvine
Gerry Villegas, UC Irvine
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Nicole Lugo, UC Irvine
Nguyen Ngo, UC Irvine
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Jesus Jimenez, UC Irvine
Miranda Helena, UC Irvine
Kissa Coulibaly, UC Irvine
Liliana Talavera, UC Irvine
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Valeria Reyna, UC Irvine
Olivia Luo, UC Irvine
Andrew Ramos, UC Irvine
Aviraj Singh, UC Irvine
Yashada Oak, UC Irvine
Giselle Fonseca, UC Irvine
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Stephanie Gonzales, UC Irvine
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Qing Ji, UC Irvine
Timothy Tennant, UC Irvine
Alzhana Jones, UC Irvine
Oliva Wadley, UC Irvine
Aregter Bagdasarian, UC Irvine
Stacey Rodriguez, UC Irvine
Roger Le, UC Irvine
Ruby Kirk, UC Irvine
Daria Balashova, UC Irvine
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Ana Santiago Oliveira Vilela, UC Irvine
Emily Orth, UC Irvine
Alina Padilla, UC Irvine
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Scott Jordan, UC Irvine
Trista Lara, UC Irvine
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Emma Barnett, UC Irvine
Jimmy Smith, UC Irvine
Wendy Gi Situ, UC Irvine
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Alexis Buenaventura, UC Irvine
Favor Uchenna, UC Irvine
Aidan Tong, UC Irvine
Joshua Kenworthy, UC Irvine
Sachita Rayapati, UC Irvine
Ziying He, UC Irvine
Jason Minhkhai Tran, UC Irvine
Hezi Ji, UC Irvine
Nhat Thanh Ha, UC Irvine
Hana Aljassim, UC Irvine
Bridgette Galope, UC Irvine
Viridiana Morenorviz, UC Irvine
Amin Mansouri, UC Irvine
Makayla Luevano, UC Irvine
Shreya Shyam, UC Irvine
Gina Lim, UC Irvine
John Ramos, UC Irvine
Louis Martinez, UC Irvine
Katie Paz, UC Irvine
Michelle Lu, UC Irvine
Aijia Wang, UC Irvine
Eddie Zhang, UC Irvine
Venel Manasi, UC Irvine
Maya Churi, UC Irvine
Alejandro Vazquez Rodriguez, UC Irvine
Sergio Lopez, UC Irvine
Hunter Williams, UC Irvine
Romina Hacopian, UC Irvine
Weiran Wang, UC Irvine
Ariel Apricia Tjandra, UC Irvine
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Darien Chung, UC Irvine
Matthew Hudson Hicks, UC Irvine
Skylar Noelani Tachikawa, UC Irvine
Jeremy Brinas, UC Irvine
Ammar Khan, UC Irvine
Celine Urrea, UC Irvine
Hieyle Dang, UC Irvine
Linus Lee, UC Irvine
Kevin Qin, UC Irvine
Isnita More, UC Irvine
Jason Hoang, UC Irvine
Qinfei Rei, UC Irvine
Aaron Alexander Ramirez, UC Irvine
Aldrich Jayden Duque, UC Irvine
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Amaya Gatson, UC Irvine
Jerald Adriano, UC Irvine
Saibrainda Kotthru, UC Irvine
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Carol Chen, UC Irvine
Jessica Thai, UC Irvine
Yukang Li, UC Irvine
Tara Morisato, UC Irvine
Erik Sanchez, UC Irvine
Eduardo Gonzalo Garza, UC Irvine
Tina Roshannia, UC Irvine
Cesar Espinosa, UC Irvine

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Madison Sutherland, UC Irvine
Simon Jeau, UC Irvine
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Gabriel Loza, UC Irvine
Noah Hong, UC Irvine
Lauren Perez, UC Irvine
Sarah Koloyian, UC Irvine
Sara Ayala, UC Irvine
Melody Alvarez, UC Irvine
Nataly Juarez, UC Irvine
Lynch Gao, UC Irvine
Riverjoy Jacinto, UC Irvine
Eliana Torres, UC Irvine
Jefferson Ho, UC Irvine
Brisa Rico, UC Irvine
Michael Jefferson, UC Irvine
Sofia Sandoval, UC Irvine
Kim Gange, UC Irvine
Matthew Recinos, UC Irvine
Yihe Qi, UC Irvine
Katherine Park, UC Irvine
Julia Hunter, UC Irvine
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Tia Chung-Swanson, UC Irvine
Ismael Orduna, UC Irvine
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Bryce Verket, UC Irvine
Neil Yang, UC Irvine
Joseph Gallegos, UC Irvine
Melina Nassim Noruz, UC Irvine
Britney Cruz Torales, UC Irvine
Yunchui Shin, UC Irvine
Praise Sar Oo, UC Irvine
Veraaj Bedi, UC Irvine
Lucy Kouyumjian, UC Irvine
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Ethan Smith, UC Irvine
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Nghi Quach, UC Irvine
Hannah Briseño, UC Irvine
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Omar Gomez, UC Irvine
Natalia Nunez, UC Irvine
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Jason Diep, UC Irvine
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Jim Chen, UC Irvine
Lucas Jimenez-Suselo, UC Irvine
Ryan Huy Nguyen, UC Irvine
Sean Somers, UC Irvine
Nadine Salum, UC Irvine
Caitlin Ann Tongson, UC Irvine
Rachna Narang, UC Irvine
Jaclyn Nguyen, UC Irvine
Suvan Sudan, UC Davis
Elijah Rogge, UC Davis
Brandon Moon, UC Davis
Yoselin Hernandez, UC Davis
Wenqi Li, UC Davis
Kexin Wen, UC Davis
Hooman Golshan, UCLA
Enrique Rodriguez, UCLA
Valeria Ruelas, UCLA
Kay Chun, UCLA
Theresa De, UCLA
Lucha Martinez, UCLA
Mackenzie van, UCLA
Andrei Louie, UCLA
Richard Aaron, UCLA
Johnny Sealle, UCLA
Eileen Giselle, UCLA
Odalis de, UCLA

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Paloma De, UCLA
Kylie De, UCLA
Natalie Mbok, UCLA
Karla Vasquez, UCLA
Danya Rubal, UCLA
Daniela Omar, UCLA
Ryan Van, UCLA
Harlan Van, UCLA
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Denise Mora, UCLA
Priyanka Jaipal, UCLA
Anna De, UCLA
Giselle Flores, UCLA
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Lizabeth Annabel, UCLA
Adriana Hernandez, UCLA
Mariela Velas, UCLA
Stephany De, UCLA
Saul Murillo, UCLA
Isabel Dela, UC Santa Cruz
Ruby Sutherlin, UC Santa Cruz
Nora May, UC Santa Cruz
Wafa Imaan, UC Santa Cruz
Vara Neha, UC Santa Cruz
Lukas Teixeira, UC Santa Cruz
Seo Yeon, UC Santa Cruz
Diego Sanchez, UC Santa Cruz
Sean Eric, UC Santa Cruz
Orma Jean, UC Santa Cruz
Erik Flores, UC Santa Cruz
Ashton Vera, UC Santa Cruz
Jun Yee, UC Santa Cruz
Jade Marie, UC Santa Cruz
Naomi San, UC Santa Cruz
Davis Jihyoung, UC Santa Cruz
Starr Yvonne, UC Santa Cruz
Ariattne Zarate, UC Santa Cruz
Anton Diego, UC Santa Barbara
Syed Sherali, UC Santa Barbara
Ana Dai, UC Santa Barbara
Yat Long, UC Santa Barbara
Nicholas Roze, UC Santa Barbara
Macylene De, UC San Diego
Carolina Diaz, UC San Diego
Nicolas Ventos, UC San Diego
Abdullah Al, UC San Diego
Pilar Zita, UC San Diego
Malea Van, UC San Diego
Karla Diaz, UC San Diego
Ana Flores, UC San Diego
Daniel Ocsoa, UC San Diego
Celia De, UC San Diego
May Moe, UC San Diego
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Erin De, UC San Diego
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Anai De, UC San Diego
Ji Eun, UC San Diego
Brenda J., UC San Diego
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Asael Perez, UC San Diego
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Mahe Noor, UC Irvine
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Nghi Tinh, UC Irvine
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Jesus Castro, UC Irvine
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Sara Maria, UC Irvine
Ann Margaret, UC Irvine
Ronald Tri, UC Irvine
Michael Alenxander, UC Irvine
Abhigya Thapa, UC Irvine
Sin Yau, UC Irvine
Haley Lynn, UC Irvine
Christopher George, UC Irvine
Samantha Sidnee, UC Irvine
Kyrie Eleison, UC Irvine

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Christian Alexander, UC Irvine
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Elsa Di, UC Irvine
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Vivianna Flow, UC Irvine
Ruben Jr., UC Irvine
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Gael Rivera, UC Irvine
Berlynn Maricruz, UC Irvine
Emma Grace, UC Irvine
Elliot Youngjae, UC Irvine
Ashlley Carolina, UC Irvine
Isalys De, UC Irvine
Brigida Maritza, UC Irvine
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Jonathan Alonso, UC Irvine
Melina Nassim, UC Irvine
Britney Cruz, UC Irvine
Praise Sar, UC Irvine
Ryan Huy, UC Irvine
Caitlin Ann, UC Irvine
Sophia Bucholtz, UC Davis
Keon Felicity, UC Davis
Mary Ann, UC Davis
Sara El, UC Davis
Tiarra Marie, UC Davis
Curt Joseph, UC Davis
Karla De, UC Davis
Parnian Sartip, UC Davis
Liliana Corona, UC Davis
Cristian Juarez, UC Davis
Aline Da, UC Davis
Anisa Saralyn, UC Davis
Annabella Del, UC Davis
Juli Jarquin, UC Davis
Aracely Vega, UC Davis
Unaisa Farhin, UC Davis
Taha Al, UC Davis
Daisy Ramos, UC Davis
Thao Nguyen, UC Davis
Jorge luis, UC Davis
Cindy Aguilar, UC Davis
Rosa Sanchez, UC Davis
Ben Rosacker, UC Davis
Camili Leon, Berkeley
Alondra Torres, Berkeley
Michelle St, Berkeley
Natasha Thussu, Berkeley
Eu Suk, Berkeley
Daisy Paxtor, Berkeley
Biblan Santos, Berkeley

76th Senate

Winter Session

S.R. C-01

Resolution Type: Positional

A Resolution to Endorse Expanding Marine Protected Areas and Fully Protecting 30% of California's Coastal Waters by 2030 in Support of the CALPIRG Students Campaign

A resolution, brought by **Senator Eemaan Wahidullah** and joined by **Senator Erica Sherkin,** to formally endorse expanding Marine Protected Areas and supporting California's 30x30 conservation goals in partnership with CALPIRG Students and environmental stakeholders.

Endorsed by the following student sponsors:

WHEREAS: The student body within the University of California, Santa Barbara has an innate duty to a commitment to a thriving, healthy marine ecosystem, as the ocean acts not only as a learning lab for our many marine science programs, but as a classroom for early education through the REEF center, among others, and;

WHEREAS: Associated Students has the resources and skills to support ocean conservation efforts that are taking place at both the state level as well as through campus-based efforts, such as through BCU and RCOs, and;

WHEREAS: Marine ecosystems play a vital role in climate mitigation, as oceans absorb approximately 25–30% of human-generated carbon dioxide emissions, reducing atmospheric warming and stabilizing global climate systems; and,

WHEREAS: Marine Protected Areas (MPAs) are scientifically proven conservation tools that protect biodiversity, rebuild fish populations, increase ecosystem resilience, and sustain coastal economies dependent on marine resources; and,

WHEREAS: California's ocean economy supports over 563,000 jobs and generates approximately $42 billion annually through industries including tourism, recreation, and fisheries, demonstrating the ocean's critical economic importance to the state; and,

WHEREAS: California established its statewide Marine Protected Area network under the Marine Life Protection Act, creating one of the most comprehensive marine conservation networks in the world, protecting approximately 16% of state waters; and,

WHEREAS: The International Union for Conservation of Nature has placed California's Marine Protected Area network on the Green List, the global gold standard for effective conservation management; and

WHEREAS: The ocean is fundamental to life on Earth, producing over half of the oxygen we breathe, regulating climate systems, and serving as an iconic natural, cultural, and educational resource for students across California, particularly at UC Santa Barbara; and,

WHEREAS: Governor Gavin Newsom issued Executive Order N-82-20 committing California to conserve 30% of its coastal waters and land by 2030 ("30x30"), recognizing biodiversity conservation as essential to addressing climate change and ecosystem collapse; and,

WHEREAS: Expanding Marine Protected Areas contributes to increased fish populations, ecosystem restoration, and economic resilience for coastal communities dependent on sustainable fisheries; and,

WHEREAS: Santa Barbara County has experienced severe environmental harm from offshore oil drilling, including the 1969 Santa Barbara Oil Spill, which released approximately three million gallons of oil, catalyzing the modern environmental movement; and,

WHEREAS: More recently, the 2015 Refugio Oil Spill released over 140,000 gallons of crude oil along the Santa Barbara coastline, severely damaging marine ecosystems, killing wildlife, and impacting tourism, fisheries, and local economies; and,

WHEREAS: Marine Protected Areas help safeguard coastal ecosystems from industrial activities such as offshore drilling and overfishing, preventing long-term ecological and economic damage; and,

WHEREAS: CALPIRG Students is a statewide student advocacy organization that works to protect California's environment and mobilizes students to support expanding Marine Protected Areas and achieving California's 30x30 conservation goals; and,

WHEREAS: Students at the University of California, Santa Barbara have a strong vested interest in protecting local marine ecosystems, given UCSB's coastal location and institutional leadership in marine science research through programs such as the Bren School of Environmental Science and Management and Marine Science Institute;[1] and,

WHEREAS: Supporting Marine Protected Areas aligns with UCSB's institutional sustainability goals and the student government's responsibility to advocate for environmental protection, public health, and ecological resilience.

THEREFORE, BE IT RESOLVED by the Associated Students in the 76th Senate assembled hereby:

THEREFORE, LET IT BE FURTHER RESOLVED by the Associated Students in the 76th Senate assembled, The Associated Students of the University of California, Santa Barbara, formally endorses expanding Marine Protected Areas in California to fully protect 30% of the state's coastal waters by 2030 in alignment with Executive Order N-82-20 and CALPIRG Students' campaign goals.

THEREFORE, LET IT BE FURTHER RESOLVED by the Associated Students in the 76th Senate assembled, The Associated Students recognizes Marine Protected Areas as essential tools for protecting biodiversity, mitigating climate change, preserving local ecosystems, and safeguarding Santa Barbara's coastal environment.

THEREFORE, LET IT BE FURTHER RESOLVED by the Associated Students in the 76th Senate assembled, Associated Students supports the efforts of CALPIRG Students and will actively collaborate with CALPIRG Students and environmental partners by promoting conservation-related events, supporting student outreach and advocacy campaigns, and increasing campus engagement in Marine Protected Area and 30x30 initiatives

THEREFORE, LET IT BE FURTHER RESOLVED that the Associated Students supports science-based petitions that strengthen or expand Marine Protected Areas, and opposes petitions that would weaken existing protections, particularly those impacting ecologically significant regions near Santa Barbara and the Channel Islands.

THEREFORE, LET IT BE FURTHER RESOLVED that the Associated Students encourages campus departments, student organizations, and sustainability initiatives to incorporate ocean

conservation education, programming, and outreach into their activities where applicable.

THEREFORE, LET IT BE FURTHER RESOLVED by the Associated Students in the 76th Senate assembled, that Associated Students calls upon the California Department of Fish and Wildlife, the California Fish and Game Commission, the California Natural Resources Agency, and the Ocean Protection Council to continue expanding, strengthening, and fully protecting Marine Protected Areas.

THEREFORE, LET IT BE FINALLY RESOLVED that copies of this resolution be transmitted to:

1. The Office of Governor Gavin Newsom
2. The California Natural Resources Agency
3. The California Department of Fish and Wildlife
4. The California Fish and Game Commission
5. The Ocean Protection Council
6. CALPIRG Students Statewide Leadership
7. UCSB Office of Sustainability
8. UCSB Marine Science Institute
9. UCSB Bren School of Environmental Science & Management
10. and the Associated Students Office of the President.

ENVIRONMENT CALIFORNIA

Azul

Petition 33: Conserve healthy kelp forest habitat

Expand Natural Bridges Marine Reserve
New Pleasure Point Marine Conservation Area

April 2026

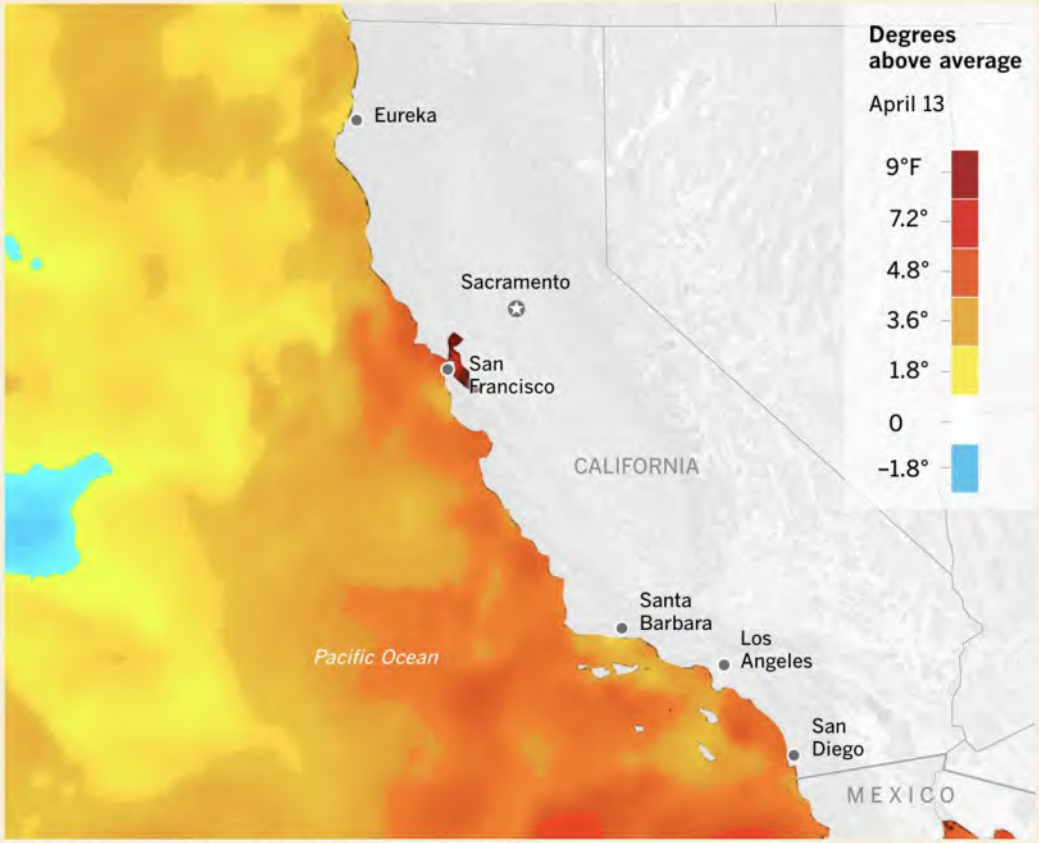
Origin of the proposal to conserve more of the last healthy kelp forest habitat

ENVIRONMENTCALIFORNIA

Azul

Record-breaking marine heat wave

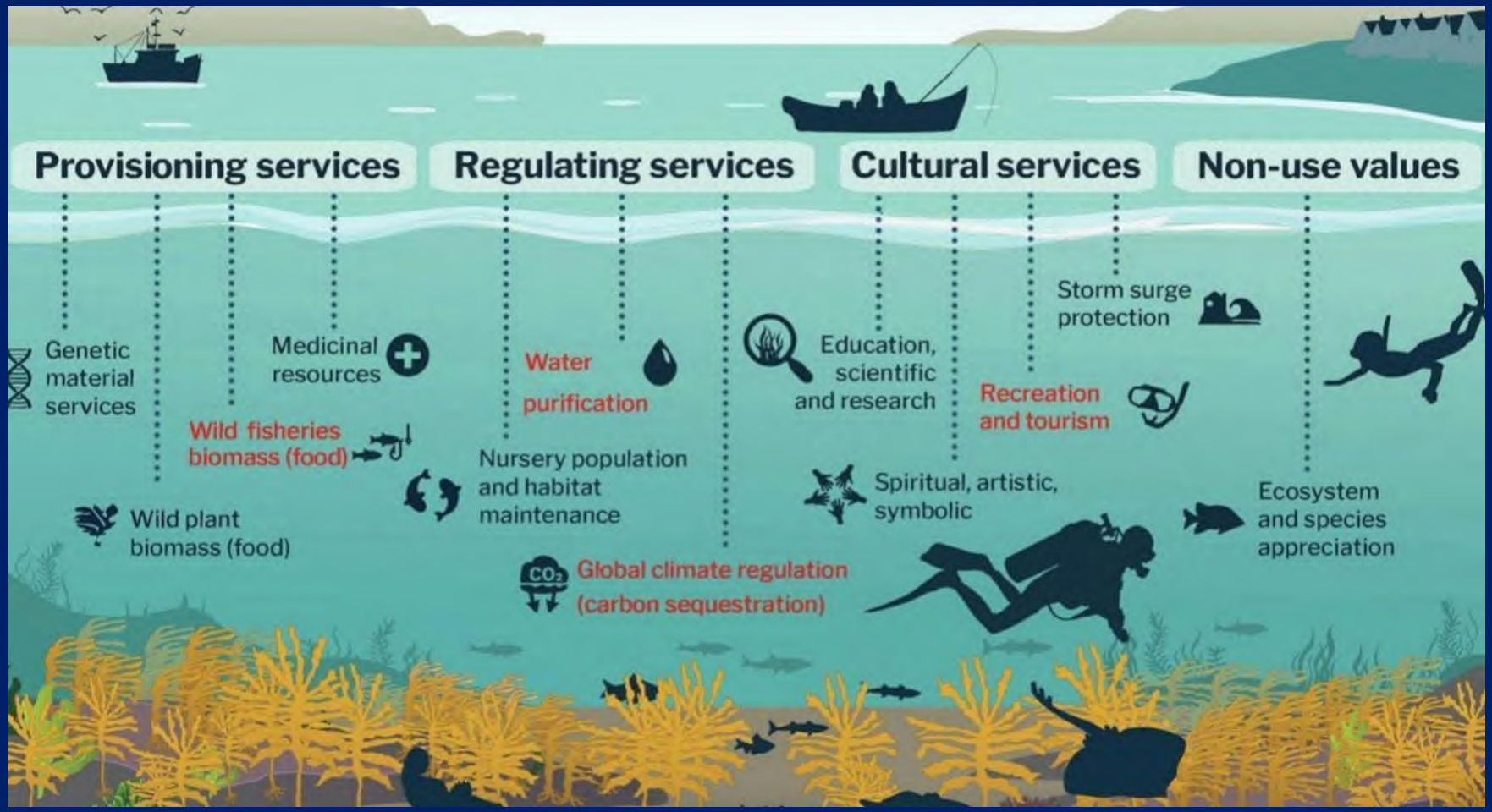
Sea surface temperatures are warming along the coast of California.



National Oceanic and Atmospheric Administration, Google Earth

Lorena Iñiguez Elebee LOS ANGELES TIMES

Changes since first Marine Protected Area Network was created- Marine Heatwave- the Blob, 2019, 2026



Kelp forests are vital for our coast. Conservation over restoration.

Natural Bridges Marine Reserve proposal: Expand to encompass healthy kelp forest, sandy bottom
Current size- .58 sq miles, proposal: 14.5 Sq miles

ENVIRONMENTCALIFORNIA

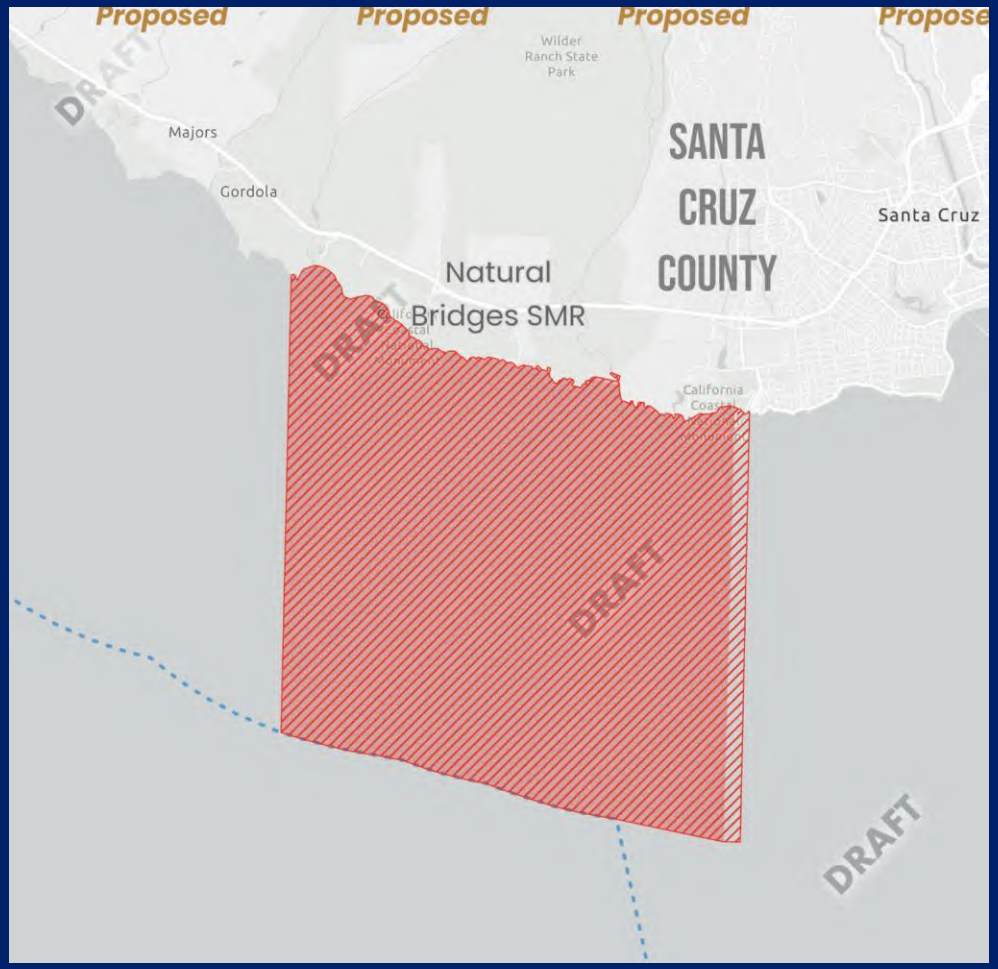
Azul

Pleasure Point: New Marine Conservation Area proposal
Proposed: 3.2 Sq Miles

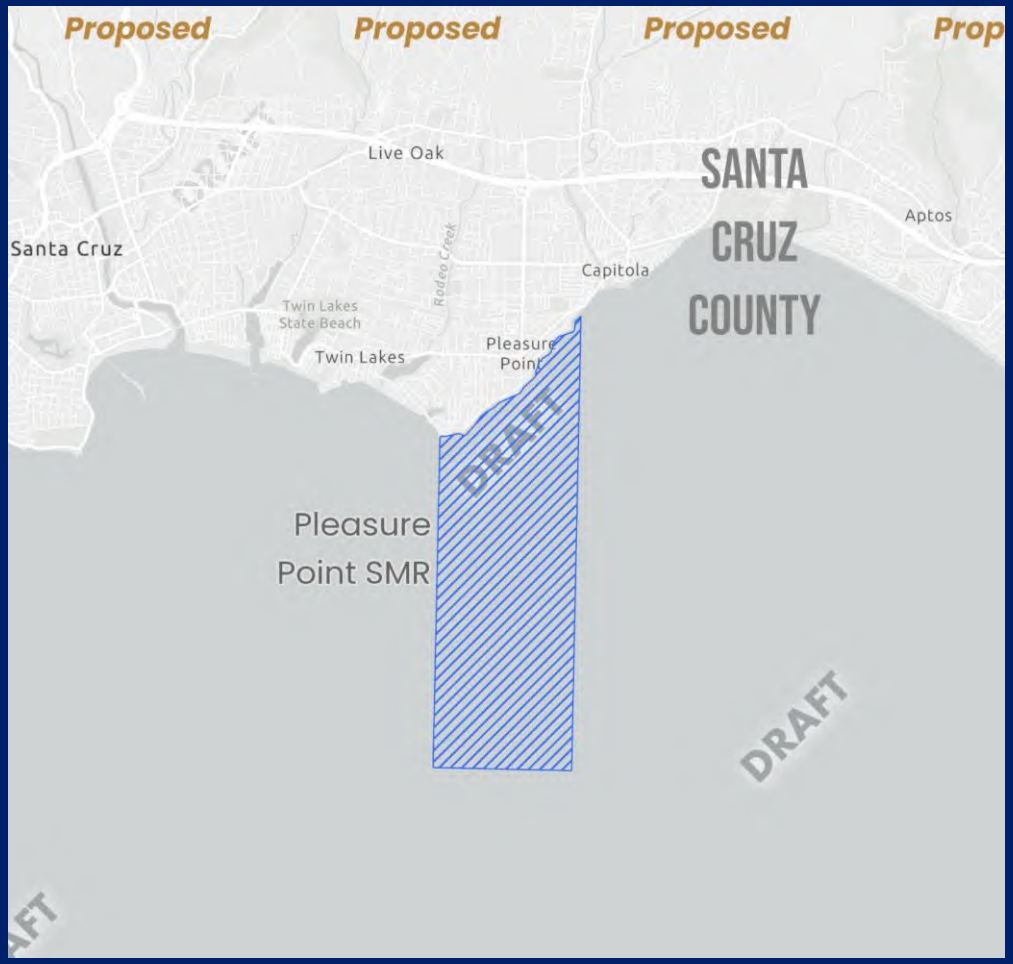
ENVIRONMENTCALIFORNIA

Azul

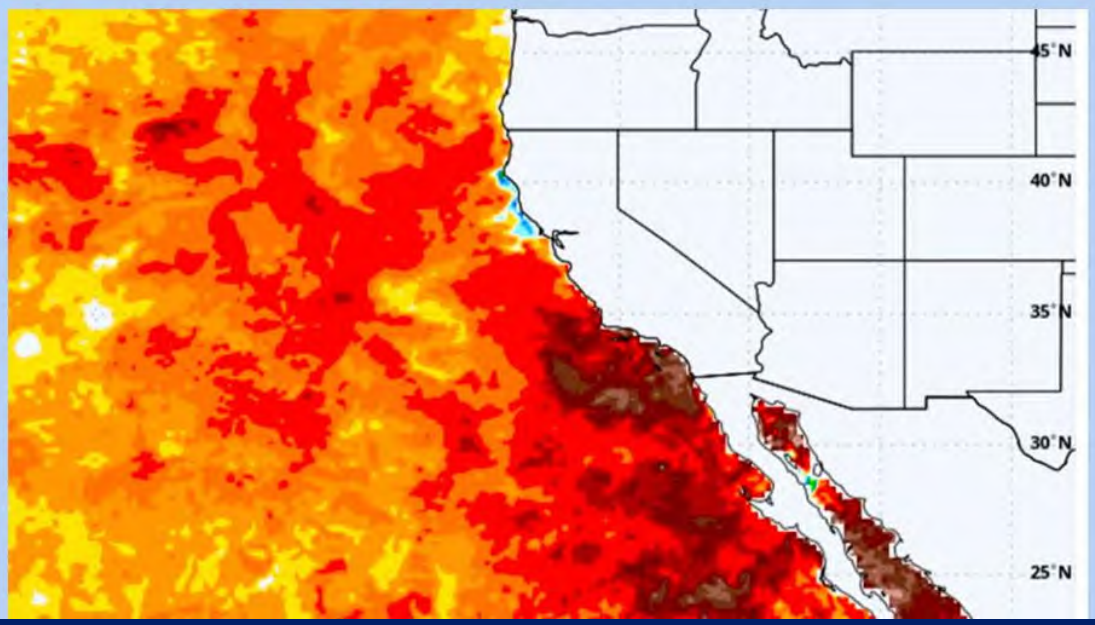
Address gap - Distance between Ano Nuevo and Monterey Peninsula- 79 nautical miles



Natural Bridges reserve- amendment to include the area next to the Natural Bridges state beach



Pleasure Point Amendment- allow hook and line and spear fishing from shore or non motorized boats.
Level of protection analysis/ MPA guide- recreational fishing impact question



News

Record-Breaking Marine He Blob' Returns to West Coast

NOAA says a massive marine heatwave known a West Coast, with a potential 'Godzilla' El Niño set season.

Mar 24, 2026 4:49 PM EDT

By Dashel Pierson Managing Editor, SURFER

Marine heat wave- current- intense and getting more frequent in the future

Support:

50+ marine scientists

40+ non profit organizations

30K+ Californians

Small businesses- esp recreation

ENVIRONMENTCALIFORNIA

PPIC PUBLIC POLICY INSTITUTE OF CALIFORNIA

STATEWIDE SURVEY · JULY 2024

PPIC Statewide Survey: Californians and the Environment

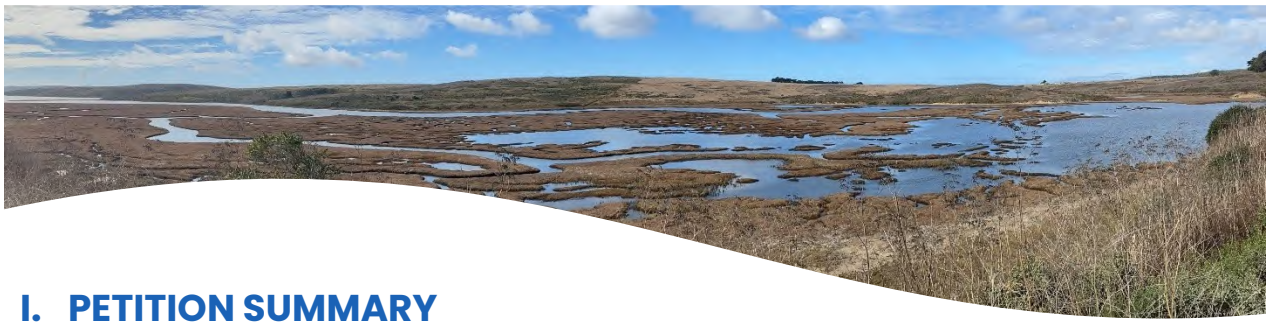
55. Do you favor or oppose expanding California Marine Protected Areas—or MPAs—to protect fish, wildlife, and their habitat off the California coast?

81% favor
18% oppose
1% don't know

Over 80% of Californians support expanding marine protected areas. Support is higher in coastal California.

California Department of Fish and Wildlife's Evaluation of 2023 Decadal Management Review Marine Protected Area Petition:

Expand Boundaries of Cabrillo, Natural Bridges, Point Conception, South Point, and Gull Island SMRs, Point Dume SMCA, and Add a New SMCA at Pleasure Point (2023-33MPA_AM)



I. PETITION SUMMARY

CFGC Tracking Number	2023-33MPA_AM
Petition Contact/Affiliation	Laura Deehan, Environment California Research and Policy Center and Azul
Number of Proposed Actions	7
Affected MPAs	Cabrillo State Marine Reserve (SMR), Natural Bridges SMR, Point Conception SMR, South Point SMR, Gull Island SMR, Point Dume State Marine Conservation Area (SMCA), and Pleasure Point SMCA (proposed new MPA)
Petition Summary	To protect kelp forest habitat, designate one new MPA and expand boundaries at six existing MPAs; add new take allowance at Point Dume SMCA.
Link to StoryMap page	2023-33MPA_AM

March 2026

II. CDFW RECOMMENDATIONS AND BRIEF JUSTIFICATION

Note: If a change to the marine protected area (MPA) regulations is not needed to address the proposed change, California Department of Fish and Wildlife (CDFW) did not evaluate the proposed change using the framework. However, CDFW may recommend an alternative pathway to achieving the desired outcome of the proposed change.

Petition Action ID and Proposed Action	Petitioner's Stated Rationale and Brief Justification for Proposed Actions	CDFW Recommendation and Brief Justification
2023-33MPA_1-7 Expand six MPAs and establish a new MPA to protect kelp.	The petitioner's stated intent for the proposed change is to protect kelp beds identified by recent analyses as highly persistent, historically stable, and currently in good condition. The petitioner states, "removing, to the extent possible, direct human impacts on these resilient kelp forests that are potential climatic refuges will not only help these areas persist, but will also enhance the state's restoration efforts for other kelp forests in decline."	**Deny 2023-33MPA_1-7.** The following applies to all proposed actions in the petition. Additional considerations for individual MPAs are included below. The proposed actions are not anticipated to improve the MPA Network from either an ecological or management perspective. The proposed changes would not advance management recommendations from the Decadal Management Review (DMR) or current or emerging MPA management challenge (CDFW 2022). While kelp declines and climate change are key issues of concern, the proposed actions are not the most effective solutions. In addition, the proposed changes do not align with the original intent of the affected MPAs. The petition relies on the premise that expanding MPAs to encompass kelp patches identified as particularly persistent will meaningfully improve kelp stability, resilience, and/or recovery. However, this is not supported by site-specific

Petition Action ID and Proposed Action	Petitioner's Stated Rationale and Brief Justification for Proposed Actions	CDFW Recommendation and Brief Justification
		mechanistic evidence. While MPAs remain a core conservation tool, they are not a standalone or flexible mechanism for supporting kelp restoration or enhancing kelp persistence, and implementation could introduce regulatory constraints that limit future restoration opportunities. Kelp restoration and management efforts should be guided by the forthcoming Kelp Restoration and Management Plan (KRMP), which will provide the framework for developing and implementing effective kelp management strategies and best practices for kelp restoration. The proposed MPA expansions and new MPA may have the potential to interact with the regulations and permitting activities of various federal and state agencies, including the State Water Resources Control Board (State Water Board) and Regional Water Quality Control Board (regional water boards; collectively, Water Boards) related to point source (e.g., wastewater treatment facilities) and non-point source discharges (e.g., stormwater runoff) into Marine Managed Areas. The DMR indicated the MPA Network as designed is meeting expectations and functioning effectively to achieve the goals of the Marine Life Protection Act (MLPA) (CDFW 2022).

Petition Action ID and Proposed Action	Petitioner's Stated Rationale and Brief Justification for Proposed Actions	CDFW Recommendation and Brief Justification
		Therefore, significant regulatory changes to the MPA Network should meet a high threshold of demonstrated conservation value and need, as well as clear, science-supported benefit built off rigorous scientific analysis, robust tribal and stakeholder engagement, and iterative statewide collaboration to ensure the scientific integrity of the MPA Network and the mandates of the MLPA are met.
2023-33MPA_1_AM1 Expand Cabrillo State Marine Reserve (SMR) westward (to 3-mile state line) and northward (to New Hope Rock) by ~9.99 sq mi.	See stated rationale and brief justification for 2023-33MPA_1-7.	**Deny.** Expansion to the 3 nautical mile (nm) limit of state waters is not necessary to achieve the petition's stated objective of protecting kelp, which is largely confined to shallow waters less than approximately 98 feet (30 m) in depth. The proposed action also conflicts with the original intent of this MPA, which was deliberately designed to protect nearshore habitats while minimizing socioeconomic impacts, particularly to the lobster fishery. The petitioner did not provide sufficient evidence to warrant expanding Cabrillo SMR. In addition, the U.S. Navy opposes this MPA expansion due to concerns that the expansion would create operational constraints to military readiness.
2023-33MPA_2_AM1 Expand Point Dume State Marine Conservation Area	See stated rationale and brief justification for 2023-33MPA_1-7.	**Deny.** The proposed additional take allowance of recreational hook-and-line fishing from shore would conflict with the

Petition Action ID and Proposed Action	Petitioner's Stated Rationale and Brief Justification for Proposed Actions	CDFW Recommendation and Brief Justification
(SMCA) westward by 4.6 sq mi. and add allowance for recreational take from shore by hook-and-line and by spearfishing.		intent of the MPA and compromise the designed function of the Point Dume SMCA/SMR cluster such that it would no longer serve as a backbone/replicate MPA for kelp, beach, rocky intertidal, and soft bottom habitats. This would create a substantial spacing gap between these habitats and diminish MPA Network functionality. During the MLPA Initiative planning process, this MPA cluster was intentionally designed to have a High (Point Dume SMCA) and Very High (Point Dume SMR) Level of Protection (LOP) so that it would serve as a habitat replicate and facilitate connectivity with the rest of the MPA Network. Implementing the proposed change would reduce the LOP to Moderate-low, which would compromise the design of the individual MPA as well as the MPA Network. During the MLPA Initiative planning process, all alternatives for take regulations in the SMCA were deliberately developed to allow some fishing activities while maintaining the High-LOP backbone cluster at Point Dume. None of the alternatives contemplated the inclusion of hook-and-line fishing from shore because this would result in a Moderate-Low LOP. The present proposal would not only change the intentional MPA design, but it would also change the MPA cluster design and

Petition Action ID and Proposed Action	Petitioner's Stated Rationale and Brief Justification for Proposed Actions	CDFW Recommendation and Brief Justification
		function so that it no longer serves as a habitat replicate, weakening the MPA Network. The proposed MPA expansion would also unnecessarily limit recreational and commercial fishing in the area proposed for expansion, the socioeconomic impacts of which are unknown. The majority of the proposed MPA expansion lies within a high-value commercial fishing block. Expanded boundaries for Point Dume were considered during the MLPA Initiative planning process and deliberately not retained by the Blue Ribbon Task Force (BRTF) and California Fish and Game Commission (CFGC) because the final configuration achieved the goal of maximizing habitat replication while minimizing impacts to consumptive uses. The petitioner did not provide sufficient evidence to warrant expanding Point Dume SMCA. Additionally, the proposed change would not align with the CDFW Feasibility Guidelines because the boundaries are not described using readily determined lines of latitude and longitude, and it is unclear if the landmarks suggested by the petitioner to identify the proposed boundaries are easily recognizable for both shore- and boat-based users. This, along with the addition of a new take allowance could also create enforcement challenges.

Petition Action ID and Proposed Action	Petitioner's Stated Rationale and Brief Justification for Proposed Actions	CDFW Recommendation and Brief Justification
2023-33MPA_3 Expand South Point SMR westward by 26.3 sq mi.	See stated rationale and brief justification for 2023-33MPA_1-7.	**Deny.** The proposed expansion would not meaningfully improve the design of South Point SMR or the MPA Network, or advance adaptive management recommendations from the DMR. During the Channel Islands MPA planning process, expanded boundaries to capture more kelp forest were considered at South Point SMR. However, as a deliberate outcome of the process, the western area towards Bee Rock/Cluster Point was not retained in the final design due to concerns that the additional area would significantly increase economic impacts to fisheries, particularly for lobster and urchin, which are concerns that remain relevant today. The petitioner did not provide sufficient evidence to warrant expanding South Point SMR.
2023-33MPA_4 Expand Gull Island SMR northward by 1.8 sq mi.	See stated rationale and brief justification for 2023-33MPA_1-7.	**Deny.** Gull Island SMR currently meets the criteria necessary to support MPA Network ecological objectives and contributes to Network-wide habitat replication of several key habitats, including kelp. The proposed expansion would not meaningfully improve the design of Gull Island SMR or the MPA Network, or advance adaptive management recommendations from the DMR.

Petition Action ID and Proposed Action	Petitioner's Stated Rationale and Brief Justification for Proposed Actions	CDFW Recommendation and Brief Justification
		The petition proposes to expand the MPA north to include Posa Anchorage on the southwest side of Santa Cruz Island. This area was initially included in the working draft recommendation developed by CDFW and the National Oceanic and Atmospheric Administration (NOAA) during the Channel Islands MPA planning process but was later redesigned to exclude the anchorage. This decision remains relevant today. Inclusion of this area would impose unnecessary socioeconomic impacts, particularly to the squid fishery. The petitioner did not provide sufficient evidence to warrant expanding the boundary of Gull Island SMR.
2023-33MPA_5 Expand Point Conception SMR eastward by 14.6 sq mi.	See stated rationale and brief justification for 2023-33MPA_1-7.	**Deny.** Point Conception SMR currently meets the criteria necessary to support MPA Network ecological objectives and contributes to Network-wide habitat replication of several key habitats, including kelp. The proposed expansion would add incidental benefit to the MPA Network by adding an additional replicate for nearshore hard substrate but would not improve spacing between habitats to better meet Science Guidelines or advance adaptive management recommendations from the DMR. Expanded boundaries were considered during the MLPA Initiative planning process. The boundaries ultimately implemented reflect a deliberate compromise to optimize both conservation and fishing

Petition Action ID and Proposed Action	Petitioner's Stated Rationale and Brief Justification for Proposed Actions	CDFW Recommendation and Brief Justification
		priorities. Expanding the boundaries would alter this intentional balance and introduce avoidable socioeconomic impacts, particularly to recreational fisheries and the commercial nearshore groundfish and squid fisheries. The petitioner did not provide sufficient evidence to warrant expanding the boundary of Point Conception SMR. In addition, the proposed change would compromise MPA design by changing the boundary from one that aligns with Feasibility Guidelines to one that does not, which could create unnecessary enforcement challenges.
2023-33MPA_6_AM1 Expand Natural Bridges SMR southward and eastward to the edge of Natural Bridges State Beach by ~14.5 sq mi.	See stated rationale and brief justification for 2023-33MPA_1-7.	**Deny.** Expansion of Natural Bridges SMR into deeper offshore waters is unnecessary to achieve the petitioner's stated objective of protecting kelp, which is largely confined to shallow nearshore waters (generally < 100 feet (~30 m) depth). The proposed action is also inconsistent with the original intent of this MPA, which was deliberately designed to protect intertidal and nearshore habitats while minimizing socioeconomic impacts near Santa Cruz Harbor. The petitioner did not provide sufficient evidence to warrant the expansion of Natural Bridges SMR. Lastly, the proposed change would compromise MPA design by creating a hanging corner where the offshore boundary does not fully

Petition Action ID and Proposed Action	Petitioner's Stated Rationale and Brief Justification for Proposed Actions	CDFW Recommendation and Brief Justification
		align with the 3 nm state water limit, which could introduce enforcement challenges.
2023-33MPA_7_AM1 Designate 3.2 sq mi. as a new SMCA near Pleasure Point (Santa Cruz); allow recreational take from shore by hook-and-line and spearfishing only.	See stated rationale and brief justification for 2023-33MPA_1-7.	**Deny.** Due to its small size and Moderate-low LOP, the proposed new SMCA near Pleasure Point would not contribute to Network ecological objectives, improve MPA Network design or function, or advance adaptive management recommendations from the DMR. The proposed new MPA is also not expected to fulfill the stated objective of supporting kelp resilience. A small, Low-LOP MPA at this location was previously considered during the MLPA Initiative planning process and not adopted. The petition does not provide sufficient evidence to warrant the creation of a small MPA with minimal protection at Pleasure Point. The proximity of the proposed new MPA to Santa Cruz Harbor is expected to impose substantial socioeconomic impacts. Additionally, the boundaries of the proposed MPA do not align with Feasibility Guidelines, which may create enforcement challenges.

III. BIN 2 PETITION GROUPING: IDENTIFY TRIBALLY-LED PETITIONS

The 2023 MPA Petition Companion Document (Attachment 1) includes a summary of the process for identifying Tribally-led petitions, CDFW's outreach to all California Native American tribes[1] (tribes) throughout the petitions process, and a summary of outreach and engagement with Tribally-led petitioners. Tribally-led petitions were evaluated with CDFW 2023 MPA Bin 2 Petition Evaluation Framework.

Tribal Components Questions	Answer and Explanation
Was the petition submitted by a California Native American tribe, representative designated by a tribe or tribal organization, or have a tribal co-sponsor? If yes, a. Does the proposed change explicitly aim to advance tribal co-management, subsistence harvesting, stewardship, and/or provide a tribal benefit through recognizing the cultural significance of an area? b. Is the proposed regulatory change explicitly linked to a tribe or tribes? (i.e. tribal exemption, tribal take only MPA, or new MPA for co-management).	No, the petition was not submitted by a tribe or representative designated by a tribe, nor does it have a tribal co-sponsor.

[1] California Native American tribe is the preferred term to use per the Governor's Office of Tribal Affairs when generally mentioning tribes of California, both federally and non-federally recognized.

IV. PETITION EVALUATION

EVALUATION NARRATIVE AND OVERVIEW FOR 2023-33MPA_AM

The petitioner has requested to: expand the boundaries of Cabrillo SMR, Point Dume SMCA, South Point SMR, Gull Island SMR, Point Conception SMR, and Natural Bridges SMR; establish a new 3.2 mi^2 SMCA at Pleasure Point in Santa Cruz that allows recreational take from shore by hook-and-line and spearfishing; and add a new take allowance at Point Dume SMCA (recreational take from shore by hook-and-line and spearfishing). The proposed changes are intended to enhance protections for kelp forests. The petitioner asserts that the proposed expansions and new MPA would encompass patches of kelp identified by recent analyses (Arafeh-Dalmau et al. 2021; Arafeh-Dalmau et al. 2023; Giraldo-Ospina et al. 2023) as particularly stable, resilient, and persistent, and that protection of more kelp in MPAs would "preserve what we have left, and increase our chances of restoration in the future."

While the petitioner asserts that the proposed actions align with several goals of the MLPA, CDFW's evaluation finds that the proposal:

- Is not anticipated to improve the design of the MPA Network from either an ecological or an MPA management perspective (and in some cases compromises MPA Network design),
- Does not advance adaptive management recommendations from the DMR or address a current or emerging MPA management challenge,
- Is inconsistent with the goals and original intent of the affected MPAs and the broader MPA Network,
- Should not be considered without guidance from the forthcoming KRMP,
- Is expected to introduce unnecessary costs and impacts that outweigh expected benefits, and
- Does not align with guidance outlined in the Master Plan for MPAs (CDFW 2016) for what would warrant significant changes to the MPA Network, which requires a demonstrable science-supported benefit to the MPA Network.

Kelp Management and MPAs

The petition for these regulatory changes is not anticipated to improve the MPA Network from either an ecological or a management perspective because current scientific evidence does not support the use of MPAs as a standalone targeted solution to kelp management in the absence of site-specific justification.

There are two canopy-forming kelp species in California. Giant kelp (*Macrocystis pyrifera*) is abundant south of San Francisco and bull kelp (*Nereocystis luetkeana*) is the dominant species north of Davenport, in Santa Cruz County. A number of biotic and abiotic factors influence the distribution and persistence of both species, including depth, water temperature, seascape complexity, substrate type, competition, and grazing pressure (Foster and Schiel 1985, Steneck et al. 2002, Ricart et al. 2025). The influence of anthropogenic, often climate-driven, stressors on kelp forest ecosystems has intensified in recent years, at times producing unexpected interactive effects that can restructure kelp forest ecosystems. A widely cited example is the catastrophic kelp decline along much of the coast, with particularly acute impacts to bull kelp in northern California, which has been linked to a 'perfect storm' of prolonged abnormally warm waters stemming from a marine heatwave and subsequent El Niño event in 2014-16, the effective extirpation of a key predator to disease, and the ensuing herbivore population growth that intensified grazing pressure (Harvell et al. 2019, Rogers-Bennett and Catton 2019, Eisaguirre et al. 2020). Other localized stressors, such as pollution, sedimentation, water darkening, and invasive species establishment, may also have cumulative impacts on kelp vulnerability to disturbance (Foster and Schiel 2010, Filbee-Dexter et al. 2024). These may be further mediated by the effects of historical harvest on the population dynamics and demographic structure of key kelp forest species, such as California sheephead (*Bodianus* (formerly *Semicossyphus) pulcher*) and California spiny lobster (*Panulirus interruptus*) (Lenihan et al. 2021; Ziegler et al. 2022; Kumagai et al. 2024; Ortiz-Villa et al. 2025).

These dynamics demonstrate why kelp forests are particularly challenging to study and manage. Their hysteretic nature, high spatial and temporal variability, and complex ecological structure can obscure detection of drivers and mechanisms behind large differences at various scales (Foster 1990, Hamilton et al. 2022, Ortiz-Villa et al. 2025). As a result, simply identifying patches of kelp that appear persistent does not provide evidence of the operational drivers at those sites or the management strategy most likely to be effective, and protecting more kelp is, on its own, not necessarily the most effective way to support large-scale kelp persistence or resilience.

Considering this, and in response to recent declines, a large body of research has emerged investigating the capacity of kelp forests to resist and recover from disturbance, identify the drivers connected to metrics of resilience, and explore whether MPA protection can support kelp resilience. MPAs are well documented to support higher abundance, biomass, density, diversity, and reproductive output of many organisms, including in kelp forest ecosystems (Lester et al. 2009, Hamilton et al. 2010, Edgar et al. 2014, Caselle et al. 2015, Lenihan et al. 2021, Lenihan et al. 2022). It has been theorized that these direct effects of MPA protection may translate into broader ecosystem resilience through a variety of pathways. Communities inside MPAs may be more resistant to

disturbance and better able to recover afterward due to increased functional redundancy, greater genetic and demographic diversity, improved individual condition, and enhanced community stability (Bates et al. 2019, Jacquemont et al. 2022, Eisaguirre et al. 2020, Kumagai et al. 2024, Filbee-Dexter et al. 2024, Ortiz-Villa et al. 2025). One commonly predicted mechanism is the trophic cascade, whereby recovery of predators inside MPAs suppresses herbivore populations, indirectly supporting kelp recruitment, survival, and growth (Ripple et al. 2016).

The petitioner highlights some of this research suggesting that MPAs can support kelp forest stability (Eisaguirre et al. 2020, Kawamoto and Taino 2021, House and Allen 2022, Heineke et al. 2023, Peleg et al. 2023) as justification for expanding MPAs for kelp protection. In so doing, there may be an implicit assumption that these mechanisms are broadly and reliably present across the MPA Network, and that expanding MPAs will predictably increase or maintain kelp forest stability, recovery, or persistence. However, empirical evidence for the capacity of MPAs to improve kelp resilience has been equivocal, and outcomes appear strongly dependent on species, context, and scale. Around the world, many studies demonstrate resilience benefits for kelp forest fish and invertebrate communities, as well as for kelp itself (Micheli et al. 2012, Eisaguirre et al. 2020, Peleg et al. 2023, Ziegler et al. 2023, Benedetti-Cecchi et al. 2024, Kumagai et al. 2024, Olguin-Jacobson et al. 2025, Ortiz-Villa et al. 2025). In California's MPA Network, results from the first DMR indicated that kelp canopy was more stable and resilient in MPAs, particularly in the South Coast (CDFW 2022). At the same time, other studies have found contradictory or unexpected results, including inconsistent kelp responses to protection, variable evidence for trophic cascades, examples in which MPAs did not prevent kelp forest community shifts during marine heatwaves, and evidence for other independent mechanisms or region-specific drivers of kelp resilience (Foster 1990; Lester et al. 2009; Gilby and Stevens 2014; Roberts et al. 2017; Turnbull et al. 2018; Freedman et al. 2020; Malakhoff and Miller 2021; Barrientos et al. 2022; Smith et al. 2023; Kumagai et al. 2024; Reis et al. 2024; Cavanaugh et al. 2025; Ortiz-Villa et al. 2025; Ricart et al. 2025; Shrestha et al. 2025; Thoroude et al. 2025).

Overall, MPAs do not consistently or predictably confer resilience to kelp and therefore cannot be considered a standalone kelp restoration tool without site-specific mechanistic evidence, particularly when the dominant drivers operate beyond MPA borders (Mora and Sale 2011, Gilby and Stevens 2014, Bates et al. 2019, Arkema et al. 2024, Filbee-Dexter et al. 2024, Ortiz-Villa et al. 2025). In short, the general proposition that MPAs can improve kelp is not equivalent to a site-specific prediction that MPA expansion will meaningfully improve kelp persistence or recovery. Therefore, using MPAs as a targeted site-specific management tool for protecting existing kelp canopy or regeneration potential is not currently considered an appropriate pathway.

This does not mean that MPAs lack value for kelp forests. While MPAs are not a panacea and cannot stop marine heatwaves or other large-scale effects of climate change, they remain a foundational conservation tool that can reduce local stressors, rebuild populations of key species, and support ecosystem-based management goals (Roberts et al. 2017, Lopazanski et al. 2023, Filbee-Dexter et al. 2024). They also provide a valuable platform for long-term monitoring in unmanipulated ecosystems, supporting opportunities for detecting ecosystem change, evaluating climate impacts, and distinguishing the effects of MPA protection from high natural background variability (Bates et al. 2019, Hall-Arber et al. 2021). As noted by a working group convened to support the DMR, continued comprehensive monitoring is critical to understanding the capacity of the MPA Network to resist and recover from future heatwave events (Hofmann et al. 2021). Absent direct evidence from long-term monitoring indicating that relevant mechanisms are locally present and responsive to protection, there is no scientific basis to expect that the proposed actions in this petition are the most effective tools to meaningfully improve kelp resilience or recovery.

Addressing kelp declines throughout the state is a priority. In response, CDFW, in partnership with the Ocean Protection Council, is developing a statewide, ecosystem-based, adaptive Kelp Restoration Management Plan (KRMP), which will serve as the comprehensive planning document for the sustainable management of giant and bull kelp throughout the state. The KRMP will include a cohesive kelp management strategy that consists of three core components:

1. An innovative framework for ecosystem-based management of kelp forests,
2. A harvest management framework and other Fishery Management Plan elements required by the Marine Life Management Act, and
3. A Restoration Toolkit.

The KRMP will include a robust, adaptive, climate-ready approach to managing the state's kelp forest ecosystems in the face of changing ocean conditions. The KRMP will help identify ecological priorities, site selection criteria, and management frameworks to guide future kelp management and restoration activities.

Furthermore, as resources become available, CDFW plans to develop a decision-making framework for considering restoration activities more broadly within the state's MPAs (DMR Recommendation 18), recognizing that one of the mandates of the MLPA is that MPAs act as living laboratories where research and monitoring can occur without the influence of human activities.

Ultimately, MPAs are one tool within a broader management strategy for climate adaptation and kelp recovery (Roberts et al. 2017, Jacquemont et al. 2022, Lopazanski et

al. 2023, Arkema et al. 2024, Filbee-Dexter et al. 2024). There is not sufficient evidence to support that the proposed MPA expansions would be an effective mechanism for kelp protection and restoration, particularly absent location-specific justification. In addition, expanding or designating new MPAs for kelp recovery may introduce regulatory constraints that complicate, delay, or limit restoration actions (Filbee-Dexter et al. 2024). As highlighted in DMR Recommendations 9 and 25, MPAs will continue to play a strategic role in marine conservation, but future effectiveness will likely depend on integrating climate considerations into MPA design, continuing long-term monitoring, and pairing MPAs with complementary approaches where appropriate (Hamilton et al. 2022, Arafeh-Dalmau et al. 2023, Filbee-Dexter et al. 2024, Kumagai et al. 2024). The KRMP and outcomes of DMR Recommendation 18 are needed to inform decisions about the role of MPAs in kelp restoration and management before updating the MPA regulations.

MPA-Specific Concerns

In addition to the fact that the proposed expansions and new MPA are not likely to address the petitioner's desired outcome of "protecting the natural regeneration potential of kelp forest ecosystems statewide," the following section includes additional concerns related to the specific MPAs the petition is proposing to expand or establish and the proposal to add recreational take by hook and line and spearfishing to Point Dume SMCA. Many of the proposed expansions do not improve MPA Network design and, in some cases, would conflict with and possibly undermine the original intent of the affected MPAs.

Cabrillo SMR:
The petitioner proposes expanding Cabrillo SMR to enhance kelp protection. Though not the petitioner's stated intent, the proposed expansion would enhance the design of the MPA with respect to minimum size criteria established by the Science Advisory Team (SAT) during the MLPA Initiative planning process, and, in that sense, improve MPA Network design (Table 1). However, a much larger version of Cabrillo SMR was considered during the MLPA Initiative planning process and deliberately not retained by the BRTF and CFGC. This reflects a deliberate decision to delineate Cabrillo SMR as a relatively small, nearshore MPA with a focus on protecting rocky intertidal and nearshore habitats while minimizing socioeconomic impacts (MLPA 2009a). That design continues to serve its stated ecological role of protecting species like kelp. Kelp is restricted to inhabit the shallow photic zone, as the ideal depth range for giant kelp in California is ~16-65 feet (~5-20 meters) (Foster and Schiel 1985). The petition includes a proposal to expand Cabrillo SMR into deeper waters beyond the depth that kelp can physically grow, which would not achieve the petitioner's stated conservation objective of protecting kelp. The proposed expansion would also reduce access to offshore fishing grounds, especially for the commercial lobster fleet (Fig. 1), thereby introducing unnecessary socioeconomic

impacts that were intentionally limited through the original MPA design. In addition, the U.S. Navy has expressed opposition to the Cabrillo SMR expansion since it would encroach on waters used for various military activities, another operational conflict that was considered during the MLPA Initiative planning process and avoided by the original design. The proposed change would require additional discussions with the Navy pursuant to mandates in Fish & G. Code section 2863.

Point Dume SMCA:
The petitioner proposes expanding Point Dume SMCA to enhance kelp protection and adding a take allowance for recreational shore-based hook-and-line fishing. Point Dume SMCA and neighboring Point Dume SMR act together as an MPA cluster that currently meets the criteria necessary to contribute to MPA Network ecological objectives, such as habitat replication and representation, in a key section of coastline (Table 2). Adding the proposed take allowance would lower the SMCA's LOP from High to Moderate-low. As a result, the MPA cluster at Point Dume would no longer serve its designed ecological function for habitat replication and representation in this area, thereby creating a considerable spacing gap in this stretch of coastline. This would substantially compromise the design of the MPA and weaken the MPA Network as a whole. While adding shore-based hook-and-line fishing would increase recreational access, this action would not further the petitioner's stated goal of "removing…direct human impacts." The consumptive activities currently allowed in this SMCA were deliberately chosen during the MLPA Initiative planning process to generate support from a wide range of consumptive and conservation interests while maintaining a High LOP (MLPA 2009a). The addition of a lower LOP allowance represents a significant departure from a carefully negotiated balance intentionally established by the original design.

With respect to the proposed expansion, the existing Point Dume MPA cluster already meets SAT guidelines for size, spacing, and replication of a number of key habitats. Expanding boundaries would not add any additional replicated habitats but rather compromise the design of the Point Dume MPA cluster. Extended boundaries were considered during the MLPA Initiative planning process (MLPA 2009b), and the specific configuration ultimately implemented was deliberately chosen to maximize habitat replication with minimal impacts to fisheries (MLPA 2009a). The petitioner did not provide sufficient evidence to warrant expanding or adding the take allowance to Point Dume SMCA. The proposed changes would alter an intentionally adopted design of the Point Dume MPA cluster and compromise the ecological MPA Network design and function without advancing adaptive management recommendations from the DMR.

South Point SMR:
The petitioner proposes expanding South Point SMR to enhance kelp protection. South Point SMR currently meets the criteria necessary to support MPA Network ecological

objectives and contributes to Network-wide habitat replication of several key habitats, including kelp. Habitat replication thresholds are based on protecting sufficient area to encompass 90% of the species diversity associated with a particular habitat. Because South Point SMR already meets these guidelines, the proposed expansion would not improve South Point SMR's role in the MPA Network because it would not meet any additional Network-scale design objectives beyond those already achieved. Although the proposed expansion would increase the amount of kelp protected from 3.78 to 11.96 linear miles (Table 3), the petition does not provide site-specific evidence demonstrating that protecting additional kelp area would result in measurable, biologically meaningful benefits beyond what is already provided by South Point SMR. Expansion of the western boundary, similar to the present proposed action, was explored during the Channel Islands MPA planning process and intentionally not adopted due to the excessive projected impact to multiple fisheries (CINMS 2002). The petitioner did not provide sufficient evidence to warrant expanding South Point SMR.

Furthermore, in considering and weighing decisions to amend portions of the MPA Network around the Channel Islands, it is important to note the Channel Islands MPAs were established through a joint state/federal community-based process and respective state and federal rulemaking processes with aligned MPA goals and regulations, and have been co-managed by the state, CINMS, and Channel Islands National Park. South Point SMR was expanded into federal waters by NOAA regulations cited in the Federal Register (NOAA 2007). Thus, expanding the boundaries of this MPA would result in misalignment with the boundaries in the adjoining Federal Marine Reserve. Since the implementation of this MPA, NOAA Sanctuaries has not indicated to CDFW that boundary modifications are needed to better support the goals of this MPA. Therefore, the proposed expansion of South Point SMR would alter an intentionally adopted design without improving the ecological MPA Network design or function, or advancing adaptive management recommendations from the DMR.

Gull Island SMR:
The petitioner proposes expanding Gull Island SMR to enhance kelp protection. Gull Island SMR currently meets the criteria necessary to support MPA Network ecological objectives and contributes to Network-wide habitat replication of several key habitats, including kelp. Habitat replication thresholds are based on protecting sufficient area to encompass 90% of the species diversity associated with a particular habitat. Because Gull Island SMR already meets these guidelines, the proposed expansion would not enable Gull Island SMR to meet any additional Network-scale design objectives beyond those already achieved. Although the proposed expansion of this SMR would yield an increase in the amount of kelp protected from 3.11 to 5.70 linear miles (Table 4), the petition does not provide site-specific evidence demonstrating that protecting additional kelp area would result in measurable, biologically meaningful benefits beyond

what is already provided. Expanded boundaries, as proposed here, were originally considered during the Channel Islands MPA planning process and deliberately modified to the existing shape to exclude Posa Anchorage on the northwest side of the SMR (CINMS 2002). The petitioner did not provide sufficient evidence to warrant expanding Gull Island SMR. Therefore, the proposed expansion would alter an intentionally adopted design without improving the ecological MPA Network design or function, or advancing adaptive management recommendations from the DMR.

Point Conception SMR:
The petitioner proposes expanding Point Conception SMR to enhance kelp protection. Point Conception SMR currently meets the criteria necessary to support MPA Network ecological objectives and contributes to Network-wide habitat replication of several key habitats, including kelp. Habitat replication thresholds are based on protecting sufficient area to encompass 90% of the species diversity associated with a particular habitat. Although the proposed expansion of this SMR would yield an increase in the amount of kelp protected from 2.27 to 6.47 linear miles (Table 5), the petition does not provide site-specific evidence demonstrating that protecting additional kelp area would result in measurable, biologically meaningful benefits beyond what is already provided. The expansion would enable the SMR to function as a replicate for one additional habitat (nearshore hard bottom) but would not improve the MPA Network's ability to meet spacing guidelines beyond what is currently provided. The proposed expansion would not meaningfully improve the design of Point Conception SMR or the MPA Network, or advance adaptive management recommendations from the DMR.

Throughout the three rounds of MPA array development during the MLPA Initiative planning process, a large SMR at Point Conception was consistently included in most proposals, with many proposing an eastern boundary extended beyond what was ultimately implemented (MLPA 2009b). The design of the existing shape is the result of deliberate compromise between consumptive and conservation priorities (MLPA 2009a). Therefore, the proposed expansion would alter an intentionally adopted design and likely reintroduce socioeconomic impacts that were explicitly avoided during the planning process. The proposed expansion would especially affect the commercial squid fishery (Fig. 2). The petitioner did not provide sufficient evidence to warrant expanding Point Conception SMR. Lastly, the proposed expansion would reduce alignment with Feasibility Guidelines, which could create enforcement challenges.

Natural Bridges SMR:
The petitioner proposes expanding Natural Bridges SMR to enhance kelp protection. Though not the petitioner's stated intent, the proposed expansion would enhance the design of the MPA with respect to minimum size criteria established by the SAT during the MLPA Initiative planning process, and, in that sense, strengthen MPA Network design

(Table 6). However, the expansion would be inconsistent with the original intent and objectives of the MPA. While an external group submitted a proposed array that included a much larger version of Natural Bridges SMR, this proposal was deliberately not retained by the BRTF and CFGC. This reflects a deliberate decision to delineate Natural Bridges SMR as a relatively small, nearshore MPA with a focus on protecting rocky intertidal and other nearshore habitats while minimizing impacts to consumptive activities near Santa Cruz Harbor. That design continues to serve its stated ecological role of protecting species like kelp, which is restricted to the shallow photic zone (the ideal depth range for giant kelp in California is ~16-65 feet (5-20 meters; Foster and Schiel 1985). Expansion into deeper waters beyond the depths that kelp can physically grow as proposed in the petition would not achieve the petitioner's stated conservation objective of protecting kelp. The proposed expansion would also reduce access to offshore fishing grounds, thereby reintroducing socioeconomic impacts that were intentionally limited through the original design. Lastly, the proposed expansion would reduce alignment with Feasibility Guidelines, which could create enforcement challenges. The petitioner did not provide sufficient evidence to warrant expanding Natural Bridges SMR. The proposed expansion would not meaningfully improve the design of Natural Bridges SMR or the MPA Network, or advance adaptive management recommendations from the DMR.

Establish a New MPA: Pleasure Point SMCA:
The petitioner proposes creating Pleasure Point SMCA to enhance kelp protection. The proposed new MPA would be 3.1 square miles with a Moderate-low LOP which would not meet the minimum Science Guidelines for MPA size (≥9 square miles) or LOP (Table 7). Given this, the proposed design would not be expected to offer robust localized protection and is thus unlikely to deliver the ecological benefits anticipated by the petitioner. More broadly, the design is incompatible with contributing to MPA Network-scale ecological or conservation goals. A small MPA in this location was considered during the MLPA Initiative planning process (MLPA 2006) for the purpose of protecting large surfgrass beds and associated invertebrates, but was rejected, likely due to the lack of meaningful ecological benefits offered by its proposed small size and Low LOP. The petitioner did not provide sufficient evidence to warrant the creation of a small MPA with minimal protection at Pleasure Point. Additionally, the proposed new MPA's proximity to Santa Cruz Harbor and valuable fishing areas is likely to adversely impact consumptive users without adding demonstrable value to the overall MPA Network. The proposed new MPA would not meaningfully contribute to the MPA Network or advance adaptive management recommendations from the DMR.

Other Network-wide Considerations

During the MLPA Initiative planning process, socioeconomic analyses were available to inform MPA array design proposals (i.e., static economic impact analyses based on

participatory surveys, dynamic bioeconomic modeling based on larval connectivity and associated fishery participant behavior). The petitioner asserts that short-term socioeconomic impacts to recreational and commercial fisheries would be offset by future benefits to fisheries. However, socioeconomic data were not included in the petition, and CDFW was unable to develop the location-specific socioeconomic analyses or broader statewide fishery impacts needed to substantiate the claim. CDFW does not recommend considering these significant MPA expansions or new MPAs until this critical information gap is filled.

The proposed actions would also introduce additional regulatory and implementation complexity and cost that is not commensurate with the expected benefits. For example, several MPAs overlap with federally managed areas, including National Marine Sanctuaries, which would necessitate coordination with federal partners. Additionally, in the Northern Channel Islands, state MPAs with corresponding offshore federal marine reserves, such as South Point and Gull Islands SMRs, may require a corresponding expansion in federal waters to maintain alignment. Similarly, the state's existing MPAs are State Water Quality Protection Areas (SWQPAs), designated by the State Water Board pursuant to the California Ocean Plan (State Water Board 2019). It is unclear how the Implementation Provisions for Marine Managed Areas in the California Ocean Plan would interact with the proposed MPA expansions. However, if the State Water Board identifies the expanded areas as part of the SWQPAs, the regional water boards would need to update permits associated with point source (e.g., wastewater treatment plants) and non-point source (e.g., stormwater runoff) discharges into these Marine Managed Areas. The regional water boards' workload associated with updating permits and cost of compliance associated with new permit requirements for permittees is unknown.

The DMR did not identify the need for significant structural changes to the MPA Network. Ecological responses to protection in California's marine ecosystems are expected to require long timeframes to become detectable, and the MPA Network remains relatively young (Hall-Arber et al. 2021). Data and information evaluated in the first DMR indicate that the Network as designed is meeting expectations and functioning effectively in meeting MLPA Goals (CDFW 2022). The DMR highlighted that more time, data, and information is needed to truly assess vulnerabilities in the MPA Network and that it is expected that ecosystem resilience will continue to strengthen as ecological benefits from MPA protection continue to build over time (CDFW 2022).

Without demonstrated performance flaws or science-supported needs, significant design changes are not justified. Part of MPA adaptive management includes a "learning-by-doing" approach where long-term scientific monitoring results are expertly evaluated through periodic review and regulations adjusted, if needed. Approving a proposal of this magnitude without scientific justification or demonstrable benefit sets a

precedent that risks undermining the ecological value and scientific integrity of the MPA Network and the mandates of the MLPA.

MPA Network stability also provides important benefits, and maintaining a high threshold for change is necessary to protect the integrity and effectiveness of the MPA Network. Frequent or inadequately justified changes to the MPA Network can undermine public understanding and support, complicate enforcement, disrupt long-term monitoring and research designs, and impose costs across each of the management pillars. Each change to the MPA Network, even a minor one, carries implementation costs. Based on the available information, there is no indication that expanding these six existing MPAs or establishing a new SMCA would deliver meaningful ecological or management value to the Network, and in some cases, would compromise the design and enforceability of the existing MPA Network.

CDFW is committed to proactive adaptive management of the MPA Network. However, any structural changes must be grounded in demonstrated need, sound science, and an inclusive statewide process consistent with the MLPA's mandates and intent. The proposed actions do not meet these standards. Given this, and the lack of direct evidence linking specific drivers of kelp decline or recovery to specific areas, expanding or designating new MPAs in the proposed locations to protect kelp or potential kelp habitat is not recommended at this time. A more effective and adaptive approach to protecting California's iconic kelp forests lies in advancing ecosystem-based management and restoration efforts through the forthcoming KRMP, which will provide a transparent and adaptive framework to address kelp declines directly while incorporating emerging science and balancing ecological, socioeconomic, and cultural considerations.

RECOMMENDATION FOR 2023-33MPA_AM

Given these considerations, and the information in the evaluation below, **CDFW recommends CFGC DENY the proposed actions**:

- **2023-33MPA_1_AM1,** Expand Cabrillo SMR westward and northward by ~9.99 square miles,
- **2023-33MPA_2_AM1,** Expand Point Dume SMCA westward by 4.6 square miles and add allowance for recreational take from shore by hook-and-line and by spearfishing,
- **2023-33MPA_3,** Expand South Point SMR westward by 26.3 square miles,
- **2023-33MPA_4,** Expand Gull Island SMR northward by 1.8 square miles,
- **2023-33MPA_5,** Expand Point Conception SMR eastward by 14.6 square miles,
- **2023-33MPA_6_AM1,** Expand Natural Bridges SMR southward and eastward by ~14.5 square miles, and

- **2023-33MPA_7_AM1**: Designate 3.2 square miles as a new SMCA near Pleasure Point in Santa Cruz; allow recreational take from shore by hook-and-line and by spearfishing.

EVALUATION QUESTIONS

2023-33MPA_1_AM1: Expand Cabrillo SMR westward (to 3 nm state line) and northward (to New Hope Rock) by 9.99 sq mi.

QUESTION 1: DOES THE PROPOSED CHANGE SUPPORT THE MPA NETWORK IN MEETING ONE OR MORE OF THE MLPA GOALS AND ALIGN WITH MPA MASTER PLAN ADAPTIVE MANAGEMENT OBJECTIVES?

No. The MLPA Goals and Master Plan objectives are inextricably linked and act as the foundational tools that CDFW utilizes for effective adaptive management of the MPA Network. Individual MPAs in the Network were not necessarily designed to address all six Goals of the MLPA but instead act as an important component of a functioning Network that was designed to holistically address the MLPA Goals as a whole. As such, CDFW has evaluated this action within the broader adaptive management framework and how the proposed action may or may not align with the MLPA Goals/Master Plan objectives and advance MPA Network management. See Question 1 of Attachment 1 for the MLPA Goals and Master Plan objectives.

The petitioner asserts that the proposed MPA would align with Goals 1-4, which address preserving natural diversity and marine natural heritage, protecting marine populations and habitats, improving recreational opportunities, and protecting representative habitats for their intrinsic value. However, within the broader adaptive management framework for the statewide MPA Network, it is not evident that expanding Cabrillo SMR would advance Network-level management.

During the MLPA Initiative planning process, Cabrillo SMR was deliberately designed to contribute to multiple objectives within MLPA Goals 1, 3, 4, 5, and 6. Although the proposed expansion of Cabrillo SMR may appear to enhance existing ecological protections consistent with Goals 1, 2, and 4, there is not sufficient information to support that this proposed action would align with the petitioner's stated purpose, which is to protect persistent kelp patches and enhance the state's restoration potential for other kelp forests in decline. Extending the MPA boundary offshore to the 3 nm state boundary would unnecessarily include deeper habitat beyond where kelp can grow, as kelp only grows within the shallow photic zone. Available observations from the area around Cabrillo SMR indicate kelp does not occur within the proposed offshore expansion beyond approximately the 30-m (~98.5 ft) depth contour, located less than 1.5 miles (1.3

nm) from shore. As a result, the proposed expansion is not well aligned with its stated conservation purpose (MLPA 2009a).

Furthermore, potential ecological gains must be weighed against other MLPA Goals. The MPA Network was intentionally designed to balance conservation benefits with the needs of coastal communities and diverse ocean users, including fisheries (Goal 3). During the planning process, the site-specific rationale (Goal 5) resulted in Cabrillo SMR boundaries deliberately drawn to protect rocky intertidal and nearshore habitats, including kelp forests, while minimizing impacts on productive nearby and offshore fishing grounds. Based on fishery activity around the Cabrillo SMR since implementation, those same potential impacts remain relevant today (see response to Question 15 on impacts to consumptive users). These tradeoffs were a core component of the science-based, stakeholder-driven process that established, and continues to guide, management of California's MPA Network (Goal 6). Advancing major MPA boundary changes through isolated petitions is inconsistent with that approach.

Therefore, while the petitioner asserts alignment with MLPA Goals, the proposed expansion would not clearly advance MPA management or performance objectives, and in some cases, may even undermine them.

QUESTION 2A: DOES THE PROPOSED CHANGE ADVANCE ADAPTIVE MANAGEMENT RECOMMENDATIONS IN THE DECADAL MANAGEMENT REVIEW?

No. The proposed change does not advance adaptive management recommendations from the DMR (CDFW 2022). See Question 2a of Attachment 1 for the DMR and DMR Recommendations.

QUESTION 2B: IF NOT, DOES THE PROPOSED CHANGE ADDRESS A CURRENT OR EMERGING MPA MANAGEMENT CHALLENGE?

No. The petitioner cites climate-related declines in kelp forests as justification for expanding the SMR, suggesting that increasing the amount of protected kelp habitat and removing direct human impacts would help conserve remaining kelp canopy and improve restoration potential. While kelp forests are highly valuable and their region-wide decline since 2014 is a significant management concern, it is not clear that this issue represents an MPA-specific management challenge, nor one best addressed by expanding MPA boundaries, particularly without evidence of place-based mechanisms or drivers linked to kelp persistence within the petitioner's stated MPAs or proposed new MPA.

Although climate change was not explicitly incorporated into the original MLPA Initiative planning process, the ecological principles underlying Network design, such as larval connectivity and habitat replication, support both ecological and

climate resilience. Indeed, MPAs in California have been shown to support larger, older, and more abundant marine populations that are more resilient to disturbances (CDFW 2022). Still, the extent to which these ecological benefits translate into improved resistance or adaptation to climate-driven impacts on kelp remains uncertain, and the magnitude of any such benefit is likely highly spatiotemporally variable. More research is needed to determine the factors that contribute to kelp forest resilience in the context of climate change and how best to mitigate impacts. If warming ocean temperatures are the primary driver of kelp decline in California, expanding MPA boundaries alone is unlikely to provide significant benefits.

Given these uncertainties, pursuing a substantial boundary expansion without stronger scientific basis and a coordinated management strategy would be premature. Currently, the proposed northward and westward expansion of Cabrillo SMR does not clearly address a demonstrated MPA management challenge, nor is it evident that expanding the SMR is the appropriate tool for addressing broader kelp management concerns in California. The forthcoming KRMP will provide the comprehensive strategy to guide future kelp management decisions statewide.

QUESTION 3: DOES THE PROPOSED CHANGE HAVE THE POTENTIAL TO AFFECT EXISTING CFGC NON-MPA REGULATIONS, PERMITS, OR LEASES (E.G., KELP LEASES, AQUACULTURE LEASES, EXPERIMENTAL FISHING PERMITS)?

Yes. The proposed expansion overlaps with Administrative Kelp Bed 2 (open) and Bed 3 (leasable). Open kelp beds are available to commercial kelp harvest and leases cannot be issued. Commercial kelp can be harvested within leasable kelp beds until a lease is obtained for the bed, at which time the bed can only be harvested by the lease holder. Commercial kelp harvest was last reported in Bed 2 in 2022 and in Bed 3 in 2012.

The proposed change also has the potential to impact two existing Experimental Fishing Permits (EFPs): EFPT3-001 (swordfish/tuna) and EFPT4-001 (box crab/king crab).

QUESTION 4: DOES THE PROPOSED CHANGE HAVE THE POTENTIAL TO AFFECT EXISTING REGULATIONS, PERMITS, LEASES, OR MANAGEMENT ACTIVITIES OF ANY OTHER AGENCY OR ENTITY?

Yes. The proposed expansion would extend into waters off Point Loma where the U.S. Navy conducts training, testing, research, and development activities for military readiness related to national defense. The Department of the Navy has previously stated their opposition to the proposed change, citing concerns that the expansion would create operational constraints to military readiness. The proposed change would require

additional discussions with the Navy pursuant to mandates in Fish & G. Code section 2863. The MPA is adjacent to the Cabrillo National Monument, which is federally administered by the National Park Service. Implementation of the proposed change would require consultation and coordination with federal authorities and may interact with their management activities.

The proposed SMR expansion has the potential to interact with the regulations and permitting activities of the Water Boards related to point source (e.g., wastewater treatment facilities) and non-point source discharges (e.g., stormwater runoff) into Marine Managed Areas. The State Water Board can designate SWQPAs to prevent the undesirable alteration of natural water quality within MPAs. The State Water Board's Water Quality Control Plan for Ocean Waters of California (California Ocean Plan) was amended in 2012 to include the process for designating SWQPAs and Implementation Provisions for Marine Managed Areas (Chapter III.E., State Water Board 2019). This was done with the intention to align these SWQPAs with the MPA Network. The provisions are implemented by the regional water boards, including through Waste Discharge requirements, National Pollutant Discharge Elimination System Permits, and municipal separate storm sewer system permits. If the State Water Board designates the expanded area as part of the existing SWQPAs, this would have implications on the Water Boards' workload and for permittees that would need to come into compliance with new permit requirements. The scope and magnitude of the Water Boards' workload and the cost of compliance for permittees is unknown.

The City of San Diego's Point Loma Wastewater Treatment Plant operates just north of Cabrillo SMR's existing northern boundary. The facility's outfall pipe extends 4.5 miles (3.9 nm) offshore from the treatment plant and the terminal point would be outside of the proposed expanded SMR. However, the proposed expansion may affect the permitting and management activities of the Water Boards.

This list may not be exhaustive. The proposed change may have the potential to affect existing regulations, permits, leases, or management activities of Tribal governments, other agencies, and entities not identified here.

QUESTION 5: ARE THERE SIGNIFICANT INFORMATION GAPS THAT NEED TO BE FILLED TO INFORM THE EVALUATION OF THE PROPOSED CHANGE?

Yes. When evaluating this petition, CDFW reviewed the information in the petition, as well as information including, but not limited to:

- MLPA Planning documents and related information (e.g., MLPA Goals and MPA Master Plan adaptive management objectives),
- Existing science pertaining to kelp recovery in MPAs,

- Long-term monitoring data related to kelp in MPAs,
- Satellite (1984-2023; Bell et al. 2025) and flyover (2002-06; 2008-10; 2013-16; CDFW 2024) mapping of statewide kelp canopy coverage, and
- Commercial and recreational fishing data.

CDFW has identified information gaps that limit the ability to fully evaluate the proposed change. Key information gaps include:

- Direct evidence of a place-based need linking kelp declines to specific driver(s) at this location,
- Consideration of socioeconomic and tribal interests and how these will be factored into the decision-making process with respect to kelp management at this location, and
- A statewide assessment of kelp restoration and recovery tools developed through the KRMP.

While important management concerns related to kelp recovery and restoration are raised in the petition, the petitioner did not present sufficient information to justify the proposed change as the appropriate solution.

Long-term MPA monitoring data indicate we have early, though inconsistent, evidence that MPAs may enhance resilience to climate change and other disturbances for ecosystems within their borders. Continued, consistent monitoring is necessary to determine which factors are most influential in supporting kelp recovery and resilience and how these factors vary regionally.

QUESTION 6: ARE THERE SIGNIFICANT MANAGEMENT GAPS THAT NEED TO BE FILLED TO INFORM THE EVALUATION OF THE PROPOSED CHANGE?

Yes. The forthcoming KRMP is the crucial management framework to have in place before considering MPA regulatory changes aimed at protecting kelp.

QUESTION 7A: WAS THE PROPOSED CHANGE CONSIDERED DURING THE MLPA INITIATIVE PLANNING PROCESS OR THE IMPLEMENTATION PROCESS OF MPAS AROUND THE NORTHERN CHANNEL ISLANDS?

Yes. Expanded boundaries for Cabrillo SMR were suggested by an external proposal in the first of three rounds of MPA array development during the MLPA Initiative planning process (MLPA 2009b) but not retained in subsequent rounds of proposals (MLPA 2009a).

QUESTION 7B: IS THERE NEW INFORMATION AVAILABLE, CHANGING CONDITIONS SINCE THE MLPA IMPLEMENTATION PHASE, AND/OR INFORMATION PRESENTED IN THE DMR THAT WARRANTS REEVALUATION OF THE PROPOSED CHANGE?

No. The petitioner cites new analyses identifying California kelp beds that may be more resilient to disturbance, as well as recent scientific literature investigating the effects of MPA protection on kelp forests. Additionally, several recent studies highlight enhanced kelp resilience within MPAs in the South Coast in particular. However, a broad view of the best available science does not indicate consistent or reliable benefits to kelp resulting from MPA protection. As a result, there is not sufficient evidence to support the proposed change as an effective solution. Without direct, location-specific links between drivers and kelp persistence or decline, expanding a few select MPAs for kelp recovery or to enhance resilience is unlikely to have a biologically meaningful impact on kelp and might unnecessarily restrict more effective restoration activities in the process.

Local drivers of kelp persistence and resilience need to be identified first, and management actions must be tailored to address those drivers. Therefore, pursuing this change ahead of additional long-term data collection and the KRMP, which will provide the essential management framework to guide future kelp management decisions, would be premature.

Therefore, while large-scale kelp declines and the occurrence of climate change-related disturbances do indicate changing conditions since the implementation phase, the petitioner did not provide sufficient evidence to warrant expanding Cabrillo SMR.

QUESTION 8: IF THE PROPOSED CHANGE AFFECTS AN EXISTING MPA, DOES THE PROPOSED CHANGE ALIGN WITH THE ORIGINAL INTENT OF THE MPA IDENTIFIED DURING THE MLPA INITIATIVE PLANNING PROCESS OR THE IMPLEMENTATION PROCESS OF MPAS AROUND THE NORTHERN CHANNEL ISLANDS?

Yes and no. The original intent of the MPA was to protect nearshore ecosystems. The MPA was intentionally not extended to the 3 nm limit of state waters to avoid negative socioeconomic impacts. Therefore, the proposed alongshore extension of this MPA is in line with the original intent, while the offshore extension is not.

QUESTION 9: DOES THE PROPOSED CHANGE IMPROVE INDIVIDUAL MPA OR MPA NETWORK DESIGN SO THAT IT BETTER ALIGNS WITH OR MEETS THE MPA SCIENCE GUIDELINES?

Yes. The MLPA requires that the design of individual MPAs and the statewide Network be based on the best readily available science and that MPAs be of adequate size, number, protection level, and location to meet MLPA Goals. The science guidelines developed by

the Science Advisory Team and outlined in the Master Plan were created specifically to provide this scientific foundation and serve as the starting point for evaluating alternative MPA proposals. Alignment with these guidelines depends on LOP, which is determined by allowed take, and spatial configuration. More specifically, these guidelines require that an MPA must be at least 9 square miles and meet one of the three highest LOPs (i.e., Very High, High, or Moderate-high) to contribute to ecological goals such as habitat replication and representation.

Cabrillo SMR is 0.39 square miles with a Very High LOP and therefore meets the LOP, but not the size guideline (Table 1). Expanding the SMR as proposed would increase its area above the size threshold, allowing it to meet both criteria. The expanded MPA would be large enough to contribute to replication and representation of kelp, beach, rocky intertidal, hard bottom (0-30 m depth zone), and soft bottom (30-100 m depth zone) habitats. While each of these habitats is already sufficiently represented in the Network, their spacing is not always optimal. Therefore, increasing the SMR's area would strengthen its contribution to foundational Network ecological goals such as habitat spacing. In this respect, implementation of the proposed change would improve the design of the individual MPA and the MPA Network and enhance alignment with Science Guidelines. See Question 9 of Attachment 1 for the MLPA Science Guidelines and additional context.

QUESTION 10A: DOES THE PROPOSED CHANGE ALIGN WITH CDFW FEASIBILITY GUIDELINES?

No. The proposed change would not align with the following Feasibility Guidelines: boundaries are not described using readily determined lines of latitude and longitude, and it is unclear if the landmarks suggested by the petitioner to identify the proposed boundaries are easily recognizable for both shore- and boat-based users. See Question 10a of Attachment 1 for CDFW Feasibility Guidelines.

> ### **QUESTION 10B:** IF NOT, IS THERE A RATIONALE FOR MOVING FORWARD WITH THE PROPOSED CHANGE OR AN ALTERNATIVE THAT COULD MEET THE INTENT BUT BETTER ALIGN WITH FEASIBILITY GUIDELINES?
>
> **No**. There is no rationale for moving forward with the proposed change or an alternative that better aligns with the Feasibility Guidelines.

QUESTION 11: DOES THE PROPOSED CHANGE MAINTAIN OR IMPROVE ENFORCEABILITY OF MPA REGULATIONS?

No. The proposed northern boundary is not aligned with readily determinable lines of latitude and longitude. Additionally, it is unclear if the petitioner's suggested landmark to

identify the proposed boundary is easily recognizable for both shore- and boat-based users. This could complicate enforcement of the MPA.

QUESTION 12: DOES THE PROPOSED CHANGE SIMPLIFY REGULATORY LANGUAGE OR ENHANCE PUBLIC UNDERSTANDING WITHOUT CHANGING THE INTENT OF THE MPA?

No. The proposed change does not simplify regulatory language.

QUESTION 13: DOES THE PROPOSED CHANGE MAINTAIN OR ENHANCE PROTECTION OF MARINE RESOURCES?

Yes. The proposed change would maintain or enhance protection of marine resources by significantly increasing the area of several habitats protected within the MPA, including kelp forests, in sufficient amounts to contribute towards habitat replication. However, it is uncertain whether this would produce the kelp resiliency benefits anticipated by the petitioner. While MPAs may indirectly support kelp, they are not considered the best available management tool at this time, especially when the drivers behind the current decline are systemic rather than location specific. Considering this, insufficient evidence has been provided to justify the expansion of this MPA for the purpose of supporting kelp persistence or recovery.

QUESTION 14: DOES THE PROPOSED CHANGE PROVIDE MORE EQUITABLE ACCESS OPPORTUNITIES (E.G., FISHING, EDUCATIONAL, AND/OR OTHER RECREATIONAL OPPORTUNITIES) FOR TRADITIONALLY UNDERSERVED OR MARGINALIZED COMMUNITIES?

See Question 14 of Attachment 1.

QUESTION 15: DOES THE PROPOSED CHANGE HAVE THE POTENTIAL TO AFFECT CONSUMPTIVE AND/OR NON-CONSUMPTIVE ACTIVITIES? IF SO, HOW?

Yes. The proposed change has the potential to affect both consumptive and non-consumptive activities.

The proposed boundary expansion would make several coastal access points and the Mission Bay Harbor closer to the boundaries of the MPA. Users who rely on these access points for consumptive activities would be displaced, and both recreational and commercial consumptive activities would likely experience adverse impacts. Most of the proposed expansion lies within a broadly high-value commercial fishing block. Specifically, this block has the highest lobster landings by value in San Diego County (Fig. 1). Significant impacts are expected for the commercial urchin and lobster fisheries, with additional negative effects likely for commercial highly migratory species fisheries and the commercial passenger fishing vessel (CPFV) fleet operating in the area, especially

those conducting half-day trips. Extending the SMR past the rockfish conservation area 100-fathom line could also affect commercial nearshore groundfish fishing.

As stated above (see Question 7), this area was considered for inclusion in the MPA Network during the planning process but was ultimately excluded due to its high importance to commercial and recreational fisheries. Those same considerations remain relevant and indicate that the proposed change would have substantial effects on existing consumptive uses of the area.

Expanding this already well-visited MPA may have beneficial impacts on non-consumptive activities. The increased proximity to multiple access points would allow continued (and potentially more convenient) access for non-consumptive activities. Regarding research and study opportunities, there are kelp and intertidal long-term monitoring sites within the proposed expanded boundaries, which may disrupt existing experimental designs.

QUESTION 16: IS THE PROPOSED CHANGE CONSISTENT WITH CFGC JUSTICE, EQUITY, DIVERSITY AND INCLUSION POLICY?

See Question 16 of Attachment 1.

QUESTION 17: IS THE PROPOSED CHANGE CONSISTENT WITH CFGC COASTAL FISHING COMMUNITIES POLICY?

The following analysis was prepared by CFGC staff. See Question 17 of Attachment 1 for additional context on CFGC's response.

The proposed change would reduce access to local fishing grounds and add more regulatory burdens, particularly for small boat commercial fishery participants or CPFVs homeported in the coastal fishing community of San Diego (~6 nm away from area of proposed change).

QUESTION 18: DOES THE PROPOSED CHANGE INTERACT WITH OR HAVE THE POTENTIAL TO AFFECT PROPOSED CHANGES IN OTHER 2023 MPA PETITIONS?

No. There are no potential interactions or effects on any of the other 2023 MPA petitions.

2023-33MPA_2_AM1: Expand Point Dume SMCA westward by 4.6 sq mi and add allowance for recreational take from shore by hook-and-line and by spearfishing.

QUESTION 1: DOES THE PROPOSED CHANGE SUPPORT THE MPA NETWORK IN MEETING ONE OR MORE OF THE MLPA GOALS AND ALIGN WITH MPA MASTER PLAN ADAPTIVE MANAGEMENT OBJECTIVES?

No. The MLPA Goals and Master Plan objectives are inextricably linked and act as the foundational tools that CDFW utilizes for effective adaptive management of the MPA Network. Individual MPAs in the Network were not necessarily designed to address all six Goals of the MLPA but instead act as an important component of a functioning Network that was designed to holistically address the MLPA Goals as a whole. As such, CDFW has evaluated this action within the broader adaptive management framework and how the proposed action may or may not align with the MLPA Goals/Master Plan objectives and advance MPA Network management. See Question 1 of Attachment 1 for the MLPA Goals and Master Plan objectives.

The petitioner asserts that the proposed MPA would align with Goals 1-4, which address preserving natural diversity and marine natural heritage, protecting marine populations and habitats, improving recreational opportunities, and protecting representative habitats for their intrinsic value. However, within the broader adaptive management framework for the statewide MPA Network, it is not evident that modifying Point Dume SMCA, which was deliberately developed during the MLPA Initiative planning process to contribute to all six MLPA Goals, would advance Network-level management.

Point Dume SMCA was specifically designed to protect marine life populations and habitats (Goals 1-2). Monitoring results pooled across habitats from 2019-2020 show a significant positive MPA effect on fish biomass in the southern bioregion, indicating that MPAs are performing as hoped (Smith et al. 2025).

Point Dume SMCA also contributes to habitat replication goals developed during the planning process (Goal 4). Together with the adjacent Point Dume SMR, the SMCA protects multiple key habitats, including kelp, which is the overarching purpose of the petition. If the proposed expansion were implemented, it would not add sufficient area of any key habitats to meet additional replication goals. Furthermore, because the replication threshold is based on protecting sufficient area to encompass 90% of the species diversity associated with each habitat, it is unclear what meaningful ecological benefit would be achieved by adding marginal area beyond what already meets established guidelines, especially while reducing the LOP with the proposed take allowance.

Remarkably, Point Dume SMCA contributes to these ecological goals and simultaneously supports recreational and study opportunities (Goal 3), minimizes negative socioeconomic impacts while enhancing positive ones for all users (Goal 5), and reflects the rigorous, science-based, stakeholder-driven planning process that underpins the statewide Network (Goal 6). This deliberate balance signifies the carefully considered tradeoffs made during the MLPA Initiative planning process.

The petitioner's proposal would compromise this balance. Allowing additional take would lower the SMCA's LOP to Moderate-low, which is incompatible with achieving Goals 1 and 2. Expanding boundaries without strong scientific justification does not advance Goal 4, and introduces new conflicts with Goals 3, 5, and 6 by discounting original planning process decisions, imposing socioeconomic impacts without clear ecological benefit, and relying on inconclusive evidence that additional protected area will deliver the kelp-related benefits anticipated by the petitioner.

Therefore, while the petitioner asserts alignment with MLPA Goals, the proposed expansion and added take allowance would not clearly advance MPA management or performance objectives, and in some cases, may even undermine them.

QUESTION 2A: DOES THE PROPOSED CHANGE ADVANCE ADAPTIVE MANAGEMENT RECOMMENDATIONS IN THE DECADAL MANAGEMENT REVIEW?

No. The proposed change does not advance adaptive management recommendations from the DMR (CDFW 2022). See Question 2a of Attachment 1 for the DMR and DMR Recommendations.

QUESTION 2B: IF NOT, DOES THE PROPOSED CHANGE ADDRESS A CURRENT OR EMERGING MPA MANAGEMENT CHALLENGE?

No. The petitioner cites climate-related declines in kelp forests as justification for expanding the SMCA, suggesting that increasing the amount of protected kelp habitat and removing direct human impacts would help conserve remaining kelp canopy and improve restoration potential. While kelp forests are highly valuable and their decline since MPA implementation is a significant management concern, it is not clear that this issue represents an MPA-specific management challenge, nor one best addressed by expanding MPA boundaries, particularly without evidence of place-based mechanisms or drivers linked to kelp persistence.

Although climate change was not explicitly incorporated into the original MLPA Initiative planning process, the ecological principles underlying Network design, such as larval connectivity and habitat replication, support both ecological and climate resilience. Indeed, MPAs in California have been shown to support larger,

older, and more abundant marine populations that are more resilient to disturbances (CDFW 2022). Still, the extent to which these ecological benefits translate into improved resistance or adaptation to climate-driven impacts on kelp remains uncertain, and the magnitude of any such benefit is likely highly spatiotemporally variable. More research is needed to determine the factors that contribute to kelp forest resilience in the context of climate change and how best to mitigate impacts. If warming ocean temperatures are the primary driver of kelp decline in California, expanding MPA boundaries alone is unlikely to provide significant benefits.

Given these uncertainties, pursuing a substantial boundary expansion without stronger scientific basis and a coordinated management strategy would be premature. Currently, the proposed westward expansion and additional take allowance for Point Dume SMCA do not clearly address a demonstrated MPA management challenge, nor is it evident that expanding the SMCA is the appropriate tool for addressing broader kelp management concerns in California. The forthcoming KRMP will provide the comprehensive strategy to guide future kelp management decisions statewide.

QUESTION 3: DOES THE PROPOSED CHANGE HAVE THE POTENTIAL TO AFFECT EXISTING CFGC NON-MPA REGULATIONS, PERMITS, OR LEASES (E.G., KELP LEASES, AQUACULTURE LEASES, EXPERIMENTAL FISHING PERMITS)?

Yes. The proposed MPA overlaps with Administrative Kelp Bed 17, which is leasable. Commercial kelp can be harvested within leasable kelp beds until a lease is obtained for the bed, at which time the bed can only be harvested by the lease holder. Commercial kelp harvest was last reported in this bed in 2015.

The proposed change also has the potential to impact two existing EFPs: EFPT3-001 (swordfish/tuna) and EFPT4-001 (box crab/king crab), particularly the former. Point Dume is listed as one of five authorized fishing areas in the EFP terms and conditions for EFPT3-001 (swordfish/tuna) and the expansion would eliminate roughly 75% of the EFP's fishable area around Point Dume.

QUESTION 4: DOES THE PROPOSED CHANGE HAVE THE POTENTIAL TO AFFECT EXISTING REGULATIONS, PERMITS, LEASES, OR MANAGEMENT ACTIVITIES OF ANY OTHER AGENCY OR ENTITY?

Yes. The proposed change expands an existing overlap with an Area of Special Biological Significance (ASBS). It is unclear whether the proposed change would affect the management activities of the State or Regional Water Quality Control Boards

The MPA is adjacent to Robert H. Meyer State Beach. Implementation of the proposed expansion may interact with the management activities of the Department of Parks and Recreation and would require coordination on enforcement, updates to signage, and outreach efforts.

This list may not be exhaustive. The proposed change may have the potential to affect existing regulations, permits, leases, or management activities of Tribal governments, other agencies, and entities not identified here.

QUESTION 5: ARE THERE SIGNIFICANT INFORMATION GAPS THAT NEED TO BE FILLED TO INFORM THE EVALUATION OF THE PROPOSED CHANGE?

Yes. When evaluating this petition, CDFW reviewed the information in the petition, as well as information including, but not limited to:

- MLPA Planning documents and related information (e.g., MLPA Goals and MPA Master Plan adaptive management objectives),
- Existing science pertaining to kelp recovery in MPAs,
- Long-term monitoring data related to kelp in MPAs,
- Satellite (1984-2023; Bell et al. 2025) and flyover (2002-06; 2008-10; 2013-16; CDFW 2024) mapping of statewide kelp canopy coverage, and
- Commercial and recreational fishing data.

CDFW has identified information gaps that limit the ability to fully evaluate the proposed change. Key information gaps include:

- Direct evidence of a place-based need linking kelp declines to specific driver(s) at this location,
- Consideration of socioeconomic and tribal interests and how these will be factored into the decision-making process with respect to kelp management at this location, and
- A statewide assessment of kelp restoration and recovery tools developed through the KRMP.

While important management concerns related to kelp recovery and restoration are raised in the petition, the petitioner did not present sufficient information to justify the proposed change as the appropriate solution.

Long-term MPA monitoring data indicate we have early, though inconsistent, evidence that MPAs may enhance resilience to climate change and other disturbances for ecosystems within their borders. Continued, consistent monitoring is necessary to determine which factors are most influential in supporting kelp recovery and resilience and how these factors vary regionally.

QUESTION 6: ARE THERE SIGNIFICANT MANAGEMENT GAPS THAT NEED TO BE FILLED TO INFORM THE EVALUATION OF THE PROPOSED CHANGE?

Yes. The forthcoming KRMP is the crucial management framework to have in place before considering MPA regulatory changes aimed at protecting kelp.

QUESTION 7A: WAS THE PROPOSED CHANGE CONSIDERED DURING THE MLPA INITIATIVE PLANNING PROCESS OR THE IMPLEMENTATION PROCESS OF MPAS AROUND THE NORTHERN CHANNEL ISLANDS?

Yes. A slightly expanded western boundary (118° 53.500′ W) was considered in proposals 2 and 3 in the third and final round of MPA array development in the South Coast Planning Region (MLPA 2009b). The boundary included in Proposal 1 (118° 53.000′ W) was ultimately adopted.

Recreational shorefishing for unspecified species was not considered. All three Round 3 proposals allowed take of pelagic finfish, Pacific bonito, and white seabass by spearfishing, which was ultimately adopted in the regulations. Proposals 2 and 3 also proposed to allow take of coastal pelagic finfish and market squid by dip net, and Proposal 3 also included an allowance for the take of jumbo squid by hook-and-line (MLPA 2009b). These take regulations were deliberately developed to allow some fishing activities while maintaining the High LOP backbone cluster at Point Dume. As stated in the considerations for Proposal 1 regarding the proposed recreational and commercial take regulations, "[w]e allowed for squid and coastal pelagic species seining, spearfishing for pelagics, and harpooning for swordfish [all High LOP activities] to generate cross interest support from conservation and consumptive communities." The proposed take regulations in this petition would reduce the LOP to Moderate-low, such that the Point Dume cluster would no longer contribute to Network-scale replication and representation goals. This is not aligned with the original intent developed during the planning process.

QUESTION 7B: IS THERE NEW INFORMATION AVAILABLE, CHANGING CONDITIONS SINCE THE MLPA IMPLEMENTATION PHASE, AND/OR INFORMATION PRESENTED IN THE DMR THAT WARRANTS REEVALUATION OF THE PROPOSED CHANGE?

No. The petitioner cites new analyses identifying California kelp beds that may be more resilient to disturbance, as well as recent scientific literature investigating the effects of MPA protection on kelp forests. Additionally, several recent studies highlight enhanced kelp resilience within MPAs in the South Coast in particular. However, a broad view of the best available science does not indicate consistent or reliable benefits to kelp resulting from MPA protection. As a result, there is not sufficient evidence to support the proposed change as an effective solution. Without direct, location-specific links between drivers and kelp persistence or decline, expanding MPAs for kelp recovery is unlikely to have a biologically meaningful impact on kelp and might unnecessarily restrict more effective restoration activities in the process.

Local drivers of kelp persistence and resilience need to be identified first, and management actions must be tailored to address those drivers. Therefore, pursuing this change ahead of additional long-term data collection and the KRMP, which will provide the essential management framework to guide future kelp management decisions, would be premature.

Therefore, while large-scale kelp declines and the occurrence of climate change-related disturbances do indicate changing conditions since the implementation phase, the petitioner did not provide sufficient evidence to warrant the proposed changes.

QUESTION 8: IF THE PROPOSED CHANGE AFFECTS AN EXISTING MPA, DOES THE PROPOSED CHANGE ALIGN WITH THE ORIGINAL INTENT OF THE MPA IDENTIFIED DURING THE MLPA INITIATIVE PLANNING PROCESS OR THE IMPLEMENTATION PROCESS OF MPAS AROUND THE NORTHERN CHANNEL ISLANDS?

No. While the proposed expansion does encompass more of the habitats that the MPA is intended to protect, it does not align with the original intent of the shape or take regulations implemented, which aimed to minimize, to the extent possible, fisheries impacts while maintaining a High LOP. Therefore, the proposed expansion conflicts with deliberate decisions made during the MLPA Initiative planning process to optimize multiple, sometimes competing, priorities.

QUESTION 9: DOES THE PROPOSED CHANGE IMPROVE INDIVIDUAL MPA OR MPA NETWORK DESIGN SO THAT IT BETTER ALIGNS WITH OR MEETS THE MPA SCIENCE GUIDELINES?

No. The MLPA requires that the design of individual MPAs and the statewide Network be based on the best readily available science and that MPAs be of adequate size, number, protection level, and location to meet MLPA Goals. The science guidelines developed by the Science Advisory Team and outlined in the Master Plan were created specifically to provide this scientific foundation and serve as the starting point for evaluating alternative MPA proposals. Alignment with these guidelines depends on LOP, which is determined by allowed take, and spatial configuration. More specifically, these guidelines require that an MPA must be at least 9 square miles and meet one of the three highest levels of protection (i.e., Very High, High, or Moderate-high) to contribute to ecological goals such as habitat replication and representation.

Point Dume SMCA, together with neighboring Point Dume SMR, currently meets both minimum criteria and thus contributes to foundational ecological Network objectives (Table 2). The proposed expansion would increase the area protected within the MPA of several already replicated key habitats, namely kelp, beach, rocky intertidal, and soft bottom (0-30, 30-100, 100-200, and >200 m depth zones) habitats, which would improve the design of this MPA. However, because the MPA already meets the size thresholds for these habitats, the extent to which this additional habitat area would provide further ecological benefit is uncertain. The expansion would also increase the area of hard bottom habitat in the 0-30 and 30-100 m depth zones, but not enough to meet the minimum thresholds required of these habitats to contribute to habitat replication or representation. Furthermore, any benefit of increased size would be negated by the proposed take allowance. The additional take allowance proposed by the petitioner would reduce the LOP of Point Dume SMCA from High to Moderate-low, meaning it would no longer contribute to Network-scale habitat goals. Since Point Dume SMR does not meet the minimum size criterion on its own, implementation of the proposed change in take regulations would remove the entire Point Dume cluster from habitat replication and representation analyses, leaving a major connectivity gap in a key stretch of the coast.

Since the increase in size would not advance additional Network-scale ecological objectives and the proposed take allowance would invalidate this MPA's contribution to such objectives by decreasing the LOP of the SMCA, implementation of the proposed change would not improve the design of the individual MPA or of the Network and would decrease alignment with Science Guidelines. See Question 9 of Attachment 1 for the MLPA Science Guidelines and additional context.

QUESTION 10A: DOES THE PROPOSED CHANGE ALIGN WITH CDFW FEASIBILITY GUIDELINES?

No. The proposed change would not align with the following Feasibility Guidelines: boundaries are not described using readily determined lines of latitude and longitude, and it is unclear if the landmarks suggested by the petitioner to identify the proposed boundaries are easily recognizable for both shore- and boat-based users. See Question 10a of Attachment 1 for CDFW Feasibility Guidelines.

QUESTION 10B: IF NOT, IS THERE A RATIONALE FOR MOVING FORWARD WITH THE PROPOSED CHANGE OR AN ALTERNATIVE THAT COULD MEET THE INTENT BUT BETTER ALIGN WITH FEASIBILITY GUIDELINES?

No. There is no rationale for moving forward with the proposed change or an alternative that better aligns with the Feasibility Guidelines.

QUESTION 11: DOES THE PROPOSED CHANGE MAINTAIN OR IMPROVE ENFORCEABILITY OF MPA REGULATIONS?

No. The western boundary is not aligned with lines of latitude and longitude or easily recognizable permanent landmarks, which could complicate enforcement. Moreover, the proposed change adds an additional take allowance which compromises enforceability by:

- Making it more difficult to discern if an activity is allowed when surveilling the MPA from afar,
- Increasing the potential for non-compliance with members of the public who observe the activity taking place in an MPA but are unfamiliar with the regulations, and
- Increasing the potential for the illegal take of other species.

QUESTION 12: DOES THE PROPOSED CHANGE SIMPLIFY REGULATORY LANGUAGE OR ENHANCE PUBLIC UNDERSTANDING WITHOUT CHANGING THE INTENT OF THE MPA?

No. The proposed change does not simplify regulatory language.

QUESTION 13: DOES THE PROPOSED CHANGE MAINTAIN OR ENHANCE PROTECTION OF MARINE RESOURCES?

No. The proposed change does not enhance protection of marine resources because it would introduce another type of take (recreational hook-and-line fishing from shore) that decreases protection for nearshore fish species that are currently protected under the existing regulations. Although implementation of the proposed change would increase the area contained within the MPA of multiple habitats, including sandy beach,

rocky intertidal, kelp forests, and soft bottom habitats (Table 2), sufficient area is already protected in the existing MPA of some of these habitats to contribute towards habitat replication. Of the remaining habitats, not enough area is added through the proposed expansion to meet the requirement to count towards replication goals. Furthermore, the Point Dume SMCA and neighboring Point Dume SMR act together as an MPA cluster which was intentionally designed to maintain some critical fisheries allowances in the area while meeting the design criteria necessary to contribute to MPA Network ecological objectives in a key section of coastline. Adding the proposed take allowance would lower the SMCA's LOP from High to Moderate-low. As a result, both the SMCA and SMR would no longer serve as a critical ecological replicate in the Network, creating a considerable connectivity gap in this stretch of coastline. This would substantially compromise the design of the MPA cluster and the Network as a whole and may alter connectivity dynamics between this area and surrounding MPAs. Lastly, although the petitioner's intent is to increase protections for kelp forest habitat within MPAs, it is uncertain whether the proposed expansion would produce the kelp resiliency benefits anticipated by the petitioner. While MPAs may indirectly support kelp, they are not considered the best available management tool at this time, especially when the drivers behind the current decline are systemic rather than location specific. Considering this, insufficient evidence has been provided to justify the expansion of this MPA for the purpose of supporting kelp persistence or recovery.

QUESTION 14: DOES THE PROPOSED CHANGE PROVIDE MORE EQUITABLE ACCESS OPPORTUNITIES (E.G., FISHING, EDUCATIONAL, AND/OR OTHER RECREATIONAL OPPORTUNITIES) FOR TRADITIONALLY UNDERSERVED OR MARGINALIZED COMMUNITIES?

See Question 14 of Attachment 1.

QUESTION 15: DOES THE PROPOSED CHANGE HAVE THE POTENTIAL TO AFFECT CONSUMPTIVE AND/OR NON-CONSUMPTIVE ACTIVITIES? IF SO, HOW?

Yes. The proposed change has the potential to affect both consumptive and non-consumptive activities.

Both recreational and commercial consumptive activities would likely experience adverse impacts. Although recreational take of white seabass and pelagic finfish by spearfishing is allowed, expansion of the SMCA would limit other types of fishing and could have significant impacts on local recreational fishing opportunities and private boat fishermen. Most of the proposed expansion lies within a high-value commercial fishing block (681). In particular, there is potential for negative impacts to the commercial swordfish fishery and the CPFV fleet, especially out of Channel Islands and Ventura Harbors.

As stated above (see Question 7), this area was considered for inclusion in the MPA Network during the planning process but was ultimately excluded due to its high importance to commercial and recreational fisheries. Those same considerations remain relevant and indicate that the proposed change would have substantial effects on existing consumptive uses of the area.

Expanding this MPA could benefit non-consumptive users by bringing two additional coastal access points within the boundaries of the MPA. In addition, the expansion would place the MPA adjacent to all three pocket beaches comprising Robert H. Meyer Memorial State Beach (as opposed to only one currently). Regarding research and study opportunities, there do not appear to be any long-term monitoring sites within the boundaries of the proposed expansion.

QUESTION 16: IS THE PROPOSED CHANGE CONSISTENT WITH CFGC JUSTICE, EQUITY, DIVERSITY AND INCLUSION POLICY?

See Question 16 of Attachment 1.

QUESTION 17: IS THE PROPOSED CHANGE CONSISTENT WITH CFGC COASTAL FISHING COMMUNITIES POLICY?

The following analysis was prepared by CFGC staff. See Question 17 of Attachment 1 for additional context on CFGC's response.

The proposed change would add a new recreational take opportunity within the existing MPA footprint. However, the expansion of the MPA would decrease take opportunities in the newly protected areas. This action is particularly relevant for the coastal fishing communities of:

- Ventura Harbor (~40 nm away from area of proposed change), and
- Channel Islands Harbor (Oxnard, ~38 nm away from area of proposed change).

QUESTION 18: DOES THE PROPOSED CHANGE INTERACT WITH OR HAVE THE POTENTIAL TO AFFECT PROPOSED CHANGES IN OTHER 2023 MPA PETITIONS?

Yes. This petition has the potential to interact with Petition 2023-14MPA, where the petitioner is proposing to allow commercial urchin take in nine MPAs, including Point Dume SMCA. These petitions may be in conflict, since the present petitioner aims to enhance ecological protections and adding an allowance for urchin take would further reduce the MPA's LOP.

2023-33MPA_3: Expand South Point SMR westward by 26.3 sq mi.

QUESTION 1: DOES THE PROPOSED CHANGE SUPPORT THE MPA NETWORK IN MEETING ONE OR MORE OF THE MLPA GOALS AND ALIGN WITH MPA MASTER PLAN ADAPTIVE MANAGEMENT OBJECTIVES?

No. The MLPA Goals and Master Plan objectives are inextricably linked and act as the foundational tools that CDFW utilizes for effective adaptive management of the MPA Network. Individual MPAs in the Network were not necessarily designed to address all six Goals of the MLPA but instead act as an important component of a functioning Network that was designed to holistically address the MLPA Goals as a whole. As such, CDFW has evaluated this action within the broader adaptive management framework and how the proposed action may or may not align with the MLPA Goals/Master Plan objectives and advance MPA Network management. See Question 1 of Attachment 1 for the MLPA Goals and Master Plan objectives.

The petitioner asserts that the proposed MPA would align with Goals 1-4, which address preserving natural diversity and marine natural heritage, protecting marine populations and habitats, improving recreational opportunities, and protecting representative habitats for their intrinsic value. However, within the broader adaptive management framework for the statewide MPA Network, it is not evident that expanding South Point SMR would advance Network-level management.

South Point SMR was established in 2003 as part of the Channel Islands MPA planning process. The Marine Reserves Working Group (MRWG) collaboratively designed a network of No-take reserves intended to conserve biodiversity, sustain fisheries, support education and research, and preserve natural and cultural heritage, while minimizing negative socioeconomic impacts (CINMS 2002). These goals, which clearly align with the six MLPA Goals/Master Plan objectives, informed the SMR's final design.

South Point SMR was specifically designed to protect marine life populations and habitats (Goals 1-2). Monitoring results from the Channel Islands show that both abundance and biomass of targeted species are greater within reserves compared to reference areas outside MPA boundaries (Caselle et al. 2015), indicating that MPAs are performing as intended towards achievement of ecological goals.

South Point SMR also contributes to habitat replication goals developed during the planning process (Goal 4). The MRWG explicitly aimed to conserve marine biodiversity and habitats in a reserve network at a minimum cost in terms of area, boundary length, and economic impacts. The SMR protects multiple key habitats, including kelp forests, which is the overarching purpose of the petition. The proposed expansion would not

enable the MPA to meet replication goals for any additional key habitats. Because replication thresholds are based on protecting sufficient area to encompass 90% of species diversity associated with a particular habitat, adding a small amount of additional area beyond what already meets established guidelines is likely to yield only nominal ecological benefit while potentially imposing disproportionate impacts on other users. Therefore, the proposed expansion introduces socioeconomic impacts without evidence of ecological benefit and undermines the tradeoffs established during the planning process.

This relates directly to Goals 3, 5, and 6. The existing South Point SMR was designed not only to meet ecological goals but also to support recreational and study opportunities (Goal 3), minimize negative socioeconomic impacts while enhancing positive ones for all users (Goal 5), and reflect the rigorous, science-based, stakeholder-driven planning process that underpins the statewide Network (Goal 6). This balance signifies the carefully considered tradeoffs made during the Channel Islands MPA planning process. At that time, there was a request to consider extending the South Point SMR west to Bee Rock, as is proposed in this petition. CDFW and NOAA jointly determined that doing so "was not possible…without greatly increasing the economic impact to lobster and urchin fisheries," and the recommendation went unheeded. The considerations informing that decision remain relevant today.

The proposed expansion would compromise the balance achieved during the planning process. Expanding boundaries without clear scientific justification does not advance Goals 1, 2, or 4, and introduces new conflicts with Goals 3, 5, and 6 by discounting prior planning decisions, imposing socioeconomic impacts, and relying on inconclusive evidence that additional protected area will deliver the kelp-related benefits anticipated by the petitioner.

Therefore, while the petitioner asserts alignment with MLPA Goals, the proposed expansion would not clearly advance MPA management or performance objectives, and in some cases, may even undermine them.

QUESTION 2A: DOES THE PROPOSED CHANGE ADVANCE ADAPTIVE MANAGEMENT RECOMMENDATIONS IN THE DECADAL MANAGEMENT REVIEW?

No. The proposed change does not advance adaptive management recommendations from the DMR (CDFW 2022). See Question 2a of Attachment 1 for the DMR and DMR Recommendations.

QUESTION 2B: IF NOT, DOES THE PROPOSED CHANGE ADDRESS A CURRENT OR EMERGING MPA MANAGEMENT CHALLENGE?

No. The petitioner cites climate-related declines in kelp forests as justification for expanding South Point SMR, suggesting that increasing the amount of protected kelp habitat and removing direct human impacts would help conserve remaining kelp canopy and improve restoration potential. While kelp forests are highly valuable and their decline since MPA implementation is a significant management concern, it is not clear that this issue represents an MPA-specific management challenge, nor one best addressed by expanding MPA boundaries, particularly without evidence of place-based mechanisms or drivers linked to kelp persistence.

Although climate change was not explicitly incorporated into the original MLPA Initiative planning process, the ecological principles underlying Network design, such as larval connectivity and habitat replication, support both ecological and climate resilience. Indeed, MPAs in California have been shown to support larger, older, and more abundant marine populations that are more resilient to disturbances (CDFW 2022). Still, the extent to which these ecological benefits translate into improved resistance or adaptation to climate-driven impacts on kelp remains uncertain, and the magnitude of any such benefit is likely highly spatiotemporally variable. More research is needed to determine the factors that contribute to kelp forest resilience in the context of climate change and how best to mitigate impacts. If warming ocean temperatures are the primary driver of kelp decline in California, expanding MPA boundaries alone is unlikely to provide significant benefits.

Given these uncertainties, pursuing a substantial boundary expansion without stronger scientific basis and a coordinated management strategy would be premature. Currently, the proposed westward expansion of South Point SMR does not clearly address a demonstrated MPA management challenge, nor is it evident that expanding the SMR is the appropriate tool for addressing broader kelp management concerns in California. The forthcoming KRMP will provide the comprehensive strategy to guide future kelp management decisions statewide.

QUESTION 3: DOES THE PROPOSED CHANGE HAVE THE POTENTIAL TO AFFECT EXISTING CFGC NON-MPA REGULATIONS, PERMITS, OR LEASES (E.G., KELP LEASES, AQUACULTURE LEASES, EXPERIMENTAL FISHING PERMITS)?

Yes. The proposed South Point SMR expansion overlaps with Administrative Kelp Bed 114, which is open. Open kelp beds are available to commercial kelp harvest and leases cannot be issued. Commercial kelp harvest was last reported in this bed in 2005.

The proposed change also has the potential to impact two existing EFPs: EFPT3-001 (swordfish/tuna) and EFPT4-001 (box crab/king crab).

QUESTION 4: DOES THE PROPOSED CHANGE HAVE THE POTENTIAL TO AFFECT EXISTING REGULATIONS, PERMITS, LEASES, OR MANAGEMENT ACTIVITIES OF ANY OTHER AGENCY OR ENTITY?

Yes. South Point SMR is inside the CINMS and the Channel Islands National Park, which are federally administered by NOAA and the National Park Service, respectively. Implementation of the proposed change would require consultation and coordination with federal authorities and may interact with their management activities. CDFW would need to work with NOAA on coordinated enforcement, updates to signage, and outreach efforts. Note that the expansion would modify the state SMR so it would no longer align with the South Point Federal Marine Reserve.

South Point SMR overlaps with an ASBS that circumnavigates the Northern Channel Islands, and the proposed change would further overlap with this ASBS. It is unclear whether the proposed change would affect the management activities of the State or Regional Water Quality Control Boards.

This list may not be exhaustive. The proposed change may have the potential to affect existing regulations, permits, leases, or management activities of Tribal governments, other agencies, and entities not identified here.

QUESTION 5: ARE THERE SIGNIFICANT INFORMATION GAPS THAT NEED TO BE FILLED TO INFORM THE EVALUATION OF THE PROPOSED CHANGE?

Yes. When evaluating this petition, CDFW reviewed the information in the petition, as well as information including, but not limited to:

- MLPA Planning documents and related information (e.g., MLPA Goals and MPA Master Plan adaptive management objectives),
- Existing science pertaining to kelp recovery in MPAs,
- Long-term monitoring data related to kelp in MPAs,
- Satellite (1984-2023; Bell et al. 2025) and flyover (2002-06; 2008-10; 2013-16; CDFW 2024) mapping of statewide kelp canopy coverage, and
- Commercial and recreational fishing data.

CDFW has identified information gaps that limit the ability to fully evaluate the proposed change. Key information gaps include:

- Direct evidence of a place-based need linking kelp declines to specific driver(s) at this location,

- Consideration of socioeconomic and tribal interests and how these will be factored into the decision-making process with respect to kelp management at this location, and
- A statewide assessment of kelp restoration and recovery tools developed through the KRMP.

While important management concerns related to kelp recovery and restoration are raised in the petition, the petitioner did not present sufficient information to justify the proposed change as the appropriate solution.

Long-term MPA monitoring data indicate we have early, though inconsistent, evidence that MPAs may enhance resilience to climate change and other disturbances for ecosystems within their borders. Continued, consistent monitoring is necessary to determine which factors are most influential in supporting kelp recovery and resilience and how these factors vary regionally.

QUESTION 6: ARE THERE SIGNIFICANT MANAGEMENT GAPS THAT NEED TO BE FILLED TO INFORM THE EVALUATION OF THE PROPOSED CHANGE?

Yes. The forthcoming KRMP is the crucial management framework to have in place before considering MPA regulatory changes aimed at protecting kelp.

QUESTION 7A: WAS THE PROPOSED CHANGE CONSIDERED DURING THE MLPA INITIATIVE PLANNING PROCESS OR THE IMPLEMENTATION PROCESS OF MPAS AROUND THE NORTHERN CHANNEL ISLANDS?

Yes. During the Channel Islands MPA planning process, stakeholder feedback on the working draft jointly developed by CDFW and NOAA following conclusion of the Channel Islands MRWG advised extending the South Point SMR to the west towards Bee Rock/Cluster Point to capture more kelp forest (CIMNS 2002). The agencies determined that it was not possible to increase the representation of kelp forests without greatly increasing the economic impact to the lobster and urchin fisheries, and the expanded boundary was not considered further.

QUESTION 7B: IS THERE NEW INFORMATION AVAILABLE, CHANGING CONDITIONS SINCE THE MLPA IMPLEMENTATION PHASE, AND/OR INFORMATION PRESENTED IN THE DMR THAT WARRANTS REEVALUATION OF THE PROPOSED CHANGE?

No. The petitioner cites new analyses identifying California kelp beds that may be more resilient to disturbance, as well as recent scientific literature investigating the effects of MPA protection on kelp forests. Additionally, several recent studies highlight enhanced kelp resilience within MPAs in the South Coast in particular. However, a broad view of the best available science does not indicate consistent

or reliable benefits to kelp resulting from MPA protection. As a result, there is not sufficient evidence to support the proposed change as an effective solution. Without direct, location-specific links between drivers and kelp persistence or decline, expanding MPAs for kelp recovery is unlikely to have a biologically meaningful impact on kelp and might unnecessarily restrict more effective restoration activities in the process.

Local drivers of kelp persistence and resilience need to be identified first, and management actions must be tailored to address those drivers. Therefore, pursuing this change ahead of additional long-term data collection and the KRMP, which will provide the essential management framework to guide future kelp management decisions, would be premature.

Therefore, while large-scale kelp declines and the occurrence of climate change-related disturbances do indicate changing conditions since the implementation phase, the petitioner did not provide sufficient evidence to the proposed expansion of South Point SMR.

QUESTION 8: IF THE PROPOSED CHANGE AFFECTS AN EXISTING MPA, DOES THE PROPOSED CHANGE ALIGN WITH THE ORIGINAL INTENT OF THE MPA IDENTIFIED DURING THE MLPA INITIATIVE PLANNING PROCESS OR THE IMPLEMENTATION PROCESS OF MPAS AROUND THE NORTHERN CHANNEL ISLANDS?

No. While the proposed expansion of South Point SMR does encompass larger areas of the habitats that the MPA is intended to protect, it does not align with the original intent of the shape implemented, which aimed to minimize impacts to fisheries. Therefore, the expansion conflicts with deliberate decisions made during the Channel Islands MPA planning process to optimize multiple, sometimes competing, priorities. See Response to Question 7.

QUESTION 9: DOES THE PROPOSED CHANGE IMPROVE INDIVIDUAL MPA OR MPA NETWORK DESIGN SO THAT IT BETTER ALIGNS WITH OR MEETS THE MPA SCIENCE GUIDELINES?

No. The MLPA requires that the design of individual MPAs and the statewide Network be based on the best readily available science and that MPAs be of adequate size, number, protection level, and location to meet MLPA Goals. The science guidelines developed by the Science Advisory Team and outlined in the Master Plan were created specifically to provide this scientific foundation and serve as the starting point for evaluating alternative MPA proposals. Alignment with these guidelines depends on LOP, which is determined by allowed take, and spatial configuration. More specifically, these guidelines require that an MPA must be at least 9 square miles and meet one of the three highest

LOPs (i.e., Very High, High, or Moderate-high) to contribute to ecological goals such as habitat replication and representation.

South Point SMR currently meets both minimum criteria and thus contributes to foundational ecological Network objectives (Table 3). The proposed change would increase the area protected within the MPA of several already replicated key habitats, namely kelp, beach, rocky intertidal, hard bottom (0-30 and 30-100 m depth zones), and soft bottom (0-30, 30-100, 100-200, and >200 m depth zones) habitats, which would improve the design of this MPA. However, because the MPA already meets the area thresholds for these habitats, the extent to which this additional habitat area would provide further ecological benefit is uncertain.

The expansion would also increase the area of hard bottom habitat in the 100-200 m depth zone, but not enough to meet the minimum threshold required of this habitat to contribute to habitat replication or representation. Since the increase in size would not advance additional MPA Network-scale ecological objectives, implementation of the proposed expansion of South Point SMR would not improve the design of the MPA Network or enhance alignment with Science Guidelines. See Question 9 of Attachment 1 for the MLPA Science Guidelines and additional context.

QUESTION 10A: DOES THE PROPOSED CHANGE ALIGN WITH CDFW FEASIBILITY GUIDELINES?

Yes. The proposed change aligns with CDFW Feasibility Guidelines, as does the existing design. There was not sufficient information provided in the petition that outweighs the original decisions in the Channel Islands MPA or MLPA Initiative planning processes to justify moving forward with the proposed change. See Question 10a of Attachment 1 for CDFW Feasibility Guidelines.

> **QUESTION 10B:** IF NOT, IS THERE A RATIONALE FOR MOVING FORWARD WITH THE PROPOSED CHANGE OR AN ALTERNATIVE THAT COULD MEET THE INTENT BUT BETTER ALIGN WITH FEASIBILITY GUIDELINES?
>
> **Not applicable.**

QUESTION 11: DOES THE PROPOSED CHANGE MAINTAIN OR IMPROVE ENFORCEABILITY OF MPA REGULATIONS?

Yes and No. The proposed change maintains enforceability of MPA regulations by aligning the proposed western boundary with a recognizable landmark, although it does not align with a readily determinable line of latitude and longitude. While whole lines of latitude and longitude are preferred for demarcating boundaries, aligning with a recognizable landmark is still consistent with CDFW Feasibility Guidelines for MPA design.

However, the expansion would change the state South Point SMR boundary so it would no longer align with the South Point Federal Marine Reserve. Boundary misalignment could introduce a new enforcement challenge.

QUESTION 12: DOES THE PROPOSED CHANGE SIMPLIFY REGULATORY LANGUAGE OR ENHANCE PUBLIC UNDERSTANDING WITHOUT CHANGING THE INTENT OF THE MPA?

No. The proposed change does not simplify regulatory language.

QUESTION 13: DOES THE PROPOSED CHANGE MAINTAIN OR ENHANCE PROTECTION OF MARINE RESOURCES?

Yes. The proposed expansion of South Point SMR would protect an additional distance of 8.18 linear miles of kelp, 5.04 linear miles of beach, and 6.79 linear miles of rocky intertidal, as well as additional area of hard and soft bottom habitats at a range of depths (Table 3). This has the potential to provide local protection for habitats and species within the newly expanded area. However, the MPA was designed to protect sufficient area of these habitats such that the MPA already contributes towards replication for all but one of these habitats. For the remaining habitat that is not currently a replicate (hard substrate, 100-200 m depth), the proposed expansion still would not include enough area to meet the requirement to count towards replication goals.

Furthermore, although the petitioner's intent is to increase protections for kelp forest habitat within MPAs, it is uncertain whether the proposed expansion would produce the kelp resiliency benefits anticipated by the petitioner. While MPAs may indirectly support kelp, they are not considered the best available management tool at this time, especially when the drivers behind the current decline are systemic rather than location specific. Considering this, insufficient evidence has been provided to justify the expansion of South Point SMR for the purpose of supporting kelp persistence or recovery.

QUESTION 14: DOES THE PROPOSED CHANGE PROVIDE MORE EQUITABLE ACCESS OPPORTUNITIES (E.G., FISHING, EDUCATIONAL, AND/OR OTHER RECREATIONAL OPPORTUNITIES) FOR TRADITIONALLY UNDERSERVED OR MARGINALIZED COMMUNITIES?

See Question 14 of Attachment 1.

QUESTION 15: DOES THE PROPOSED CHANGE HAVE THE POTENTIAL TO AFFECT CONSUMPTIVE AND/OR NON-CONSUMPTIVE ACTIVITIES? IF SO, HOW?

Yes. The proposed change has the potential to affect both consumptive and non-consumptive activities.

Expanding the South Point SMR could negatively impact consumptive uses, with significant impacts expected for the commercial lobster, urchin, and nearshore

groundfish fisheries, the CPFV fleet operating out of Santa Barbara, and private boaters fishing for white seabass and halibut. During the Channel Islands MPA planning process, expanded boundaries to encompass more kelp forest within South Point SMR was noted as a priority change for the working draft. However, the area west towards Bee Rock/Cluster Point was deliberately not added due to concerns of significantly increased economic impacts to certain fisheries, which remains relevant today. The petition did not discuss economic impacts to the fisheries.

Regarding non-consumptive users, the proposed expansion has the potential to impact researchers and long-term monitoring sites for several core habitats. There are intertidal, kelp, and deep reef long-term monitoring sites that would fall within the boundaries of the proposed expansion. The proposed South Point SMR expansion would subsume current non-MPA reference sites within the SMR's No-take boundaries, impacting the experimental design for these MPA monitoring groups and their long-term studies.

QUESTION 16: IS THE PROPOSED CHANGE CONSISTENT WITH CFGC JUSTICE, EQUITY, DIVERSITY AND INCLUSION POLICY?

See Question 16 of Attachment 1.

QUESTION 17: IS THE PROPOSED CHANGE CONSISTENT WITH CFGC COASTAL FISHING COMMUNITIES POLICY?

The following analysis was prepared by CFGC staff. See Question 17 of Attachment 1 for additional context on CFGC's response.

The proposed change would reduce fishing access and add more regulatory burdens, particularly for fishing participants associated with the coastal fishing communities of:

- Channel Islands Harbor (Oxnard),
- Ventura, and
- Santa Barbara.

QUESTION 18: DOES THE PROPOSED CHANGE INTERACT WITH OR HAVE THE POTENTIAL TO AFFECT PROPOSED CHANGES IN OTHER 2023 MPA PETITIONS?

No. There are no potential interactions or effects on any of the other 2023 MPA petitions.

2023-33MPA_4: Expand Gull Island SMR northward by 1.8 sq mi.

QUESTION 1: DOES THE PROPOSED CHANGE SUPPORT THE MPA NETWORK IN MEETING ONE OR MORE OF THE MLPA GOALS AND ALIGN WITH MPA MASTER PLAN ADAPTIVE MANAGEMENT OBJECTIVES?

No. The MLPA Goals and Master Plan objectives are inextricably linked and act as the foundational tools that CDFW utilizes for effective adaptive management of the MPA Network. Individual MPAs in the Network were not necessarily designed to address all six Goals of the MLPA but instead act as an important component of a functioning Network that was designed to holistically address the MLPA Goals as a whole. As such, CDFW has evaluated this action within the broader adaptive management framework and how the proposed action may or may not align with the MLPA Goals/Master Plan objectives and advance MPA Network management. See Question 1 of Attachment 1 for the MLPA Goals and Master Plan objectives.

The petitioner asserts that the proposed MPA would align with Goals 1-4, which address preserving natural diversity and marine natural heritage, protecting marine populations and habitats, improving recreational opportunities, and protecting representative habitats for their intrinsic value. However, within the broader adaptive management framework for the statewide MPA Network, it is not evident that expanding Gull Island SMR would advance Network-level management.

Gull Island SMR was established in 2003 as part of the Channel Islands MPA implementation process. The MRWG collaboratively designed a network of No-take reserves intended to conserve biodiversity, sustain fisheries, support education and research, and preserve natural and cultural heritage, while minimizing negative socioeconomic impacts. These goals, which clearly align with the six MLPA Goals/Master Plan objectives, informed the SMR's final design.

Gull Island SMR was specifically designed to protect marine life populations and habitats (Goals 1-2). Monitoring results from the Channel Islands show that both abundance and biomass of targeted species are greater within reserves compared to reference areas outside MPA boundaries (Caselle et al. 2015), indicating that MPAs are performing as intended towards achievement of ecological goals.

Gull Island SMR also contributes to habitat replication goals developed during the planning process (Goal 4). The MRWG explicitly aimed to conserve marine biodiversity and habitats in a reserve network at a minimum cost in terms of area, boundary length, and economic impacts. The SMR protects multiple key habitats, including kelp, which is the overarching purpose of the petition. The proposed expansion would not enable the

MPA to meet replication goals for any additional key habitats. Because replication thresholds are based on protecting sufficient area to encompass 90% of species diversity associated with a particular habitat, adding a small amount of additional area beyond what already meets established guidelines is likely to yield only nominal ecological benefit while potentially imposing disproportionate impacts on consumptive users. Therefore, the proposed expansion introduces socioeconomic impacts without evidence of ecological benefit and undermines the balance established during the planning process.

This relates directly to Goals 3, 5, and 6. The existing Gull Island SMR was designed not only to meet ecological goals but also to support recreational and study opportunities (Goal 3), minimize negative socioeconomic impacts while enhancing positive ones for all users (Goal 5), and reflect the rigorous, science-based, stakeholder-driven planning process that underpins the statewide Network (Goal 6). This balance reflects the carefully considered tradeoffs made during the Channel Islands MPA planning process. At that time, the area this petition proposes to expand into was included in the initial working draft version of Gull Island SMR. Recreational fishing participants requested that Posa Anchorage be opened. Recognizing the significant impacts to recreational and commercial fishing of closing the anchorage, the area was removed from the working draft. The considerations informing that decision remain relevant today.

The proposed expansion of Gull Island SMR would compromise the balance achieved during the planning process. Expanding boundaries without clear scientific justification does not advance Goals 1, 2, or 4, and introduces new conflicts with Goals 3, 5, and 6 by discounting prior planning decisions, imposing socioeconomic impacts, and relying on inconclusive evidence that additional protected area will deliver the kelp-related benefits anticipated by the petitioner.

Therefore, while the petitioner asserts alignment with MLPA Goals, the proposed expansion would not clearly advance MPA management or performance objectives, and in some cases, may even undermine them.

QUESTION 2A: DOES THE PROPOSED CHANGE ADVANCE ADAPTIVE MANAGEMENT RECOMMENDATIONS IN THE DECADAL MANAGEMENT REVIEW?

No. The proposed change does not advance adaptive management recommendations from the DMR (CDFW 2022). See Question 2a of Attachment 1 for the DMR and DMR Recommendations.

QUESTION 2B: IF NOT, DOES THE PROPOSED CHANGE ADDRESS A CURRENT OR EMERGING MPA MANAGEMENT CHALLENGE?

No. The petitioner cites climate-related declines in kelp forests as justification for expanding Gull Island SMR, suggesting that increasing the amount of protected kelp habitat and removing direct human impacts would help conserve remaining kelp canopy and improve restoration potential. While kelp forests are highly valuable and their decline since MPA implementation is a significant management concern, it is not clear that this issue represents an MPA-specific management challenge, nor one best addressed by expanding this MPA's boundary, particularly without evidence of place-based mechanisms or drivers linked to kelp persistence.

Although climate change was not explicitly incorporated into the original MLPA Initiative planning process, the ecological principles underlying Network design, such as larval connectivity and habitat replication, support both ecological and climate resilience. Indeed, MPAs in California have been shown to support larger, older, and more abundant marine populations that are more resilient to disturbances (CDFW 2022). Still, the extent to which these ecological benefits translate into improved resistance or adaptation to climate-driven impacts on kelp remains uncertain, and the magnitude of any such benefit is likely highly spatiotemporally variable. More research is needed to determine the factors that contribute to kelp forest resilience in the context of climate change and how best to mitigate impacts. If warming ocean temperatures are the primary driver of kelp decline in California, expanding MPA boundaries alone is unlikely to provide significant benefits.

Given these uncertainties, pursuing a substantial boundary expansion without stronger scientific basis and a coordinated management strategy would be premature. Currently, the proposed northward expansion of Gull Island SMR does not clearly address a demonstrated MPA management challenge, nor is it evident that expanding the SMR is the appropriate tool for addressing broader kelp management concerns in California. The forthcoming KRMP will provide the comprehensive strategy to guide future kelp management decisions statewide.

QUESTION 3: DOES THE PROPOSED CHANGE HAVE THE POTENTIAL TO AFFECT EXISTING CFGC NON-MPA REGULATIONS, PERMITS, OR LEASES (E.G., KELP LEASES, AQUACULTURE LEASES, EXPERIMENTAL FISHING PERMITS)?

Yes. The proposed Gull Island SMR expansion overlaps significantly with Administrative Kelp Bed 111, which is leasable. Commercial kelp can be harvested within leasable kelp

beds until a lease is obtained for the bed, at which time the bed can only be harvested by the lease holder.

QUESTION 4: DOES THE PROPOSED CHANGE HAVE THE POTENTIAL TO AFFECT EXISTING REGULATIONS, PERMITS, LEASES, OR MANAGEMENT ACTIVITIES OF ANY OTHER AGENCY OR ENTITY?

Yes. Gull Island SMR is inside the CINMS and the Channel Islands National Park, which are federally administered by NOAA and the National Park Service, respectively. Implementation of the proposed change would require consultation and coordination with federal authorities and may interact with their management activities. CDFW would need to work with NOAA on coordinated enforcement, updates to signage, and outreach efforts. Note that the expansion does not affect alignment with the Gull Island Federal Marine Reserve, as the expansion extends onshore towards Santa Cruz Island, entirely in state waters.

Gull Island SMR overlaps with an ASBS that circumnavigates the Northern Channel Islands, and the proposed change would further overlap with this ASBS. It is unclear whether the proposed change would affect the management activities of the State or Regional Water Quality Control Boards.

This list may not be exhaustive. The proposed change may have the potential to affect existing regulations, permits, leases, or management activities of Tribal governments, other agencies, and entities not identified here.

QUESTION 5: ARE THERE SIGNIFICANT INFORMATION GAPS THAT NEED TO BE FILLED TO INFORM THE EVALUATION OF THE PROPOSED CHANGE?

Yes. When evaluating this petition, CDFW reviewed the information in the petition, as well as information including, but not limited to:

- MLPA Planning documents and related information (e.g., MLPA Goals and MPA Master Plan adaptive management objectives),
- Existing science pertaining to kelp recovery in MPAs,
- Long-term monitoring data related to kelp in MPAs,
- Satellite (1984-2023; Bell et al. 2025) and flyover (2002-06; 2008-10; 2013-16; CDFW 2024) mapping of statewide kelp canopy coverage, and
- Commercial and recreational fishing data.

CDFW has identified information gaps that limit the ability to fully evaluate the proposed change. Key information gaps include:

- Direct evidence of a place-based need linking kelp declines to specific driver(s) at this location,
- Consideration of socioeconomic and tribal interests and how these will be factored into the decision-making process with respect to kelp management at this location, and
- A statewide assessment of kelp restoration and recovery tools developed through the KRMP.

While important management concerns related to kelp recovery and restoration are raised in the petition, the petitioner did not present sufficient information to justify the proposed change as the appropriate solution.

Long-term MPA monitoring data indicate we have early, though inconsistent, evidence that MPAs may enhance resilience to climate change and other disturbances for ecosystems within their borders. Continued, consistent monitoring is necessary to determine which factors are most influential in supporting kelp recovery and resilience and how these factors vary regionally.

QUESTION 6: ARE THERE SIGNIFICANT MANAGEMENT GAPS THAT NEED TO BE FILLED TO INFORM THE EVALUATION OF THE PROPOSED CHANGE?

Yes. The forthcoming KRMP is the crucial management framework to have in place before considering MPA regulatory changes aimed at protecting kelp.

QUESTION 7A: WAS THE PROPOSED CHANGE CONSIDERED DURING THE MLPA INITIATIVE PLANNING PROCESS OR THE IMPLEMENTATION PROCESS OF MPAS AROUND THE NORTHERN CHANNEL ISLANDS?

Yes. The Channel Islands MRWG proposed two configurations of the MPA boundaries for Gull Island SMR, one of which did not include Posa Anchorage, and one that extended onshore to Santa Cruz Island and included the proposed expansion area. After the work of the MRWG concluded, the Channel Islands Sanctuary Advisory Council advised CDFW and NOAA to jointly finish the work of the MRWG and develop a recommendation to provide to the CFGC. Both options proposed by the MRWG were considered by CDFW and NOAA, and the latter was included in the working draft that was sent to the MRWG and local fishing and environmental groups for input prior to submission to CFGC. CDFW and NOAA's recommendation aimed to reflect the progress made during the MRWG process as well as state and federal legislation, regulations, and jurisdictions in place at the time (CINMS 2002). The constituencies that reviewed the recommendations provided CDFW and NOAA with a list of their top priorities to incorporate into the MPA configurations for CFGC's consideration. One of the top priority changes expressed by the recreational fishing community was exclusion of the area that included Posa Anchorage from the Gull

Island SMR. In response, Posa Anchorage was removed from the working draft to allow recreational and commercial fishing to continue (CINMS 2002).

QUESTION 7B: IS THERE NEW INFORMATION AVAILABLE, CHANGING CONDITIONS SINCE THE MLPA IMPLEMENTATION PHASE, AND/OR INFORMATION PRESENTED IN THE DMR THAT WARRANTS REEVALUATION OF THE PROPOSED CHANGE?

No. The petitioner cites new analyses identifying California kelp beds that may be more resilient to disturbance, as well as recent scientific literature investigating the effects of MPA protection on kelp forests. Additionally, several recent studies highlight enhanced kelp resilience within MPAs in the South Coast in particular. However, a broad view of the best available science does not indicate consistent or reliable benefits to kelp resulting from MPA protection. As a result, there is not sufficient evidence to support the proposed change as an effective solution. Without direct, location-specific links between drivers and kelp persistence or decline, expanding MPAs for kelp recovery is unlikely to have a biologically meaningful impact on kelp and might unnecessarily restrict more effective restoration activities in the process.

Local drivers of kelp persistence and resilience need to be identified first, and management actions must be tailored to address those drivers. Therefore, pursuing this change ahead of additional long-term data collection and the KRMP, which will provide the essential management framework to guide future kelp management decisions, would be premature.

Therefore, while large-scale kelp declines and the occurrence of climate change-related disturbances do indicate changing conditions since the implementation phase, the petitioner did not provide sufficient evidence to warrant revisiting this decision.

QUESTION 8: IF THE PROPOSED CHANGE AFFECTS AN EXISTING MPA, DOES THE PROPOSED CHANGE ALIGN WITH THE ORIGINAL INTENT OF THE MPA IDENTIFIED DURING THE MLPA INITIATIVE PLANNING PROCESS OR THE IMPLEMENTATION PROCESS OF MPAS AROUND THE NORTHERN CHANNEL ISLANDS?

No. The proposed change does not align with the original intent of the MPA identified during the Channel Islands MPA planning process. The area within the proposed expansion was initially considered and then removed to allow recreational and commercial fishing following feedback on the working draft from consumptive users. Therefore, the expansion conflicts with deliberate decisions made during the Channel Islands MPA planning process to optimize multiple, sometimes competing, priorities.

QUESTION 9: DOES THE PROPOSED CHANGE IMPROVE INDIVIDUAL MPA OR MPA NETWORK DESIGN SO THAT IT BETTER ALIGNS WITH OR MEETS THE MPA SCIENCE GUIDELINES?

No. The MLPA requires that the design of individual MPAs and the statewide Network be based on the best readily available science and that MPAs be of adequate size, number, protection level, and location to meet MLPA Goals. The science guidelines developed by the Science Advisory Team and outlined in the Master Plan were created specifically to provide this scientific foundation and serve as the starting point for evaluating alternative MPA proposals. Alignment with these guidelines depends on LOP, which is determined by allowed take, and spatial configuration. More specifically, these guidelines require that an MPA must be at least 9 square miles and meet one of the three highest LOPs (i.e., Very High, High, or Moderate-high) to contribute to ecological goals such as habitat replication and representation.

Gull Island SMR currently meets both minimum criteria and thus contributes to foundational ecological Network objectives, including replication and representation of kelp, beach, rocky intertidal, hard bottom (0-30, 100-200, and >200 m depth zones), and soft bottom (0-30, 30-100, 100-200, and >200 m depth zones) habitats (Table 4).

Shifting the SMR boundary north would add additional area to the SMR of many of these already replicated habitats. While this may improve the design of the individual MPA, it would not advance additional Network-scale ecological objectives beyond what is currently provided. Therefore, implementation of the proposed change would not improve the design of the MPA Network or enhance alignment with Science Guidelines. See Question 9 of Attachment 1 for the MLPA Science Guidelines and additional context.

QUESTION 10A: DOES THE PROPOSED CHANGE ALIGN WITH CDFW FEASIBILITY GUIDELINES?

Yes. The proposed change may better align with CDFW Feasibility Guidelines by aligning the complete shoreward boundary of the MPA with the island's coastline. However, there was not sufficient information provided in the petition that outweighs the original decisions in the Channel Islands MPA or MLPA Initiative planning processes to justify moving forward with the proposed change. See Question 10a of Attachment 1 for CDFW Feasibility Guidelines.

> ### **QUESTION 10B:** IF NOT, IS THERE A RATIONALE FOR MOVING FORWARD WITH THE PROPOSED CHANGE OR AN ALTERNATIVE THAT COULD MEET THE INTENT BUT BETTER ALIGN WITH FEASIBILITY GUIDELINES?
>
> **Not Applicable.**

QUESTION 11: DOES THE PROPOSED CHANGE MAINTAIN OR IMPROVE ENFORCEABILITY OF MPA REGULATIONS?

Yes. The proposed change maintains (and may enhance) enforceability of MPA regulations by aligning the proposed expansion with an existing boundary line, which is consistent with CDFW Feasibility Guidelines for MPA design. Over time, following significant outreach and engagement regarding the proposed change, enforceability may even be enhanced by removing the existing hanging corner in this MPA's design. However, it is important to note that the existing boundaries comply with Feasibility Guidelines by aligning with whole minutes of latitude and longitude, and enforcement concerns have not been highlighted for this MPA.

QUESTION 12: DOES THE PROPOSED CHANGE SIMPLIFY REGULATORY LANGUAGE OR ENHANCE PUBLIC UNDERSTANDING WITHOUT CHANGING THE INTENT OF THE MPA?

No. The proposed change does not simplify regulatory language.

QUESTION 13: DOES THE PROPOSED CHANGE MAINTAIN OR ENHANCE PROTECTION OF MARINE RESOURCES?

Yes. The proposed expansion would protect an additional distance of 2.59 linear miles of kelp, 2.41 linear miles of beach, and 1.72 linear miles of rocky intertidal, as well as additional area of hard and soft bottom habitats at a range of depths (Table 4). This has the potential to provide local protection for habitats and species within the newly expanded area. However, the MPA was designed to protect sufficient area of these habitats such that the MPA already contributes to replication for each of these key habitats.

Furthermore, although the petitioner's intent is to increase protections for kelp forest habitat within MPAs, it is uncertain whether the proposed expansion would produce the kelp resiliency benefits anticipated by the petitioner. While MPAs may indirectly support kelp, they are not considered the best available management tool at this time, especially when the drivers behind the current decline are systemic rather than location specific. Considering this, insufficient evidence has been provided to justify the expansion of this MPA for the purpose of supporting kelp persistence or recovery.

QUESTION 14: DOES THE PROPOSED CHANGE PROVIDE MORE EQUITABLE ACCESS OPPORTUNITIES (E.G., FISHING, EDUCATIONAL, AND/OR OTHER RECREATIONAL OPPORTUNITIES) FOR TRADITIONALLY UNDERSERVED OR MARGINALIZED COMMUNITIES?

See Question 14 of Attachment 1.

QUESTION 15: DOES THE PROPOSED CHANGE HAVE THE POTENTIAL TO AFFECT CONSUMPTIVE AND/OR NON-CONSUMPTIVE ACTIVITIES? IF SO, HOW?

Yes. The proposed change has the potential to affect both consumptive and non-consumptive activities.

Expanding the SMR could negatively impact consumptive uses, with significant impacts expected for the commercial lobster fishery. This area is also particularly important for the commercial squid fleet (Fig. 2), CPFVs operating out of Santa Barbara, Channel Islands, and Ventura Harbors, and both recreational and commercial highly migratory species fishing. The gillnet fleet may also be adversely impacted.

As stated above (see Question 7), this area was considered for inclusion during the Channel Islands MPA planning process but was ultimately excluded due to its high value to the commercial squid fleet and the request to maintain access to Posa Anchorage.

This MPA is not easily accessible to the public, and the proposed expansion would not readily increase accessibility for non-consumptive users. Regarding research and study opportunities, there do not appear to be any long-term monitoring sites within the boundaries of the proposed expansion.

QUESTION 16: IS THE PROPOSED CHANGE CONSISTENT WITH CFGC JUSTICE, EQUITY, DIVERSITY AND INCLUSION POLICY?

See Question 16 of Attachment 1.

QUESTION 17: IS THE PROPOSED CHANGE CONSISTENT WITH CFGC COASTAL FISHING COMMUNITIES POLICY?

The following analysis was prepared by CFGC staff. See Question 17 of Attachment 1 for additional context on CFGC's response.

The proposed change would reduce fishing access and add more regulatory burdens, particularly for fishing participants associated with the coastal fishing community of Santa Barbara (~29 nm away from area of proposed change).

QUESTION 18: DOES THE PROPOSED CHANGE INTERACT WITH OR HAVE THE POTENTIAL TO AFFECT PROPOSED CHANGES IN OTHER 2023 MPA PETITIONS?

Yes. This petition has the potential to interact with Petition 2023-15MPA, where the petitioner is proposing to reclassify Gull Island SMR as an SMCA to modify take regulations. These petitions may be in conflict, since the present petitioner aims to enhance ecological protections and redesignation to an SMCA would reduce protection.

2023-33MPA_5: Expand Point Conception SMR eastward by 14.6 sq mi.

QUESTION 1: DOES THE PROPOSED CHANGE SUPPORT THE MPA NETWORK IN MEETING ONE OR MORE OF THE MLPA GOALS AND ALIGN WITH MPA MASTER PLAN ADAPTIVE MANAGEMENT OBJECTIVES?

No. The MLPA Goals and Master Plan objectives are inextricably linked and act as the foundational tools that CDFW utilizes for effective adaptive management of the MPA Network. Individual MPAs in the Network were not necessarily designed to address all six Goals of the MLPA but instead act as an important component of a functioning Network that was designed to holistically address the MLPA Goals as a whole. As such, CDFW has evaluated this action within the broader adaptive management framework and how the proposed action may or may not align with the MLPA Goals/Master Plan objectives and advance MPA Network management. See Question 1 of Attachment 1 for the MLPA Goals and Master Plan objectives.

The petitioner asserts that the proposed MPA would align with Goals 1-4, which address preserving natural diversity and marine natural heritage, protecting marine populations and habitats, improving recreational opportunities, and protecting representative habitats for their intrinsic value. However, within the broader adaptive management framework for the statewide MPA Network, it is not evident that expanding Point Conception SMR, which was deliberately developed during the MLPA Initiative planning process to contribute to all six MLPA Goals, would advance Network-level management.

Point Conception SMR was specifically designed to protect marine life populations and habitats (Goals 1-2). Monitoring results pooled across habitats from 2019-2020 show a significant positive MPA effect on fish biomass in the southern bioregion, indicating that MPAs are performing as expected (Smith et al. 2025).

Point Conception SMR also contributes to habitat replication goals developed during the planning process (Goal 4). The SMR protects multiple key habitats, including kelp, which is the overarching purpose of the petition. The proposed expansion would enable the MPA to meet replication goals for only one additional key habitat (hard substrate, 0-30 m depth). The MPA already protects the amount of area necessary to encompass 90% of the associated species diversity in seven other key habitats. Therefore, protecting additional hard substrate may yield only nominal ecological benefit while potentially imposing disproportionate impacts on other users. Therefore, the proposed expansion introduces socioeconomic impacts without evidence of ecological benefit and undermines the balance established during the planning process.

This relates directly to Goals 3, 5, and 6. The existing Point Conception SMR was designed not only to meet ecological goals but also to enhance cultural, recreational, and educational uses (Goal 3), minimizes negative socioeconomic impacts while optimizing positive ones for all users (Goal 5), and reflects the rigorous, science-based, stakeholder-driven planning process that underpins the statewide Network (Goal 6). This deliberate balance reflects the carefully considered tradeoffs made during the MLPA Initiative planning process.

The proposed expansion would compromise this balance. Expanding boundaries without clear scientific justification does not advance Goals 1, 2, or 4, and introduces new conflicts with Goals 3, 5, and 6 by discounting prior planning decisions, imposing socioeconomic impacts, and relying on inconclusive evidence that the additional protected area will deliver the kelp-related benefits anticipated by the petitioner.

Therefore, while the petitioner asserts alignment with MLPA Goals, the proposed expansion would not clearly advance MPA management or performance objectives, and in some cases, may even undermine them.

QUESTION 2A: DOES THE PROPOSED CHANGE ADVANCE ADAPTIVE MANAGEMENT RECOMMENDATIONS IN THE DECADAL MANAGEMENT REVIEW?

No. The proposed change does not advance adaptive management recommendations from the DMR (CDFW 2022). See Question 2a of Attachment 1 for the DMR and DMR Recommendations.

QUESTION 2B: IF NOT, DOES THE PROPOSED CHANGE ADDRESS A CURRENT OR EMERGING MPA MANAGEMENT CHALLENGE?

No. The petitioner cites climate-related declines in kelp forests as justification for expanding the SMR, suggesting that increasing the amount of protected kelp habitat and removing direct human impacts would help conserve remaining kelp canopy and improve restoration potential. While kelp forests are highly valuable and their decline since MPA implementation is a significant management concern, it is not clear that this issue represents an MPA-specific management challenge, nor one best addressed by expanding MPA boundaries, particularly without evidence of place-based mechanisms or drivers linked to kelp persistence.

Although climate change was not explicitly incorporated into the original MLPA Initiative planning process, the ecological principles underlying Network design, such as larval connectivity and habitat replication, support both ecological and climate resilience. Indeed, MPAs in California have been shown to support larger, older, and more abundant marine populations that are more resilient to

disturbances (CDFW 2022). Still, the extent to which these ecological benefits translate into improved resistance or adaptation to climate-driven impacts on kelp remains uncertain, and the magnitude of any such benefit is likely highly spatiotemporally variable. More research is needed to determine the factors that contribute to kelp forest resilience in the context of climate change and how best to mitigate impacts. If warming ocean temperatures are the primary driver of kelp decline in California, expanding MPA boundaries alone is unlikely to provide significant benefits.

Given these uncertainties, pursuing a substantial boundary expansion without stronger scientific basis and a coordinated management strategy would be premature. Currently, the proposed eastward expansion of Point Conception SMR does not clearly address a demonstrated MPA management challenge, nor is it evident that expanding the SMR is the appropriate tool for addressing broader kelp management concerns in California. The forthcoming KRMP will provide the comprehensive strategy to guide future kelp management decisions statewide.

QUESTION 3: DOES THE PROPOSED CHANGE HAVE THE POTENTIAL TO AFFECT EXISTING CFGC NON-MPA REGULATIONS, PERMITS, OR LEASES (E.G., KELP LEASES, AQUACULTURE LEASES, EXPERIMENTAL FISHING PERMITS)?

Yes. The proposed expansion of this MPA overlaps significantly with Administrative Kelp Bed 32, which is leasable. Commercial kelp can be harvested within leasable kelp beds until a lease is obtained for the bed, at which time the bed can only be harvested by the lease holder. Commercial kelp harvest was last reported in this bed in 2019. CFGC approved a kelp harvest plan to mechanically harvest kelp in this bed, but implementation of the proposed expansion would encompass almost the entire bed, effectively rendering it no take.

The proposed change also has the potential to impact four existing EFPs: EFPT2-001 (Dungeness crab/hagfish/rock crab), EFPT2-002 Dungeness crab/rock crab (spot prawn), EFPT2-004 (Dungeness crab), EFPT4-001 (box crab/king crab).

QUESTION 4: DOES THE PROPOSED CHANGE HAVE THE POTENTIAL TO AFFECT EXISTING REGULATIONS, PERMITS, LEASES, OR MANAGEMENT ACTIVITIES OF ANY OTHER AGENCY OR ENTITY?

Yes. The MPA is inside the Chumash Heritage National Marine Sanctuary, which is federally administered by NOAA and co-managed with tribes. Implementation of the proposed change would require consultation and coordination with federal and tribal authorities and may interact with their management activities. CDFW would need to work

with NOAA and tribes on coordinated enforcement, updates to signage, and outreach efforts.

This list may not be exhaustive. The proposed change may have the potential to affect existing regulations, permits, leases, or management activities of Tribal governments, other agencies, and entities not identified here.

QUESTION 5: ARE THERE SIGNIFICANT INFORMATION GAPS THAT NEED TO BE FILLED TO INFORM THE EVALUATION OF THE PROPOSED CHANGE?

Yes. When evaluating this petition, CDFW reviewed the information in the petition, as well as information including, but not limited to:

- MLPA Planning documents and related information (e.g., MLPA Goals and MPA Master Plan adaptive management objectives),
- Existing science pertaining to kelp recovery in MPAs,
- Long-term monitoring data related to kelp in MPAs,
- Satellite (1984-2023; Bell et al. 2025) and flyover (2002-06; 2008-10; 2013-16; CDFW 2024) mapping of statewide kelp canopy coverage, and
- Commercial and recreational fishing data.

CDFW has identified information gaps that limit the ability to fully evaluate the proposed change. Key information gaps include:

- Direct evidence of a place-based need linking kelp declines to specific driver(s) at this location,
- Consideration of socioeconomic and tribal interests and how these will be factored into the decision-making process with respect to kelp management at this location, and
- A statewide assessment of kelp restoration and recovery tools developed through the KRMP.

While important management concerns related to kelp recovery and restoration are raised in the petition, the petitioner did not present sufficient information to justify the proposed change as the appropriate solution.

Long-term MPA monitoring data indicate we have early, though inconsistent, evidence that MPAs may enhance resilience to climate change and other disturbances for ecosystems within their borders. Continued, consistent monitoring is necessary to determine which factors are most influential in supporting kelp recovery and resilience and how these factors vary regionally.

QUESTION 6: ARE THERE SIGNIFICANT MANAGEMENT GAPS THAT NEED TO BE FILLED TO INFORM THE EVALUATION OF THE PROPOSED CHANGE?

Yes. The forthcoming KRMP is the crucial management framework to have in place before considering MPA regulatory changes aimed at protecting kelp.

QUESTION 7A: WAS THE PROPOSED CHANGE CONSIDERED DURING THE MLPA INITIATIVE PLANNING PROCESS OR THE IMPLEMENTATION PROCESS OF MPAS AROUND THE NORTHERN CHANNEL ISLANDS?

Yes. Expanded eastward boundaries were considered during the MLPA Initiative planning process, but none included an eastern boundary extending as far east as the current proposal (MLPA 2009b), and were deliberately not retained by the BRTF and CFGC. A proposal with an eastern boundary aligned with 120 25' W, was ultimately chosen to balance conservation and consumptive priorities.

QUESTION 7B: IS THERE NEW INFORMATION AVAILABLE, CHANGING CONDITIONS SINCE THE MLPA IMPLEMENTATION PHASE, AND/OR INFORMATION PRESENTED IN THE DMR THAT WARRANTS REEVALUATION OF THE PROPOSED CHANGE?

No. The petitioner cites new analyses identifying California kelp beds that may be more resilient to disturbance, as well as recent scientific literature investigating the effects of MPA protection on kelp forests. Additionally, several recent studies highlight enhanced kelp resilience within MPAs in the South oast in particular. However, a broad view of the best available science does not indicate consistent or reliable benefits to kelp resulting from MPA protection. As a result, there is not sufficient evidence to support the proposed change as an effective solution. Without direct, location-specific links between drivers and kelp persistence or decline, expanding MPAs for kelp recovery is unlikely to have a biologically meaningful impact on kelp and might unnecessarily restrict more effective restoration activities in the process.

Local drivers of kelp persistence and resilience need to be identified first, and management actions must be tailored to address those drivers. Therefore, pursuing this change ahead of additional long-term data collection and the KRMP, which will provide the essential management framework to guide future kelp management decisions, would be premature.

Therefore, while large-scale kelp declines and the occurrence of climate change-related disturbances do indicate changing conditions since the implementation phase, the petitioner did not provide sufficient evidence to warrant revisiting this decision.

QUESTION 8: IF THE PROPOSED CHANGE AFFECTS AN EXISTING MPA, DOES THE PROPOSED CHANGE ALIGN WITH THE ORIGINAL INTENT OF THE MPA IDENTIFIED DURING THE MLPA INITIATIVE PLANNING PROCESS OR THE IMPLEMENTATION PROCESS OF MPAS AROUND THE NORTHERN CHANNEL ISLANDS?

Yes. The proposed change aligns with the original intent of the MPA identified during the MLPA Initiative planning process, in that it would increase the amount protected of several key habitats, such as kelp, beach, rocky intertidal, and both soft and hard bottom habitat at a range of depths (Table 5). However, the MPA was deliberately designed during the planning process to encompass sufficient area of these key habitats to meet habitat replication goals. Therefore, the proposed expansion would not advance these goals beyond what the existing design already achieves. The proposed expansion would add sufficient area of nearshore hard bottom habitat to contribute to replication of this habitat, but this is incidental to the stated objectives of the petition. Furthermore, the expansion conflicts with compromises made during the MLPA Initiative planning process to optimize multiple, sometimes competing, priorities.

QUESTION 9: DOES THE PROPOSED CHANGE IMPROVE INDIVIDUAL MPA OR MPA NETWORK DESIGN SO THAT IT BETTER ALIGNS WITH OR MEETS THE MPA SCIENCE GUIDELINES?

Yes. The MLPA requires that the design of individual MPAs and the statewide Network be based on the best readily available science and that MPAs be of adequate size, number, protection level, and location to meet MLPA Goals. The science guidelines developed by the Science Advisory Team and outlined in the Master Plan were created specifically to provide this scientific foundation and serve as the starting point for evaluating alternative MPA proposals. Alignment with these guidelines depends on LOP, which is determined by allowed take, and spatial configuration. More specifically, these guidelines require that an MPA must be at least 9 square miles and meet one of the three highest LOPs (i.e., Very High, High, or Moderate-high) to contribute to ecological goals such as habitat replication and representation.

Point Conception SMR currently meets both minimum criteria and thus contributes to foundational ecological Network objectives, including replication and representation of kelp, beach, rocky intertidal, hard bottom (30-100 m depth zone), and soft bottom (0-30, 30-100, and 100-200 m depth zones) habitats (Table 5). Shifting the SMR boundary east as proposed would increase the area of these habitats within the MPA, which would improve the design of the individual MPA. However, because the MPA already meets the area thresholds for these habitats, the extent to which this additional habitat area would provide further ecological benefit is uncertain.

The expansion would also add enough nearshore hard bottom habitat to the SMR to meet the minimum area threshold for this habitat type, thereby enabling it to contribute

to replication goals for an additional key habitat. Although current spacing (approximately 31 miles) is already within the recommended maximum distance of 62 miles, the expansion would further reduce spacing between replicates of this habitat type. In this respect, the proposed change would improve MPA Network design and enhance alignment with Science Guidelines. See Question 9 of Attachment 1 for the MLPA Science Guidelines and additional context.

QUESTION 10A: DOES THE PROPOSED CHANGE ALIGN WITH CDFW FEASIBILITY GUIDELINES?

No. The proposed change would not align with the following Feasibility Guidelines: the proposed boundary is not described using readily determined lines of latitude and longitude or easily recognizable permanent landmarks. See Question 10a of Attachment 1 for CDFW Feasibility Guidelines.

QUESTION 10B: IF NOT, IS THERE A RATIONALE FOR MOVING FORWARD WITH THE PROPOSED CHANGE OR AN ALTERNATIVE THAT COULD MEET THE INTENT BUT BETTER ALIGN WITH FEASIBILITY GUIDELINES?

No. There is no rationale for moving forward with the proposed change or an alternative that better aligns with the Feasibility Guidelines.

QUESTION 11: DOES THE PROPOSED CHANGE MAINTAIN OR IMPROVE ENFORCEABILITY OF MPA REGULATIONS?

No. The proposed eastern boundary is not aligned with readily determinable lines of latitude and longitude or easily recognizable permanent landmarks, which could complicate enforcement of this MPA.

QUESTION 12: DOES THE PROPOSED CHANGE SIMPLIFY REGULATORY LANGUAGE OR ENHANCE PUBLIC UNDERSTANDING WITHOUT CHANGING THE INTENT OF THE MPA?

No. The proposed change does not simplify regulatory language.

QUESTION 13: DOES THE PROPOSED CHANGE MAINTAIN OR ENHANCE PROTECTION OF MARINE RESOURCES?

Yes. The proposed expansion would protect an additional distance of 4.20 linear miles of kelp, 3.61 linear miles of beach, and 2.75 linear miles of rocky intertidal, as well as additional area of hard and soft bottom habitats at a range of depths (Table 5). This has the potential to provide local protection for habitats and species within the newly expanded area. However, the MPA as designed already protects sufficient area to contribute towards replication of all but one of these habitats (i.e., nearshore hard substrate).

The proposed expansion would add sufficient nearshore hard bottom habitat for the MPA to meet replication criteria for this habitat, which is important for kelp. However, this MPA already encompasses sufficient kelp to contribute to replication objectives. Furthermore, the petition does not improve MPA Network design related to nearshore bottom habitat, nor is improving replication of this habitat a stated objective of the petition. As such, the additional habitat protection would not meaningfully improve the design of the MPA or the MPA Network, or advance adaptive management recommendations from the DMR.

Furthermore, although the petitioner's intent is to increase protections for kelp forest habitat within MPAs, it is uncertain whether the proposed expansion would produce the kelp resiliency benefits anticipated by the petitioner. While MPAs may indirectly support kelp, they are not considered the best available management tool at this time, especially when the drivers behind the current decline are systemic rather than location specific. Considering this, insufficient evidence has been provided to justify the expansion of this MPA for the purpose of supporting kelp persistence or recovery.

QUESTION 14: DOES THE PROPOSED CHANGE PROVIDE MORE EQUITABLE ACCESS OPPORTUNITIES (E.G., FISHING, EDUCATIONAL, AND/OR OTHER RECREATIONAL OPPORTUNITIES) FOR TRADITIONALLY UNDERSERVED OR MARGINALIZED COMMUNITIES?

See Question 14 of Attachment 1.

QUESTION 15: DOES THE PROPOSED CHANGE HAVE THE POTENTIAL TO AFFECT CONSUMPTIVE AND/OR NON-CONSUMPTIVE ACTIVITIES? IF SO, HOW?

Yes. The proposed change has the potential to affect both consumptive and non-consumptive activities.

Expanding the SMR could negatively impact consumptive uses, with particularly significant impacts to the squid fleet (Fig. 2). The expansion also has the potential to adversely impact commercial fishing for nearshore groundfish.

As stated above (see Question 7), this area was considered for inclusion in the MPA Network during the planning process but was ultimately excluded due to its high importance to commercial and recreational fisheries. Those same considerations remain relevant and indicate that the proposed change would have substantial effects on existing consumptive uses of the area.

This MPA is not readily accessible to the public. The proposed expansion does not add any nearby coastal access points but does place the eastern boundary approximately four miles closer to the nearest boat launches in Gaviota State Park and Goleta Beach County Park and the nearest harbor in Santa Barbara. This could benefit non-consumptive users. Regarding research and study opportunities, there are long-term

monitoring sites within the boundaries of the proposed expansion (e.g., shallow and deep rocky reef habitats). The proposed SMR expansion would subsume current non-MPA reference sites within the SMR's No-take boundaries, impacting the experimental design for these MPA monitoring groups and their long-term studies.

QUESTION 16: IS THE PROPOSED CHANGE CONSISTENT WITH CFGC JUSTICE, EQUITY, DIVERSITY AND INCLUSION POLICY?

See Question 16 of Attachment 1.

QUESTION 17: IS THE PROPOSED CHANGE CONSISTENT WITH CFGC COASTAL FISHING COMMUNITIES POLICY?

The following analysis was prepared by CFGC staff. See Question 17 of Attachment 1 for additional context on CFGC's response.

The proposed change would reduce fishing access and add more regulatory burdens, particularly for fishing participants associated with the coastal fishing community of Santa Barbara (~45 nm away from area of proposed change).

QUESTION 18: DOES THE PROPOSED CHANGE INTERACT WITH OR HAVE THE POTENTIAL TO AFFECT PROPOSED CHANGES IN OTHER 2023 MPA PETITIONS?

No. There are no potential interactions or effects on any of the other 2023 MPA petitions.

2023-33MPA_6_AM1: Expand Natural Bridges SMR southward and eastward to the edge of Natural Bridges State Beach by ~14.5 sq mi.

QUESTION 1: DOES THE PROPOSED CHANGE SUPPORT THE MPA NETWORK IN MEETING ONE OR MORE OF THE MLPA GOALS AND ALIGN WITH MPA MASTER PLAN ADAPTIVE MANAGEMENT OBJECTIVES?

No. The MLPA Goals and Master Plan objectives are inextricably linked and act as the foundational tools that CDFW utilizes for effective adaptive management of the MPA Network. Individual MPAs in the Network were not necessarily designed to address all six Goals of the MLPA but instead act as an important component of a functioning Network that was designed to holistically address the MLPA Goals as a whole. As such, CDFW has evaluated this action within the broader adaptive management framework and how the proposed action may or may not align with the MLPA Goals/Master Plan objectives and advance MPA Network management. See Question 1 of Attachment 1 for the MLPA Goals and Master Plan objectives.

The petitioner asserts that the proposed MPA would align with Goals 1-4, which address preserving natural diversity and marine natural heritage, protecting marine populations and habitats, improving recreational opportunities, and protecting representative habitats for their intrinsic value. However, within the broader adaptive management framework for the statewide MPA Network, it is not evident that expanding Natural Bridges SMR would advance Network-level management.

Natural Bridges SMR was deliberately designed during the MLPA Initiative planning process to contribute to Goals 1, 2, 3, and 4. Although the proposed expansion of Natural Bridges SMR appears to enhance existing ecological protections consistent with Goals 1, 2, and 4, this proposed action is not consistent with the petitioner's stated purpose, which is to protect persistent kelp patches. Extending the MPA boundary out to the 3 nm limit is not necessary to achieve this, as kelp only grows within the shallow photic zone. Available observations from the area around Natural Bridges SMR indicate kelp does not occur within the proposed offshore addition beyond approximately 0.4 miles (0.35 nm) from shore. As a result, the proposed expansion is not well aligned with its stated conservation purpose.

Furthermore, potential ecological gains must be weighed against other MLPA Goals. The MPA Network was intentionally designed to balance conservation benefits with the needs of coastal communities and diverse ocean users, including fisheries (Goal 3). During the planning process, the site-specific rationale (Goal 5) resulted in Natural Bridges SMR boundaries deliberately drawn to protect rocky intertidal and nearshore habitats, including kelp forest, while minimizing impacts on productive nearby and offshore fishing grounds. These tradeoffs were a core component of the science-based, stakeholder-driven process that established, and continues to guide, management of California's MPA Network (Goal 6). Advancing major MPA boundary changes through isolated petitions is inconsistent with that approach.

Therefore, while the petitioner asserts alignment with MLPA Goals, the proposed expansion would not clearly advance MPA management or performance objectives, and in some cases, may even undermine them.

QUESTION 2A: DOES THE PROPOSED CHANGE ADVANCE ADAPTIVE MANAGEMENT RECOMMENDATIONS IN THE DECADAL MANAGEMENT REVIEW?

No. The proposed change does not advance adaptive management recommendations from the DMR (CDFW 2022). See Question 2a of Attachment 1 for the DMR and DMR Recommendations.

QUESTION 2B: IF NOT, DOES THE PROPOSED CHANGE ADDRESS A CURRENT OR EMERGING MPA MANAGEMENT CHALLENGE?

No. The petitioner cites climate-related declines in kelp forests as justification for expanding the SMR, suggesting that increasing the amount of protected kelp habitat and removing direct human impacts would help conserve remaining kelp canopy and improve restoration potential. While kelp forests are highly valuable and their decline since MPA implementation is a significant management concern, it is not clear that this issue represents an MPA-specific management challenge, nor one best addressed by expanding MPA boundaries, particularly without evidence of place-based mechanisms or drivers linked to kelp persistence.

Although climate change was not explicitly incorporated into the original MLPA Initiative planning process, the ecological principles underlying Network design, such as larval connectivity and habitat replication, support both ecological and climate resilience. Indeed, MPAs in California have been shown to support larger, older, and more abundant marine populations that are more resilient to disturbances (CDFW 2022). Still, the extent to which these ecological benefits translate into improved resistance or adaptation to climate-driven impacts on kelp remains uncertain, and the magnitude of any such benefit is likely highly spatiotemporally variable. More research is needed to determine the factors that contribute to kelp forest resilience in the context of climate change and how best to mitigate impacts. If warming ocean temperatures are the primary driver of kelp decline in California, expanding MPA boundaries alone is unlikely to provide significant benefits.

Given these uncertainties, pursuing a substantial boundary expansion without stronger scientific basis and a coordinated management strategy would be premature. Currently, the proposed southward and eastward expansion of Natural Bridges SMR does not clearly address a demonstrated MPA management challenge, nor is it evident that expanding the SMR is the appropriate tool for addressing broader kelp management concerns in California. The forthcoming KRMP will provide the comprehensive strategy to guide future kelp management decisions statewide.

QUESTION 3: DOES THE PROPOSED CHANGE HAVE THE POTENTIAL TO AFFECT EXISTING CFGC NON-MPA REGULATIONS, PERMITS, OR LEASES (E.G., KELP LEASES, AQUACULTURE LEASES, EXPERIMENTAL FISHING PERMITS)?

Yes. The proposed MPA significantly overlaps with Administrative Kelp Bed 222, which is open. Open kelp beds are available to commercial kelp harvest and leases cannot be

issued. Implementation of the proposed expansion would encompass almost the entire bed, effectively rendering it no take. Commercial kelp harvest was last reported in this bed in 2019. Additional seasonal restrictions are set by Monterey Bay National Marine Sanctuary (MBNMS).

The proposed change also has the potential to impact four existing EFPs: EFPT2-001 (Dungeness crab/hagfish/rock crab), EFPT2-002 Dungeness crab/rock crab (spot prawn), EFPT2-004 (Dungeness crab), and EFPT4-001 (box crab/king crab).

QUESTION 4: DOES THE PROPOSED CHANGE HAVE THE POTENTIAL TO AFFECT EXISTING REGULATIONS, PERMITS, LEASES, OR MANAGEMENT ACTIVITIES OF ANY OTHER AGENCY OR ENTITY?

Yes. The MPA is inside the MBNMS, which is federally administered by NOAA. Implementation of the proposed change would require consultation and coordination with federal authorities and may interact with their management activities. CDFW would need to work with NOAA on coordinated enforcement, updates to signage, and outreach efforts.

There are active leases authorized by the State Lands Commission within the proposed boundaries that may be affected by the proposed change. It is unclear whether the proposed change would have direct effects on the State Lands Commission's management activities.

The MPA is adjacent to Natural Bridges State Beach. If the proposed change was implemented, CDFW would need to work with the Department of Parks and Recreation on coordinated enforcement, updates to signage, and outreach efforts.

This list may not be exhaustive. The proposed change may have the potential to affect existing regulations, permits, leases, or management activities of Tribal governments, other agencies, and entities not identified here.

QUESTION 5: ARE THERE SIGNIFICANT INFORMATION GAPS THAT NEED TO BE FILLED TO INFORM THE EVALUATION OF THE PROPOSED CHANGE?

Yes. When evaluating this petition, CDFW reviewed the information in the petition, as well as information including, but not limited to:

- MLPA Planning documents and related information (e.g., MLPA Goals and MPA Master Plan adaptive management objectives),
- Existing science pertaining to kelp recovery in MPAs,
- Long-term monitoring data related to kelp in MPAs,

- Satellite (1984-2023; Bell et al. 2025) and flyover (2002-06; 2008-10; 2013-16; CDFW 2024) mapping of statewide kelp canopy coverage, and
- Commercial and recreational fishing data.

CDFW has identified information gaps that limit the ability to fully evaluate the proposed change. Key information gaps include:

- Direct evidence of a place-based need linking kelp declines to specific driver(s) at this location,
- Consideration of socioeconomic and tribal interests and how these will be factored into the decision-making process with respect to kelp management at this location, and
- A statewide assessment of kelp restoration and recovery tools developed through the KRMP.

While important management concerns related to kelp recovery and restoration are raised in the petition, the petitioner did not present sufficient information to justify the proposed change as the appropriate solution.

Long-term MPA monitoring data indicate we have early, though inconsistent, evidence that MPAs may enhance resilience to climate change and other disturbances for ecosystems within their borders. Continued, consistent monitoring is necessary to determine which factors are most influential in supporting kelp recovery and resilience and how these factors vary regionally.

QUESTION 6: ARE THERE SIGNIFICANT MANAGEMENT GAPS THAT NEED TO BE FILLED TO INFORM THE EVALUATION OF THE PROPOSED CHANGE?

Yes. The forthcoming KRMP is the crucial management framework to have in place before considering MPA regulatory changes aimed at protecting kelp.

QUESTION 7A: WAS THE PROPOSED CHANGE CONSIDERED DURING THE MLPA INITIATIVE PLANNING PROCESS OR THE IMPLEMENTATION PROCESS OF MPAS AROUND THE NORTHERN CHANNEL ISLANDS?

Yes. Other configurations for Natural Bridges SMR were initially considered in the Natural Bridges area in early phases of planning and design in the Central Coast region. Several of the proposals included an intertidal SMR similar to what was ultimately implemented. One proposal included a small nearshore SMR surrounded by a large SMCA. An additional proposal included an SMR slightly north towards Davenport that extended to the 3 nm limit of state waters. Subsequent rounds of proposals included only configurations that protected the intertidal zone (MLPA 2006). An SMR that extended to

greater depths near Santa Cruz Harbor was explicitly excluded to avoid negative socioeconomic impacts to those fishing in deeper offshore waters.

QUESTION 7B: IS THERE NEW INFORMATION AVAILABLE, CHANGING CONDITIONS SINCE THE MLPA IMPLEMENTATION PHASE, AND/OR INFORMATION PRESENTED IN THE DMR THAT WARRANTS REEVALUATION OF THE PROPOSED CHANGE?

No. The petitioner cites new analyses identifying California kelp beds that may be more resilient to disturbance, as well as recent scientific literature investigating the effects of MPA protection on kelp forests. Additionally, several recent studies highlight enhanced kelp resilience within MPAs in the South Coast in particular. However, a broad view of the best available science does not indicate consistent or reliable benefits to kelp resulting from MPA protection. As a result, there is not sufficient evidence to support the proposed change as an effective solution. Without direct, location-specific links between drivers and kelp persistence or decline, expanding MPAs for kelp recovery is unlikely to have a biologically meaningful impact on kelp and might unnecessarily restrict more effective restoration activities in the process.

Local drivers of kelp persistence and resilience need to be identified first, and management actions must be tailored to address those drivers. Therefore, pursuing this change ahead of additional long-term data collection and the KRMP, which will provide the essential management framework to guide future kelp management decisions, would be premature.

Therefore, while large-scale kelp declines and the occurrence of climate change-related disturbances do indicate changing conditions since the implementation phase, the petitioner did not provide sufficient evidence to warrant revisiting this decision.

QUESTION 8: IF THE PROPOSED CHANGE AFFECTS AN EXISTING MPA, DOES THE PROPOSED CHANGE ALIGN WITH THE ORIGINAL INTENT OF THE MPA IDENTIFIED DURING THE MLPA INITIATIVE PLANNING PROCESS OR THE IMPLEMENTATION PROCESS OF MPAS AROUND THE NORTHERN CHANNEL ISLANDS?

No. The proposed change does not align with the original intent of the MPA identified during the MLPA Initiative planning process. The SMR was designed specifically to protect intertidal and nearshore habitat while minimizing impacts to consumptive activities near Santa Cruz harbor (MLPA 2006). The proposed boundaries extend far beyond the habitats the MPA was specifically designed to protect and would likely produce significant negative socioeconomic impacts. This conflicts with deliberate decisions

made during the MLPA Initiative planning process to optimize multiple, sometimes competing, priorities.

QUESTION 9: DOES THE PROPOSED CHANGE IMPROVE INDIVIDUAL MPA OR MPA NETWORK DESIGN SO THAT IT BETTER ALIGNS WITH OR MEETS THE MPA SCIENCE GUIDELINES?

Yes. The MLPA requires that the design of individual MPAs and the statewide Network be based on the best readily available science and that MPAs be of adequate size, number, protection level, and location to meet MLPA Goals. The science guidelines developed by the Science Advisory Team and outlined in the Master Plan were created specifically to provide this scientific foundation and serve as the starting point for evaluating alternative MPA proposals. Alignment with these guidelines depends on LOP, which is determined by allowed take, and spatial configuration. More specifically, these guidelines require that an MPA must be at least 9 square miles and meet one of the three highest LOPs (i.e., Very High, High, or Moderate-high) to contribute to ecological goals such as habitat replication and representation.

Natural Bridges SMR is 0.25 square miles with a Very High LOP and therefore meets the LOP, but not the size, guideline (Table 6). Expanding the SMR as proposed would increase its area above the size threshold, allowing it to meet both criteria. The expanded MPA would be large enough to contribute to replication and representation of kelp, beach, rocky intertidal, hard bottom (0-30 m depth zone), and soft bottom (0-30 and 30-100 m depth zone) habitats. Additionally, spacing would be reduced between replicates of each of these habitats. This is most notable for soft bottom habitats in the 30-100 m depth zone, for which the distance between the nearest existing replicates currently exceeds the recommended maximum of 62 miles. This spacing guideline would be met if the SMR were expanded. Therefore, increasing the SMR's area would strengthen its contribution to foundational Network ecological goals and enhance alignment with Science Guidelines. See Question 9 of Attachment 1 for the MLPA Science Guidelines and additional context.

QUESTION 10A: DOES THE PROPOSED CHANGE ALIGN WITH CDFW FEASIBILITY GUIDELINES?

No. The proposed change would not align with the following Feasibility Guidelines: extending the MPA to the 3 nm state water limit results in a hanging corner due to the delineation of state waters offshore Monterey Bay. See Question 10a of Attachment 1 for CDFW Feasibility Guidelines.

QUESTION 10B: IF NOT, IS THERE A RATIONALE FOR MOVING FORWARD WITH THE PROPOSED CHANGE OR AN ALTERNATIVE THAT COULD MEET THE INTENT BUT BETTER ALIGN WITH FEASIBILITY GUIDELINES?

No. There is no rationale for moving forward with the proposed change or an alternative that better aligns with the Feasibility Guidelines.

QUESTION 11: DOES THE PROPOSED CHANGE MAINTAIN OR IMPROVE ENFORCEABILITY OF MPA REGULATIONS?

No. The southward expansion offshore compromises enforceability. While offshore boundaries should extend from the shoreline to the 3 nm state water limit, as recommended by CDFW Feasibility Guidelines, doing so for this MPA creates a hanging corner that may create compliance and enforcement challenges.

QUESTION 12: DOES THE PROPOSED CHANGE SIMPLIFY REGULATORY LANGUAGE OR ENHANCE PUBLIC UNDERSTANDING WITHOUT CHANGING THE INTENT OF THE MPA?

No. The proposed change does not simplify regulatory language.

QUESTION 13: DOES THE PROPOSED CHANGE MAINTAIN OR ENHANCE PROTECTION OF MARINE RESOURCES?

Yes. The proposed change would maintain or enhance protection of marine resources by significantly increasing the area of several habitats protected within the MPA, including kelp forest, in sufficient amounts to contribute towards habitat replication. However, it is uncertain whether this would produce the kelp resiliency benefits anticipated by the petitioner. While MPAs may indirectly support kelp, they are not considered the best available management tool at this time, especially when the drivers behind the current decline are systemic rather than location specific. Considering this, insufficient evidence has been provided to justify the expansion of this MPA for the purpose of supporting kelp persistence or recovery.

QUESTION 14: DOES THE PROPOSED CHANGE PROVIDE MORE EQUITABLE ACCESS OPPORTUNITIES (E.G., FISHING, EDUCATIONAL, AND/OR OTHER RECREATIONAL OPPORTUNITIES) FOR TRADITIONALLY UNDERSERVED OR MARGINALIZED COMMUNITIES?

See Question 14 of Attachment 1.

QUESTION 15: DOES THE PROPOSED CHANGE HAVE THE POTENTIAL TO AFFECT CONSUMPTIVE AND/OR NON-CONSUMPTIVE ACTIVITIES? IF SO, HOW?

Yes. The proposed change has the potential to affect both consumptive and non-consumptive activities.

The MPA is easily accessible for both shore- and boat-based users through numerous coastal access points and the nearby Santa Cruz Harbor. Users who rely on these access points for consumptive activities would be displaced, and both recreational and commercial consumptive activities would likely experience adverse impacts. The proposed expansion lies within a broadly high-value commercial fishing block. Significant impacts to the commercial market squid fishery in particular, are expected. The area also contains highly valuable squid spawning grounds, and in 2021, the value from this single commercial fishing block was $1.3 million (Fig. 3). Impacts to the commercial nearshore groundfish fishery are also likely.

As stated above (see Question 7), this area was considered for inclusion in the MPA Network during the planning process but was ultimately excluded due to its high importance to commercial and recreational fisheries. Those same considerations remain relevant and indicate that the proposed change would have substantial effects on existing consumptive activities in the area.

Expanding this already well-visited MPA may have beneficial impacts on non-consumptive activities. Easy accessibility to this MPA, coupled with the expansion adjacent to Natural Bridges State Park, would allow continued access for non-consumptive uses. Regarding research and study opportunities, this area is frequently accessed by researchers due to the proximity to marine science campus at the University of California, Santa Cruz. Existing scientific collecting permits and research may be impacted by the restrictions associated with SMR designation. There are no long-term monitoring sites within the boundaries of the proposed expansion.

QUESTION 16: IS THE PROPOSED CHANGE CONSISTENT WITH CFGC JUSTICE, EQUITY, DIVERSITY AND INCLUSION POLICY?

See Question 16 of Attachment 1.

QUESTION 17: IS THE PROPOSED CHANGE CONSISTENT WITH CFGC COASTAL FISHING COMMUNITIES POLICY?

The following analysis was prepared by CFGC staff. See Question 17 of Attachment 1 for additional context on CFGC's response. The change would reduce fishing access and add more regulatory burdens, particularly for fishing participants associated with the coastal fishing community of Santa Cruz (~2-3 nm away from area of proposed change).

QUESTION 18: DOES THE PROPOSED CHANGE INTERACT WITH OR HAVE THE POTENTIAL TO AFFECT PROPOSED CHANGES IN OTHER 2023 MPA PETITIONS?

No. There are no potential interactions or effects on any of the other 2023 MPA petitions, though it should be noted that 2023-33MPA_7_AM1 proposes to create a new MPA less than five miles east of Natural Bridges SMR (see below).

2023-33MPA_7_AM1: Create new SMCA near Pleasure Point with allowance for recreational take from shore by hook-and-line and spearfishing.

QUESTION 1: DOES THE PROPOSED CHANGE SUPPORT THE MPA NETWORK IN MEETING ONE OR MORE OF THE MLPA GOALS AND ALIGN WITH MPA MASTER PLAN ADAPTIVE MANAGEMENT OBJECTIVES?

No. The MLPA Goals and Master Plan objectives are inextricably linked and act as the foundational tools that CDFW utilizes for effective adaptive management of the MPA Network. Individual MPAs in the Network were not necessarily designed to address all six Goals of the MLPA but instead act as an important component of a functioning Network that was designed to holistically address the MLPA Goals as a whole. As such, CDFW has evaluated this action within the broader adaptive management framework and how the proposed action may or may not align with the MLPA Goals/Master Plan objectives and advance MPA Network management. See Question 1 of Attachment 1 for the MLPA Goals and Master Plan objectives.

The petitioner asserts that the proposed MPA would align with Goals 1-4, which address preserving natural diversity and marine natural heritage, protecting marine populations and habitats, improving recreational opportunities, and protecting representative habitats for their intrinsic value. However, within the broader adaptive management framework for the statewide MPA Network, it is not evident that establishing Pleasure Point SMCA would advance Network-level management.

The stated purpose of the petition is to protect patches of kelp identified by the petitioner as being healthy and highly persistent. While this intent is theoretically aligned with MLPA Goals, the petition does not present conclusive evidence tying specific drivers of kelp resilience in this location to enhancement through MPA protection. Given the current lack of understanding about place-based drivers of kelp persistence at this location, establishing an MPA here is not scientifically justified based on protecting kelp or supporting future restoration.

Additionally, the proposed regulations allow for the take of finfish from shore, which would give the proposed MPA an LOP of Moderate-low. This conflicts with the petitioner's

stated ecological goals, such as the protection of biodiversity and ecosystem function (Goal 1) or the conservation of marine life populations (Goal 2).

The minimal LOP for the proposed MPA, coupled with the small size, precludes the achievement of Goal 4. Though the proposed MPA would indeed contain unique marine life habitats (Goal 4), such as beach and kelp forest habitats, the MPA as proposed would not meet minimum science guidelines (see response to Question 9) and therefore would not contribute to Network replication goals for these habitats.

The area near the proposed MPA includes Santa Cruz Harbor as well as several state parks and beaches and already receives high levels of visitation for a wide range of consumptive and non-consumptive recreational activities. It is unclear how establishing an MPA that, based on MPA Science Guidelines, is not expected to produce its intended ecological benefits while simultaneously removing existing recreational consumptive opportunities would meaningfully improve public enjoyment (Goal 3) at an already popular and well-used location. It is also notable that, during the planning process, Natural Bridges SMR, located less than five miles west of the proposed SMCA at Pleasure Point, was designed specifically as an intertidal SMR to avoid anticipated negative socioeconomic impacts associated with siting an SMR near Santa Cruz Harbor. Similar considerations remain relevant to this proposal, since the proposed MPA would only allow recreational fishing from shore.

The SMCA as proposed could be managed and enforced as part of the Network, but the stated objectives are not sufficient justification for the creation of a new MPA and do not appear to align with sound scientific guidelines (Goal 5).

Lastly, the MLPA Initiative planning process set a clear precedent for creating and managing California's MPAs as a cohesive Network through a long-term, robust, science-based, stakeholder-driven process (Goal 6). Establishing a new MPA through CFGC's petition process without significant scientific vetting and engagement with tribes and the public is not in line with this foundation.

QUESTION 2A: DOES THE PROPOSED CHANGE ADVANCE ADAPTIVE MANAGEMENT RECOMMENDATIONS IN THE DECADAL MANAGEMENT REVIEW?

No. The proposed change does not advance adaptive management recommendations from the DMR (CDFW 2022). See Question 2a of Attachment 1 for the DMR and DMR Recommendations.

QUESTION 2B: IF NOT, DOES THE PROPOSED CHANGE ADDRESS A CURRENT OR EMERGING MPA MANAGEMENT CHALLENGE?

No. The petitioner cites climate-related declines in kelp forests as justification for creating a new SMCA, suggesting that increasing the amount of protected kelp habitat and removing direct human impacts would help conserve remaining kelp canopy and improve restoration potential. While kelp forests are highly valuable and their decline since MPA implementation is a significant management concern, it is not clear that this issue represents an MPA-specific management challenge, nor one best addressed by expanding MPA boundaries, particularly without evidence of place-based mechanisms or drivers linked to kelp persistence.

Although climate change was not explicitly incorporated into the original MLPA Initiative planning process, the ecological principles underlying Network design, such as larval connectivity and habitat replication, support both ecological and climate resilience. Indeed, MPAs in California have been shown to support larger, older, and more abundant marine populations that are more resilient to disturbances (CDFW 2022). Still, the extent to which these ecological benefits translate into improved resistance or adaptation to climate-driven impacts on kelp remains uncertain, and the magnitude of any such benefit is likely highly spatiotemporally variable. More research is needed to determine the factors that contribute to kelp forest resilience in the context of climate change and how best to mitigate impacts. If warming ocean temperatures are the primary driver of kelp decline in California, expanding MPA boundaries alone is unlikely to provide significant benefits.

Given these uncertainties, pursuing the creation of a new MPA with the objective of protecting kelp without stronger scientific basis and a coordinated management strategy would be premature. Currently, the proposed new MPA at Pleasure Point does not clearly address a demonstrated MPA management challenge, nor is it evident that creating the MPA is the appropriate tool for addressing broader kelp management concerns in California. The forthcoming KRMP will provide a comprehensive strategy to guide future kelp management decisions statewide.

QUESTION 3: DOES THE PROPOSED CHANGE HAVE THE POTENTIAL TO AFFECT EXISTING CFGC NON-MPA REGULATIONS, PERMITS, OR LEASES (E.G., KELP LEASES, AQUACULTURE LEASES, EXPERIMENTAL FISHING PERMITS)?

Yes. The proposed MPA overlaps with Administrative Kelp Bed 221, which is open. Open kelp beds are available to commercial kelp harvest and leases cannot be issued.

Commercial kelp harvest was last reported in this bed in 2024. Additional seasonal restrictions are set by MBNMS.

QUESTION 4: DOES THE PROPOSED CHANGE HAVE THE POTENTIAL TO AFFECT EXISTING REGULATIONS, PERMITS, LEASES, OR MANAGEMENT ACTIVITIES OF ANY OTHER AGENCY OR ENTITY?

Yes. The proposed MPA overlaps granted lands held by Santa Cruz County. The County was granted sovereign tidelands and submerged lands in 1935, primarily for the establishment, maintenance, and operation of coastal facilities, such as a harbor, wharves, docks, and boathouses. It is unclear whether the proposed change would affect the County's management activities.

There are active leases authorized by the State Lands Commission along the shoreward boundary of the proposed MPA that may be affected by the proposed change. It is unclear whether the proposed change would have direct effects on the State Lands Commission's management activities.

The proposed MPA is inside the MBNMS, which is federally administered by NOAA. Implementation of the proposed change would require consultation and coordination with federal authorities and may interact with their management activities. CDFW would need to work with NOAA on coordinated enforcement, updates to signage, and outreach efforts.

This list may not be exhaustive. The proposed change may have the potential to affect existing regulations, permits, leases, or management activities of Tribal governments, other agencies, and entities not identified here.

QUESTION 5: ARE THERE SIGNIFICANT INFORMATION GAPS THAT NEED TO BE FILLED TO INFORM THE EVALUATION OF THE PROPOSED CHANGE?

Yes. When evaluating this petition, CDFW reviewed the information in the petition, as well as information including, but not limited to:

- MLPA Planning documents and related information (e.g., MLPA Goals and MPA Master Plan adaptive management objectives),
- Existing science pertaining to kelp recovery in MPAs,
- Long-term monitoring data related to kelp in MPAs,
- Satellite (1984-2023; Bell et al. 2025) and flyover (2002-06; 2008-10; 2013-16; CDFW 2024) mapping of statewide kelp canopy coverage, and
- Commercial and recreational fishing data.

CDFW has identified information gaps that limit the ability to fully evaluate the proposed change. Key information gaps include:

- Direct evidence of a place-based need linking kelp declines to specific driver(s) at this location,
- Consideration of socioeconomic and tribal interests and how these will be factored into the decision-making process with respect to kelp management at this location, and
- A statewide assessment of kelp restoration and recovery tools developed through the KRMP.

While important management concerns related to kelp recovery and restoration are raised in the petition, the petitioner did not present sufficient information to justify the proposed change as the appropriate solution.

Long-term MPA monitoring data indicate we have early, though inconsistent, evidence that MPAs may enhance resilience to climate change and other disturbances for ecosystems within their borders. Continued, consistent monitoring is necessary to determine which factors are most influential in supporting kelp recovery and resilience and how these factors vary regionally.

QUESTION 6: ARE THERE SIGNIFICANT MANAGEMENT GAPS THAT NEED TO BE FILLED TO INFORM THE EVALUATION OF THE PROPOSED CHANGE?

Yes. The forthcoming KRMP is the crucial management framework to have in place before considering MPA regulatory changes aimed at protecting kelp.

QUESTION 7A: WAS THE PROPOSED CHANGE CONSIDERED DURING THE MLPA INITIATIVE PLANNING PROCESS OR THE IMPLEMENTATION PROCESS OF MPAS AROUND THE NORTHERN CHANNEL ISLANDS?

Yes. During the MLPA Initiative planning process for the Central Coast Planning Region, a small intertidal MPA with a similar alongshore span and an allowance for finfish take from shore was included in Package 3R, one of three packages advanced by the Blue Ribbon Task Force (MLPA 2006). This MPA was not incorporated into the preferred alternative or rulemaking package.

QUESTION 7B: IS THERE NEW INFORMATION AVAILABLE, CHANGING CONDITIONS SINCE THE MLPA IMPLEMENTATION PHASE, AND/OR INFORMATION PRESENTED IN THE DMR THAT WARRANTS REEVALUATION OF THE PROPOSED CHANGE?

No. The petitioner cites new analyses identifying California kelp beds that may be more resilient to disturbance, as well as recent scientific literature investigating

the effects of MPA protection on kelp forests. Additionally, several recent studies highlight enhanced kelp resilience within MPAs in the South Coast in particular. However, a broad view of the best available science does not indicate consistent or reliable benefits to kelp resulting from MPA protection. As a result, there is not sufficient evidence to support the proposed change as an effective solution. Without direct, location-specific links between drivers and kelp persistence or decline, expanding MPAs for kelp recovery is unlikely to have a biologically meaningful impact on kelp and might unnecessarily restrict more effective restoration activities in the process.

Local drivers of kelp persistence and resilience need to be identified first, and management actions must be tailored to address those drivers. Therefore, pursuing this change ahead of additional long-term data collection and the KRMP, which will provide the essential management framework to guide future kelp management decisions, would be premature.

Therefore, while large-scale kelp declines and the occurrence of climate change-related disturbances do indicate changing conditions since the implementation phase, the petitioner did not provide sufficient evidence to warrant revisiting this decision.

QUESTION 8: IF THE PROPOSED CHANGE AFFECTS AN EXISTING MPA, DOES THE PROPOSED CHANGE ALIGN WITH THE ORIGINAL INTENT OF THE MPA IDENTIFIED DURING THE MLPA INITIATIVE PLANNING PROCESS OR THE IMPLEMENTATION PROCESS OF MPAS AROUND THE NORTHERN CHANNEL ISLANDS?

Not Applicable. The proposed change does not affect an existing MPA.

QUESTION 9: DOES THE PROPOSED CHANGE IMPROVE INDIVIDUAL MPA OR MPA NETWORK DESIGN SO THAT IT BETTER ALIGNS WITH OR MEETS THE MPA SCIENCE GUIDELINES?

No. The MLPA requires that the design of individual MPAs and the statewide Network be based on the best readily available science and that MPAs be of adequate size, number, protection level, and location to meet MLPA Goals. The science guidelines developed by the Science Advisory Team and outlined in the Master Plan were created specifically to provide this scientific foundation and serve as the starting point for evaluating alternative MPA proposals. Alignment with these guidelines depends on LOP, which is determined by allowed take, and spatial configuration. More specifically, these guidelines require that an MPA must be at least 9 square miles and meet one of the three highest LOPs (i.e., Very High, High, or Moderate-high) to contribute to ecological goals such as habitat replication and representation.

The proposed new MPA would be 3.1 square miles with a Moderate-low LOP, based on proposed take regulations (Table 7). Because it does not meet either minimum critera, implementation of the proposed change would not improve the design of the MPA Network or enhance alignment with the MLPA Science Guidelines. See Question 9 of Attachment 1 for the MLPA Science Guidelines and additional context.

QUESTION 10A: DOES THE PROPOSED CHANGE ALIGN WITH CDFW FEASIBILITY GUIDELINES?

No. The proposed change would not align with the following Feasibility Guidelines: boundaries are not described using readily determined lines of latitude and longitude, and it is unclear if the landmarks suggested by the petitioner to identify the proposed boundaries are easily recognizable for both shore- and boat-based users. Additionally, the offshore boundary does not extend to the 3 nm state water boundary. See Question 10a of Attachment 1 for CDFW Feasibility Guidelines.

> ### **QUESTION 10B:** IF NOT, IS THERE A RATIONALE FOR MOVING FORWARD WITH THE PROPOSED CHANGE OR AN ALTERNATIVE THAT COULD MEET THE INTENT BUT BETTER ALIGN WITH FEASIBILITY GUIDELINES?
>
> **No**. There is no rationale for moving forward with the proposed change or an alternative that better aligns with the Feasibility Guidelines.

QUESTION 11: DOES THE PROPOSED CHANGE MAINTAIN OR IMPROVE ENFORCEABILITY OF MPA REGULATIONS?

No. In general, partial take MPAs are more difficult to enforce than No-take MPAs because partial take MPAs may lead to increased instances of unintentional non-compliance with MPA regulations.

The proposed new MPA would result in enforcement challenges associated with the boundaries because they do not align with the Feasibility Guidelines. The boundaries are not aligned with readily determinable lines of latitude and longitude or easily recognizable permanent landmarks, and the offshore boundary does not extend to the 3 nm state water boundary, all of which compromises enforceability.

Additionally, because this is a proposed new MPA, there is an anticipated period of non-compliance following regulatory changes, particularly when additional restrictions are implemented. This would require additional resource investments in outreach, education, and enforcement to support enforcement and compliance.

QUESTION 12: DOES THE PROPOSED CHANGE SIMPLIFY REGULATORY LANGUAGE OR ENHANCE PUBLIC UNDERSTANDING WITHOUT CHANGING THE INTENT OF THE MPA?

No. It would not simplify any existing regulatory language. The proposed change would require the addition of new regulatory language, which is somewhat complex for a partial-take SMCA.

QUESTION 13: DOES THE PROPOSED CHANGE MAINTAIN OR ENHANCE PROTECTION OF MARINE RESOURCES?

Yes. The proposed change could maintain or enhance local protection of marine resources by adding MPA protection, thus prohibiting many extractive activities. However, some consumptive uses would still be permitted and the MPA as proposed would have a Moderate-low LOP, which could compromise any benefits gained. Furthermore, the proposed MPA is not large enough to contribute towards replication goals for key habitats, such as kelp forests. Since the petitioner's primary intent is to increase protections for kelp forest habitat within MPAs, it is uncertain whether the proposed expansion would produce the kelp resiliency benefits anticipated by the petitioner. While MPAs may indirectly support kelp, they are not considered the best available management tool at this time, especially when the drivers behind the current decline are systemic rather than location specific. Considering this, insufficient evidence has been provided to justify the creation of this MPA for the purpose of supporting kelp persistence or recovery.

QUESTION 14: DOES THE PROPOSED CHANGE PROVIDE MORE EQUITABLE ACCESS OPPORTUNITIES (E.G., FISHING, EDUCATIONAL, AND/OR OTHER RECREATIONAL OPPORTUNITIES) FOR TRADITIONALLY UNDERSERVED OR MARGINALIZED COMMUNITIES?

See Question 14 of Attachment 1.

QUESTION 15: DOES THE PROPOSED CHANGE HAVE THE POTENTIAL TO AFFECT CONSUMPTIVE AND/OR NON-CONSUMPTIVE ACTIVITIES? IF SO, HOW?

Yes. The proposed change has the potential to affect both consumptive and non-consumptive activities.

The proposed MPA would be easily accessible for both shore- and boat-based users through numerous coastal access points, with the boat launch at Capitola Wharf approximately 0.2 miles away, and the Santa Cruz Harbor approximately 1.1 miles away. This high accessibility would allow continued use of both consumptive recreational and non-consumptive activities.

Though the area is easily accessible, the proposed regulations would restrict all recreational fishing activities except shore-based take by hook-and-line and spearfishing. This is a popular area for boat-based fishing for nearshore groundfish, salmon, and halibut. Limiting access could therefore have significant impacts on local recreational fishing opportunities.

Commercial consumptive uses would also be adversely impacted, with negative impacts to the commercial salmon, nearshore groundfish, and highly migratory species fisheries expected. The proposed MPA is within a high-value commercial fishing block.

Regarding research and study opportunities, there do not appear to be any long-term monitoring sites within the boundaries of the proposed expansion.

QUESTION 16: IS THE PROPOSED CHANGE CONSISTENT WITH CFGC JUSTICE, EQUITY, DIVERSITY AND INCLUSION POLICY?

See Question 16 of Attachment 1.

QUESTION 17: IS THE PROPOSED CHANGE CONSISTENT WITH CFGC COASTAL FISHING COMMUNITIES POLICY?

The following analysis was prepared by CFGC staff. See Question 17 of Attachment 1 for additional context on CFGC's response. The proposed change would reduce fishing access and add more regulatory burdens, particularly for fishing participants associated with the coastal fishing community of Santa Cruz (~2-3 nm away from area of proposed change).

QUESTION 18: DOES THE PROPOSED CHANGE INTERACT WITH OR HAVE THE POTENTIAL TO AFFECT PROPOSED CHANGES IN OTHER 2023 MPA PETITIONS?

No. There are no potential interactions or effects on any of the other 2023 MPA petitions, though it should be noted that 2023-33MPA_6_AM1 proposes to expand Natural Bridges SMR, which is less than five miles west of the proposed Pleasure Point SMCA (see above).

V. SUPPLEMENTAL ANALYSES, DATA AND INFORMATION, AND CITATIONS

TABLES AND FIGURES

Table 1. 2023-33MPA_1_AM1 (proposed expansion Cabrillo SMR) MPA attributes (area, LOP, depth range, and habitat extent) of the existing and proposed Cabrillo SMR, including the percent change associated with the proposed action(s) in petition 2023-MPA33_AM. Percent change is calculated by dividing the difference between proposed and existing values by the existing value and multiplying by 100. Percent change is

reported as N/A when the calculation is not possible, such as when the existing MPA does not contain the habitat type or when existing and proposed values are reported in different units. A dash (—) indicates that the MPA does not contain the habitat type. Habitat extent may be reported in linear miles or square miles, depending on data availability and Science Advisory Team guidance.

Values shown in **bold** indicate that the MPA attribute meets the relevant science guideline established by the SAT during the MLPA Initiative planning process. An MPA contributes to habitat replication only if it first meets the minimum size (>9 sq mi) and LOP (Very High, High, or Moderate-high) criteria (i.e., first two rows must be bold).

	Existing	Proposed	Change (%)
MPA Area (sq mi)	0.39	**10.43**	2,574
Level of Protection	**Very High**	**Very High**	—
Min Depth (m)	0	0	—
Max Depth (m)	13.0	82.3	—
Eelgrass (sq mi)	9e-4	9e-4	0
Kelp (mi)	0.49[a]	**3.00**	512
Beach (mi)	0.90	**1.73**	92
Rocky Intertidal (mi)	**0.97**	**3.27**	237
Estuaries (sq mi)	—	—	—
Hard Substrate			
0-30 m (mi)	0.23[b]	**2.56**	N/A
30-100 m (sq mi)	—	0.11	N/A
100-200 m (sq mi)	—	0.04	N/A
>200 m (sq mi)	—	—	—
Soft Substrate			
0-30 m (mi)	0.15[b]	0.48	N/A
30-100 m (sq mi)	—	**6.31**	N/A
100-200 m (sq mi)	—	0.18	N/A
>200 m (sq mi)	—	—	—

[a] Measured by hand since MPA polygon does not overlap the linear kelp dataset

[b] Measured in square miles rather than linear miles because the MPA polygon does not overlap the linear substrate dataset

Table 2. 2023-33MPA_2_AM1 (proposed expansion Point Dume SMCA and addition of recreational take from shore by hook and line and spearfishing)

MPA attributes (area, LOP, depth range, and habitat extent) of the existing and proposed Point Dume SMCA, including the percent change associated with the proposed action(s) in petition 2023-MPA33_AM. Percent change is calculated by dividing the difference between proposed and existing values by the existing value and multiplying by 100. Percent change is reported as N/A when the calculation is not possible, such as when the existing MPA does not contain the habitat type or when existing and proposed values are reported in different units. A dash (—) indicates that the MPA does not contain the habitat type. Habitat extent may be reported in linear miles or square miles, depending on data availability and Science Advisory Team guidance.

Values shown in **bold** indicate that the MPA attribute meets the relevant science guideline established by the SAT during the MLPA Initiative planning process. An MPA contributes to habitat replication only if it first meets the minimum size (>9 sq mi) and LOP (Very High, High, or Moderate-high) criteria (i.e., first two rows must be bold). Point Dume SMCA meets those requirements when clustered with Point Dume SMR. If the take allowance proposed by the petition were granted, the cluster would no longer meet these criteria.

	SMR Existing	SMCA Existing	Cluster Existing	SMCA Proposed	Cluster Proposed	SMCA change (%)
MPA Area (sq mi)	7.53	15.92	**23.45**	20.69	**28.22**	30
Level of Protection	Very High	High	**High**	Mod-Low	Mod-Low	—
Min Depth (m)	0	0	0	0	0	—
Max Depth (m)	649.4	683.4	683.4	683.4	683.4	—
Eelgrass (sq mi)	—	—	—	—	—	—
Kelp (mi)	1.29	1.60	**2.89**	2.95	**4.24**	84
Beach (mi)	2.56	4.03	**6.59**	5.30	**7.86**	32
Rocky Intertidal (mi)	1.34	0.46	**1.80**	0.56	**1.90**	22
Estuaries (sq mi)	—	3e-5	3e-5	3e-5	3e-5	0
Hard Substrate						
0-30 m (mi)	0.02	0.08	0.10	0.32	0.34	300
30-100 m (sq mi)	4e-3	2e-3	6e-3	0.09	0.09	4400
100-200 m (sq mi)	4e-3	1e-3	5e-3	1e-3	5e-3	0
>200 m (sq mi)	—	—	—	—	—	—
Soft Substrate						
0-30 m (mi)	2.23	4.12	**6.35**	5.21	**7.44**	26
30-100 m (sq mi)	1.04	5.69	**6.73**	7.67	**8.71**	35
100-200 m (sq mi)	0.72	1.57	**2.29**	2.42	**3.14**	54
>200 m (sq mi)	4.42	5.66	**10.08**	6.39	**10.81**	13

Table 3. 2023-33MPA_3 (proposed expansion South Point SMR)

MPA attributes (area, LOP, depth range, and habitat extent) of the existing and proposed South Point SMR, including the percent change associated with the proposed action(s) in petition 2023-MPA33_AM. Percent change is calculated by dividing the difference between proposed and existing values by the existing value and multiplying by 100. Percent change is reported as N/A when the calculation is not possible, such as when the existing MPA does not contain the habitat type or when existing and proposed values are reported in different units. A dash (—) indicates that the MPA does not contain the habitat type. Habitat extent may be reported in linear miles or square miles, depending on data availability and Science Advisory Team guidance.

Values shown in **bold** indicate that the MPA attribute meets the relevant science guideline established by the SAT during the MLPA Initiative planning process. An MPA contributes to habitat replication only if it first meets the minimum size (>9 sq mi) and LOP (Very High, High, or Moderate-high) criteria (i.e., first two rows must be bold).

	Existing	Proposed	Change (%)
MPA Area (sq mi)	**13.08**	**40.96**	213
Level of Protection	**Very High**	**Very High**	—
Min Depth (m)	0	0	—
Max Depth (m)	392.9	395.7	—
Eelgrass (sq mi)	—	—	—
Kelp (mi)	**3.78**	**11.96**	216
Beach (mi)	**1.45**	**6.49**	348
Rocky Intertidal (mi)	**3.47**	**10.26**	196
Estuaries (sq mi)	—	—	—
Hard Substrate			
0-30 m (mi)	**1.29**	**3.15**	144
30-100 m (sq mi)	**0.26**	**0.99**	281
100-200 m (sq mi)	4e-3	5e-3	25
>200 m (sq mi)	—	—	—
Soft Substrate			
0-30 m (mi)	**2.49**	**8.39**	237
30-100 m (sq mi)	**3.57**	**11.83**	231
100-200 m (sq mi)	**5.70**	**8.23**	44
>200 m (sq mi)	**1.63**	**4.22**	159

Table 4. 2023-33MPA_4 (proposed expansion Gull Island SMR)

MPA attributes (area, LOP, depth range, and habitat extent) of the existing and proposed Gull Island SMR, including the percent change associated with the proposed action(s) in petition 2023-MPA33_AM. Percent change is calculated by dividing the difference between proposed and existing values by the existing value and multiplying by 100. Percent change is reported as N/A when the calculation is not possible, such as when the existing MPA does not contain the habitat type or when existing and proposed values are reported in different units. A dash (—) indicates that the MPA does not contain the habitat type. Habitat extent may be reported in linear miles or square miles, depending on data availability and Science Advisory Team guidance.

Values shown in **bold** indicate that the MPA attribute meets the relevant science guideline established by the SAT during the MLPA Initiative planning process. An MPA contributes to habitat replication only if it first meets the minimum size (>9 sq mi) and LOP (Very High, High, or Moderate-high) criteria (i.e., first two rows must be bold).

	Existing	Proposed	Change (%)
MPA Area (sq mi)	**19.93**	**21.67**	9
Level of Protection	**Very High**	**Very High**	—
Min Depth (m)	0	0	—
Max Depth (m)	698.1	698.1	—
Eelgrass (sq mi)	—	—	—
Kelp (mi)	**3.11**	**5.70**	83
Beach (mi)	**2.29**	**4.70**	105
Rocky Intertidal (mi)	**1.89**	**3.61**	91
Estuaries (sq mi)	—	—	—
Hard Substrate			
0-30 m (mi)	**2.18**	**2.31**	6
30-100 m (sq mi)	0.14	0.14	0
100-200 m (sq mi)	**0.17**	**0.17**	0
>200 m (sq mi)	**2.09**	**2.09**	0
Soft Substrate			
0-30 m (mi)	**2.79**	**4.83**	73
30-100 m (sq mi)	**3.89**	**4.61**	19
100-200 m (sq mi)	**3.36**	**3.36**	0
>200 m (sq mi)	**7.40**	**7.40**	0

Table 5. 2023-33MPA_5 (proposed expansion Point Conception SMR)

MPA attributes (area, LOP, depth range, and habitat extent) of the existing and proposed Point Conception SMR, including the percent change associated with the proposed action(s) in petition 2023-MPA33_AM. Percent change is calculated by dividing the difference between proposed and existing values by the existing value and multiplying by 100. Percent change is reported as N/A when the calculation is not possible, such as when the existing MPA does not contain the habitat type or when existing and proposed values are reported in different units. A dash (—) indicates that the MPA does not contain the habitat type. Habitat extent may be reported in linear miles or square miles, depending on data availability and Science Advisory Team guidance.

Values shown in **bold** indicate that the MPA attribute meets the relevant science guideline established by the SAT during the MLPA Initiative planning process. An MPA contributes to habitat replication only if it first meets the minimum size (>9 sq mi) and LOP (Very High, High, or Moderate-high) criteria (i.e., first two rows must be bold).

	Existing	Proposed	Change (%)
MPA Area (sq mi)	**22.52**	**37.18**	65
Level of Protection	**Very High**	**Very High**	—
Min Depth (m)	0	0	—
Max Depth (m)	153.5	153.5	—
Eelgrass (sq mi)	—	—	—
Kelp (mi)	**2.27**	**6.47**	185
Beach (mi)	**1.98**	**5.59**	182
Rocky Intertidal (mi)	**3.43**	**6.18**	80
Estuaries (sq mi)	—	—	—
Hard Substrate			
0-30 m (mi)	0.15	**1.96**	1207
30-100 m (sq mi)	**0.57**	**0.81**	42
100-200 m (sq mi)	9e-4	9e-4	0
>200 m (sq mi)	—	—	—
Soft Substrate			
0-30 m (mi)	**3.67**	**6.05**	65
30-100 m (sq mi)	**15.34**	**23.54**	53
100-200 m (sq mi)	**3.60**	**3.60**	0
>200 m (sq mi)	—	—	—

Table 6. 2023-33MPA_6_AM1 (proposed expansion Natural Bridges SMR)

MPA attributes (area, LOP, depth range, and habitat extent) of the existing and proposed Natural Bridges SMR, including the percent change associated with the proposed action(s) in petition 2023-MPA33_AM. Percent change is calculated by dividing the difference between proposed and existing values by the existing value and multiplying by 100. Percent change is reported as N/A when the calculation is not possible, such as when the existing MPA does not contain the habitat type or when existing and proposed values are reported in different units. A dash (—) indicates that the MPA does not contain the habitat type. Habitat extent may be reported in linear miles or square miles, depending on data availability and Science Advisory Team guidance.

Values shown in **bold** indicate that the MPA attribute meets the relevant science guideline established by the SAT during the MLPA Initiative planning process. An MPA contributes to habitat replication only if it first meets the minimum size (>9 sq mi) and LOP (Very High, High, or Moderate-high) criteria (i.e., first two rows must be bold).

	Existing	Proposed	Change (%)
MPA Area (sq mi)	0.25	**14.67**	5768
Level of Protection	**Very High**	**Very High**	—
Min Depth (m)	0	0	—
Max Depth (m)	3.2	72.9	—
Eelgrass (sq mi)	—	—	—
Kelp (mi)	0.17[a]	4.16	2347
Beach (mi)	**3.10**	**3.28**	6
Rocky Intertidal (mi)	**3.79**	**3.87**	2
Estuaries (sq mi)	2e-3	2e-3	0
Hard Substrate			
0-30 m (mi)	0.16[b]	**1.42**	N/A
30-100 m (sq mi)	—	0.14	N/A
100-200 m (sq mi)	—	—	—
>200 m (sq mi)	—	—	—
Soft Substrate			
0-30 m (mi)	0.05[b]	**2.76**	N/A
30-100 m (sq mi)	—	**10.68**	N/A
100-200 m (sq mi)	—	—	—
>200 m (sq mi)	—	—	—

[a] Measured by hand since MPA polygon does not overlap the linear kelp dataset

[b] Measured in square miles rather than linear miles because the MPA polygon does not overlap the linear substrate dataset

Table 7. 2023-33MPA_7_AM1 (proposed new Pleasure Point SMCA)

MPA attributes (area, LOP, depth range, and habitat extent) of Pleasure Point SMCA as proposed in petition 2023-MPA33_AM. A dash (—) indicates that the proposed MPA does not contain the habitat type. Habitat extent may be reported in linear miles or square miles, depending on data availability and Science Advisory Team guidance.

Values shown in **bold** indicate that the MPA attribute meets the relevant science guideline established by the SAT during the MLPA Initiative planning process. An MPA contributes to habitat replication only if it first meets the minimum size (>9 sq mi) and LOP (Very High, High, or Moderate-high) criteria (i.e., first two rows must be bold).

	Proposed
MPA Area (sq mi)	3.13
Level of Protection	Mod-Low
Min Depth (m)	0
Max Depth (m)	28.8
Eelgrass (sq mi)	—
Kelp (mi)	**1.33**
Beach (mi)	**1.37**
Rocky Intertidal (mi)	0.55
Estuaries (sq mi)	—
Hard Substrate	
0-30 m (mi)	0.01
30-100 m (sq mi)	—
100-200 m (sq mi)	—
>200 m (sq mi)	—
Soft Substrate	
0-30 m (mi)	**1.16**
30-100 m (sq mi)	—
100-200 m (sq mi)	—
>200 m (sq mi)	—

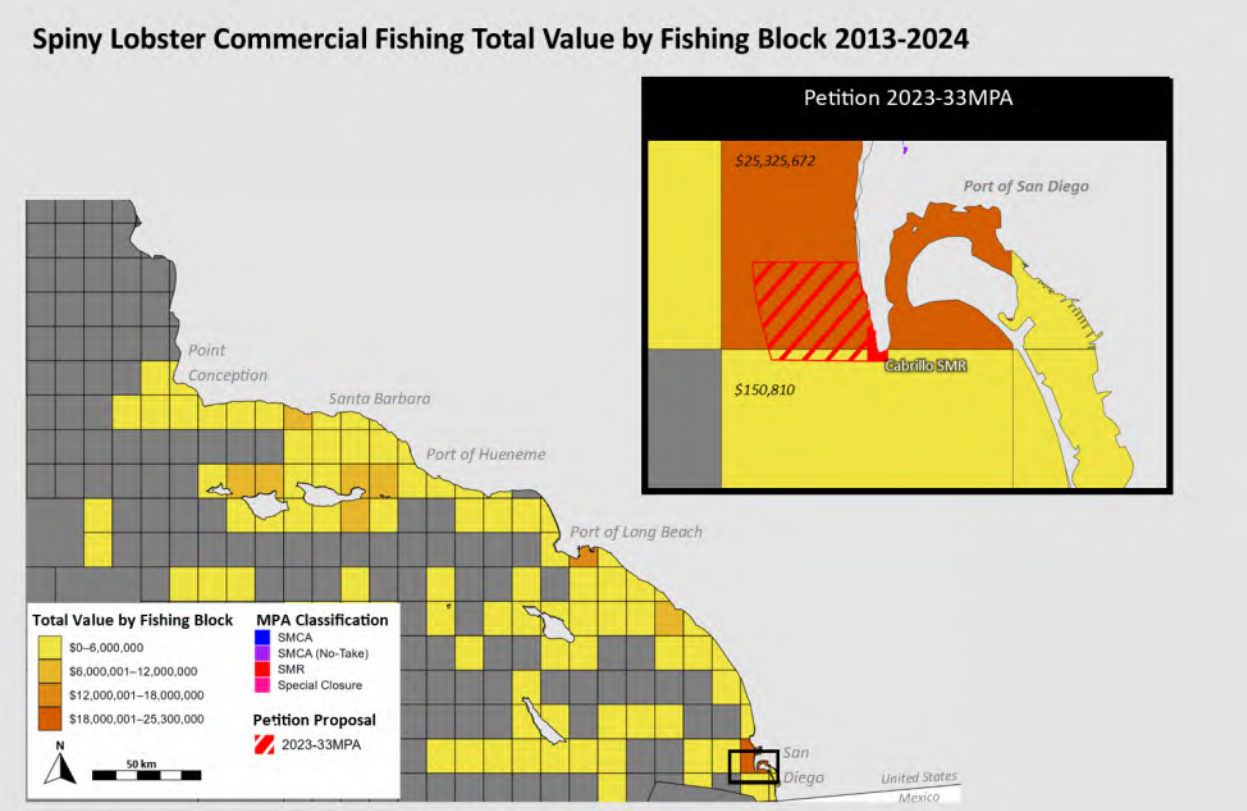


Figure 1. Total value (in millions $US) of commercially caught spiny lobster (*P. interruptus*) from 2013 to 2024 by CDFW fishing block for the South Coast Bioregion with reference to Petition 2023-33MPA_AM.

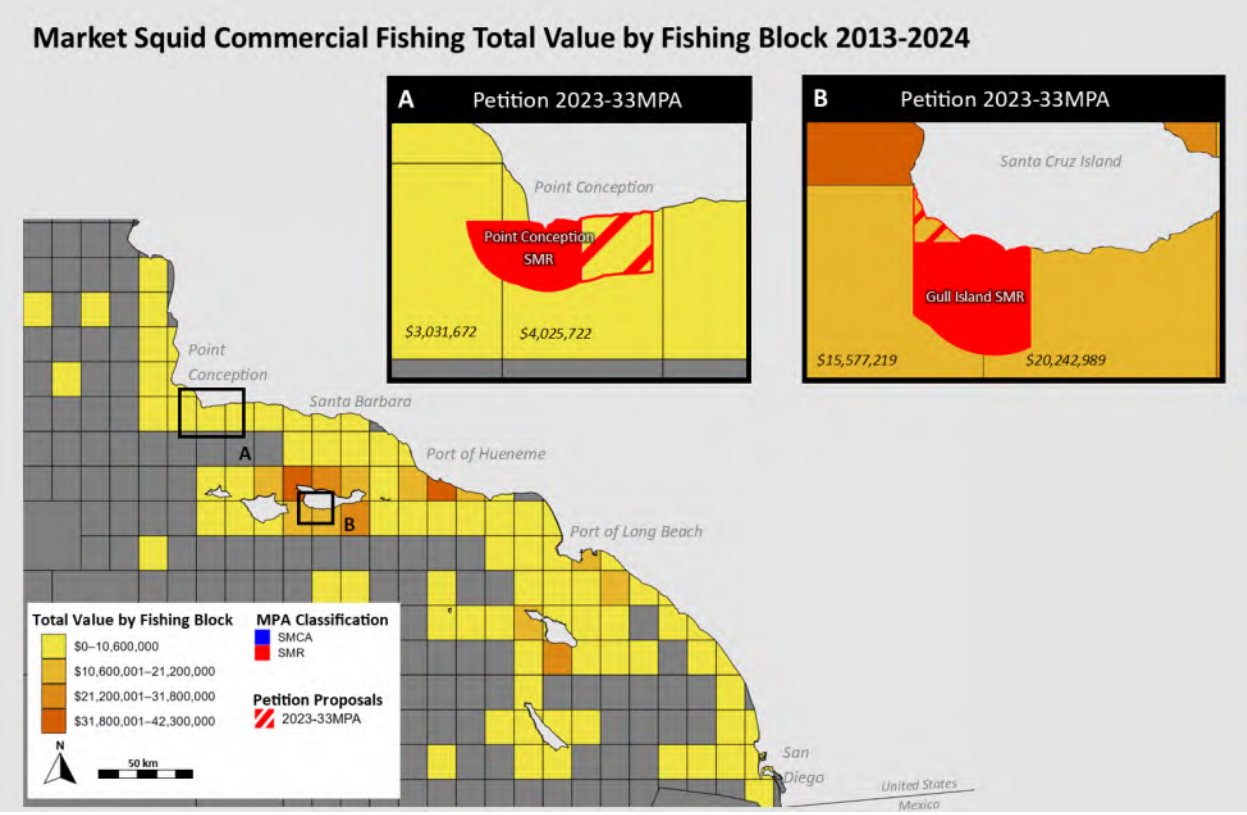


Figure 2. Total value (in millions $US) of commercially caught California market squid (*Doryteuthis opalescens*) from 2013 to 2024 by CDFW fishing block for the South Coast Bioregion with reference to petition 2023-33MPA_AM. Actual value provided within fishing blocks that overlap with the proposed boundary expansion of (A) Point Conception SMR and (B) Gull Island SMR.

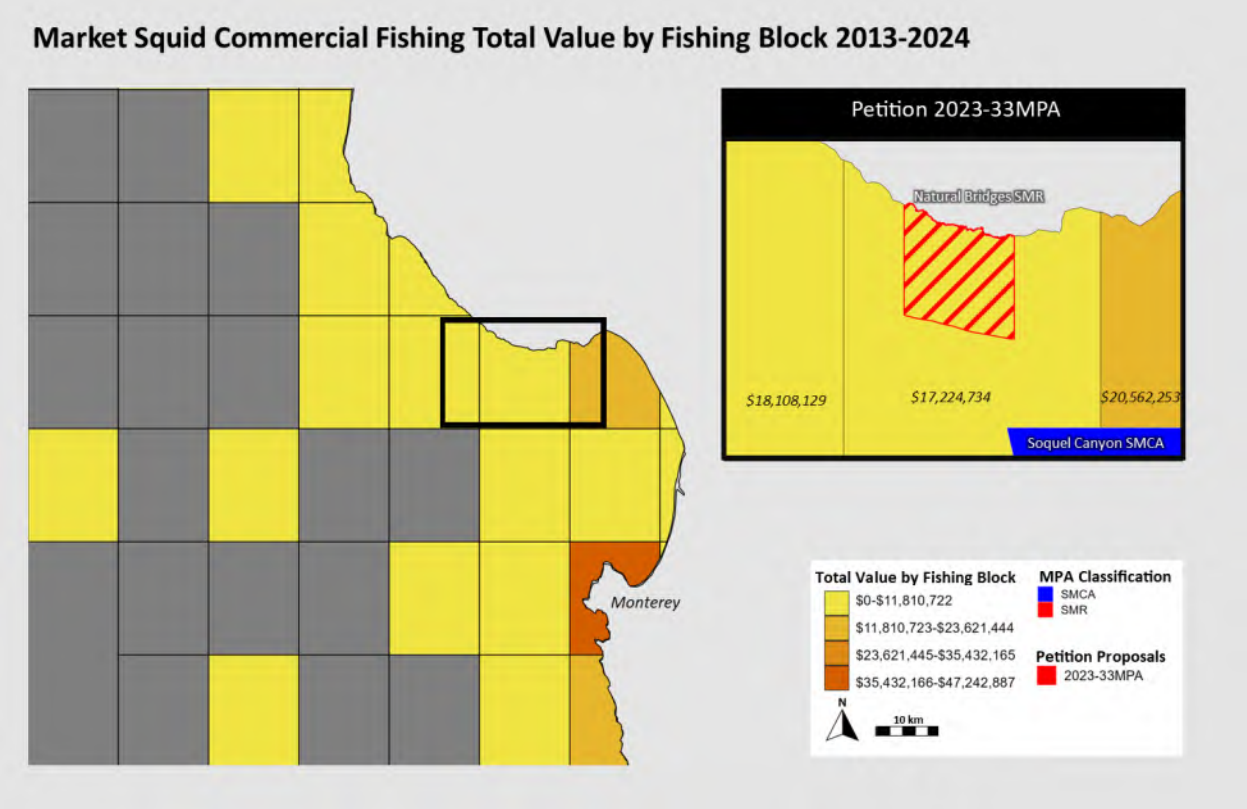


Figure 3. Total value (in millions $US) of commercially caught California market squid (*Doryteuthis opalescens*) from 2013 to 2024 by CDFW fishing block for the Central Coast with reference to petition 2023-33MPA_AM. Actual value provided within fishing blocks that overlap/are adjacent with the proposed boundary expansion of Natural Bridges SMR.

CITATIONS

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April 19, 2026

Subject: Urgent Opposition to Proposed MPA Expansion (South Point to Sandy Point) - Urchin Diver Representative

Dear California Fish and Game Commission,

My name is Christopher Nelson, and I am writing on behalf of the many Ventura and Oxnard Urchin Divers to express our strong opposition to the proposed expansion of the South Point State Marine Reserve (SMR) to Sandy Point.

With 37 years of experience diving in these waters, I have witnessed first-hand the impact of previous closures. Currently, Marine Protected Areas (MPAs) are causing severe damage to the local urchin diving community by compressing fishing effort into the remaining legal areas. These high-intensity fishing grounds are crucial for our livelihood and need relief, not further reduction.

Here are the critical points regarding our opposition:

Kelp Density is Not Consistently Higher in MPAs

Kelp forest health is primarily driven by abiotic factors. For example, Temperature, nutrients, wave exposure and sedimentation. MPAs do not regulate these drivers, and many MPAs have failed to protect kelp from ocean warming or heatwaves.

Irrelevance of MPAs for Shellfish: Because sea urchins do not migrate or swim, the logic of typical finfish MPA closures does not apply. Urchin populations are effectively managed through existing commercial size limits and natural weather cycles, which dictate sustainability and prevent overharvesting.

Economic Impact: Further expansion to Sandy Point will severely reduce access,

destroying the value of our fishery, putting hardworking Californians out of work, and threatening the ability of families to earn a living in an already expensive industry.

Concentrated Effort: Closing more areas will simply create unsustainable, intensified effort in the few remaining open areas, creating a "domino effect" of pressure on the resource.

We urge the Commission to recognize that current efforts are sufficient and that additional closures are not necessary. We are asking that you **deny the petition to expand the South Point SMR**.

Sincerely,

Christopher Nelson
Ventura, Oxnard Urchin Divers

Ventura County Commercial Fishermen's Association
1237 S. Victoria Ave #284
Oxnard, CA 93035
(805) 663-2152
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21st April, 2026

California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

Subject: **Opposition to Petition 2023-33MPA – Santa Rosa Island Closures**

Dear California Fish and Game Commission,

My name is Dave Colker, and I serve as the Executive Director of the Ventura County Commercial Fishermen's Association (VCCFA). Through my role with VCCFA, I represent a growing network of commercial fishermen, industry partners, and stakeholders who are directly connected to and dependent upon access to California's coastal resources.

Our association has been actively engaged throughout the Marine Protected Area (MPA) petition process, carefully reviewing proposals, participating in meetings, and working to ensure that the voices of the commercial fishing community are heard and considered. We are committed to responsible ocean stewardship, sustainable fisheries, and collaborative management approaches that are grounded in sound science, practical application, and a full understanding of both ecological and socioeconomic impacts.

On behalf of the Ventura County Commercial Fishermen's Association (VCCFA), I respectfully submit comments regarding Petition 2023-33MPA, which proposes expanded closures around Santa Rosa Island.

While we recognize the importance of marine conservation, our primary concern is the **lack of a comprehensive socioeconomic analysis** and the absence of a meaningful evaluation of **effort displacement and its impacts on surrounding open fishing areas**—particularly within one of the most critical fishing regions for Ventura and Santa Barbara-based fleets.

Santa Rosa Island is not an isolated or marginal fishing area. It is a **core component of multiple fisheries**, including:

- Commercial lobster
- Sea urchin
- Crab
- Nearshore and offshore finfish

These fisheries rely heavily on access to the island's productive and historically utilized grounds. The proposed closures would remove significant portions of that access, directly impacting

fishermen who depend on these areas for seasonal operations, species targeting, and economic stability.

However, the petition does not adequately analyze what happens when this access is removed.

Fishing effort does not disappear—it is **displaced**.

In this case, displaced effort from Santa Rosa Island will be forced into remaining open areas, including:

- Other portions of the Northern Channel Islands
- Mainland coastal waters off Ventura and Santa Barbara
- Already heavily utilized grounds accessible to Southern California fleets

This redistribution creates immediate and measurable consequences:

- Increased competition within lobster, urchin, crab, and finfish fisheries
- Crowding of productive fishing areas
- Increased gear conflict, especially in trap and dive fisheries
- Reduced efficiency and higher operational costs
- Increased localized pressure on marine resources in open areas

These are **real socioeconomic impacts** that directly affect fishermen's ability to operate viable businesses, yet they are not meaningfully addressed in the petition.

Additionally, the petition lacks a detailed and regionally relevant economic impact analysis. There is little consideration of how these closures would affect:

- Individual fishermen and multi-generational fishing operations
- Shoreside infrastructure, including processors, buyers, fuel docks, and marine services
- The broader coastal economy supported by commercial fishing activity in Ventura and Santa Barbara Counties

By focusing primarily on ecological objectives within the proposed closure boundaries, the petition fails to account for the **external consequences**—specifically, the concentration of fishing pressure into open areas and the economic strain that follows.

Santa Rosa Island closures of this scale require a **regional analysis**, not a localized one. Without evaluating how these changes impact the interconnected fisheries that depend on this area, the conclusion of limited or acceptable impact is incomplete.

For these reasons, VCCFA respectfully urges the Commission to carefully consider these deficiencies before moving forward with Petition 2023-33MPA. At a minimum, we recommend:

1. A comprehensive socioeconomic analysis specific to Santa Rosa Island fisheries
2. A detailed evaluation of effort displacement and resulting pressure on open areas
3. A full economic impact assessment on lobster, sea urchin, crab, and finfish fisheries
4. Consideration of cumulative impacts across the broader Channel Islands and mainland fishing grounds

We appreciate the Commission's work in navigating these complex decisions and respectfully request that these critical considerations be addressed to ensure balanced and informed

outcomes.

Thank you for your time and consideration.

Respectfully submitted,

Dave Colker
Executive Director
Ventura County Commercial Fishermen's Association (VCCFA)

From: Rick Duenas <[redacted]>
Sent: Wednesday, April 22, 2026 09:56 AM
To: FGC <FGC@fgc.ca.gov>
Subject: Public comment: May 5-6, 2026: Central Region Petitions

Dear President Sklar and Members of the Commission,

My name is Rick Duenas and I am a recreational angler and diver in Northern California who often recreates on the central coast. I am writing regarding the MPA petitions for San Luis Obispo through Santa Barbara County including the Northern Channel Islands. I urge you to deny most of these petitions or encourage petitioners to carve out recreational access as noted below.

2023-28: **Deny**. The remoteness and aspect of this location serve as refuge as it is fishable only in calmer weather patterns already. Also, this location is already inside the Chumash Heritage National Marine Sanctuary and therefore already counted in 30x30. I would prefer that any new MPAs contribute to increasing the 30x30 percentage.

2023-29: **Deny or revise.** This area provides important near-shore access for divers and small-craft anglers. I would like to see spearfishing, spiny lobster, and boat-based hook-and-line finfish take allowance. From the Tribal Committee Meeting, it was not clear to me what cultural activities would be supported by this MPA that are not already allowed. I recognize the importance of protecting submerged ancestral sites, so I would prefer that restrictions be tailored to barring the use of destructive bottom gear or anchoring instead of restricting lower impact gear types.

2023-19: **Accept with revision**. I appreciate that the petitioner allowed for the take of finfish as the location is one of the better areas for salmon and halibut trolling in the region. However, this area is also important to the commercial sector, particularly for market squid, so I would like to see commercial access with low impact gear preserved as well.

2023-20: **Accept** as clarified in Tribal Committee Meeting. I appreciate the petitioner not changing general public fishing access to salmon and albacore while allowing for tribal take and co-management.

2023-34: **Deny**. I support CDFW's recommendation. I appreciate allowance for low impact pelagic take wherever possible.

2023-33: **Deny.** I support CDFW's recommendation. The proposed actions would severely limit in-shore recreation access.

2023-18: **Deny**. I support CDFW's recommendation. I appreciate opportunities for more access but I am okay with the status quo and do not wish to trade access elsewhere in the network in order to balance this change.

2023-27: **Deny**. I dive Anacapa every fall and the amended 0-30m proposal seemed like one of the more reasonable and targeted petitions but I support CDFW's recommendation.

2023-14: **Deny**. I support CDFW's recommendation. I believe that these reserves should serve as control treatment groups relative to urchin barren mitigation being done outside of reserves.

2023-15: **Deny**. I support CDFW's recommendation. I appreciate opportunities for more access but I am okay with the status quo and do not wish to trade access elsewhere in the network in order to balance this change.

In short, please consider denying or requesting revision to the vast majority of the central region bin-2 petitions. Thank you for your time.

Sincerely,

Rick Duenas

California Fish and Game Commission
Draft Agenda Items for the May 19 and June 17-18, 2026 Commission Meetings

May 1, 2026

The next regional marine protected area petition meeting is scheduled for May 19 in San Clemente, with Zoom and phone options for the public. The next regularly scheduled Commission business meeting is scheduled for June 17-18, 2026 in Sacramento, with Zoom and phone options for the public.

This document identifies draft agenda items for the meetings as approved by the Commission, including items to be received from staff and the California Department of Fish and Wildlife (Department).

Tuesday, May 19: Marine-Related and Administrative Items

1. MPA petitions (Los Angeles through San Diego counties and Santa Catalina Island)
    a. 2023-24MPA
    b. 2023-14MPA
    c. 2023-33MPA
    d. 2023-34MPA
2. Future meetings and new business
3. General public comments for items not on the agenda

Wednesday, June 17: Marine-Related and Administrative Items

1. General public comments for items not on the agenda
2. Commission executive director report and Department reports (director and Law Enforcement Division)
3. Announce the recipient of the Commission's annual Wildlife Prosecutor of the Year award
4. Consider approving Experimental Fishing Permit (Tracking ID #2025-01) named Southern Pacific Sardine Data Project
5. Notice hearing: Harpoons and flying gaff allowance
6. Notice hearing: Add Federal groundfish as defined in Section 1.91, Title 14, California Code of Regulations, to auto conformance regulatory text amendment processes
7. Determine whether listing southern resident killer whale (*Orcinus orca*) as endangered under the California Endangered Species Act may be warranted
8. Marine petitions for regulation change[1]
9. Marine non-regulatory requests from previous meetings[1]
10. Commission committee reports (Tribal Committee, Marine Resources Committee) and Department report (Marine Region).
11. Executive (closed) session

Thursday, June 18: Wildlife- and Inland Fisheries-Related and Administrative Items

12. Discussion hearing: Sport fishing 2026 (inland and ocean)
13. Notice hearing: Commercial use and possession of native rattlesnakes for other purposes
14. Consider restricted species permit application from The Scintillon Institute to possess transgenic zebrafish (*Danio rerio*) and the Department's recommendation.
15. Potentially approve proposed projects for the Duck Stamp Dedicated Account funds in Fiscal Year 2026-27
16. Receive and consider approving initial private lands wildlife habitat enhancement and management (PLM) plans and licenses
17. Receive and consider approving annual PLM plans and licenses
18. Receive and consider approving five-year PLM plans and licenses
19. Wildlife and inland fisheries petitions for regulation change[1]
20. Wildlife and inland fisheries non-regulatory requests from previous meetings[1]
21. Commission committee report (Wildlife Resources Committee) and Department reports (Wildlife and Fisheries Division, and Ecosystem Conservation Division)
22. Administrative items (legislative report, rulemaking timetable updates, and future meetings and new business)
23. General public comment for items not on the agenda

[1] Staff is authorized to remove this agenda item if there are no actionable, referred, or new items, in which case any new regulation change petitions or non-regulatory requests delivered at the meeting will be received under the general public comment agenda items on Wednesday or Thursday

City of Santa Barbara

Waterfront Department

SantaBarbaraCA.gov

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Santa Barbara, CA
93109

March 5, 2026

California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

RE: MPA Amendment Petitions Affecting Santa Barbara Channel

Dear Commissioners:

The Santa Barbara Harbor Commission writes to express concern about pending Marine Protected Area (MPA) petitions that would establish significant new fishing closures in the Santa Barbara Channel. We urge the Commission to evaluate these petitions carefully against their economic costs and consistency with the Commission's Coastal Fishing Communities Policy before taking action.

Santa Barbara Harbor is home to one of California's most active commercial fishing fleets and serves as a hub for recreational fishing, marine tourism, and ocean-based employment. The vitality of our working waterfront depends on maintaining viable access to productive fishing grounds for both commercial and recreational users.

Consistency with the Coastal Fishing Communities Policy

The Commission's Coastal Fishing Communities Policy commits to meaningful engagement with fishing communities, factoring community interests into decision-making, and increasing adaptive capacity and resilience. We are concerned that the petitions before the Commission do not meet these standards.

Meaningful consultation with harbor businesses, fishing crews, processors, and recreational operators whose livelihoods depend on the affected areas are critical before moving forward with decisions. The petitions also lack adequate socioeconomic impact analysis — there is no assessment of lost income, operational displacement, or cumulative effects on port viability. And because MPA designations are difficult to reverse, approving closures before adaptive management alternatives have been seriously evaluated would reduce, rather than increase, the fishing community's resilience and adaptive capacity.

Economic Concerns

The Santa Barbara port area ranked first in California for commercial fishing vessel count and second for poundage in 2023, with 296 vessels landing 23.4 million pounds valued at $35.1 million (CDFW). Our fleet of 185–200 owner-operated small boats supports over 500 jobs in Santa Barbara County. These livelihoods depend directly on continued access to productive fishing grounds.

Moreover, proposed expansions at Point Conception, South Point at Santa Rosa Island, and Gull Island would affect the majority of our fleet and our top fisheries, including Spiny Lobster and Red Sea Urchin. Cumulative closures of this magnitude risk pushing our port below the threshold needed to sustain the infrastructure, supply chains, and workforce that a functioning fishing community requires.

City of Santa Barbara

Waterfront Department

SantaBarbaraCA.gov

Administration
Tel: (805) 564-5531
Fax: (805) 560-7580

Parking
Tel: (805) 897-1965
Fax: (805) 560-7580

Stearns Wharf
Tel: (805) 564-5518
Fax: (805) 963-1970

Harbor Patrol
Tel: (805) 564-5530
Fax: (805) 897-2588

Harbor Maintenance
Tel: (805) 564-5522
Fax: (805) 966-1431

132-A Harbor Way
Santa Barbara, CA
93109

The City of Santa Barbara has invested in partnerships like the Ocean Collective workforce development program at Santa Barbara City College to build career pathways in our maritime economy and expand ocean access for tribal communities. Closures that reduce fishing and tourism opportunity work against those investments.

Management Context

California's commercial and recreational fisheries operate under rigorous state and federal management. We share the concerns expressed by the Santa Barbara County Fish and Wildlife Commission that the proposed closures lack sufficient justification given their economic costs. When protection of particular species is the goal, adaptive fishery management tools — seasonal restrictions, depth limits, area closures subject to monitoring — are available and have a proven track record. These approaches should be seriously evaluated before the Commission acts on permanent closures.

Request

We respectfully urge the Commission to defer consideration of the pending petitions and direct the Department to examine socioeconomic impacts alongside ecological objectives and pursue management solutions developed through genuine stakeholder engagement, grounded in best available science, and consistent with the Marine Life Management Act and the California Fish and Game Commission's Coastal Fishing Communities Policy.

We appreciate your time and attention.

Respectfully,

Santa Barbara Harbor Commission

Adam Stanowick
Harbor Commission Chair, City of Santa Barbara

COASTAL CONSERVATION ASSOCIATION
CALIFORNIA

4065 Oceanside Blvd.
Suite Q
Oceanside, CA 92056

CCACalifornia.org

Commissioner Jacque Hostler-Carmesin
Chair, Tribal Committee
California Fish and Game Commission
P.O. Box 944209
Sacramento, CA 94244-2090

04/16/26

Dear Commissioner Hostler-Carmesin:

During the April 14, 2026, California Fish and Game Commission Tribal Committee meeting, an individual by the name of Eric Kramer provided public comments via Zoom regarding the Tribal MPA Petitions.

We want all to know that Mr. Kramer's comments do not represent the views of Coastal Conservation Association of California (CCA Cal). Like many others, we found his comments and language disruptive, insensitive, and hurtful. We sincerely regret the disruption and hurt that his actions caused.

CCA Cal strives to hold members to a high standard. Given Mr. Kramer's comments and language, he does not meet that standard. Consequently, CCA Cal is in the process of revoking his membership in our organization. Concurrently, we continue to communicate and emphasize to all CCA Cal members the importance of abiding by public comment procedures and expressing points of view in a respectful manner.

As you know, CCA Cal leadership works hard to build strong working relationships with the Commission and Department of Fish and Wildlife based on science and trust. We look forward to continuing to build on that foundation to work productively with the Commissioners and CDFW staff now and into the future.

Sincerely,

Chris Arechaederra
Executive Director

cc.

California Fish and Game Commissioners
Meghan Hertal, CDFW Director
Melissa Miller-Henson, CDFW Executive Director

From:
Sent: Thursday, April 16, 2026 11:03 AM
To: FGC <FGC@fgc.ca.gov>
Subject: May 5th Regional Marine Protected Area Petitions Meeting

To whom it may concern,

I am writing to express my strong support for the continued expansion and strengthening of Marine Protected Areas (MPAs) along California's coastline.

MPAs are one of the most effective, evidence-based tools available for preserving marine biodiversity, rebuilding depleted fish populations, and increasing ecosystem resilience in the face of climate change. Decades of research have consistently shown that well-managed MPAs lead to increased biomass, greater species diversity, and spillover benefits that enhance adjacent fisheries.

California has been a national and global leader in marine conservation through the implementation of the Marine Life Protection Act (MLPA). Expanding and reinforcing this network is a logical and necessary next step to ensure that these gains are not only maintained, but strengthened over time.

In particular, I support efforts to:

- Increase the size and connectivity of MPAs to support ecosystem-scale resilience
- Protect critical habitats such as kelp forests, estuaries, and spawning grounds
- Ensure strong enforcement and monitoring to maintain ecological integrity
- Incorporate adaptive management strategies to respond to climate-driven changes in ocean conditions

Healthy marine ecosystems are foundational not only to biodiversity, but also to California's fishing economy, tourism industry, and coastal communities. By investing in long-term conservation through MPAs, the state is safeguarding both environmental and economic sustainability.

I encourage the Department and Commission to continue prioritizing science-based decision-making and to move forward with policies that expand and strengthen California's MPA network.

Thank you for the opportunity to provide public comment.

Sincerely,

Sawyer Sacket

Paso Robles, CA

From: Robert Groeber <[redacted]>
Sent: Tuesday, April 21, 2026 02:39 PM
To: FGC <FGC@fgc.ca.gov>
Subject: Fish and Game Commission Meeting May 5, 6, 2026

April 21, 2026

California Fish and Game Commission

P.O. Box 944209

Sacramento, CA 94244-2090

Submitted electronically to fgc@fgc.ca.gov

Re: May 5,6,2026 Fish and Game Commission Meeting Agenda Item 2: Bin 2 MPA Petitions

Dear President Sklar and honorable Commissioners and Staff,

I am writing to express my strong support and gratitude to the Department of Fish &

Wildlife (Department) for their thoughtful and thorough analysis of the Marine Protected Area (MPA) petitions and my full agreement with their recommendations.

I strongly encourage the Commission to adopt the thoughtful, empirical recommendations of the Department's career staff scientists and to judiciously consider the diverse communities

who would be critically impacted by additional closures to coastal fisheries.

The Department's consistent application of the guidance provided by the Master Plan for MPAs, historical documentation of the original MLPA decision making process, and evaluation of best available science and policy was robust and transparent. While there were petitions that pro-fishing advocacy groups advocated for alternative outcomes, I recognize and

respect the determinations of Department staff and stand behind the established process for informed decision-making regarding petitions.

The Department's approach was not developed in a vacuum. Rather, it was the direct result of over two and a half years of Commission and MRC meetings, countless hours of testimony and thousands of pages of stakeholder input.

In addition, regular citizens, tribes,

other government agencies, and a myriad of NGOs shared their perspectives to ensure a clear and transparent process for petition evaluation and prioritization. From the initial referral of the petitions to the analysis and adoption of Bin 1, the creation of the decision-making matrix, creating a committee of the whole to hear the arguments, and a myriad of

other milestones, this process was the culmination of a diverse set of stakeholder voices and grounded in longstanding law and procedure. The Department's science-based recommendations are thus bolstered by the voices of a large and diverse constituency who helped to formulate the transparent process.

I strongly encourage the Commission to

honor the outcome of years of diligent work and to recognize the Department's

recommendations as the authority on these matters. The Commission can be confident that this decision will set the standard for our MPA network to be adaptively managed by science, stakeholder input and law, rather than

ideology or emotion, exactly as the MLPA dictated.

Furthermore, I look forward to reviewing the Department's recommendations on the

remaining petitions now classified as tribally led or co-led. I respect tribal sovereignty, the principles of tribal co-management and tribal authority to

conduct government to government consultations regarding tribal interests and access to natural resources. At the same time, I respectfully request that any decisions to expand the MPA network and

to close recreational access to fishing for the general public follow the guidance provided by the Master Plan for MPAs and the science-based decision-making

framework that has guided the MPA petition evaluation process over the past several years.

Stay safe and healthy!

Carpe Diem!

Robert Gröeber

[redacted]

Port Hueneme CA [redacted]

[redacted]

[redacted]

iSent from my wonderfully iDdictive fujiPhone! Please forgive spelling and typographical errors...

Harry Liquornik
[redacted]
Santa Barbara, CA [redacted]
Fishing Vessel Abreojos

April 21, 2026

California Fish and Game Commission
California Department of Fish and Wildlife
Via email to fgc@fgc.gov.ca

Public Comment- Regional MPA meeting Goleta, California May 5-6

Dear Commissioners, Commission and Department Staff:
I have been a commercial diver and fishermen for 41years based out of Santa Barbara. My primary fishing experience is with abalone, sea urchins, sea cucumbers, and more recently, kelp harvesting. I have engaged extensively with fisheries management policies and plans beginning in the early 90s. I have sat on numerous advisory committees, panels and boards of fishing organizations, I was the president of Commercial Fishermen of Santa Barbara starting in 1997 for about 12 years. During that period The Marine Life Management Act and Marine Life Protection Act were legislated and enacted. Other Organizations and committees I have sat on include the following:

Fishing Associations:
California Abalone Association
California Sea Urchin Commission
Commercial Fishermen of Santa Barbara Inc.

Committees and Advisory Panels:
Fish and Game Directors Abalone Advisory Committee (Commercial fishery)
Fish and Game Directors Sea Urchin Advisory Committee
Channel Islands National Marine Sanctuary Advisory Council
Channel Islands Marine Reserve Working Group
My interest and support for marine reserves began in the early 90s with the closure of the Black abalone fishery. At that time, there was only one small marine reserve at Anacapa Island. The data showed the decline in Black abalone population in the Anacapa reserve was very similar to the decline in the fished areas. However, without a larger network of marine reserves there was not enough data to determine how much of the population decline could be attributed to fishing. This scenario played out again over the next handful of years with the closure of the Pink, Green and Red abalone fisheries with no reserve networks in place there was no way to determine the effects of fishing vs environmental changes.
My comments here are to address the current process, with the hope that the current process and future processes for managing marine reserves can be improved.
Being directly involved with the Channel Islands process and limited involvement with the MLPA process I cannot stress enough the importance of a robust regional public process prior to any regulatory/petition process.
I would recommend implementing regional working groups and leaving them in place, overtime managing marine reserves and fisheries management would benefit immensely.

Sincerely
Harry Liquornik

[redacted]

From: California Surf Fishing <calisurffishing@gmail.com>
Sent: Friday, April 17, 2026 09:46 PM
To: FGC <FGC@fgc.ca.gov>
Subject: Shore Fishing in Highly Protected SMCAs - Written Comment

Dear Commissioners,

This is Kaspar Kazazian with www.CaliforniaSurfFishing.net and www.instagram.com/CaliforniaSurfFishing.

It was a pleasure speaking with each of you on this topic and also commenting during the April 15 meeting.

We applaud CDFW's recommendation to continue permitting shore fishing in the expanded Duxbury SMCA. However, we have serious concerns that other shore fishing opportunities will be limited due to CDFW's use of an outdated 2009 SAT framework, which classified shore fishing as a low level of protection. Several petitions allowing shore fishing (such as Point Dume) were denied in the CDFW recommendations, citing this outdated low level of protection.

As I stated during the April 15 FGC meeting, the latest MPA science attributes a high level of protection to SMCA's that allow shore-only fishing, not low. Since 2009, the original SAT rationale has been shown to be flawed, overstating the cascading effects of shore fishing on deeper SMCA fish populations.

Please see our page below for a thorough justification of shore fishing in highly protected SMCAs, with data and references: https://www.change.org/p/allow-shore-fishing-in-smca-s

The page also shows signatures and written comments from 1,300+ surf fishermen in support of SMCA shore fishing.

After reading our page, we hope you more accurately and favorably evaluate petitions that allow SMCA shore fishing (Mishopshno, Point Dume, etc).

Alternatively, catch and release shore fishing is a very conservative option with scientific consensus; even the 2009 SAT attributed a high level of protection to SMCAs with catch and release shore fishing. While the data and references in the link above are for catch and keep shore fishing, catch and release shore fishing is an alternative that is already culturally engrained in shore fishing.

Shore fishing represents one of the most accessible and equitable forms of outdoor recreation, in alignment with several DMR recommendations and the MLPA. It is also one of

the most popular forms of fishing in California, accounting for 34% of fishing trips according to recent CRFS data. Many local businesses are dependent on a thriving shore fishery.

Thank you.

Jenn Eckerle

April 18, 2026

Executive Director

California Ocean Protection Council (OPC)

Sent electronically to: jenn.eckerle@resources.ca.gov

RE: Comments on OPC's March 20, 2025, letter to the California Fish and Game Commission (CFGC) RE Marine Protected Area petitions

Dear Ms Eckerle,

Please accept the following comments from the San Diego Fishermen's Working Group (SDFWG), the Alliance of Communities for Sustainable Fisheries (ACSF), and the California Fishermen's Resiliency Association (CFRA), regarding OPC's letter to the CFGC. Thank you for providing an opportunity to comment on this important topic.

Who we are

The San Diego Fishermen's Working Group (SDFWG) was formed in 2011 to provide a unified voice to commercial fishermen of all gear types in the greater San Diego region. We are a 501(c)(3) non-profit organization, purposed to bring the collective views of commercial fishermen to fisheries science and management, and to any public process that may impact the success of our fisheries. The SDFWG is guided by a nine person Board of Directors (Board), representing the various important gear types and fisheries in the region.

The Alliance of Communities for Sustainable Fisheries (ACSF) is a 25-year-old 501(c)(3) not-for-profit organization, founded for the purposes of educating the public on fisheries issues, connecting fishing men and women ("fishermen") with their communities, and representing fishing interests in state and federal processes. The

ACSF is a regional organization, with commercial fishing leaders, representing Monterey, Moss Landing, Santa Cruz, Morro Bay, Pillar Point, Port San Luis, and Santa Barbara, on our Board of Directors. Thus, the ACSF represents a large cross-section of fishing and community interests for the Central Coast of California.

In January 2022, California port commercial fishermen's associations formed the California Fishermen's Resiliency Association (CFRA), a California Nonprofit Mutual Benefit Corporation. CFRA's Board of Directors is composed of port-level fishing organizations from Crescent City to San Francisco. In addition, CFRA includes consulting members from ports throughout the state, from San Diego to Crescent City, and currently represents seventeen separate fishermen's organizations (as of July 2025). CFRA represents its members' interests and provides support at the local, state, and federal levels on issues of spatial challenges, including access to fishing grounds, marine protected areas, non-fishing ocean industrialization, ecological and environmental concerns, zoning, port infrastructure, and impact mitigation. CFRA represents all fisheries and gear types through its member associations.

The term *fishermen* is inclusive of both our fishing men and women for all associations.

Policy Comments

The opening paragraph of the OPC's March 20, 2026 states:

"OPC is statutorily responsible for the direction of MPA policy (SB 96, 2013) and in this role, we set strategic priorities for the Network, lead coordinated implementation of the State's MPA Management Program, and convene the MPA Statewide Leadership Team, an advisory body of state and federal agencies, tribal representatives, and implementation partners, to coordinate MPA management activities across the state."

This section appears to assert an OPC role for MPA considerations superior to the DFW and FGC. Can you clarify if that is the OPC's contention? If so, what is the role of the CDFW's scientific assessment of the MPA petitions and of the CFGC?

OPC's Strategic Plan includes the explicit objectives of strengthening the performance and durability of California's MPA network. We wonder, what will the standard be for determining if MPA's must be "strengthened"? We suggest objectives need to be clearly defined and measurable, that major biodiversity benefits from no-take MPAs should only be expected where fishing pressure is very high, that the threats to biodiversity be identified and should determine the appropriate actions, and recognize that no-take areas are not effective against many of the threats.

The OPC asserts that it must use the principles of adaptive management in assessing the merits of MPA petitions, yet it dismisses out-of-hand several that would open certain MPA's to limited harvest. It appears that adaptive management is viewed as a one-way street: always aimed at increasing restrictions. A case in point: The petitions that propose opening two SMR's (Stewards Point and Bodega Head) to salmon trolling are not considered. This appears to be evaluated as a policy issue rather than a science issue. The ACSF and SDFWG find this deeply alarming. We dispute that fishing for salmon and other highly pelagic species contains any problem for which an MPA is the answer.

It is also exasperating that the OPC's role in meeting the "30X30" goal of protection does not include acknowledgement of many other state and federal regulations and closures. It would seem that ecosystem-based management by the state would include these, as well as large, pending closures such as will come from federal Aquaculture Opportunity Areas and Offshore Wind development. The state water boundary does not define an ecosystem.

OPC makes it clear that it will evaluate petitions modified after CDFW's cut-off of March, 2025. That is fair, but we presume that CDFW's science team will have an opportunity to provide additional review of the changes as well, before the petitions go to the OPC. Is that a fair assumption?

Last, the ACSF and SDFWG are pleased to see in the OPC letter the goal of "supporting thriving fishing communities". We note that some fishing communities are faring better than others but none are "thriving". This is one factor that saw the FGC recently adopt a policy for protecting fishing communities.

Science Comments

Members of the ACSF and SDFWG are not scientists. This said, many of our members pay close attention to the evolving science, including reading the literature, that supports fisheries management, ecosystem health, and understanding the problems that MPA's address or can not address. In many cases our decades of on-the-water observations can and have been used to support scientific research. This the background that we offer our opinions on some of the science claims in the OPC letter.

The OPC letter observes that even if all of the petition requests are met, "fishermen will still have 83% of state waters to fish in". We find this to be maddingly simplistic. Even a basic understanding of fisheries will teach that fisheries are habitat-based. Different species require different habitats. If a large percentage of a particular habitat is removed from fishing opportunity, that fishery will wither. During the first MLPA initiative, as much as 45% of quality hard-bottom habitat was placed into MPA's, thereby concentrating the

displaced fishermen into the remaining open area for their particular fishery. Highly mobile species, such as salmon, swordfish, and sardines, range coastwide depending sea surface temperatures and other natural factors. Fishermen are also subject to limited entry management—meaning it takes a special permit to fish for specific seafood. Often limited entry permits are quite expensive, if available at all. Thus, fishermen can't often switch from one fishery to another, to fish different habitats..

The OPC letter claims that the Decadal Management Review…showed that the state's MPA network is improving ocean health. The decadal review states: "Although biodiversity of select marine species was higher inside MPAs in some habitats and bioregions (Appendix B.2-B.4), statewide and regional trends across habitats showed no difference in biodiversity inside compared to outside MPAs." While global analysis shows the diversity of species inside MPAs was higher than outside (Lester et al., 2009) this was not found in California's MPA network.

The Decadal Review also concluded: "Some ecological communities demonstrated greater resiliency inside MPAs compared to those outside of MPAs and recovered more quickly after the heatwave, though analysis across habitats in the central coast revealed that MPAs did not provide strong resilience against the marine heatwave." In papers we found in the scientific literature, Smith et al. (2023) examined climate resilience from the MLPA and concluded, "Collectively, our findings suggest that MPAs have limited ability to mitigate the impacts of marine heatwaves on community structure." Another paper, Freedman et al., (2020), looked at a range of species in kelp ecosystems and concluded the MPAs had not provided any resilience to the community.

We note that other ocean stressors, such as ocean acidification, fish migration, ocean pollution, and wasting diseases, do not benefit from MPA designations.

Much of the science that make claims of increased abundance inside MPA's, compared to "control" areas neighboring these MPA's. Since MPA's displace fishing effort outside of the MPA, there is little to no net increase in abundance. Further, as a control area, since fishermen are displaced to that area, it can never be a real control area.

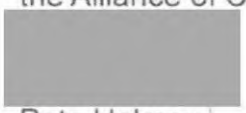
Additionally, almost all of the published papers on MPAs equate evidence of spillover to areas outside MPAs to net increases in total abundance and catch (da Silva et al., 2015; Harmelin-Vivien et al., 2008; Di Lorenzo et al., 2020; Medoff et al., 2022). This assumption is not supported by either theory or empirical evidence. Because fish and/or larvae move, there will always be gradients in abundance near the edge of an MPA. However, it does not mean there are regional increases in abundance if the area outside has higher fishing pressure (Hilborn et al., 2025), nor that there is more catch simply because fish move from inside to outside. Net movement of eggs, larvae, or large fish from inside to outside is a necessary condition for regional abundance increases and benefits to catch, but numerous models (Botsford et al., 2003; Hilborn et al., 2006; White et al., 2011; White et al., 2013; Ovando et al., 2021) have found that to increase catch, overfishing must be taking place and the size of the MPAs must be matched to the movement of the fish. Overfishing is not occurring in California waters.

There is convincing evidence that fish inside MPA's are larger, and more fecund. However, fishery management regulations already set size limits on most species to address sustainability of populations. And, if larger fish are to be protected, regulations could increase species size, statewide, and not just in MPA's.

Tribal Petitions

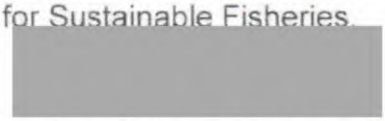
While the idea of Tribal co-management of state MPA's merits consideration, such management should occur within the existing MPA's. Since the MLPAI process took much of the very best habitat for MPA designation, it is appropriate that tribal co-management occur in these areas for ceremonial and subsistence purposes.

Thank you for considering the views of the San Diego Fishermen's Working Group and the Alliance of Communities for Sustainable Fisheries.



Pete Halmay

President, SDFWG



Ken Bates & Linda Hildebrand

Executive Directors CFRA

Alan Alward

Co-Chair, ACSF

cc

California Fish and Game Commission

Department of Fish and Wildlife

Staci Lewis/OPC

From: Darren Gertler <[redacted]>
Sent: Monday, April 20, 2026 10:37 AM
To: FGC <FGC@fgc.ca.gov>
Cc: Christopher Killen <chris@allwaters.org>
Subject: Expanding MPA's is not the correct answer

Dear California Department of Fish and Wildlife,

My name is Darren Gertler I live and fish in and around Soquel CA, and I am a teacher, a father, and a lifelong fisherman. I am writing to express my support for the science-based denials of the proposed Marine Protected Area (MPA) expansion plans. Please listen to your educated and objective staff who have recommended denying the petitions that are trying to expand MPAS up and down our shared coastline.

California's fisheries—both recreational and commercial—are widely recognized as some of the best managed in the world. This success is rooted in sound science, adaptive management, and a strong culture of stewardship among those who depend on these resources. Expanding MPAs beyond what science supports risks undermining that balance.

I am especially concerned about the long-term impact on future generations. If my 11-year-old daughter is not allowed to fish and meaningfully interact with her local waters, she risks growing up disconnected from the very environment we hope she will protect. She caught and cooked her first lingcod this weekend which will be an event she will remember for the rest of her life. It will guide her to protect and restore her environment. Direct experience with our nearshore ecosystems nurtures not only her ability to provide for herself, but also her sense of responsibility, respect, and advocacy for conservation and access.

Access to these waters helps cultivate the next generation of environmental stewards. Without that connection, we risk losing both the cultural and conservation-minded legacy that has made California a leader in fisheries management.

Thank you for considering my perspective.

Sincerely,
Darren Gertler

CALIFORNIA FISH AND GAME COMMISSION
RECEIVED 4/21/2026

County of Santa Cruz

BOARD OF SUPERVISORS

701 OCEAN STREET, SUITE 500, SANTA CRUZ, CA 95060-4069
(831) 454-2200 FAX: (831) 454-3262 TDD/TTY - Call 711

MANU KOENIG	KIMBERLY DE SERPA	JUSTIN CUMMINGS	FELIPE HERNANDEZ	MONICA MARTINEZ
FIRST DISTRICT	SECOND DISTRICT	THIRD DISTRICT	FOURTH DISTRICT	FIFTH DISTRICT

April 20, 2026

California Fish and Game Commission
1416 Ninth Street, Suite 1320
Sacramento, CA 95814

RE: Reaffirmation of Santa Cruz County Board of Supervisors' Opposition to Marine Protected Area Petition 2023-33MPA

Dear President Sklar, Vice President Anderson, and Members of the California Fish and Game Commission,

On behalf of the Santa Cruz County Board of Supervisors, I write in strong support of the California Department of Fish and Wildlife's Evaluation of the 2023 Decadal Management Review Marine Protected Area Petition's recommendation to **deny** Marine Protected Area Petition 2023-33MPA, which proposes to expand the State Marine Reserve (SMR) at Natural Bridges by 14.5 square miles and establish a new State Marine Conservation Area (SMCA) of approximately 3.2 square miles at Pleasure Point. The California Fish and Game Commission (CFGC) is scheduled to consider this petition on April 21, 2026, and we urge the Commission to reject it in its current form.

The Board first acted on this matter on March 12, 2024, voting unanimously to oppose the petition absent significant revisions. At that time, the Board identified four specific conditions that would need to be satisfied before further consideration was warranted:

1. Conduct studies to evaluate the specific factors influencing kelp forest expansion and contraction on the Central California Coast, including the role, if any, of recreational fishing activities.

2. Hold community outreach forums to inform the public about the purpose and scientific rationale for the proposed MPA changes.

3. Convene a regional stakeholder group, including scientists, environmentalists, fishers, indigenous tribes, and elected officials, to help determine appropriate designations and regulatory frameworks.

4. Identify specific areas where current management is failing to sustain kelp forests and prioritize MPA protections accordingly.

Unfortunately, the amended petition does not address the scientific and procedural deficiencies the Board identified. Since our 2024 action, the petitioners have met with the Third District office only once and to our knowledge have engaged minimal outreach with the broader community of stakeholders, including local fishers, Santa Cruz and Capitola City Councils, indigenous tribes, scientists, and residents directly affected by the proposed restrictions. This is not an acceptable foundation for regulations of this magnitude. For these reasons, on March 24, 2026, the Santa Cruz County Board of Supervisors unanimously voted to reaffirm their opposition to the creation of these two MPA's.

Our concerns fall into five principal areas:

1. Insufficient Scientific Evidence

The petition's central premise — that restricting recreational fishing will advance kelp forest health and expansion — is not supported by the available science. A December 2021 technical report on Monitoring and Evaluation of Kelp Forest Ecosystems in the MLPA Marine Protected Area Network found no substantial negative effect from current uses on average kelp canopy area in existing MPAs. Critically, the report found no effect of MPA status on kelp forest resilience during the 2014–2016 Marine Heat Wave, and found that existing Central Coast MPAs were evenly split between higher and lower resilience than nearby non-MPA reference sites. These findings do not support the conclusion that expanding MPAs in the proposed areas will reliably produce the outcomes the petitioners seek.

2. Proposed Areas Already Support Healthy Kelp Forests

The areas targeted by this petition contain persistent, stable kelp beds that recovered effectively from the 2014–2016 Marine Heat Wave. By focusing on sites where kelp is already thriving under current management, including existing recreational fishing activity, the petition undermines its own rationale. There is no data indicating that recreational fishing intensity in these areas is inhibiting kelp forest growth. Regulatory restrictions should be directed where management is demonstrably failing.

3. Significant Impacts on Recreational and Subsistence Fishing

A State Marine Reserve designation prohibits any taking or possession of living, geological, or cultural marine resources except under specific permits. Expansion of the

Natural Bridges SMR would curtail recreational and subsistence fishing opportunities for residents who depend on coastal access for recreation, cultural practice, and livelihood. While the amended petition proposes to create a State Marine Conservation Area that allows for shore-based recreational hook-and-line fishing and spearfishing (as opposed to the previously proposed SMR) we remain concerned that the designation will limit recreational and subsistence fishing opportunities in this area, where small vessels, kayaks, and paddle boards are also utilized for these purposes, and will provide no benefits that will improve kelp forest health through the new regulation.

The Santa Cruz region already carries significant protective designations through the Monterey Bay National Marine Sanctuary and multiple existing MPAs. Further restrictions, absent compelling and site-specific scientific justification, would impose disproportionate burdens on our community by further reducing access to marine ecosystems.

4. Inadequate Stakeholder Engagement and Public Outreach

Many residents first became aware of these proposals only when the item appeared on the Fish and Game Commission's agenda. A significant portion of the affected community remains uninformed of the proposed changes to this day. Sound environmental policy requires meaningful community engagement from the outset. That has not occurred here.

Santa Cruz County has a proud tradition of environmental stewardship grounded in balanced, evidence-based decision-making. We remain deeply committed to the health and resilience of our marine ecosystems. It is precisely because of that commitment that we cannot support a regulatory approach that lacks rigorous scientific justification, bypasses meaningful community participation, and imposes burdens on residents without a demonstrated need to do so.

5. Concurrence with Recommendations Proposed by Fish and Wildlife Staff

After reading the recommendations that were provided by Fish and Wildlife staff, we agree with their recommendations that overall the expansion of the Natural Bridges MPA would be unnecessary to achieve the goals of protecting kelp, which occurs mostly near shore, and the original intent of this particular MPA, which was designed to protect intertidal and nearshore habitats while minimizing socio-economic impacts. We also agree that the creation of the Pleasure Point MPA would be too small in nature to provide meaningful ecological impacts and instead impose socioeconomic impacts on residents and visitors to the region.

We respectfully urge the California Fish and Game Commission to deny Petition 2023-33MPA. If there are future efforts to expand MPA's in the Santa Cruz region, we hope to be notified of such changes and would encourage that any changes be driven by the scientific community, and include extensive community outreach and regional stakeholder engagement that the seriousness of these kinds of proposals demand. As a community that is a leader in environmental protection, we are committed to protecting our environment while balancing that with public access and we are always open and available to work with all parties to strike a healthy balance for both activities.

Thank you for your consideration of the Board's position.

Sincerely,

MONICA MARTINEZ, Chair
Santa Cruz County Board of Supervisors

Cc: Senator Laird
Assemblymember Pellerin
Assemblymember Addis
Speaker Rivas
Mayor and City Council, City of Capitola
Mayor and City Council, City of Santa Cruz

From: mbcfo member <[redacted]>
Sent: Tuesday, April 21, 2026 02:57 PM
To: Miller-Henson, Melissa@FGC <Melissa.Miller-Henson@fgc.ca.gov>; FGC <FGC@fgc.ca.gov>
Subject: Peer reviewed studies show minimal if any benefit of MPAs.

Dear California Fish and Game Commission,

Before adding more MPA's, you should realize the science shows they are not increasing biodiversity, biomass and/or increasing resiliency against climate change- contrary to what you have been told.

1. MPA's do not add residency from heat waves.

2. MPA's do not increase biodiversity.

3. MPA's do not increase the total biomass densities or population levels.

If you want to help the sustainability of the commercial fishing community, give the fishermen back more valuable habitat to fish, put back the 2 month seasonal closure of the nearshore fishery during spawning, and perhaps try a slot size limit. Adding MPAs will only make things worse.

Tom Hafer

Secretary MBCFO

[redacted]

[redacted]

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Conservation Biology

CONTRIBUTED PAPERS

Assessing the population-level conservation effects of marine protected areas

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Article impact statement: Population-level conservation effects of marine protected areas are likely to be extremely challenging to measure and detect.

Abstract

Marine protected areas (MPAs) cover 3–7% of the world's ocean, and international organizations call for 30% coverage by 2030. Although numerous studies show that MPAs produce conservation benefits inside their borders, many MPAs are also justified on the grounds that they confer conservation benefits to the connected populations that span beyond their borders. A network of MPAs covering roughly 20% of the Channel Islands National Marine Sanctuary was established in 2003, with a goal of providing regional conservation and fishery benefits. We used a spatially explicit bioeconomic simulation model and a Bayesian difference-in-difference regression to examine the conditions under which MPAs can provide population-level conservation benefits inside and outside their borders and to assess evidence of those benefits in the Channel Islands. As of 2017, we estimated that biomass densities of targeted fin-fish had a median value 81% higher (90% credible interval: 23–148) inside the Channel Island MPAs than outside. However, we found no clear effect of these MPAs on mean total biomass densities at the population level: estimated median effect was –7% (90% credible interval: –31 to 23) from 2015 to 2017. Our simulation model showed that effect sizes of MPAs of <30% were likely to be difficult to detect (even when they were present); smaller effect sizes (which are likely to be common) were even harder to detect. Clearly, communicating expectations and uncertainties around MPAs is critical to ensuring that MPAs are effective. We provide a novel assessment of the population-level effects of a large MPA network across many different species of targeted fin-fish, and our results offer guidance for communities charged with monitoring and adapting MPAs.

KEYWORDS
bioeconomic modeling, causal inference, Channel Islands National Marine Sanctuary, marine conservation, marine protected area networks, program evaluation

Resumen

Las áreas marinas protegidas (AMPs) cubren entre 3–7% de los océanos del planeta y las organizaciones internacionales piden una cobertura del 30% para el 2030. Aunque numerosos estudios muestran que las AMPs producen beneficios de conservación dentro de sus límites, muchas de estas áreas también están justificadas por otorgarles beneficios de conservación a las poblaciones conectadas que abarcan más allá de sus fronteras. Una red de AMPs que cubre aproximadamente el 20% del Santuario Marino Nacional de las Islas del Canal fue establecida en 2003 con el objetivo de proporcionar beneficios para la conservación y las pesquerías regionales. Usamos un modelo de simulación bioeconómica

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espacialmente explícito y una regresión bayesiana de diferencia-en-diferencia para examinar las condiciones bajo las que las AMPs pueden proporcionar beneficios de conservación a nivel poblacional dentro y fuera de sus límites y para evaluar las evidencias de esos beneficios en las Islas del Canal. Hasta el 2017, estimamos que la densidad de la biomasa de los peces focalizados tuvo un valor medio de 81% (90% intervalo creíble 23–148) dentro de las AMPs de las Islas del Canal que fuera de ellas. Sin embargo, no encontramos un efecto claro de estas AMPs sobre la densidad de biomasa total promedio a nivel poblacional; el efecto medio estimado fue de -7% (90% intervalo creíble -31 - 23) entre 2015 y 2017. Nuestro modelo de simulación mostró que los tamaños del efecto de las AMPs menores al 30% tenían mayor probabilidad de ser difíciles de detectar (incluso cuando estaban presentes); los tamaños de efecto más pequeños (que es probable que sean comunes) fueron incluso más difíciles de detectar. Claramente, es muy importante comunicar las expectativas e incertidumbres en torno a las AMPs para asegurar que éstas sean efectivas. Proporcionamos una evaluación novedosa de los efectos a nivel poblacional de una red extensa de AMPs para muchas especies de peces focalizados y nuestros resultados ofrecen una guía para las comunidades encargadas de monitorear y adaptar las AMPs.

PALABRAS CLAVE
conservación marina, inferencia causal, modelo bioeconómico, programa de evaluación, redes de áreas marinas protegidas, Santuario Marino Nacional de las Islas del Canal

INTRODUCTION

No-take marine protected areas (MPAs), spatial regions of the ocean in which fishing is prohibited, have a long history in the management of marine resources (Johannes, 1978). Modern MPAs were first established largely as marine analogs to the terrestrial protection of iconic landscapes (IUCN, 1976). Recent international efforts to expand MPAs, such as The International Union for Conservation of Nature's 30% by 2030 MPA targets, are based in part on the assumption that well-designed MPAs will not only provide conservation benefits inside their borders, but also have broader conservation effects on unprotected areas surrounding the MPAs, whether MPAs are designed explicitly for conservation, fishery benefits, or both (Gaines et al., 2010).

The empirical MPA literature has focused on assessing the ability of MPAs to provide conservation gains within their borders (Lester et al., 2009; Edgar et al., 2014). However, as conservation benefits accrue inside MPAs, MPAs also affect the waters beyond their borders through the spillover of adult and larval fish from the protected to the fished areas, as well as through displacement of fishing effort. Therefore, MPAs contribute to local and regional population-level effects. Numerous factors influence the population-level effects of MPAs. These include the scale of adult and larval dispersal relative to the size of the MPAs (Gaines et al., 2003); strength, timing, and location of density dependence (Burgess et al., 2014); design of the network (Gaines et al., 2010; Rassweiler et al., 2014); degree of enforcement (Edgar et al., 2014); level of fishing pressure; time span under evaluation; and how fishing and management responds to the implementation of the MPAs (Walters et al., 2000; Botsford et al., 2003; Gerber et al., 2003; Smith & Wilen, 2003; Hilborn et al., 2004; Gaines et al., 2010; White et al., 2011; Moffitt et al., 2013; Ovando et al., 2016; Jaco & Steele, 2020).

This largely theoretical literature is generally based on modeling of closed populations with some fraction protected inside MPAs. In contrast to this population paradigm used in MPA simulations, MPAs are often evaluated empirically at local scales with spatial response ratios, commonly measured as the ratio of biomass densities (weight of organisms per unit area) of species inside relative to selected control sites outside MPAs (Halpern, 2003; Lester et al., 2009; Edgar et al., 2014; Caselle et al., 2015). These studies show clear evidence that well-enforced and sufficiently sized MPAs are associated with high response ratios. Several studies document empirical evidence for the existence of adult or larval fish spillover affecting fish abundance (Russ & Alcala, 1996; McClanahan & Mangi, 2000; Halpern et al., 2009; Kay et al., 2012). Where response ratios are available before and after MPA implementation, spatial before-after-control-impact (BACI) style studies show similarly clear and positive results (Thiault et al., 2019). These studies demonstrate the ability of MPAs to create differences between local fished and unfished areas.

What is lacking is clear evidence for the population-level effects of MPAs. Spatial inside-versus-outside studies rely on an assumption that selected control sites serve as a measure of what would have happened in the absence of MPAs. Habitat characteristics are often used to justify the selection of particular fished sites as counterfactuals (controls) in response ratios (Ferraro et al., 2019). However, beyond habitat differences, the very spillover effects it is hoped MPAs produce can negate the ability of spatial response ratio or BACI designs to accurately estimate the effects of MPAs because these methods require that control sites be conditionally unaffected by the treatment (Moffitt et al., 2013; Ferraro et al., 2019). Spillover of adults or larvae from MPAs to control sites can mask conservation benefits, whereas displacement of fishing effort from MPAs to control sites (which is rarely addressed directly

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[Ferraro et al., 2019]) can lead to overestimates of conservation gains caused by MPAs measured by spatial response ratios. Control sites sufficiently far from MPAs to negate both spillover of fish or larvae and concentration of the fishing fleet could be selected, but finding suitably distant sites that are also appropriate proxies for the ecological and economic context of the MPAs is challenging. Because variations of spatial response ratios and BACI studies have been a primary source of evidence for the conservation effects of MPAs, this means empirical understanding of the population-level impacts of MPAs is surprisingly limited.

We conducted a paired theoretical and empirical assessment to examine the challenges of assessing population-level impacts of MPAs. In 2003, a network of MPAs was established in the Channel Islands National Marine Sanctuary, California (USA) (hereafter Channel Islands). This MPA network covers approximately 20% of the Channel Islands' waters (which span over 800 km^2). The network has been used as a model in protected area design around the world (Botsford et al., 2014). We used data from the first 14 years of protection in a difference-in-difference (DiD) model (Angrist & Pischke, 2009) to assess the population-level effect of a large MPA network on a wide array of fin-fish species. Rather than relying on spatial controls, we used groups of species targeted and not targeted by fishing pressure as our treatment and control groups. We built on existing MPA theory to interpret our results and devised guidance for scientists and managers as to when and how they might expect to detect population-level conservation effects of MPAs.

METHODS

We built a spatially explicit bioeconomic simulation model and conducted a Bayesian DiD regression. The DiD is akin to a BACI in that it is used to assess changes in control and treatment groups before and after treatment (Larsen et al., 2019). We used our bioeconomic simulation model to provide theoretical expectations of population-level effects of MPAs, which we then compared with the empirical results from our DiD regression.

All analyses were conducted in R (R Core Team, 2019). Our DiD regression was fit with Stan (Carpenter et al., 2017) through the rstanarm package (Goodrich et al., 2020). All data and code needed to fully replicate our study are publicly available from github.com/DanOvando/population-effects-of-mpas. Detailed descriptions of the simulation model structure and sensitivity analyses of our estimation model are in Appendix S2.

Simulation model

Our bioeconomic model simulated the effect of MPAs on a spatially explicit age-structured representation of a fish population. Readers can explore the functionality of the model with the online tool available from danovando.shinyapps.io/simmpa/. The purpose of the simulation model was to set expectations for our empirical results and demonstrate the ways in which ecological and economic dynamics can interact to produce a wide range of population-level MPA effects. The full range of factors explored and the equations of the simulation model are in Appendix S2. We used this model to generate 10,168 simulated MPA outcomes across 7618 species.

Many authors have presented simulation analyses of MPA outcomes (Fulton et al., 2015). Our model incorporates core ecological and economic drivers of MPA performance assessed by these individual authors into a cohesive model, similar in spirit to Krueck et al. (2017). The simulation model consisted of 50 patches with wrapped edges. For each simulation, we first randomly pulled a species and its associated life-history traits from the FishLife (Thorson et al., 2017) package. We paired these data with randomly selected values governing the characteristics of the simulation (Appendix S2). Key choices available to the model include parameters governing fishing pressure and MPA design. For a given simulation, the model randomly selected a fleet model and fishing effort allocation strategy. The fleet model could be either constant catch (fleet exerts as much effort as needed to maintain a fixed amount of catch), constant effort (fleet maintains a constant amount of effort over time), or open access (fishing effort of fleet expands and contracts in response to available profits). The total fishing effort exerted by the fleet was then distributed in space uniformly, in proportion to spatial catch per unit effort or in proportion to spatial profit per unit effort.

The simulation then applied the fleet model to the population, and in a randomly selected year implemented an MPA network. The model sampled a percentage of the population's range to place in MPAs, and randomly assigned patches to MPAs either across a uniform system or preferentially on higher quality habitat. The model then randomly selected whether fishing effort that used to operate inside the MPAs was redistributed to areas outside the MPAs or left the fishery entirely. We then continued the simulations with the MPAs in place. Each simulation was paired with a simulation identical in every way except that MPAs were not implemented (i.e., a simulated control). Using these paired simulations, we calculated the effect of the MPAs on the population as the difference between biomass densities in the simulation with MPAs and biomass densities in the simulation without MPAs.

These simulation results provided a library of plausible MPA effects for a range of biological and economic assumptions. One set of simulations was specifically designed to reflect the dynamics of the subset of species available in the Partnership for Interdisciplinary Studies of Coastal Oceans (PISCO), which provided the data from the Channel Islands that we used in this study. For this set, we only included species of the same genus as those targeted by fishing in the PISCO data. We also restricted fishing pressure such that the simulated populations were moderately to lightly exploited (because the PISCO data we used exclude deeper water species, such as boccacio [*Sebastes paucispinis*], which were overexploited at the inception of the MPAs, and threatened invertebrates, such as red abalone [*Haliotis rufescens*]), and capped the MPA size at 20% of the population's range (Rassweiler et al., 2012). For each of these Channel Islands

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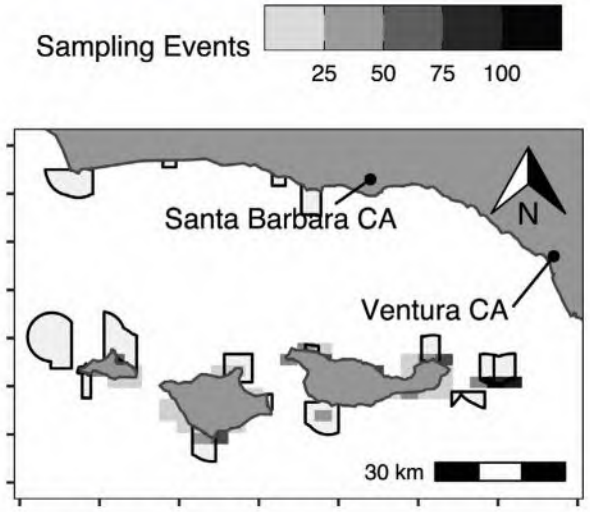

FIGURE 1 Map of the study region in the Northern Channel Islands, California (USA) (shading, binned number of Partnership for Interdisciplinary Studies of Coastal Oceans [PISCO] sampling events over the study period)

simulations, we calculated the true population-wide difference in biomass between the simulations with and without the MPAs and the response ratio of biomass densities inside and outside the simulated MPAs. We then calculated the response ratios observed in the PISCO survey data from the Channel Islands and matched these empirical results with simulations that produced similar response ratios after the same number of years of MPA protection. Because each simulation included measures of both response ratios and population-level effects, this process provided a library of simulations (and their associated attributes) that could have produced the types of empirical response ratios measured in the Channel Islands.

Difference-in-difference regression

We used kelp forest survey data from the PISCO surveys in the Channel Islands in the DiD analyses. Divers from PISCO conducted visual scuba surveys at a large number of rocky reef and kelp forest sites inside and outside MPAs throughout the Channel Islands to produce estimates of densities of fishes that are both targeted and nontargeted by fishers (Figures 1 and 2). The details of the monitoring program are described in Caselle et al. (2015). We defined the population-level conservation effects of MPAs as the change in mean total biomass densities of targeted fin-fish inside and outside MPAs relative to the mean total biomass densities of targeted fin-fish inside and outside MPAs that would have occurred without the MPAs.

Building on Caselle et al. (2015), we used an identification strategy in which 11 species not directly targeted by fishing comprised the control group (nontargeted) and 12 species targeted by fishing comprised the treatment group (Figure 2). We then measured differences between the trends of biomass densities of the treated group relative to the trends we would have expected based on the biomass densities of the control group. Data on targeted fin-fish species in the Channel Islands available to this study included California sheephead (*Semicossyphus pulcher*) and copper (*Sebastes caurinus*) and blue rockfish (*Sebastes mystinus*). Nontargeted species included garibaldi (*Hypsypops rubicundus*), halfmoons (*Medialuna californiensis*), and blacksmith (*Chromis punctipinnis*). Our regression estimated any difference in mean total biomass densities of fin-fish species targeted by fishing effort (i.e., those potentially affected by an MPA) and those species not targeted by fishing before and after MPA implementation. To account for the fact that sampling locations were not uniformly distributed across the islands, we weighted the samples in our regression in proportion to the total area inside and outside the MPAs.

This identification strategy attempted to control for unobserved environmental shocks to the system that are independent of the MPAs. Conditional on the assumptions of the model, this regression produced an estimate of the effect of the MPAs on the mean total biomass densities of targeted species throughout the Channel Islands. For example, consider an evenly distributed population that has 50% of its range protected by an MPA. If the MPA increased biomass densities by 20% insides its boundaries, but had a 0% effect on the connected population outside its boundaries, the population effect of the MPA estimated by our DiD would be 10%.

The DiD regression amounts to estimating the pre- and post-MPA difference in the biomass densities of targeted species, minus the same difference for nontargeted species in the Channel Islands:

$$\left[\log\left(D_{\mathrm{MPA}=1,T=1}\right)-\log\left(D_{\mathrm{MPA}=0,T=1}\right)\right] - \left[\log\left(D_{\mathrm{MPA}=1,T=0}\right)-\log\left(D_{\mathrm{MPA}=0,T=0}\right)\right) \quad (1)$$

where T is targeted ($T = 1$) or nontargeted ($T = 0$) by fishing, MPA indicates whether the data are pre-MPA (0) or post-MPA (1), and D is the observed mean total biomass density across all observations of the appropriate group.

The expanded DiD regression is

$$d_i \sim Gamma\left(e^{\beta_0+\beta_1 T_i+\beta_2 \mathrm{MPA}_i+\beta_3 T_i \mathrm{MPA}_i+\mathbf{B}^c\mathbf{X}_i+\mathbf{B}^s S_i}, \mathrm{shape}\right)$$
$$\mathbf{B}^s \sim Normal(\beta_r, \sigma_r) \quad (2)$$

where d_i is the biomass density at observation i. To account for the fact that MPA effects evolve over time, we estimated a vector of MPA effects in 3-year blocks for all years after the MPAs were implemented in 2003. The $\mathbf{B}^c$ is a vector of coefficients for additional control variables in matrix $\mathbf{X}$, such as water temperature and observer experience, and $\mathbf{B}^s$ is a vector of hierarchical coefficients for each sampling location S, clustered by island β_r with variance σ_r^2. Under the assumptions of this model, β_3 is the causal effect of the treatment (MPA = 1) on the treated targeted group ($T = 1$) (Appendix S4). We used a Bayesian hierarchical generalized linear model because it allowed us to interpret our estimated effects probabilistically. Being a Bayesian regression, our DiD analysis produced posterior probability distributions (the probability distribution of our coefficients conditional on the data, priors, and model assumptions) of our

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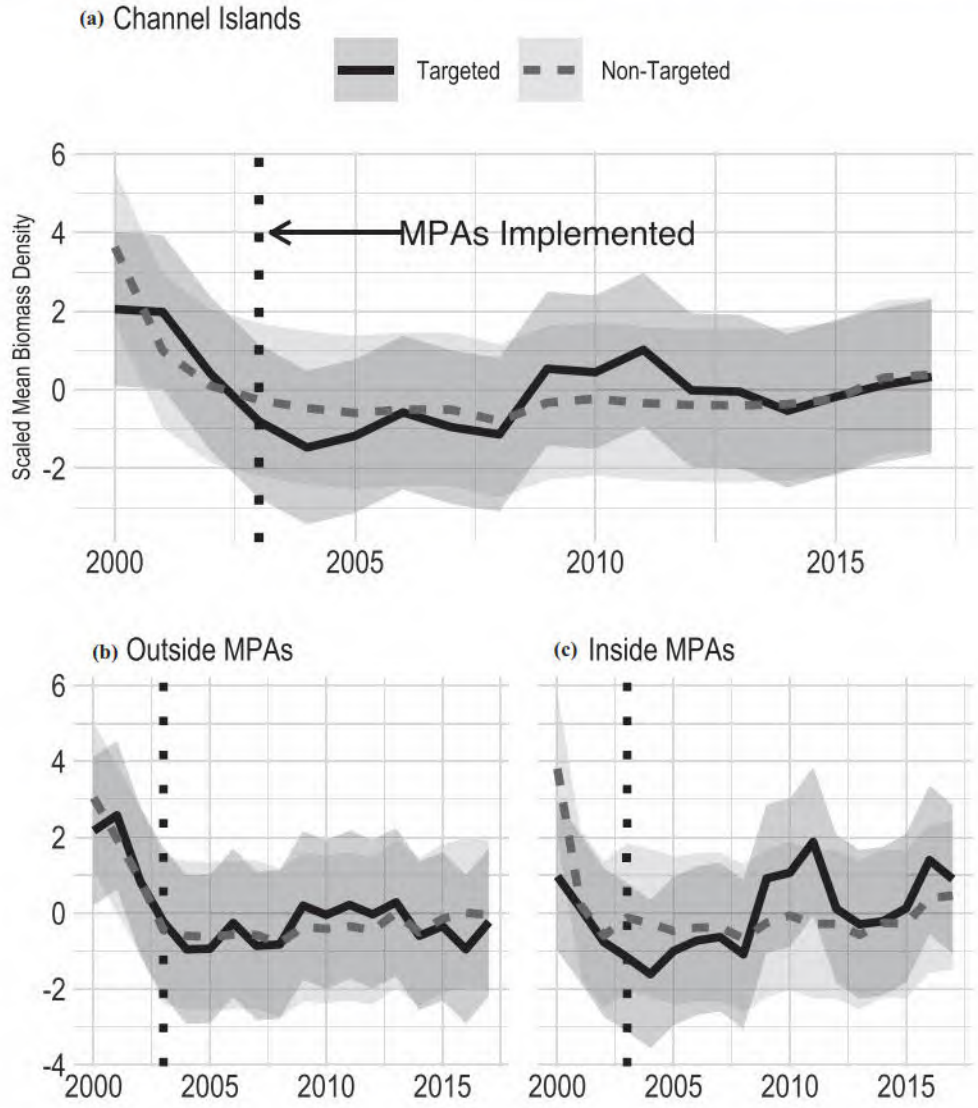

FIGURE 2 Centered and scaled trends in biomass densities of targeted (solid lines) and nontargeted (dashed lines) fin-fish included in our study of the Channel Islands Marine Protected Area (MPA) network: (a) mean trends across all sites and the same trends for sites only (b) outside and (c) inside MPAs (shaded areas, 95% confidence intervals; vertical dotted line, MPA implementation in 2003)

coefficients, from which we constructed Bayesian credible intervals (also termed *uncertainty* or *compatibility* intervals) (Gelman, 2014; McElreath, 2020).

Simulating difference-in-difference performance

Our library of simulation results allowed us to explore how accurate estimates of population-level MPA effects generated by a DiD regression in the style used here are likely to be under a plausible set of scenarios. We fitted a simplified DiD regression to data generated from simulation results that spanned a range of observation error and degrees of autocorrelated recruitment variation and allowed for potentially negatively correlated recruitment shocks between targeted and nontargeted species. We then estimated the percent error between the posterior probability distribution of the estimated MPA effect from the regression and the true simulated MPA effect and examined how the error in the DiD estimate changed as a function of the true simulated MPA effect.

RESULTS

Updating the results of Caselle et al. (2015) with data collected through 2017, we found an increasing but fluctuating trend in the empirical response ratios of targeted species (Figure 3). We then compared these empirical response ratios to the population-level effects generated by simulated MPAs that had simulated response ratios similar to those observed in the data.

Simulations of the Channel Island MPAs that produced response ratios over 50% had a median simulated population-level effect on total biomass of 2.5% (90% of which fell between 0% and 24%). This means that in the majority of simulations, response ratios >50% were produced by population-level

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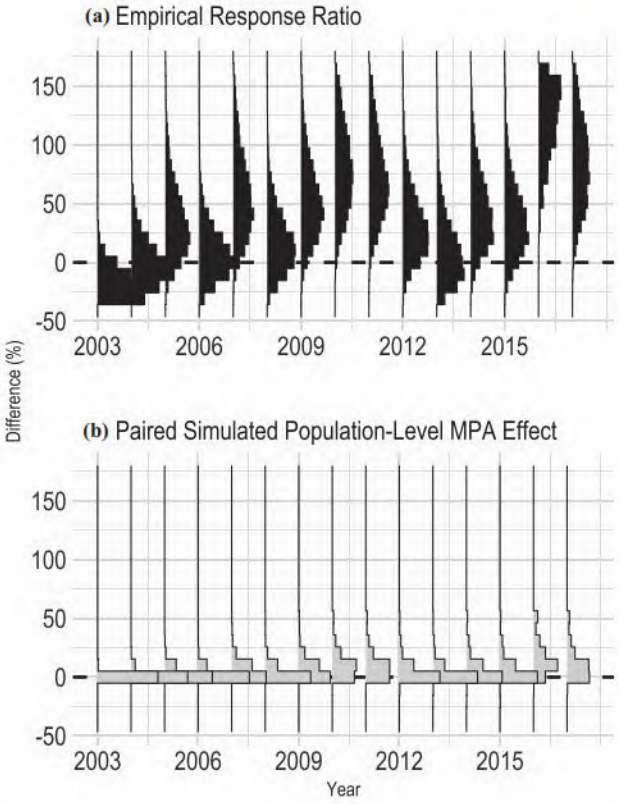

FIGURE 3 For the Channel Islands Marine Protected Area (MPA), (a) empirically observed 90% posterior probability distributions of response ratios of biomass densities inside MPAs relative to biomass densities outside MPAs (0%, biomass densities of targeted species identical inside and outside MPAs; 100%, biomass densities 100% greater inside MPAs than outside) and (b) simulated population-level effects on biomass densities of fin-fish matched to empirical response ratios that could have produced observed response ratios in (a) (0% difference, biomass densities are identical in the with- and without-MPA scenarios; 100% difference, biomass densities are 100% greater in the scenario with MPAs than the scenario without)

effects of <10%, measured as a percent gain in total population biomass inside and outside MPAs.

Over the first 3 years of implementation (2003–2006), the effects of the MPAs were unclear. The median estimated population-level effect over this period was 31%. There was statistical support for a small (3%, bottom 5th percentile of the posterior probability distribution) to large (>69%, top 95th percentile of the posterior probability distribution) effect.

From 2006 to 2012, the model estimated greater probabilities of an increasingly positive MPA effect that peaked in 2009–2011. The median estimate of the population-level MPA effect in this period was a 79% increase in mean total biomass density of targeted species (90% credible interval, 40–133) (Figure 4). These estimates were in line with outcomes our simulation model suggested were plausible. However, in the subsequent years the trend reversed, and in 2015–2017 there was once again no clear effect of the MPAs (median estimated effect, −7%; 90% credible interval, −31 to 23) (Figure 4).

Turning to our assessment of the ability of the kind of DiD model employed here to detect the true population-level effect of an MPA network, the percent error in the DiD regression's estimate of the population-level MPA effect was extremely high when MPA effect sizes were <25%, and the model had both observation and process errors in the simulated data (Figure 5). Even models fitted to data generated from large effect sizes commonly mis-estimated the true MPA effect by 50% or more. Obtaining a mean absolute percent error (MAPE) of 25% or less across our simulated data sets required a true population-level MPA effect of at least 30%.

Two of the most critical drivers of MPA effect size were the size of the MPA network and the degree of fishing pressure (Figure 6). Based on our simulations, the MPA network had to be large (25% or more of a species' range) and the target species overfished (pre-MPA depletion >60%) to achieve an effect size with a likely MAPE of 25% or less (Figures 5 and 6).

DISCUSSION

Containing a carefully designed, well-enforced, and well-studied MPA network, the Channel Islands seems to be an ideal location to study the population-level effects of protected areas. But, in contrast to clear differences in biomass densities observed inside and outside well-protected MPAs, both globally (Lester et al., 2009) and in the Channel Islands (Caselle et al., 2015) we were unable to detect a clear population effect from the Channel Islands MPAs.

Caselle et al. (2015) found a statistically significant increase in the response ratios of targeted species over time and evidence that this increase is smaller for nontargeted species. We found a similar increasing trend in the response ratios of targeted species (Figure 3). This provides evidence that the Channel Islands MPAs are large enough and sufficiently well-enforced as to provide meaningful protection within their borders (White et al., 2020). These response ratios cannot, however, be used as a definitive indicator of population-level effects of these MPAs. In the case of the Channel Islands MPAs, control sites were often located within a few kilometers of an MPA, making them susceptible to both biological spillover and concentration of fishing effort excluded from the MPAs. According to our simulations, the response ratio trends we observe in the data could plausibly be produced by a wide range of population-level MPA effects, the majority of which were <10% (Figure 3). This can occur if, for example, fishing pressure is moderate, adult movement is low, larval dispersal is high, and displaced fishing effort concentrates around the border of the MPAs.

Our targeted versus nontargeted DiD regression provides an alternative approach to spatial controls for estimating population-level MPA effects that does not rely on the assumption that MPAs do not affect control sites, a required assumption of spatial response ratios. Although we estimated an uncertain but overall positive effect of the MPA network in its first few years of existence, we were unable to detect a robust signal from 2012 to 2017. We found that given the dynamics of the Channel Islands, particularly given the lack of heavily exploited species (e.g., abalone and deep-water rockfish), that helped motivate the Channel Island MPAs in the available data, this result was to be expected. After 14 years of MPA

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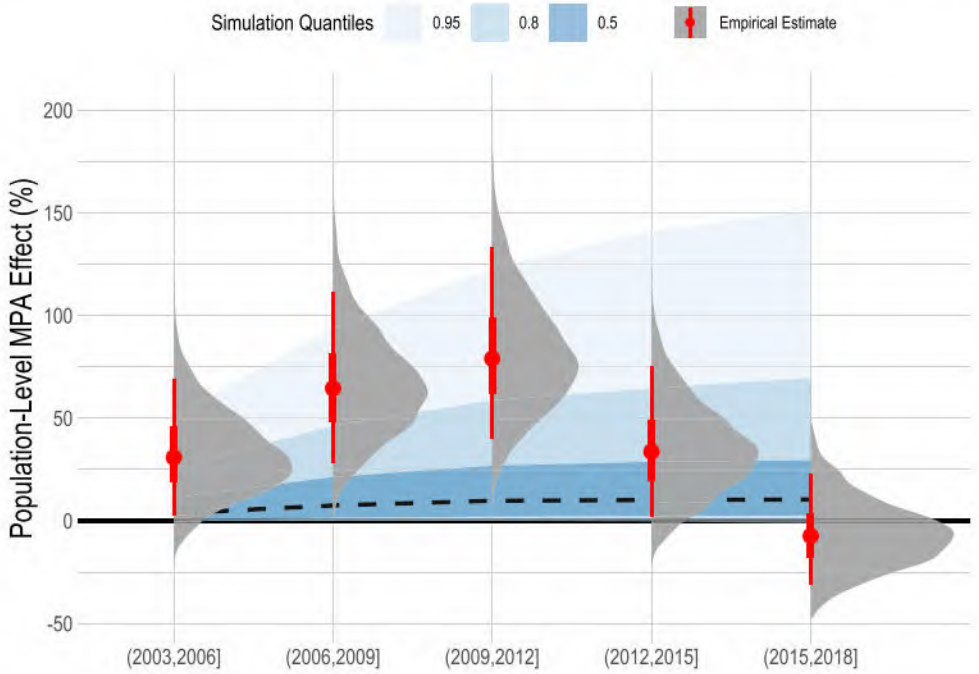

FIGURE 4 Results of difference-in-difference regression estimating the population-level effect of the Channel Island Marine Protect Area (MPA) on mean total biomass densities of targeted species. Gray distributions show posterior probability distribution of estimated MPA effect; red point is median estimated effect, thicker red line 50% credible interval, and thinner red line 90% credible interval. Blue distributions in background show range of MPA effects produced by simulation model tuned to reflect the dynamics of the Channel Island MPAs (black dashed line is median simulated value). Results are estimated in blocks of 3 years, with notation of (2003,2006] indicating that that block includes years ≥2003 and <2006. MPAs were implemented in 2003

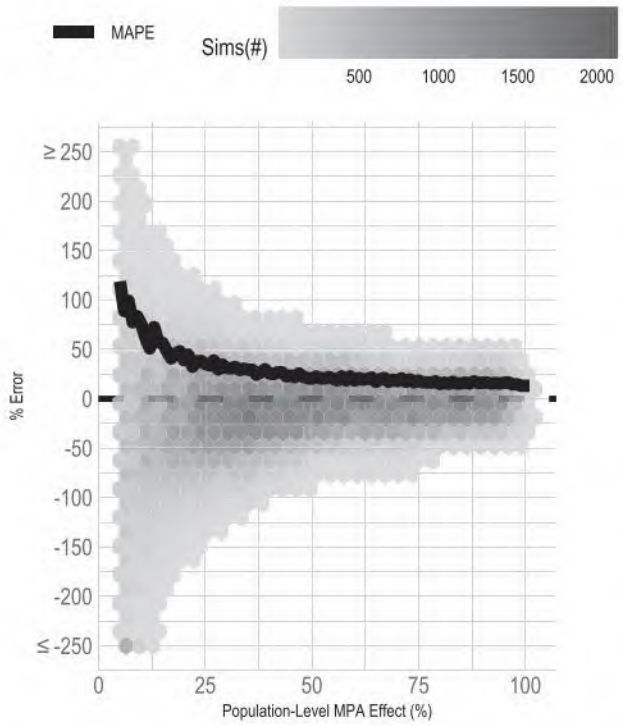

FIGURE 5 Distribution of percent error (y-axis) in posterior estimates of population-level marine protected area effect relative to true simulated MPA effect (x-axis). Shading shows concentration of simulations. Black line shows mean absolute percent error (MAPE) as a function of simulated population-level MPA effect

protection, there is no clear picture of the population-level effect of the Channel Island MPA network on biomass densities of targeted fin-fish.

Fishing dynamics may be one factor contributing to a lack of strong MPA network effects. Much of the theoretical literature on MPAs is based on the assumption that larger reserves produce larger conservation gains (White et al., 2011). However, these models generally simulate fleet dynamics through fishing mortality rates; that is, the proportion of total mortality experienced by a population attributable to fishing pressure (e.g., Halpern et al. 2004). Alternatively, under a constant-catch strategy, fishers have a catch objective and exert as much (or little) effort as needed to achieve that objective. Subsistence fishers may use a constant-catch style policy over the short term if they seek to ensure that food needs are met. Constant-catch dynamics might also occur in fisheries with constraining quotas that are not updated after the implementation of MPAs. Fishers pursuing a constant-catch strategy in areas outside an MPA may have to fish harder to achieve the same catch from a smaller part of the population, causing a population loss under 70% of our constant-catch simulations. This potential negative interaction between constant catch and MPAs is an important risk to consider (as done in Little et al. [2011]), especially because MPAs are increasingly implemented in quota-managed fisheries (Liu et al., 2018). We did not have access to fine-scale fishing data from the Channel Islands alone, but reported catches for the species of interest in the Santa Barbara region exhibited a mix of stable, downward, and upward trajectories (Appendix S3), which

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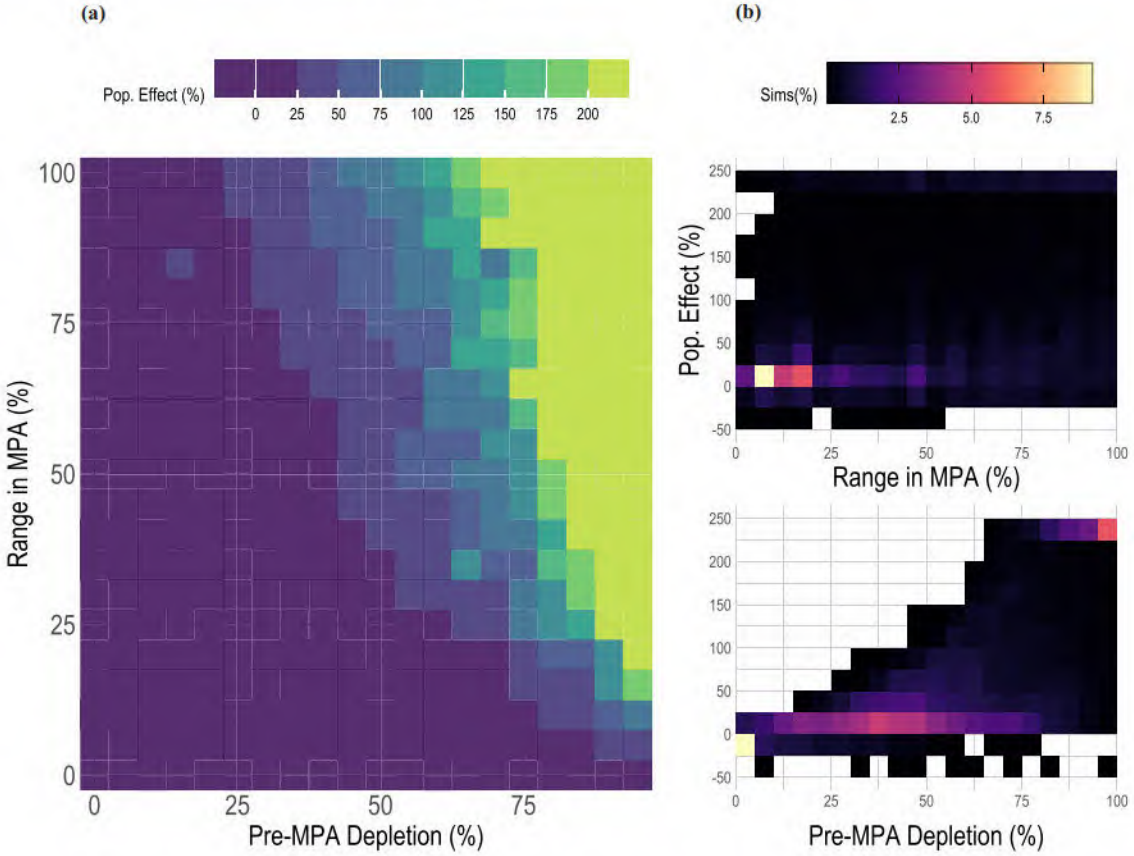

FIGURE 6 Simulated population-level effects of marine protected areas (MPAs). (a) Median simulated fin-fish population-level (pop.) MPA effect sizes (percent change in total biomass) as a function of percentage of species' range inside MPA (*y*-axis) and pre-MPA depletion (*x*-axis). Pre-MPA depletion is a measure of fishing pressure, where 0% means the population is unfished and 100% means the population is extinct in the period immediately prior to MPA implementation. (b) Distribution of simulations across range of MPA sizes and pre-MPA depletions, shown separately

indicates that a negative MPA effect caused by a constant-catch fishing strategy is unlikely.

Environmental disturbance is another possible explanation for the decline in the population-level effects of Channel Islands MPA estimated by our model. The Channel Islands region experienced a dramatic marine heatwave beginning in 2014 and persisting through 2016, resulting in part in extremely elevated water temperatures throughout the region (Gentemann et al., 2017). Many of the nontargeted species in the Channel Islands have warm thermal affinities and have increased in numbers since the heatwave (Freedman et al., 2020). The targeted group is made up mostly of fishes with cold-water affinities. In the presence of this marine heatwave, the nontargeted species may no longer serve as an effective control for the evolution of biomass densities of targeted fin-fish in the absence of the MPAs, given the magnitude of the environmental shock relative to the size of the population-level MPA effect.

All of the species in this empirical analysis may affect each other through mechanisms such as predation, competition, and habitat modification. We used convergent cross mapping (CCM), in the manner of Clark et al. (2015), to test for significant dynamic interactions between species and therefore the possibility of the trophic cascades biasing our results. We found no significant cross-mappings between targeted and nontargeted species, indicating that although clearly there were interactions between these groups on some level, the effects within the time span of the data were not pronounced enough to affect our results (Appendix S7). However, the longer MPAs are in place, the greater the possibility that substantial species interactions that can affect use of nontargeted species as a control may arise.

As the number and size of global MPA networks increase, we must set appropriate expectations for their outcomes on both local and regional scales. Simulation modeling can help inform the range of effect sizes that may be expected, and monitoring programs can be tuned to focus on the species groups that have the highest chance of a detectable effect size over the early years of the reserve (Nickols et al., 2019). Expanding data collection to include robust monitoring of spatiotemporal fleet dynamics may help assess the validity of control sites used in response ratios, support the direct inclusion of these fleet dynamics into statistical models, and allow managers to take into account potential negative interactions between MPAs and fleet dynamics, such as those that may occur under constant-catch dynamics. Whenever possible monitoring programs should be implemented prior to MPA implementation to provide a pretreatment benchmark.

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There are many potential alternatives to spatial response ratios for estimating the population effects of MPAs that better account for the challenges of causal inference (though that may be more data intensive) (Larsen et al., 2019). We applied one such approach here, yet we were still unable to reach robust conclusions as to the effect of MPAs on the total biomass density of targeted fin-fish in the Channel Islands, due to the likely small size of the true effect relative to the influence of environmental variability. In the context of the moderately exploited species in the Channel Islands PISCO data, our simulation testing suggests that we should not have been surprised at our difficulty in precisely estimating the population-level effect of the MPAs. There are other promising statistical approaches to setting expectations for MPA effects, including using models fitted to local data to set population-level expectations and create synthetic counterfactuals (White et al., 2011; Nickols et al., 2019).

The scientific community must effectively communicate the challenges of estimating the population-level effects of MPAs. Lack of a clear population-level MPA effect should not necessarily be viewed as a failure of a conservation program, and, likewise, large response ratios should not be automatically taken as evidence of a population-level conservation success. Rather, results and subsequent management actions must be considered in the context of reasonable expectations given the size, age, and degree of enforcement of the MPAs in question, together with the ecological and economic dynamics of a given system. Although recently some extremely large MPAs have been enacted that may indeed reach into the higher levels of MPA coverage, most MPA networks for near-shore commercial finfish are likely to cover areas more in line with the Channel Islands (20%) or smaller. As such, many MPA networks are expected to have population-level effect sizes that are difficult to detect unless the target species would have been extremely overfished without the protection of MPAs (Figure 6a).

As advocacy for large networks of MPAs grows around the world, MPA scientists must directly tackle the challenge of evaluating the performance of MPAs at the population scale. Commonly employed metrics, such as spatial response ratios, may be applicable in some circumstances, but are vulnerable to inaccuracy or misuse as metrics of population-level effects. Bioeconomic modeling can help frame community expectations, reducing the potential for a reduction in support if unrealistic conservation or fishery expectations are not realized. Statistical approaches that explicitly address complications, such as the spatial spillover effects of MPAs, may give users an improved understanding of the performance of their MPAs, but even they may struggle when expected effect sizes are small. Clearly communicating what to expect from and what can be detected from MPAs is critical to ensuring that MPAs play effective roles in fisheries management and marine conservation.

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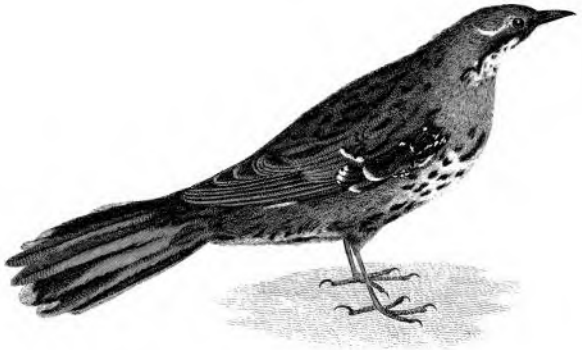

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RESEARCH ARTICLE

A marine protected area network does not confer community structure resilience to a marine heatwave across coastal ecosystems

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Abstract

Marine protected areas (MPAs) have gained attention as a conservation tool for enhancing ecosystem resilience to climate change. However, empirical evidence explicitly linking MPAs to enhanced ecological resilience is limited and mixed. To better understand whether MPAs can buffer climate impacts, we tested the resistance and recovery of marine communities to the 2014–2016 Northeast Pacific heatwave in the largest scientifically designed MPA network in the world off the coast of California, United States. The network consists of 124 MPAs (48 no-take state marine reserves, and 76 partial-take or special regulation conservation areas) implemented at different times, with full implementation completed in 2012. We compared fish, benthic invertebrate, and macroalgal community structure inside and outside of 13 no-take MPAs across rocky intertidal, kelp forest, shallow reef, and deep reef nearshore habitats in

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California's Central Coast region from 2007 to 2020. We also explored whether MPA features, including age, size, depth, proportion rock, historic fishing pressure, habitat diversity and richness, connectivity, and fish biomass response ratios (proxy for ecological performance), conferred climate resilience for kelp forest and rocky intertidal habitats spanning 28 MPAs across the full network. Ecological communities dramatically shifted due to the marine heatwave across all four nearshore habitats, and MPAs did not facilitate habitat-wide resistance or recovery. Only in protected rocky intertidal habitats did community structure significantly resist marine heatwave impacts. Community shifts were associated with a pronounced decline in the relative proportion of cold water species and an increase in warm water species. MPA features did not explain resistance or recovery to the marine heatwave. Collectively, our findings suggest that MPAs have limited ability to mitigate the impacts of marine heatwaves on community structure. Given that mechanisms of resilience to climate perturbations are complex, there is a clear need to expand assessments of ecosystem-wide consequences resulting from acute climate-driven perturbations, and the potential role of regulatory protection in mitigating community structure changes.

KEYWORDS
California, climate change, community composition, community structure, marine heatwaves, marine protected area networks, resilience

1 | INTRODUCTION

Climate change can rapidly reshape the distribution of species and the composition of ecological communities (Pörtner et al., 2023; Smale et al., 2019), imperiling nature's contributions to people. In particular, episodic periods of anomalous ocean warming, hereafter "marine heatwaves," are driving pronounced shifts in species distributions across marine ecosystems (Azzurro & D'Amen, 2022; Olsen et al., 2022), with direct implications for ecological processes and associated human benefits (Cheung et al., 2021; Cinner et al., 2022; Payne et al., 2021; Smale et al., 2019; Smith et al., 2023). While the urgency to plan for adaptation to climate change is clear, as marine heatwaves increase in frequency and severity (Holbrook et al., 2019), pathways to enhance ecosystem resilience are mixed. Therefore, understanding how ecological communities resist, recover from or are transformed by climate perturbations, such as marine heatwaves, represents one of the most pressing challenges for building ecosystem resilience capacity (Mason et al., 2022).

Marine protected areas (MPAs) are an important conservation strategy for preserving biodiversity and nature's contributions to people (Grorud-Colvert et al., 2021; Nowakowski et al., 2023). MPAs may provide network-scale population connectivity that can enhance spillover of individuals and the replenishment of populations in both protected and fished areas (Baetscher et al., 2019; Di Lorenzo et al., 2020; Goetze et al., 2021; Harrison et al., 2012; Williamson et al., 2016). Although most MPAs were initially designed to reduce the effects of overfishing and habitat loss, they are frequently hypothesized to provide long-term protection against climate impacts (Hofmann et al., 2021; Roberts et al., 2017). For example, networks of MPAs may provide refugia as species redistribute in response to climate change, owing to lower anthropogenic stressors and higher population sizes resulting from reduced harvest (Carr et al., 2017; McLeod et al., 2009). MPA features such as habitat diversity, historic fishing pressure, age, and size may also influence the capacity for MPAs to provide ecological resilience (Jacquemont et al., 2022). As such, MPAs and MPA networks are being increasingly highlighted as a key tool for enhancing climate resilience (IUCN-WCPA, 2008; Jacquemont et al., 2022).

Despite the growing number of studies examining MPAs as a tool for mitigating climate impacts, the effectiveness of MPAs (both individually and as networks) for enhancing the resilience (i.e., resistance to and recovery from disturbance, Bates et al., 2019) of marine communities to climate change remains contested (Johnson et al., 2022, but see Jacquemont et al., 2022). Climate change stressors (e.g., ocean acidification, sea level rise, hypoxia, warming) may have effects on populations and communities that occur regardless of regulatory protection (Bates et al., 2019; Bruno et al., 2019). Marine heatwaves can also reduce connectivity by changing prevailing current patterns—a key design attribute for many MPA networks (Lima et al., 2021). Mixed evidence surrounding the efficacy of MPAs in providing climate resilience may be explained in part by the single-habitat (e.g., coral reef, seagrass, kelp forest, etc.) focus of many studies, and also in part by the ways in which assemblages of species are partitioned.

Our understanding of whether and how MPAs confer ecological resilience to climate change can be improved by synthesizing the effects of regulatory protection across multiple taxa, habitats, ecosystems, and protection levels. Potential mechanisms producing

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ecological shifts in response to climate change may include altered mortality due to physiological environmental tolerances, changes in species interactions (e.g., competition, predation, disease, facilitation), adult movement across habitats and along the coast, ontogenetic shifts, and changes in recruitment success (Harley et al., 2006). Moreover, the ways in which species responses are evaluated (e.g., trait-based, functional groups, feeding guilds, evolutionary lineages, etc.) can influence detection of climate-driven outcomes. Therefore, long-term monitoring across multiple habitats subjected to similar (or the same) perturbations is needed to thoroughly examine the impacts of climate change on marine ecosystems, to test whether (and which) MPAs confer climate resilience, and to assess the relative resilience among ecosystems and taxa. Such cross-ecosystem studies are rare, especially those that include monitoring across networks of MPAs before, during, and after extreme climate change-driven perturbations.

In 1999, California passed the Marine Life Protection Act (MLPA), which expanded its system of MPAs to function as a coherent ecological network and to address six goals aimed at conservation, fisheries, and other human benefits (Gleason et al., 2013; Marine Life Protection Act, 1999). Guided by these goals, California established a network of 124 MPAs (48 no-take state marine reserves, 76 partial-take or special regulation conservation areas) distributed along the state's entire 1300-km coastline that protects 16% of state waters. The network protects hard- and soft-bottom habitats ranging in depth from the intertidal to depths of 1000 m. However, with few exceptions, ecological monitoring studies focused on hard-bottom habitats. Leading up to and following MPA implementation, an extensive ecological monitoring effort of these habitats began to support adaptive management of the network (Botsford et al., 2014). During the course of California's MPA monitoring, a major marine heatwave occurred that was the consequence of two environmental anomalies: a 2014–2015 warming event known as "the Blob," and a major El Niño event in 2015–2016 (Bond et al., 2015; Di Lorenzo & Mantua, 2016; Gentemann et al., 2017). This pronounced climate perturbation was the largest marine heatwave on record in California (Laufkötter et al., 2020).

This study leveraged over a decade of monitoring across the rocky intertidal, kelp forest, shallow reef, and deep reef habitats to evaluate whether a network of MPAs confers community structure resilience to climate disturbances. Specifically, we tested the following hypotheses: (1) the 2014–2016 marine heatwave event resulted in the reorganization of community structure across multiple nearshore habitats and taxa, (2) MPAs enhanced the ability for ecological communities to resist and recover from the impacts of climate perturbations, and (3) species traits (thermal affinities) explained differential responses to the marine heatwave in relation to regulatory protection (MPAs). After testing these hypotheses, we explored whether MPA features (size, age, historic fishing pressure, habitat diversity, and connectivity) enhanced ecological community resilience across habitats to inform the design of MPA networks that are resilient to climate change.

2 | METHODS

2.1 | MPA sampling and data collection

As part of the State of California's long-term MPA evaluation and monitoring program, several habitat-specific research groups conduct annual surveys designed to monitor ecological changes over time inside MPAs and at areas of comparable habitat outside MPAs (Figure 1a; Figure S1). Conceptually, while MPAs could be considered the "treatment" or "control" in our analyses (i.e., fishing is considered either the experiment or the control), we take a social–ecological system perspective and consider human activities, including fishing, to be integral system components (Kandel et al., 2022). Thus, in our analytical framework, MPAs are considered the experimental treatment where fishing is removed (e.g., Pacoureau et al., 2023).

Our analyses focused on four habitats that have extensive long-term monitoring data: rocky intertidal, kelp forest, shallow reef, and deep reef (Figure 1a; Figure S1). Across the four habitats included in our analyses, three organismal groups were sampled: macroalgae (rocky intertidal and kelp forest), conspicuous mobile and sessile invertebrates (rocky intertidal and kelp forest), and fishes (kelp forest, shallow reef, and deep reef). We focused our community structure analyses on 13 MPAs located along the temperate Central Coast of California (Figure 1a) because this area was the most comprehensively sampled region of the MPA network and had sufficient pre-marine heatwave data to evaluate baseline community structure (Table S1; Figure S1). To evaluate MPA features as potential drivers of ecological resilience, we included 28 MPAs across all of California for two of the habitats (rocky intertidal and kelp forest), where more extensive spatial and temporal coverage exists (see Section 2.6).

Two general types of data were used in our analyses: species counts (kelp forest, shallow reef, deep reef) and the proportional cover of invertebrates and macroalgae (rocky intertidal and kelp

FIGURE 1 The (a) coverage of ecological monitoring in marine protected areas (MPAs) in California's Central Coast region and (b–f) exposure of these MPAs to five indicators of environmental conditions. In (a), points indicate which habitats were monitored both inside and outside of MPAs (i.e., points indicate data availability, not the location of sampling sites). Red polygons indicate no-take MPAs ($n = 12$, called State Marine Reserves), and blue polygons indicate partial-take MPAs ($n = 10$, called State Marine Conservation Areas; see Table S1 for list of partial-take MPAs that are de facto no-take MPAs by habitat). The dark horizontal lines delineate the Central Coast region, and the thin gray line indicates state waters (three nautical miles offshore and all of Monterey Bay). Environmental indicators include (b) air temperature (AT); (c) sea surface temperature (SST); (d) sea bottom temperature (SBT); (e) the multivariate oceanographic climate index (MOCI); and (f) the biologically effective upwelling index (BEUTI). Lines indicate the median and shading indicates the 95% confidence interval. The 2014–2016 marine heatwave (MHW) is indicated by the vertical red rectangle.

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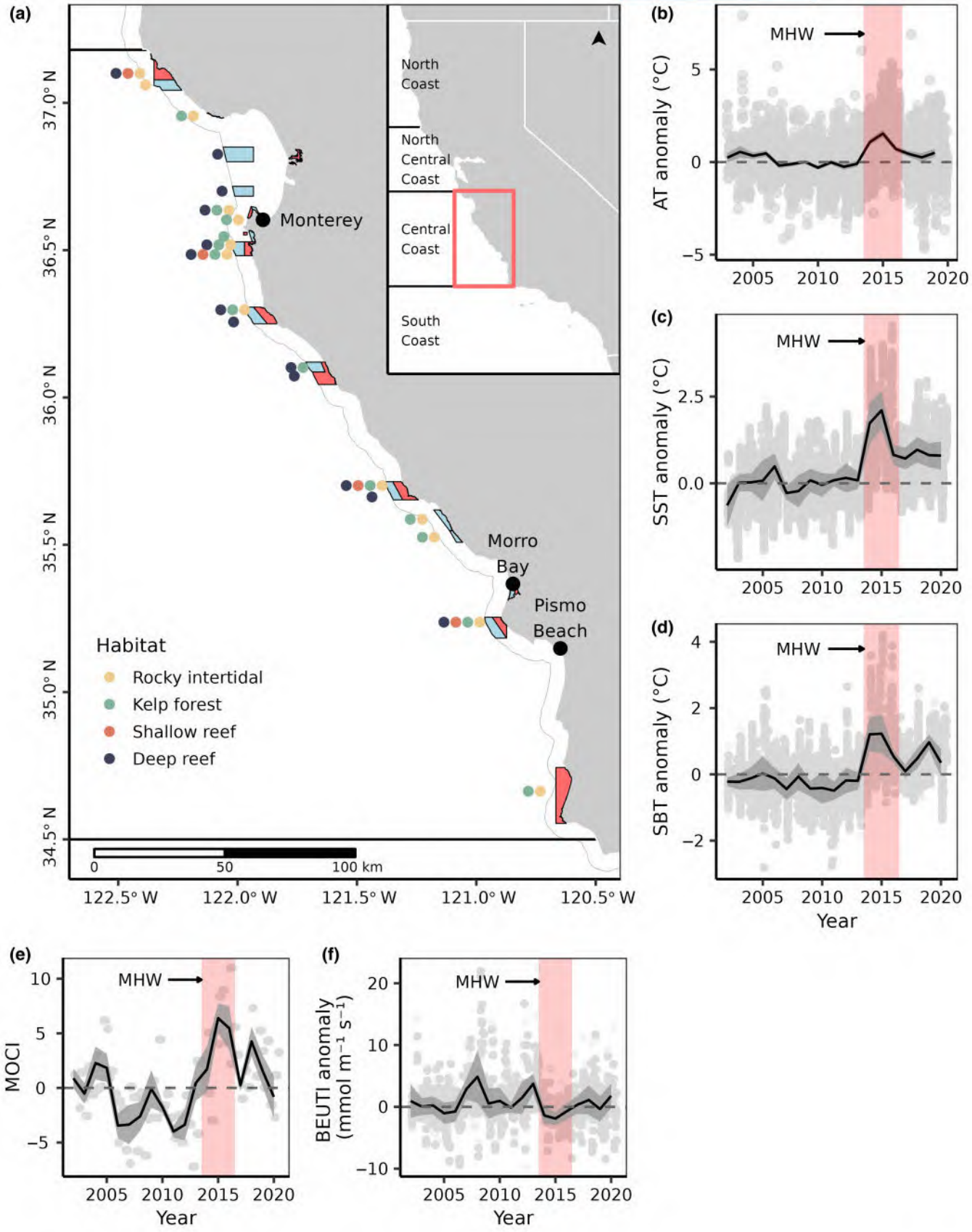

forest invertebrates and algae). While biomass is often used as a common measurable response across taxa (Duffy et al., 2017), it is not suitable for our analyses because of the large number of taxa for which it is difficult to accurately measure biomass (e.g., macroalgae and invertebrates). Therefore, we elected to use a taxonomic abundance-based approach to compare changes in community

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structure. All analyses were conducted using published data for each habitat (Brooks et al., 2022; Cieri et al., 2022; Malone et al., 2022; MARINe et al., 2022).

2.2 | Changes in community structure associated with the marine heatwave

We used non-metric multidimensional scaling (nMDS) to visualize community structure before (2007–2013), during (2014–2016), and after (2017–2020) the 2014–2016 marine heatwave. Prior to ordination, a base similarity matrix was constructed for each habitat type using Bray–Curtis dissimilarity on Hellinger-transformed counts or on percent cover of species. The Hellinger transformation converts absolute counts to the square root of proportional counts, which reduces the disproportionate contribution of highly abundant species (Legendre & Gallagher, 2001). We elected to use the transformation to relative species abundance to improve the robustness, comparability, and ecological interpretation of our community structure analyses. Each site sampled inside or outside of a MPA surveyed in a single year represents a single unit of replication. To visualize the state of each ecological community, we plotted centroids and 95% confidence ellipses that represent the generalized position of the community in ordinated two-dimensional nMDS space before, during, and after the marine heatwave event.

We used a pairwise permutational analysis of variance (PERMANOVA) to test three hypotheses surrounding community structure changes (Figure 2a). First, if MPAs do not mitigate marine heatwave impacts on community structure, then communities inside MPAs should respond similarly (i.e., comparable change in multivariate distance) to those outside. Second, if MPAs confer resistance, then communities inside MPAs should remain unchanged while those outside shift. Finally, if MPAs enhance recovery, then communities inside MPAs should shift during the marine heatwave, but return to or move back in the direction of their previous state following the disturbance. To test these hypotheses, a single PERMANOVA was performed for each habitat and site type (inside or outside a MPA) using pairwise comparisons between marine heatwave periods (before vs. during, before vs. after) using the *pairwiseAdonis* wrapper function (Martinez Arbizu, 2020) in the *vegan* package (Oksanen et al., 2022) in R (R Core Team, 2021).

2.3 | Effect of MPAs on community structure resistance and recovery

We used a multivariate distance-based approach to test whether MPAs conferred ecological community resistance to or recovery from the marine heatwave. We refer to this measurement as "multivariate distance" to distinguish it from "geographic distance," which is often a measure of climate change impacts on marine species distributions. We define resistance as community structure (i.e., relative abundance of species) that remained unchanged during the marine heatwave (low change in multivariate distance-based centroids), and recovery as a community that returned to a similar structure post-heatwave. Resistance was evaluated by calculating the multivariate vector distance (in high-dimensional space using the Bray–Curtis dissimilarity matrix) of the centroid of the ecological community between the periods before (2007–2013) and during (2014–2016) the marine heatwave (e.g., high resistance is indicated by a smaller change in multivariate distance-based centroids).

Recovery was evaluated by calculating the multivariate distance between the before (2007–2013) and after period (2017–2020) centroids. We calculated the change in multivariate distance between centroids using the *betadisper* function in the *vegan* package (Oksanen et al., 2022). The *betadisper* function returns the principal coordinates of centroids, which we used to calculate multivariate distance after ensuring positive-definite eigenvalues. Finally, statistical significance was evaluated using a PERMANOVA on community structure resistance (before vs. during) and recovery (before vs. after).

To explore whether the timing of community shifts coincided with temporal changes in oceanographic variables, we used a Granger causality test on Bray–Curtis dissimilarity. For this analysis, annual dissimilarity was calculated for each site (inside or outside an MPA) and habitat relative to 2007. Dissimilarity was then offset (lagged) against oceanographic variables (see Section 2.5) in 1-year increments for a maximum of 3 years (maximum lag based on length of the time series). We used 2007 as the baseline year because it preceded the marine heatwave and because we were interested in lag effects specifically related to the marine heatwave, rather than gradual environmental changes over time. However, 2008 was used as the baseline year for the deep reef habitat because surveys were not extensively conducted in 2007. It is important to note that the Granger test only examines lagged effects between the time series of community change and the environmental variables, it does not examine correlations, which are explored using other diagnostics described in Section 2.5.

2.4 | Species associated with community changes

To evaluate which species were associated with community change, we used two approaches. First, we used a similarity percentage analysis (SIMPER) to decompose community structure using Bray–Curtis dissimilarity and to examine the percent contribution of each species to the before versus after marine heatwave communities. However, because SIMPER is known to confound the mean between group variation and dispersion (Warton et al., 2012), we cross-validated the SIMPER output using the *mvabund* package (Wang et al., 2022) in R. The *mvabund* package uses fitted generalized linear models to account for nonlinear mean-to-variance relationships of each species. Both of these analyses were conducted on the absolute abundance of species (rather than relative abundance) because they are not sensitive to common or rare taxa. This combination of approaches allowed us to determine the contribution of individual

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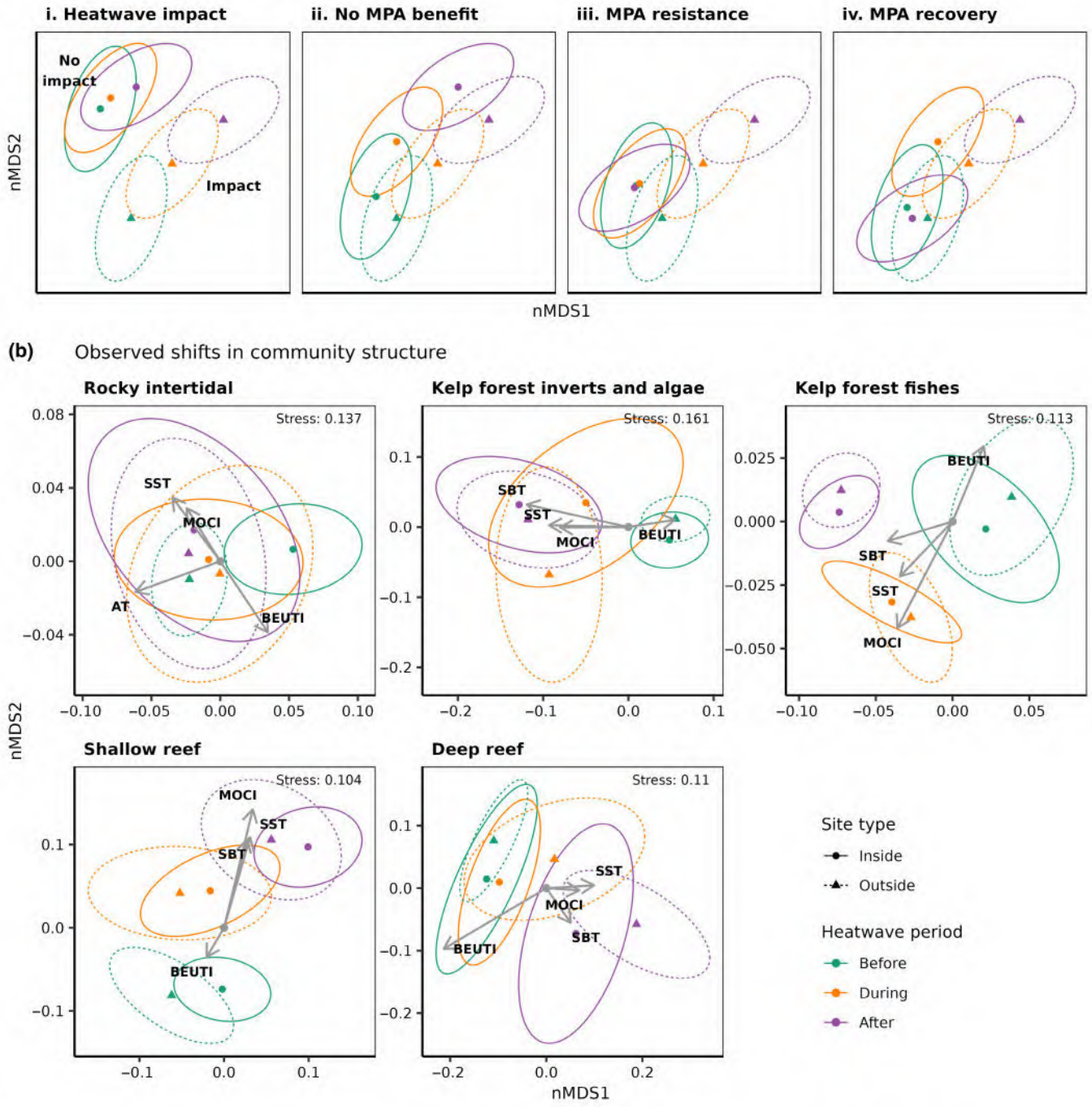

FIGURE 2 (a) Potential and (b) observed shifts in community structure from 2007 to 2020. (a) Illustrates a typology of potential community structure shifts: (i) "No impact," where community structure does not shift, and "impact", where community structure significantly shifts. Non-overlapping ellipses indicate significant differences in community structure. In this example, pre-heatwave community structure was significantly different inside (solid lines ellipses around points) versus outside (dashed lines around triangles) MPAs; (ii) "No MPA benefit," where communities inside MPAs respond similar to those outside; (iii) "MPA Resistance," where communities inside MPAs remain stable while those outside shift; and (iv) "Recovery," where communities inside MPAs shift during the heatwave, but return to their previous state following the disturbance while communities outside of MPAs do not return. (b) Shows observed shifts in community structure before (2007–2013), during (2014–2016), and after (2017–2020) the marine heatwave inside (circles) and outside (triangles) MPAs in the Central Coast region of California. Each subpanel represents a habitat and each point depicts the centroid position with 95% confidence ellipses. Also included are vectors for each environmental anomaly: air temperature (AT, rocky intertidal only), sea surface temperature (SST), sea bottom temperature (SBT), the multivariate ocean climate index (MOCI), and the biologically effective upwelling transport index (BEUTI). The trajectory of each vector reflects its correlation with community structure (Table 2). Therefore, indicators that are highly correlated with changes in community structure are aligned with the centroids (points). MPA, marine protected area; nMDS, non-metric multidimensional scaling.

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taxa to observed community structure differences. Additionally, because the PERMANOVA analyses revealed that community change was similar inside and outside of MPAs, we analyzed compositional changes overall rather than within each site by protection status. Finally, we constructed an analysis of deviance table using the multivariate generalized linear model fits to test whether species structure changed as a result of the marine heatwave (before vs. after). Test statistics and *p*-values for each species were generated using the PIT-trap (probability integral transform) resampling method.

2.5 | Environmental correlates and species traits

We explored temperature and oceanographic conditions before, during, and after the marine heatwave to evaluate whether community structure shifts were explained by environmental changes (Figure 1b–f; Figure S2). For these environmental analyses, we used air temperature (AT, °C) measured in situ at rocky intertidal long-term monitoring sites (as an environmental correlate for rocky intertidal communities only, Supplementary Methods, Appendix S1); sea surface temperature (SST, °C) at 1 km daily resolution from MURSST (Chin et al., 2017); sea bottom temperature (SBT, °C) at 8 km daily resolution from GLORYS (Jean-Michel et al., 2021); the Biologically Effective Upwelling Transport Index (BEUTI, mmol $m^{-1} s^{-1}$; Jacox et al., 2018) calculated at 1° latitude bins; and the Multivariate Oceanographic Climate Index (MOCI), which is a long-term (30 year) indicator of several oceanographic and atmospheric conditions (García-Reyes & Sydeman, 2017) calculated at the regional level (Central California). We selected these environmental indicators and associated products because they provide biologically meaningful climatology at the best available spatial resolution for our study area.

To process the environmental data, we first calculated the monthly mean AT, SST, SBT, BEUTI, and quarterly MOCI values at each site. We then calculated monthly anomalies for AT, SST, SBT, and BEUTI as the difference between the observed monthly mean and the baseline average (long-term average for each month, 2000–2012 for AT, 1988–2012 for BEUTI, 1993–2012 for SBT, and 2002–2012 for SST; start year of the historical climatology reflects the first year with data). Baseline averages were calculated through the end of 2012 to accommodate a buffer before the onset of the marine heatwave in 2014. For MOCI, we calculated the annual mean (2000–2020) at each site as a standard index. To visualize and pair the environmental data with the long-term biological monitoring data, we calculated the mean anomalies across all calendar months for each year (Figure 1b–f). Finally, to determine whether observed shifts in community structure were associated with changes in oceanographic conditions, we used the *envfit* function in the *vegan* package (Oksanen et al., 2022) to overlay the four environmental variables as vectors on the ordinated community data. The *envfit* function computes the rank-based correlation coefficient and significance is evaluated through permutation-based resampling.

We used a trait-based fourth-corner model to evaluate effects of environmental variables and species thermal affinities on the relative abundance of all recorded taxa. Species thermal affinities were obtained from literature reported classifications and expert judgment (Supplementary Methods, Appendix S1). The fourth-corner model relates the interaction between the environment and species traits (thermal affinities) on variation in the abundance of taxa (Brown et al., 2014). Briefly, we used the *mvabund* package to fit simultaneous generalized linear models for counts of all species at each site as a function of the environmental and oceanographic conditions (AT, SST, SBT, BEUTI, MOCI), the relative representation of thermal affinities, and their interaction.

2.6 | Drivers of resistance and recovery

The ecological and design context of California's MPA network is well documented, allowing us to explore whether certain MPA features conferred community structure resilience to the marine heatwave. These analyses were spatially expanded to include a subset of MPAs covering the entire network from northern to southern California, thereby providing a greater scope of MPA feature diversity (Figure S3). However, only the kelp forest and rocky intertidal habitats contained sufficient pre-heatwave monitoring data with consistent annual surveys in all bioregions of the state to appropriately examine drivers of ecological resilience among MPAs at the network level (Figure 1a; Figure S1). MPA features included habitat richness and habitat diversity (calculated using Shannon–Wiener on depth-stratified hard and soft bottom, proportion of rock, and the extent of kelp forest canopy, rocky intertidal, sandy beach, coastal marsh, tidal flats, and armored shore), historic fishing pressure, MPA age and size, connectivity, and kelp forest fish biomass response ratios (as a proxy for MPA ecological performance, see Supplementary Methods, Appendix S1).

We developed a two-stage multivariate model to examine the effect of MPA features on community resistance and recovery. First, we used a PERMANOVA to identify MPAs that significantly resisted or recovered from the marine heatwave (building on the methods outlined in Section 2.3). We then used logistic regression to evaluate the probability that specific MPA features enhanced resistance or resilience. For the logistic regression, any MPA community that significantly resisted or recovered from the marine heatwave was assigned a target level of "1," and any MPA community that did not resist or recover from the marine heatwave a "0."

3 | RESULTS

3.1 | Community structure resistance and recovery

Ecological community change was widespread across all habitats, and three habitats (kelp forest, shallow reef, deep reef) showed no clear differences inside and outside of MPAs in the magnitude of community change (Figure 2b). Prior to the marine heatwave, community structure was similar inside and outside of MPAs in all habitats

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except the rocky intertidal (indicated by the non-overlapping ellipses in Figure 2b). However, ecological community structure dramatically shifted as a result of the marine heatwave event across all measured nearshore habitats ($n=4$), regardless of whether the communities ($n=5$) were inside or outside of MPAs (Figure 2b; Figure S8; Table 1).

Community structure changes coincided with oceanographic conditions associated with the marine heatwave (Figure 1; Tables 1 and 2). At the onset of the marine heatwave in 2014, SST was anomalously warm by as much as 2°C, and sea bottom temperature was also 1°C above the baseline average. MOCI and BEUTI experienced precipitous changes during the marine heatwave, reflecting reduced upwelling and productivity, and these anomalies persisted until at least mid-2016 (Figure 1e,f). Although each oceanographic anomaly aligned well with community shifts in nMDS space (Figure 2b), significant correlations were habitat-specific (Table 2). In the rocky intertidal, warmer AT was the strongest environmental correlate with community structure changes, although warmer SST and declines in upwelling (BEUTI) were also correlated with community change. For shallow reef, kelp forest fishes, and kelp forest invertebrates and algae, SST, SBT, and MOCI were significantly associated with community change, such that communities shifted with increases in surface and bottom water temperature and positive values of the MOCI index. In the deep reef habitat (fishes only), the only significant oceanographic correlate was BEUTI (Table 2), where the community shifted in response to reduced upwelling. Finally, there were no significant temporal lags determined except for one interaction between the shallow reef and BEUTI ($lag=3$ years for sites inside and outside of MPAs, Table S4).

For all habitats except the rocky intertidal, MPAs did not impart increased resistance to or recovery from marine heatwave-driven community changes compared to sites outside of MPAs (Figure 3). The rocky intertidal and deep reef were the only two habitats that resisted the marine heatwave (based on nonsignificant PERMANOVA result, Figure 3a). The rocky intertidal was the only habitat where community structure inside MPAs was not significantly different either during or post-marine heatwave (Figure 3b). Kelp forest invertebrates, algae, and fishes all substantially shifted during the marine heatwave, and these changes persisted for several years later with no apparent recovery. The shallow reef habitat responded similarly with pronounced shifts in community structure during the marine heatwave, although the trajectory of the shallow reef habitat started to move toward the pre-heatwave state beginning in the year 2018, with the biggest shifts toward recovery occurring inside MPAs (Figures S5 and S6). In the deep reef habitat, year-to-year changes

TABLE 1 Results from a series of pairwise permutational analysis of variance (PERMANOVA) tests on community resistance (before–during) and recovery (before–after). PERMANOVAs were performed separately for each habitat and calculated on Bray–Curtis dissimilarity matrices.

Habitat	MPA type	Transition	B–C distance	Sum of squares	R^2	Psuedo F	p (Perm)
Rocky intertidal	Outside	Resistance	0.059	0.155	.02	1.883	.071
		Recovery	0.053	0.219	.025	2.635	.006*
	Inside	Resistance	0.064	0.154	.026	1.824	.114
		Recovery	0.063	0.174	.026	1.946	.091
Kelp forest inverts and algae	Outside	Resistance	0.085	0.49	.061	4.381	.001*
		Recovery	0.125	0.921	.099	8.211	.001*
	Inside	Resistance	0.08	0.333	.047	2.823	.003*
		Recovery	0.142	0.849	.102	7.189	.001*
Kelp forest fishes	Outside	Resistance	0.081	0.249	.047	3.22	.007*
		Recovery	0.1	0.64	.109	9.098	.001*
	Inside	Resistance	0.066	0.21	.05	2.944	.015*
		Recovery	0.124	0.505	.109	7.569	.001*
Shallow reef	Outside	Resistance	0.073	0.146	.061	2.349	.064
		Recovery	0.071	0.586	.188	9.515	.001*
	Inside	Resistance	0.066	0.159	.093	3.676	.002*
		Recovery	0.112	0.486	.225	11.882	.001*
Deep reef	Outside	Resistance	0.136	0.198	.124	1.839	.064
		Recovery	0.167	0.681	.308	6.687	.001*
	Inside	Resistance	0.104	0.121	.082	1.163	.296
		Recovery	0.107	0.337	.163	2.53	.015*

Note: Pseudo p-values were generated using 999 permutations of residuals.

* Denote that community structure was significantly different ($p < .05$) for pairwise comparisons (Resistance = before vs. during, Recovery = before vs. after).

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TABLE 2 EnvFit scores indicating the significance level of correlations between environmental conditions and community change in non-metric multidimensional scaling space.

Habitat	Environmental variable	Type	R^2	*p*-Value
Rocky intertidal	AT	Anomaly	.07	.043*
		Absolute	.33	.001*
	SST	Anomaly	.04	.149
		Absolute	.09	.012*
	BEUTI	Anomaly	.04	.121
		Absolute	.09	.011*
	MOCI	Absolute	.02	.324
Kelp forest inverts and algae	SST	Anomaly	.10	.004*
		Absolute	.04	.077
	BEUTI	Anomaly	.03	.128
		Absolute	.02	.323
	MOCI	Absolute	.07	.009*
	SBT	Anomaly	.17	.001*
		Absolute	.14	.001*
Kelp forest fishes	SST	Anomaly	.06	.016*
		Absolute	.04	.066
	BEUTI	Anomaly	.05	.029*
		Absolute	.03	.17
	MOCI	Absolute	.12	.002*
	SBT	Anomaly	.07	.012*
		Absolute	.01	.635
Rocky reef fishes	SST	Anomaly	.17	.002*
		Absolute	.18	.002*
	BEUTI	Anomaly	.02	.401
		Absolute	.03	.257
	MOCI	Absolute	.29	.001*
	SBT	Anomaly	.16	.002*
		Absolute	.12	.009*
Deep reef fishes	SST	Anomaly	.05	.524
		Absolute	.08	.292
	BEUTI	Anomaly	.25	.014*
		Absolute	.27	.016*
	MOCI	Absolute	.02	.726
	SBT	Anomaly	.03	.699
		Absolute	.15	.099

Abbreviations: AT, air temperature (°C); BEUTI, biologically effective upwelling transport index (mmol $m^{-1} s^{-1}$); MOCI, multivariate oceanographic climate index; SBT, sea bottom temperature (°C); SST, sea surface temperature (°C).

*Denote significant ($p < .05$) correlations.

were more variable, resulting in a larger multivariate distance relative to the other habitats, but this community change was not significantly different from the baseline year (Figure 3a; Figure S9). However, recovery was more variable than resistance. The shallow reef habitat exhibited relatively greater recovery (i.e., less shift in multivariate distance compared to the pre-heatwave community state) than the kelp forest and deep reef habitats.

3.2 | Species responses

The multivariate analyses revealed several species that explained differences between the pre- and post-heatwave periods. Among the three habitat types with monitoring of fish species (kelp forest, shallow reef, deep reef), the blue and deacon rockfish complex (*Sebastes mystinus* and *S. diaconus*) was positively correlated with the post-heatwave period (Table S5). Fish species that declined and were found within the top 80% contribution of pre- versus post-heatwave community structure included: *Sebastes serranoides* (kelp forest), *S. chrysomelas* and *carnatus* (kelp forest), *S. miniatus* (kelp forest, shallow reef), *Brachyistius frenatus* (kelp forest), *S. semicinctus* (deep reef), and *S. hopkinsi* (deep reef). For invertebrates and algae, the multivariate analyses revealed an increase in the abundance of purple sea urchins (*Strongylocentrotus purpuratus*) and a decline in macroalgae in both the rocky intertidal and kelp forest habitats.

3.3 | Community structure and thermal traits

The relative proportional representation of thermal affinities significantly changed during the marine heatwave for kelp forest invertebrates and algae, kelp forest fishes, and shallow reef fishes ($p < 0.001, F_{6,708} = 62.24$; $p < .05, F_{6,700} = 2.18$; $p < .001, F_{4,315} = 37.41$, respectively). Cold-temperate species significantly declined during the marine heatwave for these habitats (Figure 4a). During the marine heatwave, there was a slight increase in cosmopolitan species for the rocky intertidal and kelp forest (invertebrates and algae), and an even more pronounced increase in warm-temperate and subtropical fish species in the kelp forest, shallow reef, and deep reef habitats. Importantly, these changes in community composition that occurred during the marine heatwave (2014–2016) persisted into the following years (2017 and beyond), which partially explains the lack of observed recovery to the pre-heatwave community structure.

Variation in species abundance was explained by significant interactions between thermal affinities and oceanographic variables for all habitats from the fourth-corner model (Figure 4b; Figure S7). In general, species thermal affinities responded similarly across habitats. The abundance of cold-temperate species declined with increased SST anomalies and reduced upwelling (BEUTI), while the abundance of warm-temperate, subtropical, and tropical species increased with the oceanographic conditions that were associated with the onset of the marine heatwave, such as MOCI and warming water temperature. Sea bottom temperature had the most variable interactive effect across habitats and thermal affinities. Interestingly, thermal associations for the deep reef habitat had an opposite sign for cold-temperate and warm-temperate interactions, relative to the other habitats.

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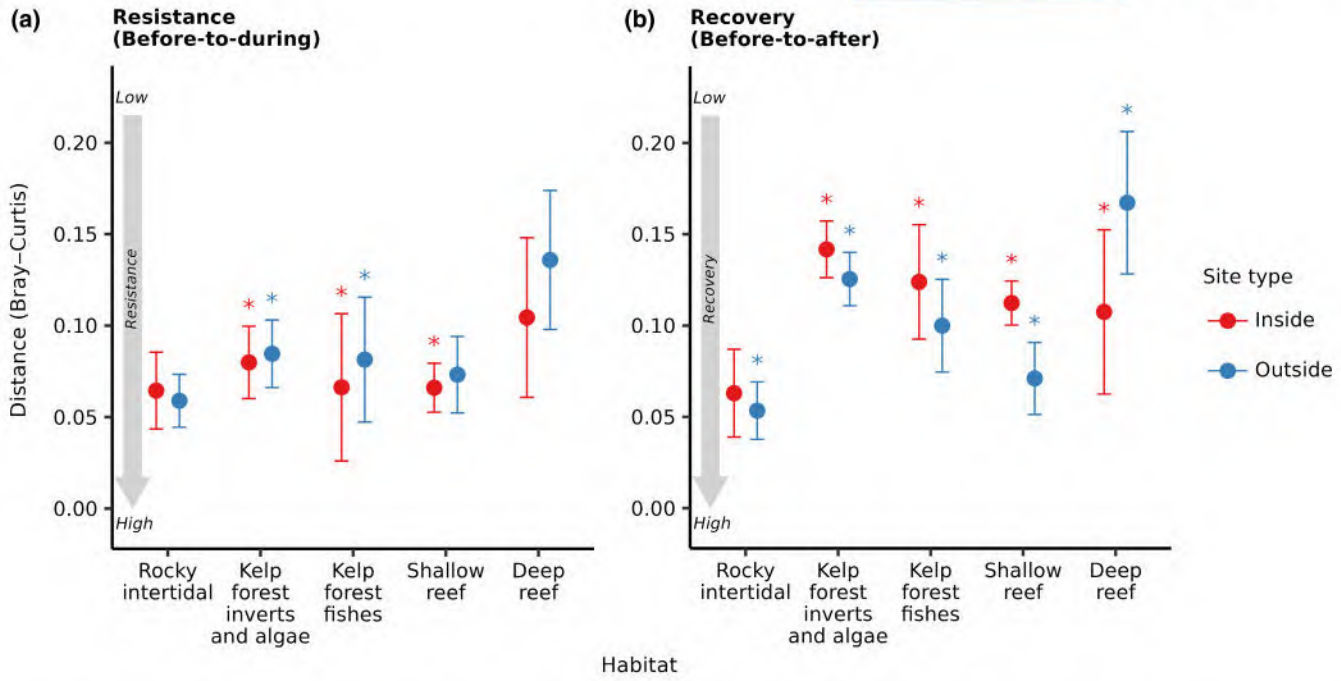

FIGURE 3 Community resistance [(a) before to during marine heatwave comparison] and recovery [(b) before to after marine heatwave comparison] as measured by multivariate distance between centroids. Each point depicts the multivariate distance between the pre-heatwave centroid (before) and the during-heatwave or the post-heatwave centroid inside (red) and outside (blue) marine protected areas. Therefore, higher values indicate less resistance or recovery. Error bars depict the pooled standard error between centroids and the asterisks denote significant differences in community structure between marine heatwave periods, as derived from a pairwise permutational analysis of variance (PERMANOVA). Points without asterisks indicate resistance or recovery (as measured by nonsignificant PERMANOVA, Table 1). Note that some communities have inherently greater interannual variability, potentially resulting from variation in sampling methodology, which can lead to larger mean multivariate distances that are not significantly different (Figure S9).

3.4 | MPA features and ecological stability

Community structure responses were highly variable across the state-level network for MPAs. In general, rocky intertidal communities showed higher resistance than kelp forest communities, as indicated by smaller shifts in multivariate distance (Figure 5c; smaller points). While shifts in community structure were generally larger in the kelp forest (Figure 5c; larger points), in some cases, the magnitude of shifts inside MPAs was less relative to shifts outside of MPAs (Figure 5a). In general, MPA protection fostered more resistance than recovery (Figure 5c; i.e., more blue points in the resistance column and more red points in the recovery column), although these results were not statistically significant. For example, kelp forest communities in the Point Buchon, South Point, and Harris Point MPAs resisted and moved toward recovery from the heatwave more than communities outside these MPAs (Figure 5; blue points). However, kelp forest communities in the Scorpion, Anacapa Island, and Campus Point MPAs were less successful at resisting shifts than communities outside these MPAs (Figure 5c, left; red points). Similarly, kelp forest communities in the Point Lobos, Santa Barbara, Farnsworth, and Blue Cavern MPAs were less successful at recovering from shifts than communities outside these MPAs (Figure 5c, right; red points). None of the evaluated MPA features (age, size, historic fishing pressure, habitat diversity, connectivity, biomass response ratios) were statistically significant drivers of this variability (Figure S11).

4 | DISCUSSION

Our findings suggest that the 2014–2016 Northeast Pacific marine heatwave impacted ecological community structure across four nearshore habitats, and that MPAs did not confer widespread resistance or recovery. MPAs have gained increased attention as a conservation strategy for mitigating the effects of climate change (Duncan et al., 2019; Wilson et al., 2018), but evidence of their efficacy in providing ecosystem-wide resilience to climate disturbances remains mixed (Bates et al., 2019; Jacquemont et al., 2022; Roberts et al., 2017). Critically, international efforts to conserve 30% of marine habitats via MPA implementation by the year 2030 (Day et al., 2012) highlight the need for planning that considers the effect of large climate-driven perturbations on local ecological processes. Therefore, while MPAs may be implemented with specific conservation targets, our study suggests that extreme climate perturbations, such as marine heatwaves, can overwhelm intended climate benefits of MPAs over the short-term (<5 years following a marine heatwave). These results highlight the ecosystem-wide consequences of acute climate-driven perturbations despite regulatory protection.

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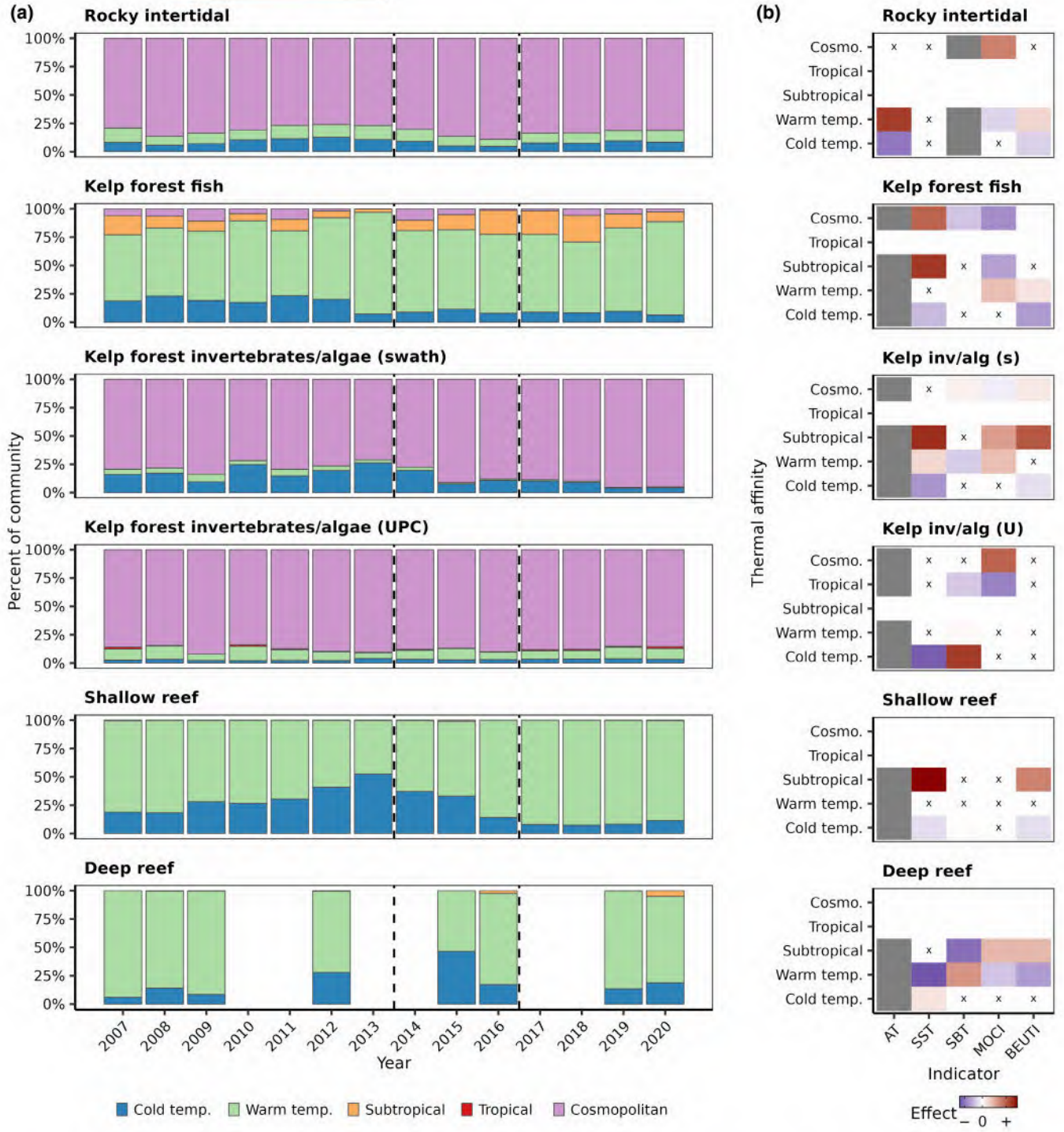

FIGURE 4 The (a) proportional community composition by thermal affinity groups from 2007 to 2020 and the (b) interactive effect of environmental anomalies (AT, air temperature, rocky intertidal only; BEUTI, biologically effective upwelling transport index; MOCI, multivariate oceanographic climate index; SBT, sea bottom temperature; SST, sea surface temperature) and species traits on variance in the abundance of species over the same time period. In (a), vertical lines bound the 2014–2016 marine heatwave years. In (b), colors indicate the standardized coefficients for all trait–oceanographic indicator interaction terms, based on multiple generalized linear-LASSO models. Coefficients were scaled to unit variance to make them visually comparable. Darker squares indicate stronger associations; positive associations are red; and negative associations are blue. Black x's mark interaction terms dropped in model selection. White squares without x's indicate traits that were never observed. Dark grey squares indicate non-applicable indicators.

Several ecological processes may explain the pronounced shifts observed across habitats, such as altered adult movement, changes to recruitment regimes, tropicalization, deborealization, and shifts in species interactions such as herbivory, competition, predation, and disease (Free et al., 2019; García Molinos et al., 2016; Mignot et al., 2022; Vergés et al., 2014; Wernberg et al., 2016). First, our

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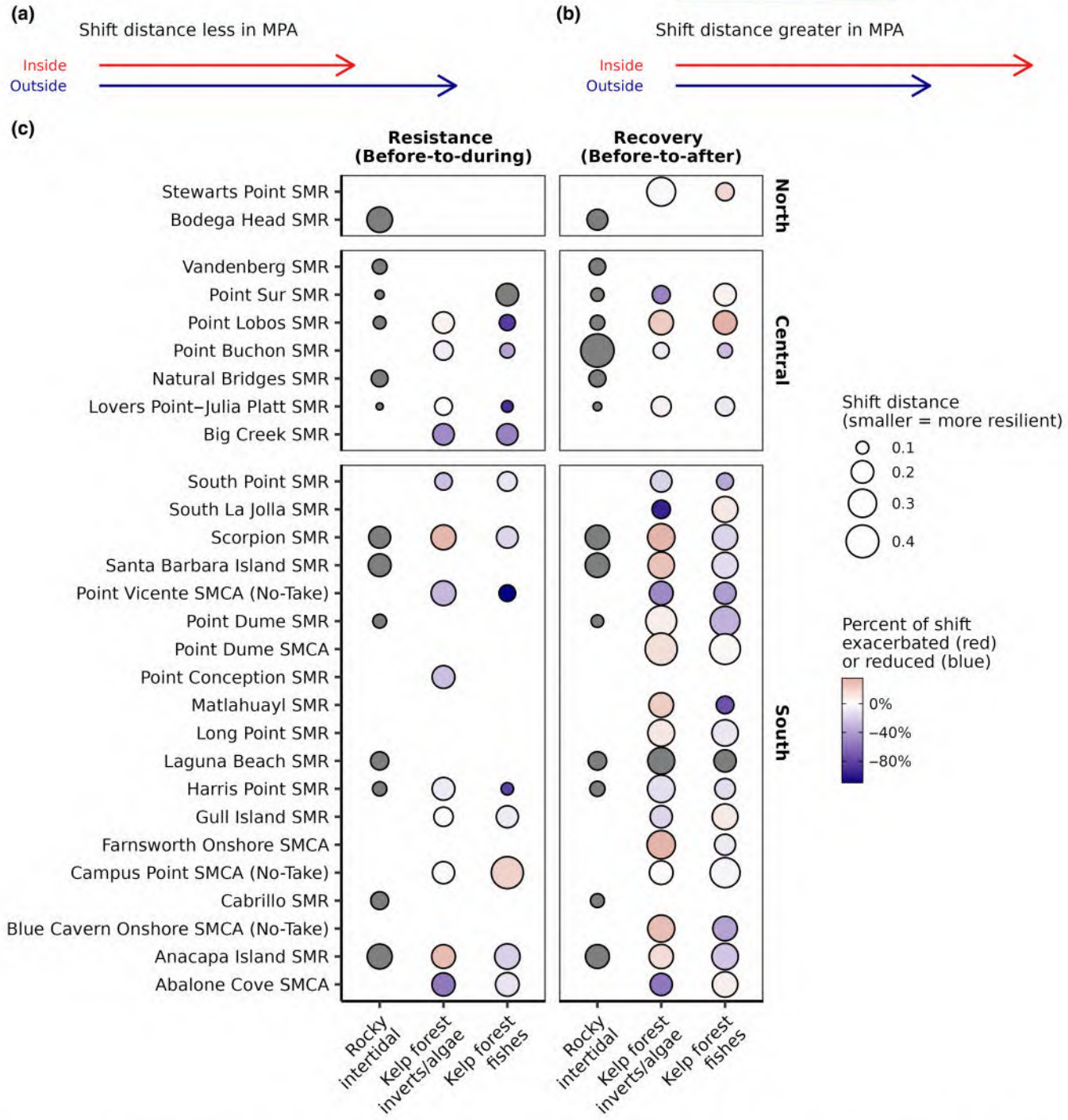

FIGURE 5 Conceptual schematics illustrating scenarios where (a) community structure shifts less inside an MPA than outside, thereby reducing community structure shifts, and (b) community structure shifts more inside an MPA than outside, thereby exacerbating community structure shifts relative to the outside sites. (c) Shows resistance (before-to-during marine heatwave comparison) and recovery (before-to-after marine heatwave comparison) of community structure to the 2014–2016 marine heatwave by MPA and habitat type along a latitudinal gradient. Point size indicates the Bray–Curtis multivariate distance for resistance or recovery. Therefore, smaller points indicate MPAs that exhibited greater resistance or recovery (i.e., communities inside the MPA shifted smaller multivariate distances). Point color indicates the magnitude of the shift of community structure inside a given MPA relative to its paired outside site. Red shades indicate MPAs where the change in multivariate distance was greater than the paired outside site (i.e., shift exacerbated inside MPAs relative to outside). Blue shades indicate MPAs where the change in multivariate distance was greater in the paired outside site than inside the MPA (i.e., community structure changes were less in the MPA). Note that the rocky intertidal does not use a paired inside–outside sampling design (outside site selection is described in Supplementary Methods, Appendix S1), and therefore, the grey points indicate MPAs without the necessary data from adjacent outside sites. Missing points indicate insufficient data to evaluate changes. MPA, marine protected area; SMCA, State Marine Conservation; SMR, State Marine Reserve (no-take MPA).

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study found that the relative proportion of warm-temperate and subtropical species increased during and after the marine heatwave. The increased proportional representation of species with warm water thermal affinities may be explained by adult movement into the study area, changes in recruitment patterns, or by a decline in the relative abundance of cold-temperate species (Fredston et al., 2021; Sanford et al., 2019; Walker et al., 2020). For example, the large increase in blue rockfish in kelp forest, shallow reef, and deep reef habitats was associated with strong recruitment and pelagic young-of-the-year abundance of rockfishes in midwater trawl surveys at the start of the marine heatwave period (Field et al., 2021). Large increases in the subtropical wrasse, senorita (*Oxyjulis californica*), were also observed in multiple habitats, contributing to community change. Second, during the marine heatwave, a large-scale outbreak of herbivorous sea urchins occurred throughout the study region that coincided with precipitous declines in kelp (and other macroalgae) and the loss of an important benthic mesopredator, the sunflower sea star (*Pycnopodia helianthoides*), due to a large-scale marine disease outbreak (Harvell et al., 2019; Smith et al., 2021).

Species life-history traits in relation to the marine heatwave event may explain why the rocky intertidal was the only habitat where community structure exhibited resilience. Variation in stress tolerance to AT is a fundamental driver of rocky intertidal community structure. Although 2014 was the warmest year on record in California, the sustained sea surface temperature anomalies associated with ocean warming during the marine heatwave may have impacted the rocky intertidal less than the subtidal habitats. Resilience in rocky intertidal MPAs may be explained by increased propagule delivery to MPAs, particularly by long-lived foundation species that stabilize the community (Raimondi & Smith, 2022), or through regulatory protection that prohibits the harvest of habitat-forming mussels (*Mytilus* spp.) in MPAs. Additionally, the rocky intertidal is the only habitat that used a fixed-plot design (Supplementary Methods, Appendix S1) and this methodological form of sampling could have resulted in smaller propagated spatial variance, which could be more biased toward conclusions of enhanced resilience relative to the sampling used in the other habitats. More research is needed to distill the mechanistic processes associated with MPA resilience in the rocky intertidal.

The primary regulation associated with MPAs in California involves a restriction of fishing activities; thus, we were interested in understanding whether ecological communities inside no-take MPAs are more resilient to marine heatwaves than our control social–ecological system. We consider human activities, such as fishing, as integral parts of the social–ecological system, since fishing occurred decades before MPA establishment and the marine heatwave, with the restriction of harvest through regulatory protection as the primary conservation mechanism. However, there are multiple viewpoints pertaining to interactions between humans and the oceans, and similarly, there are many approaches to evaluating the effects of fishing and regulatory protection. Alternative frameworks might consider areas inside MPAs as "reference" locations for places where harvest occurs (Costello, 2014). While we believe human and natural systems are now so integrated in coastal areas that there are virtually no pristine ecosystems, the framing of considering MPAs as controls and fished systems as experimental treatments would not impact our results.

It is not surprising that community shifts occurred inside and outside MPAs simultaneously for most habitats, since many of the species exhibiting the biggest changes are not directly targeted by fishing activities (e.g., invertebrates and algae). In cases where MPAs do not confer ecological resilience to marine heatwaves, it is important to note that the capacity of MPAs to harbor higher biomass than unprotected sites can still be maintained (Frid et al., 2023). Other studies have documented increases in targeted species biomass inside of MPAs within this system, which is a focal MPA conservation objective (Caselle et al., 2015; Hamilton et al., 2010; Ziegler et al., 2022). Similar responses to the marine heatwave in southern California fish communities were reported by Freedman et al. (2020), who found that non-targeted subtropical species were most responsible for community reorganization. Ziegler et al. (2023) also reported that fish species diversity recovered more quickly after the heatwave inside of MPAs.

Although the anomalously warm environmental conditions subsided after 2016, changes in community structure persisted, especially in the kelp forest, shallow reef, and deep reef habitats. These results are particularly interesting in the context of ecosystem stability and transition dynamics. Given the highly variable recruitment of the dominant fishes in the study region (Field et al., 2021; Schroeder et al., 2019), it is possible that sufficient time has not elapsed for the communities to return to a pre-perturbed state. Lagged effects due to ontogenetic shifts and methodological sampling that disproportionately select for adults may also contribute to the observed lack of recovery. For example, declines in vermilion rockfish (*S. miniatus*) in the shallow reef habitat coincided with increases in that species in the deep reef habitat, likely reflecting ontogenetic movements from shallow to deep habitats (Love, 2011; Love et al., 2002). In addition, the shallow reef habitat monitoring program used hook and line sampling, which disproportionately selects individuals that are older than 2–3 years, which is why lagged effects of oceanography were more likely to be detected in this habitat (Ziegler et al., 2023). Moreover, many species in the California Current are slow-growing, late to mature, long-lived, and relatively sedentary with small home ranges (Love, 2011; Love et al., 2002). These life-history traits may create inertia to resistance or recovery from change. However, the persistence of novel community structure configurations observed in this study, despite the return of pre-heatwave environmental conditions, highlights the need for further assessments of community transition dynamics over ecologically meaningful timescales.

Our finding of no effect of MPA features on dampening marine heatwave-driven responses in the rocky intertidal and kelp forest habitats is particularly interesting given that habitat mosaics, historic fishing effort, and connectivity have been linked to MPA conservation capacity (Bastari et al., 2016). The widespread effects of marine heatwaves and other climate perturbations may overwhelm local stressors (e.g., fishing, marine pollution) that MPAs were

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initially successful at mitigating (Bruno et al., 2019). Indeed, even biodiversity-rich spots or deep water communities are susceptible to the impacts of climate change (Emblemsvåg et al., 2022; Kocsis et al., 2021). Our results highlight the need for management frameworks that include climate adaptation strategies, the protection of range-shift corridors, and consideration of the compounding effects of both fishing and marine heatwaves on resilience (Burrows et al., 2014). More investigation is needed to better understand the drivers that can help MPAs to maintain higher fish biomass than unprotected sites under climate change (Frid et al., 2023).

Increasing our understanding of the pathways through which marine heatwaves restructure ecological communities is central to developing adaptive management solutions. In our study, we used a taxonomic (i.e., species) abundance-based approach to evaluate changes in community structure, but functional diversity may also be impacted by warming events and should be explored (McLean et al., 2019; Murgier et al., 2021). Prolonged warming events may differentially impact groups and guilds of species with similar traits, such as dispersal ability, thermal tolerance, metabolic rate, and mobility (Duncan et al., 2019; Harvey et al., 2021). Moreover, to understand the ability of MPA networks to resist and recover from future marine heatwaves, it is critical to have sufficient monitoring across multiple habitats, taxa, and regions. Because pre-perturbation data are essential for establishing baselines and comparatively evaluating ecological responses, consistent monitoring is fundamental to capture the effect of marine heatwave events. Although the timing of marine heatwaves is unpredictable, evidence suggests that the frequency and magnitude of abrupt warming events are expected to increase (Frölicher et al., 2018; Holbrook et al., 2020).

Evidence of MPAs as a tool for mitigating the effects of climate change remains controversial, especially since most MPAs were initially designed for other conservation priorities. Our analysis of ecological community change across a network of MPAs highlights that widespread effects of climate-driven stressors such as marine heatwaves can dramatically restructure ecological communities, regardless of regulatory protection. Ultimately, improved resilience capacity of MPA networks will require integrating adaptive management with careful consideration of how abrupt climate change-driven perturbations may inhibit intended conservation outcomes.

AUTHOR CONTRIBUTIONS

Joshua G. Smith, Christopher M. Free, Cori Lopazanski, Scott L. Hamilton, Richard M. Starr, David Mouillot, Kerry J. Nickols, and Jennifer E. Caselle conceived the ideas and designed methodology. Joshua G. Smith, Christopher M. Free, Cori Lopazanski, Julien Brun, Mark H. Carr, Scott L. Hamilton, Peter T. Raimondi, Shelby L. Ziegler, and Jennifer E. Caselle collected the data. Joshua G. Smith, Christopher M. Free, Cori Lopazanski, Julien Brun, and Clarissa R. Anderson analyzed the data. Joshua G. Smith led the writing of the manuscript. All authors contributed substantially to revisions. The authors have agreed to be listed and approved the manuscript for submission.

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CONFLICT OF INTEREST STATEMENT

The authors have no conflicts of interest to declare.

DATA AVAILABILITY STATEMENT

The data that support the findings of this study are openly available in DataONE from the following resources: Brooks et al. (2022), https://search.dataone.org/view/urn%3Auuid%3Af843f110-e691-4d26-bf12-3854a4b641cd; Cieri et al. (2022), https://opc.dataone.org/view/urn%3Auuid%3A7353f779-b722-4064-8074-3e9c651ed38e; Malone et al. (2022), https://doi.org/10.1002/ecy.3630; MARINe et al. (2022), https://doi.org/10.6085/AA/marine_cbs.5.5. All source code is available in GitHub at https://github.com/NCEAS/ca-mpa.

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A report to the California Ocean Protection Council and California Department of Fish and Wildlife

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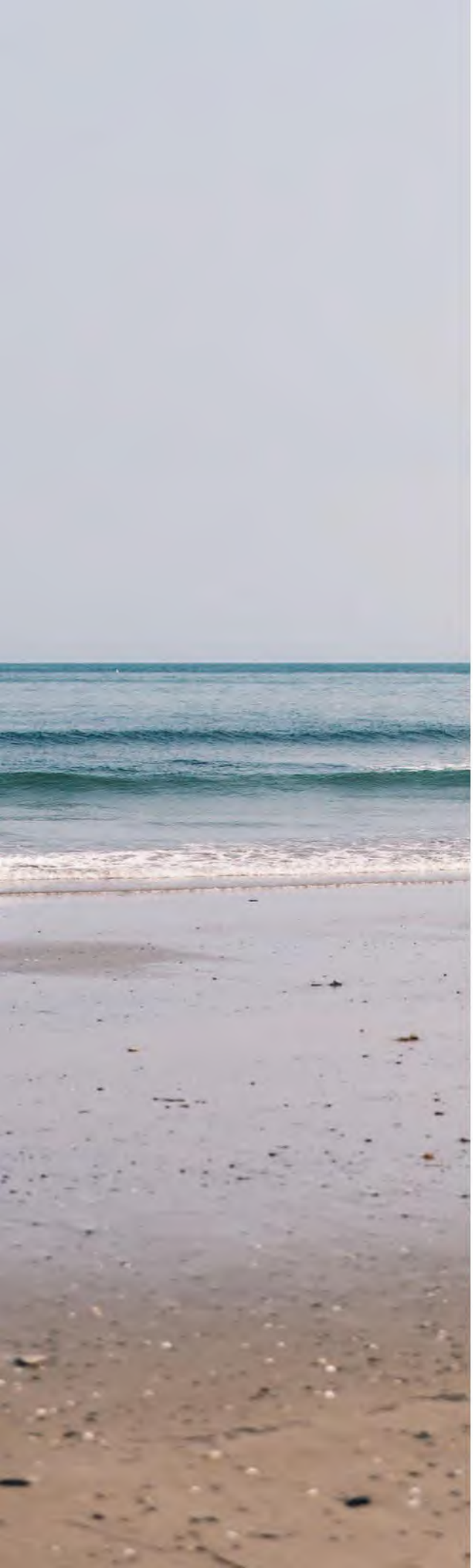

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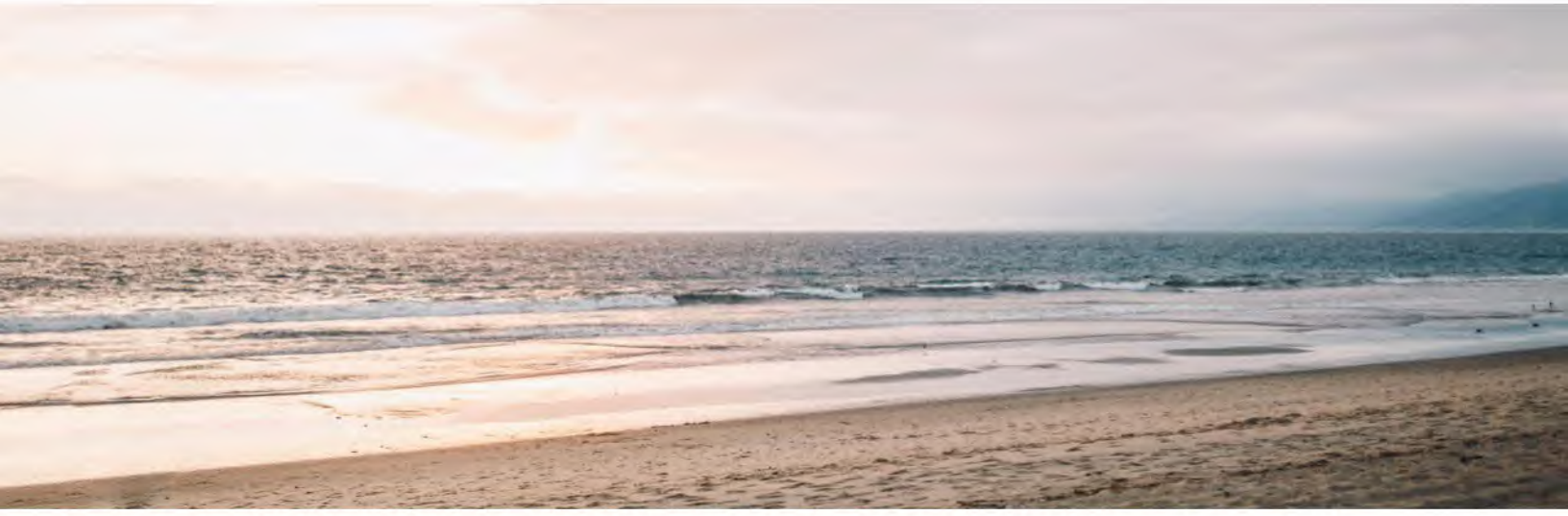
Executive Summary

As part of the Decadal Management Review, and with support from California's Ocean Protection Council, the National Center for Ecological Analysis and Synthesis (NCEAS) initiated a working group to develop an understanding of how the State of California's Network of marine protected areas (MPAs) has performed over the past decade, and the lessons those insights provide for future monitoring and management of the network. The project leveraged a working group of experts from within and outside California to synthesize existing MPA monitoring data and data related to additional factors likely to influence MPA performance.

The primary goal of this MPA analysis and synthesis project is to perform social and ecological analyses using a diverse set of available monitoring data that address critical MPA performance evaluation questions, guided by the MPA Monitoring Action Plan and the recommendations of both the Decadal Evaluation and the Climate Resilience Working Groups, and working in close coordination with long-term MPA monitoring researchers, some of which are working group members.

The working group focused on four main aspects of MPA evaluation: Ecological Performance, Habitat, Climate Resilience, and Human Engagement. We first examined what synthetic analyses could be performed across the Network, different habitats, and across the North, Central, South, and Northern Channel Islands regions to evaluate whether MPA implementation resulted in increased metrics of performance. We then evaluated the proportional representation of coastal habitats across the MPA Network. We also examined how an unprecedented climate change driven marine heatwave impacted ecological communities within and outside of MPAs. Lastly, we assessed how human engagement was distributed across the MPA Network.



Ecological Performance

Key Findings:

- Fish biomass in 2019-2020 tended to be greater in MPAs relative to outside of MPAs for targeted species across different monitored habitats and for all regions except Northern California. However, only in the South Coast region was this MPA effect significant, with this region driving a significant positive 'statewide' effect of MPAs.
- The positive MPA responses in fish biomass within each region were related to MPA age (which is closely correlated with region) and not related to MPA size or distance to port (as a proxy for fishing effort).
- For three habitats (kelp forest, rocky reef, and deep reef) there is a sufficient time series with which to measure change over time. Biomass of fish species targeted by fishing increased over time for two habitats (kelp forest and rocky reef) in three out of four regions.
- There was no difference in fish diversity between MPA and reference sites within any of the habitats.

Recommendations:

- Continued comprehensive monitoring is required to measure MPA performance effectively and to identify changes over time.
- Incorporating additional influencing factors such as fishing pressure prior to implementation and connectivity is important to evaluating patterns of response to MPA implementation.
- Ecological performance of MPAs must be evaluated against science-based expectations of performance.

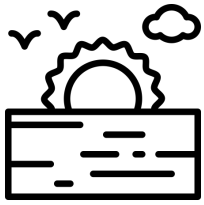
Habitat

Key Findings:

- Onshore habitat composition (i.e., proportion of shoreline that is sandy beach, rocky intertidal, coastal marsh, tidal flats, and hardened/armored shoreline) varies among MPAs and regions within the network. South Coast MPAs contained more sandy beach, while the Northern Channel Islands and Central coast MPAs contained more rocky intertidal. MPAs in the North Coast were highly variable, with some containing 100% sandy beach and others 100% rocky intertidal.
- Nearshore/offshore habitat composition (i.e., proportion of hard and soft substrate and kelp cover by depth stratum) varies among MPAs within the network. Interestingly, within each region, larger MPAs tend to contain greater relative amounts of soft bottom, deeper habitats
- MPAs can be classified by their situational context – whether they are estuary-only, coastal, or offshore – and there are significant differences in habitat composition among these three classifications.
- There are significant differences in coastal MPA habitat composition among each of the four regions (North, Central, N. Channel Islands, and South).

Recommendations:

- With the extensive habitat data available, future analyses can examine linkages between habitat diversity and species diversity.
- Further human dimensions data are required to assess whether culturally important habitats are adequately protected.



Climate Resilience

Key Findings:

- Community composition in Central California changed as a result of the marine heatwave in three out of five habitats (kelp forest, rocky reef, and deep reef).
- Community shifts in Central California were associated with changes in oceanographic conditions.
- In Central California, some ecological communities in SMRs experienced less change than in associated reference sites, but across all monitoring groups and MPAs, there was no overarching effect of MPAs in mitigating change. Continued monitoring will be able to address differential effects of MPAs on recovery.

Recommendations:

- In order to understand the ability of the MPA Network to resist and recover from future marine heatwave events, it is critical to have sufficient monitoring across regions. Therefore, continued comprehensive monitoring is required.
- California's habitats are likely still recovering from the heatwave and it is possible that more time needs to pass before recovery and resilience can be adequately assessed.
- Climate change threatens to inhibit the intended performance outcomes of marine protected areas. Additional tools and strategies are needed in conjunction with regulatory protection to plan for and mitigate the consequences of marine heatwave events and other climate perturbations. As long as the world continues to emit carbon dioxide, both protected and unprotected areas in California's waters will remain under threat. Hofmann et al. (2021) prioritized research questions and methods, and proposed recommendations for the State to follow. We recommend centering that report in future monitoring and research.

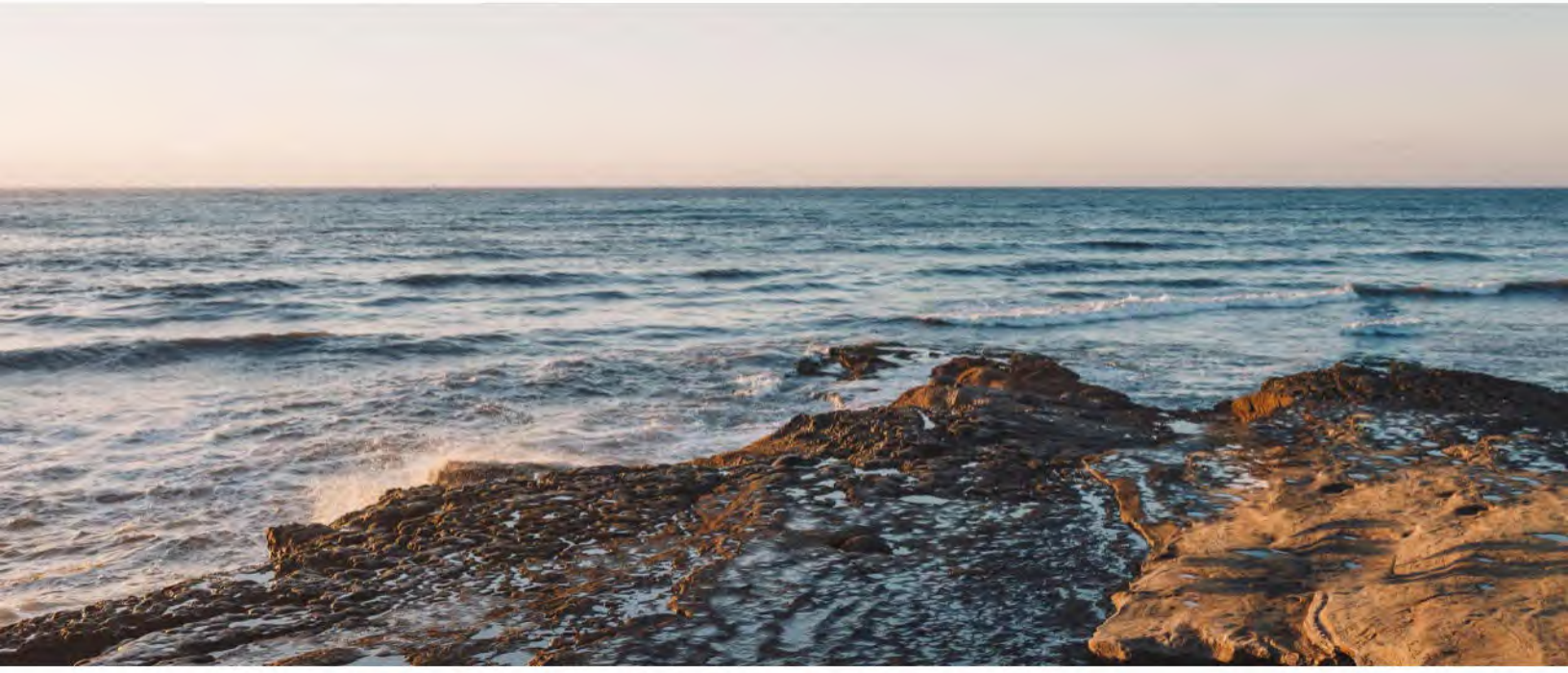
Human Engagement

Key Findings:

- Engagement in MPAs is largely proportional to population density (number of people within 50 km), but some 'charismatic' MPAs have shared traits that further expand human use.
- MPAs affiliated with state and county parks, extensive sandy beach shoreline, and that allow take show disproportionately high engagement relative to population density.

Recommendations:

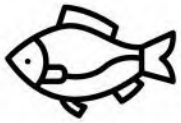
- Engagement in MPAs could be promoted by developing land-based infrastructure that facilitates access to coastal MPAs or by co-locating new MPAs with existing infrastructure during the design phase.
- Knowledge of the representativeness of current users is necessary to design and implement programs that promote access and engagement among underrepresented groups.
- Further data on human dimensions is required to evaluate California's MPA Network in this regard. Hall-Arber et al. (2021) lay out specific recommendations for advancing the capacity to evaluate California's MPA Network within the human domain. We recommend using that report as a roadmap for the future.



Project Narrative

Background:

Acknowledging the importance of California's marine resources to the state's economy and ecological systems, the California Legislature passed the Marine Life Protection Act (MLPA, Chapter 10.5 of the California Fish and Game Code, §2850-2863) in 1999. This legislation required the state to design and implement a network of MPAs to meet the following six goals:



Protect the natural diversity and abundance of marine life, and the structure, function and integrity of marine ecosystems.

Help sustain, conserve and protect marine life populations, including those of economic value, and rebuild those that are depleted.

Improve recreational, educational and study opportunities provided by marine ecosystems that are subject to minimal human disturbance, and to manage these uses in a manner consistent with protecting biodiversity.

Protect marine natural heritage, including protection of representative and unique marine life habitats in California waters for their intrinsic values.

Ensure California's MPAs have clearly defined objectives, effective management measures and adequate enforcement and are based on sound scientific guidelines.

Ensure the State's MPAs are designed and managed, to the extent possible, as a network.

Guided by these goals, California established a globally significant MPA network that consists of 124 individual MPAs and spans the state's entire 1,100-mile coastline, resulting in protection of 16% (850 square miles) of state waters. Management of the statewide MPA network is guided by the 2016 Master Plan for Marine Protected Areas (CDFW 2016), which establishes a decadal, network-wide management review cycle for MPAs:

"The formal 10-year management review will emphasize ecological, socioeconomic, and governance aspects of the network… [the review] may include, but not be limited to, a scientific evaluation, public scoping meetings, and panel discussions to determine the status, function, and possible changes to the network. The scientific evaluations that inform the formal 10-year management review will encompass multiple elements, including a scientific assessment of ecological and socioeconomic MPA monitoring results, together with other data streams such as MPA enforcement data."

The first Decadal Management Review (DMR) is currently underway. This review will evaluate MPA performance against the six goals of the MLPA and will be informed by a variety of data and information streams including both baseline and long-term MPA monitoring (**Figure 1**). The first phase of MPA monitoring was intended to establish an ecological and socioeconomic baseline at or near the time of MPA implementation in each region, against which future changes can be measured. Baseline MPA monitoring concluded in 2018. To guide long-term MPA monitoring into the future, the California Department of Fish and Wildlife (CDFW) has created an MPA Monitoring Action Plan (CDFW 2018) that lays out priority metrics, habitats, sites, and species to focus on for long-term monitoring. The Action Plan was approved by the California Fish and Game Commission (CFGC) and the California Ocean Protection Council (OPC) in the fall of 2018. In the spring of 2019, OPC funded several long-term, habitat-specific MPA monitoring projects that are grounded in the Action Plan. Habitat-specific technical reports have been submitted to CDFW as part of the DMR (**Box 1**).

Box 1 | *California MPA monitoring habitat-specific technical reports.*

Habitat and Species Type	Description
Rocky Intertidal o Invertebrates o Algae	Historical biological and environmental data collected in the rocky intertidal statewide, dating back to the 1980s.
Kelp Forests o Invertebrates o Algae o Benthic & midwater fishes	Historical biological surveys of kelp forests and shallow rocky reefs (less than 30 meters) statewide, dating back to 2000, at MPAs and reference sites.
Rocky Reef (CCFRP) o Demersal fishes	Hook-and-line surveys of fish composition, abundance, size, and biomass at MPAs and reference sites.
Deep Reef o Invertebrates o Demersal fishes	Surveys of invertebrates and fishes conducted at deep (greater than 30 meters) rocky reefs at MPAs and reference sites.
Sandy Beach and Surf Zone o Birds o Fishes	Surveys of birds, stranded kelp, and surf zone fishes at MPAs and reference sites.

From December 2019 - June 2021, OPC and CDFW supported a Decadal Evaluation Working Group (DEWG) of the OPC Science Advisory Team (SAT) that was tasked with translating the goals of the MLPA into scientifically tractable questions and associated analytical approaches, building on the Action Plan (in particular Appendix B) to guide evaluation of the MPAs during the DMR. Emphasis was placed in that report (Hall-Arber et al. 2021) on integrating data across habitats, regions, and domains in the DMR, especially to answer evaluation questions related to the performance of the overall network. In parallel, a second working group was convened by the OPC and Ocean Science Trust on behalf of CDFW to explore the role of California's MPAs and MPA Network in imparting climate resilience. The Climate Resilience report (Hofmann et al. 2021) provided a set of research questions and recommendations to support the DMR. These two reports, together with the Action Plan, provide the rationale and framing for this synthesis report.

With support from OPC, the National Center for Ecological Analysis and Synthesis (NCEAS) initiated this project to develop an understanding of how the State of California's network of MPAs has performed over the past decade, and the lessons those insights provide for future monitoring and management of the network. The project leveraged a working group of experts

from within and outside CA to synthesize existing MPA monitoring data and data related to additional factors likely to influence MPA performance.

The primary goal of this MPA analysis and synthesis project is to perform social-ecological analyses using a diverse set of available monitoring data that address critical MPA performance evaluation questions, guided by the Action Plan and the recommendations of both the Decadal Evaluation and the Climate Resilience Working Groups, and working in close coordination with long-term MPA monitoring researchers, some of which are working group members.

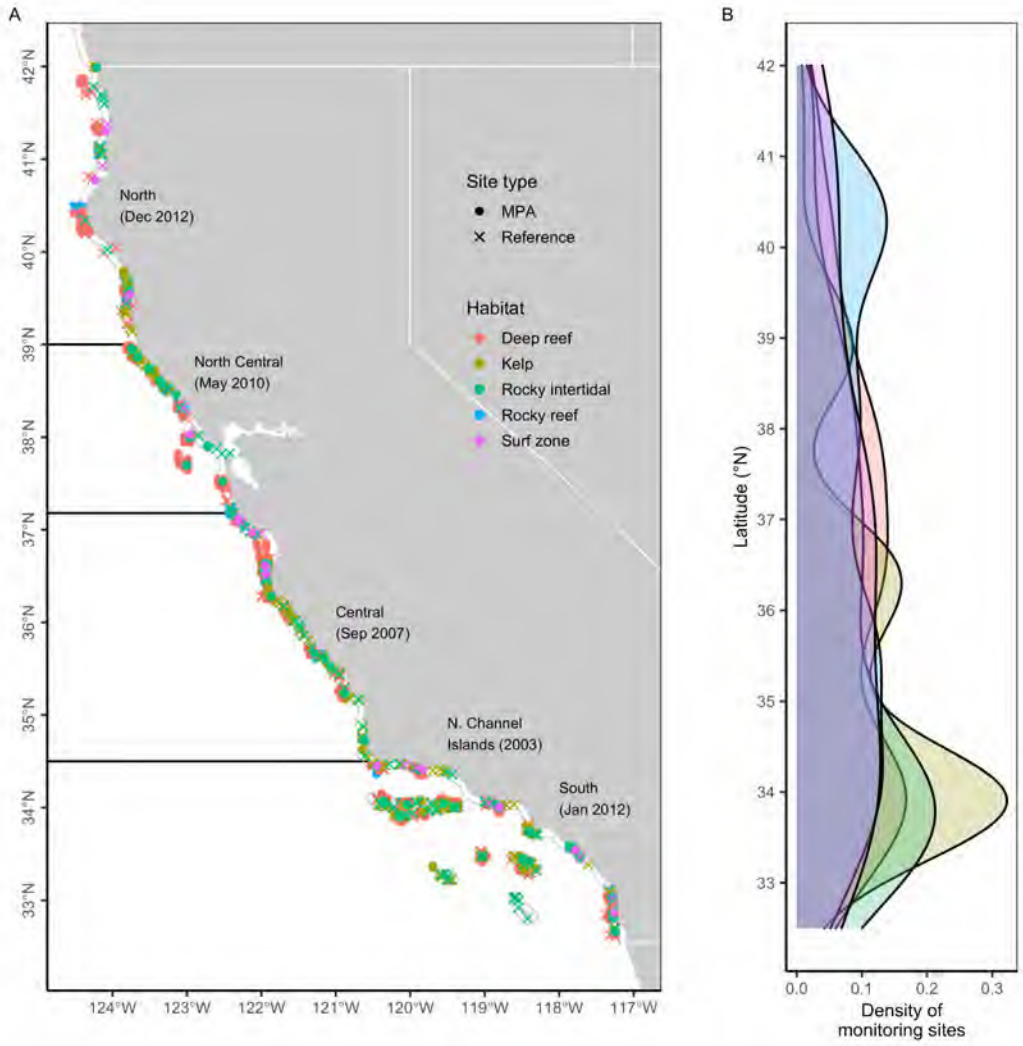


Figure 1 | *Ecological monitoring sites inside (circle) and outside (x) of marine protected areas (MPAs) along California's coast. In panel A, the dark horizontal lines delineate the four MLPA planning regions (labeled with year of implementation) and the thin gray line indicates state waters (3 nautical miles offshore). Panel B depicts the density of sites for each monitoring group and MLPA planning regions. The colors in each panel correspond to the six long term monitoring programs included in this synthesis report: deep reef, kelp forest, rocky intertidal, rocky reef (CCFRP), and surf zone.*

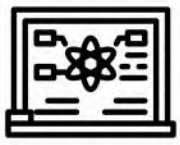
Objectives:

The group was tasked with building upon existing analyses stemming from the habitat-specific monitoring teams and providing new analyses as needed, to provide answers to MPA performance evaluation questions outlined in Appendix B of the Action Plan and refined by the DEWG. The broad objectives for this group were to:

Identify patterns and trends emerging from existing data streams and analytical products, including baseline and long-term MPA monitoring projects, by integrating across habitats and integrating across the statewide network.

Incorporate influencing factors (e.g., climate change, environmental conditions, historical fishing pressure) into analyses related to MPA performance evaluation, especially as they relate to performance of the network of MPAs.

Explore MPA performance evaluation questions that are not currently being addressed, but for which sufficient data exist to conduct analyses.



Evaluate MPA design criteria using best available science and cutting-edge analytical approaches.

To date, the working group focused on four main aspects of MPA evaluation: Ecological Performance, Habitat, Climate Resilience, and Human Engagement. We first examined what synthetic analyses could be performed across the network and different habitats to evaluate whether or not MPA implementation resulted in increased metrics of MPA performance. We then evaluated the proportional representation of coastal habitats across the MPA network. We also examined how an unprecedented climate change driven marine heatwave impacted ecological communities within and outside of MPAs. Lastly, we assessed how human engagement was distributed across the MPA network.

The analyses presented in this report included data collected by five habitat monitoring groups: rocky intertidal, surf zone, kelp forest (visually sampled by divers at 5-20 m depth), rocky reef (sampled by hook and line at <40 m depth; CCFRP), and deep reef (sampled at 30-130 m using a remotely operated vehicle). Across the habitat monitoring groups, two organismal groups were sampled: fishes (kelp forest, rocky reef, and deep reef), and benthic invertebrates and algae (rocky intertidal and kelp forest). The remainder of the report is organized into four chapters: Ecological Performance, Habitats, Climate Resilience, and Human Engagement. The overarching questions for each chapter were guided by the following MLPA goals and DEWG questions:

Chapter One: Ecological Performance

(1) Did regulatory implementation of a marine protected area network result in the increase of fish biomass and diversity inside of MPAs relative to outside (hereafter, 'reference') locations?

- MLPA Goal 1: To protect the natural diversity and abundance of marine life, and the structure, function, and integrity of marine ecosystems.
- MLPA Goal 2: To help sustain, conserve, and protect marine life populations, including those of economic value, and rebuild those that are depleted.
- MLPA Goal 6: To ensure that the MPAs are designed and managed, to the extent possible, as a component of a connected statewide network.
- DEWG question 1c: Does the difference between MPAs and reference sites in biomass of a focal and/or protected species increase over time?
- DEWG question 1g: Does the difference between MPAs and reference sites in overall biomass of focal and/or protected species increase over time?
- DEWG question 1h: Does the difference between MPAs and reference sites in overall biomass of fished species increase over time relative to species that are not fished?
- DEWG question 20a: Has the difference between MPAs and reference areas in the size/age structure of recreationally fished species increased over time?
- DEWG question 2a: Does the difference between MPAs and reference sites in species diversity within any given functional group increase over time?

Chapter Two: Habitat

(1) How are coastal and marine habitats distributed across the MPA network?
(2) Are there regional differences in habitat composition among the management regions?

- MLPA Goal 4: Protect marine natural heritage, including protection of representative and unique marine life habitats in CA waters for their intrinsic value.
- DEWG question 21: Have unique habitats been adequately represented and protected by the current distribution and designation of MPAs?

Chapter Three: Climate Resilience

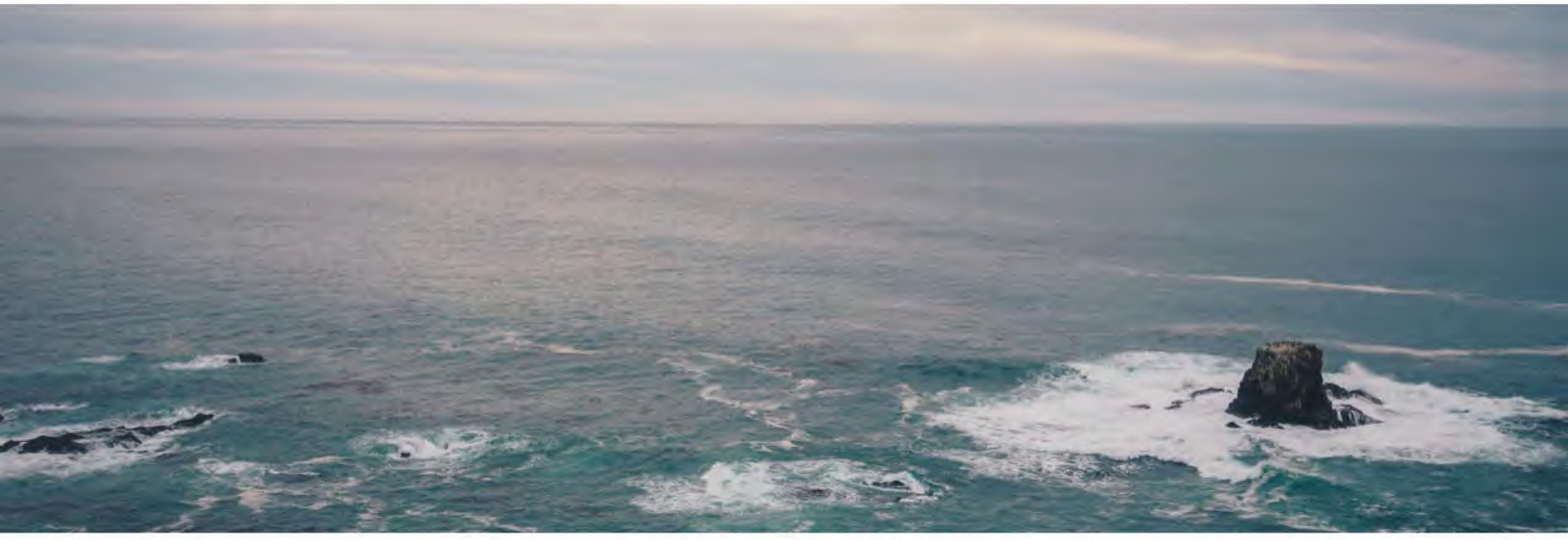
(1) How did ecological communities within and outside of MPAs respond to a marine heatwave?
(2) Were changes in ecological communities similar across ecosystems?
(3) Are communities in MPAs more resistant or resilient to disturbances like marine heatwaves?

- MLPA Goal 1: To protect the natural diversity and abundance of marine life, and the structure, function, and integrity of marine ecosystems.
- MLPA Goal 2: To help sustain, conserve, and protect marine life populations, including those of economic value, and rebuild those that are depleted.
- DEWG question 5a: Does the nature of recovery of natural communities from disturbance events differ in MPAs relative to outside reference sites?
- DEWG question 5b: Does the timing of recovery of natural communities from disturbance events differ in MPAs relative to outside reference sites?
- DEWG question 5e: Do MPAs contribute to the recovery of impacted ecosystems?

Chapter Four: Human Engagement

(1) How is human engagement distributed across the network?

- MLPA Goal 1: To protect the natural diversity and abundance of marine life, and the structure, function, and integrity of marine ecosystems.
- MLPA Goal 2: To help sustain, conserve, and protect marine life populations, including those of economic value, and rebuild those that are depleted.
- DEWG question 5a: Does the nature of recovery of natural communities from disturbance events differ in MPAs relative to outside reference sites?
- DEWG question 5b: Does the timing of recovery of natural communities from disturbance events differ in MPAs relative to outside reference sites?
- DEWG question 5e: Do MPAs contribute to the recovery of impacted ecosystems?



Chapter One: Ecological Performance

Introduction:

California's network of MPAs span multiple habitats and ecosystems, providing a unique opportunity to evaluate emergent social and ecological effects in relation to the design of the network (i.e., MPA 'performance'). As part of the Marine Life Protection Act (MLPA), the California MPA network was designed to conserve the diversity and abundance of marine life, and to protect the structure and function of marine ecosystems. Through the State's MPA Monitoring Program, there is now a wealth of monitoring data available to support the evaluation of the MPA network in relation to the goals of the MLPA.

The MLPA mandated that California re-design a system of small numbers of unconnected protected areas into a functional network of ecologically connected MPAs. A network generally includes a set of multiple MPAs, located in critical habitats, and designed to be connected by the dispersal of larvae and/or movement of juveniles and adults. In an effective network, organisms must be able to travel beyond the boundaries of a single protected area into other protected areas. By using different sizes and spacing of protected areas, a network can protect species with different life history and behavioral characteristics, and may offer a better compromise between human use and conservation than single large protected areas. California went through a lengthy and science-informed process for implementing the network (Gleason et. al 2013, Kirlin et al. 2013, Botsford et al. 2014).

For all the potential benefits of well-designed MPA networks, they pose many difficulties in assessing MPA performance. Often, and even by definition, a network is placed across a biogeographic region and designed to capture a variety of habitat types and environmental characteristics. While this may be useful for protecting a wide range of species, assessment is challenging because the effect of each MPA in the network may be different, depending on the traits and life-histories of the species it contains, the variety of environmental characteristics it experiences, and the spatial distribution of human usage around and within it. Further, each MPA also protects a diversity of habitats, each monitored independently using methods best suited to the particular habitat characteristics.

Both the baseline and long-term monitoring of California's MPAs have been organized around specific habitats (e.g., rocky intertidal, shallow and mid-depth rocky reefs, sandy beach, and estuaries) as called for in the MPA Monitoring Action Plan. Despite a well-resourced MPA Management and Monitoring Program and some coordination between the habitat-specific monitoring programs, we found that there were limitations in the comprehensiveness and comparability of the datasets across time and space (**Table S1**). For example, since MPAs in different regions of California were implemented at different times, baseline monitoring for each region occurred in different years. In addition, although some efforts were made to rank the importance of individual MPAs for monitoring prioritization, spatial overlap among different habitat monitoring groups was not consistent (**Table S2**). Despite these limitations, we present a suite of analyses designed to evaluate the performance of California's MPAs across habitats and regions. We focus on taxa (fishes) and years (2019-20) where we have the most complete datasets across habitats. The insights generated from these analyses will be of broad interest to other regions seeking to develop reserve systems and MPA networks.

We used a meta-analytical framework to test for emergent effects of MPA implementation. It should be noted that we did not do network analyses *per se* - that is we do not account for connectivity or between-habitat ecological relationships.

The MPA Ecological Performance chapter of this report aims to address the following MLPA goals:

- MLPA Goal 1: To protect the natural diversity and abundance of marine life, and the structure, function, and integrity of marine ecosystems.
- MLPA Goal 2: To help sustain, conserve, and protect marine life populations, including those of economic value, and rebuild those that are depleted.
- MLPA Goal 6: To ensure that the MPAs are designed and managed, to the extent possible, as a component of a statewide network.

Methods and Analytical Approaches:

We explored the ecological performance of the MPA network by evaluating regional trends in fish biomass and diversity inside and outside of SMRs and de facto SMRs (evaluated for each individual habitat based on regulations; hereafter 'SMRs', see below). We used a meta-analytic approach to evaluate these performance metrics, where we summarized results for each habitat within a region in a synthetic framework, to determine whether any effects of no-take regulations manifest across habitat monitoring groups. This particular analysis does not evaluate changes over time. Instead, it uses the means of biomass (for targeted and nontargeted fish species) or diversity (for all fish species) inside and outside of SMRs across the 2019-20 sampling period as a measure of effect size – that is, an MPA effect. For this analysis, we only used data from the 2019-20 sampling period for two fundamental reasons. First, the 2019-20 sampling period is the most

spatially comprehensive time point across all of the habitat monitoring groups; and second, this sampling period is well after MPA establishment for all regions. The model using fish biomass distinguishes between targeted and nontargeted fish species. The null hypothesis is that biomass of targeted and nontargeted fish should be similar if there is no effect of no-take regulations (all else being equal). Therefore, we interpret significant differences between these two categories of harvest status (targeted and nontargeted) as being reflective of an effect of regulatory protection (Carr et al. 2021).

De facto SMRs

A SMCA was designated as a de facto SMR (no-take reserve) for a particular habitat if the allowed take in the SMCA was unlikely to affect that particular habitat. For example, if the only allowed take in a SMCA is salmon (found mostly offshore), this SMCA might be considered a de facto SMR for kelp forests, surf zone and rocky intertidal habitats. This decision was made using expert judgment of the Principal Investigators of the habitat monitoring groups. See **Table S3** for list of de facto SMRs by region and habitat group.

Model construction

The meta-analysis was constructed using the mean response ratio (fish biomass or diversity of SMRs / fish biomass or diversity of reference sites) for each region and for each habitat. For each habitat, we first calculated the mean biomass or diversity (Shannon-Wiener Index) for each protected area (SMRs only) and for each reference site (non-protected areas outside SMRs) within a region across the 2019-20 sampling period. After calculating the mean for each protected area and reference site, we then computed the log ratio using the grand mean of all protected areas and of all reference sites for a given habitat within a region. Therefore, the log response ratio (logRR) for a given region, habitat, and fished status is equivalent to:

$$\log\left(RR\right)_{\text{region, habitat, fished status}} = \log\frac{x_{\text{protected}}}{x_{\text{reference}}}$$

Importantly, the meta analysis also includes an overall pooled effect size, which is weighted by the spatial sampling effort of each habitat. Therefore, habitats that had greater sampling effort at SMRs and reference sites have greater ‘weight’ in the overall pooled effect.

We tested for significance of the within-region pooled effect using a random effect (RE) linear meta-regression. The RE model assumes that the effect of regulatory protection might vary by ecological community type (i.e., by habitat). It is a suitable model fitting type for this analysis because it also assumes that variability may be due to real (unexplained) differences inherent to each region or habitat.

Drivers of performance

We constructed a linear metaregression to evaluate the effect of MPA characteristics (MPA age, size, and distance to port) on fish biomass and diversity. Similar to the meta-analysis above, the meta-regression synthesizes across habitats to evaluate whether any observed differences in response ratio between regions are broadly explained by MPA age, size, and distance to the closest port. Port locations were identified from the CDFW MarineBIOS layer.

Temporal trends of fish biomass and diversity

We also examined the temporal trends (annual changes over time) of targeted and nontargeted fish biomass and total fish diversity for habitats that had sufficient data spanning multiple years. This included three habitats: kelp forest, rocky reef, and deep reef. For this analysis, we calculated the mean response ratio of SMR and reference site pairs for each habitat, region, and year using all years that were sampled for each group.

Data Summaries, Analyses, Figures, Tables, and Interpretation:

Although individual habitats showed significant and positive response ratios, the only significant pooled effect (across habitats within a region) was for targeted fish biomass in the South region (**Figure 1**; $P < 0.001$). However, there was a significant MPA effect on biomass overall (biomass of all fishes regardless of fished status) and targeted fish biomass at the state level (across all regions). This latter result is likely driven by the strong positive response ratio in the south, but also in-part by the positive (not significant) response ratios observed in other regions. These differences between SMR and reference sites were best explained by MPA age, although MPA age is closely correlated with bioregion, as many, but not all, MPAs were implemented at the same time within a region. MPA size and distance to port were not significantly related to regional differences in response ratios (**Table 1**). We did not find a significant effect size for fish diversity (**Figure 2**). Three out of four regions show increasing trends in biomass over time for targeted fish biomass within kelp forest and rocky reef habitats (**Figure 3**). No consistent changes in fish biodiversity were found over time across regions or habitats (**Figure 4**).

Table 1 | *Results from a meta-regression on the between-region drivers of response ratios. Predictors are the input variables in the meta regression, Estimates are the model coefficients (the relative contribution of each variable to observed differences in response ratio), CI represents the 95% confidence interval surrounding each coefficient, and p is the significance level of each predictor variable.*

Predictors	Estimates	CI	*p*
Region [north]	3.57	0.48 – 6.65	**0.023**
Region [north islands]	-4.37	-0.89 – -0.64	**0.022**
Region [south]	5.20	1.11 – 9.29	**0.013**
MPA age	0.99	0.17 – 1.81	**0.018**
MPA size	0.01	-0.03 – 0.05	0.648
Distance to port (m)	0	0	0

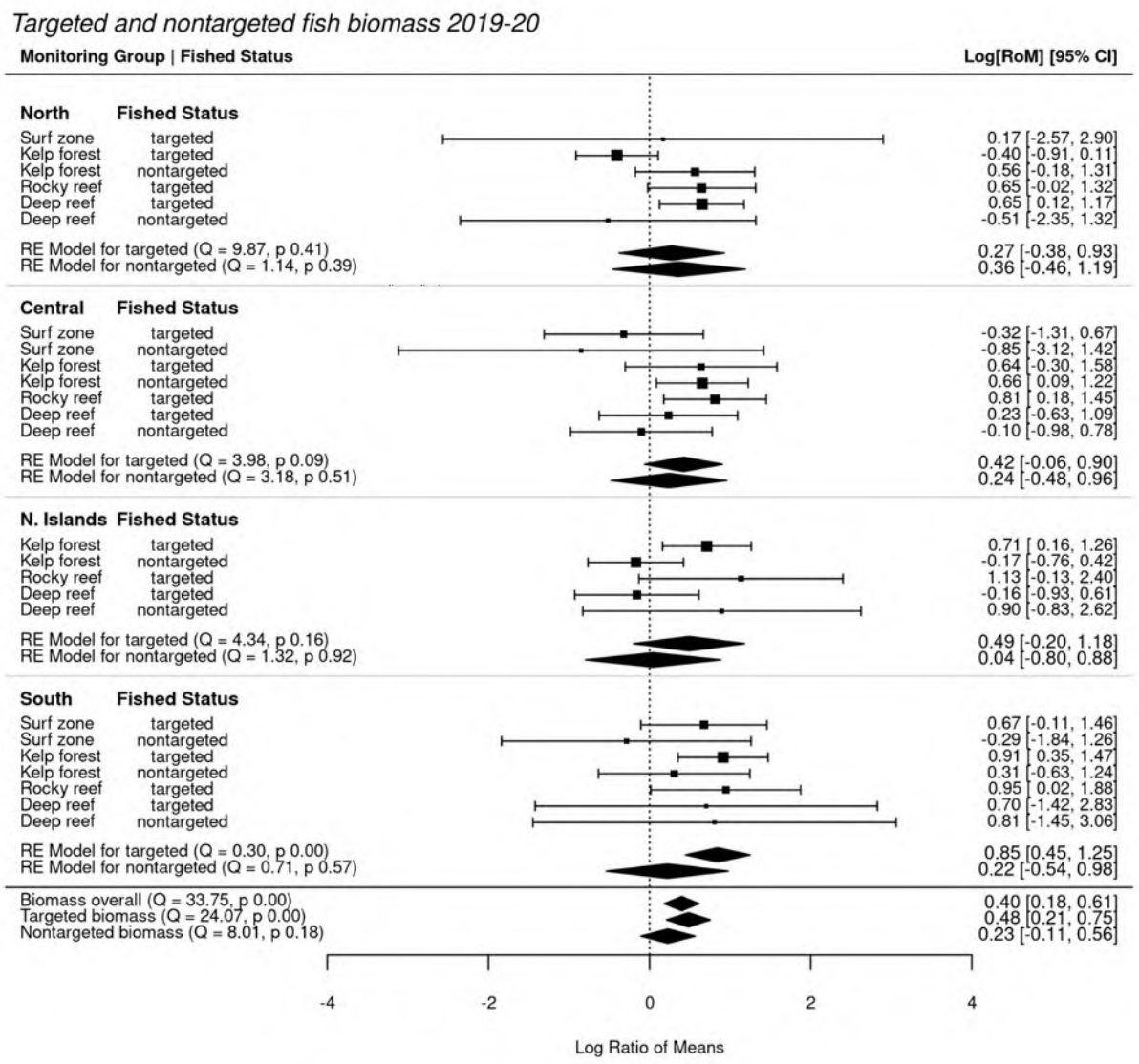


Figure 1 | *Targeted and nontargeted fish biomass response ratios across habitat monitoring groups. Each point depicts the log response ratio (SMR/reference) for a single habitat monitoring group across the 2019-20 sampling period and point sizes are scaled to their relative contribution to the regional pooled (across habitats; black diamond) effect. Positive values indicate greater fish biomass inside of MPAs relative to reference sites. Error bars represent 95% confidence intervals surrounding the response ratio. The vertical dashed line indicates a non-significant effect - where there is no difference in biomass between no-take MPAs and reference sites. Therefore, points with whiskers that do not overlap the line are statistically significant. Similarly, the edges of the pooled effect diamonds represent 95% confidence regions. Finally, each region includes results from a random effects model (RE Model) evaluating the significance of the pooled effect size.*

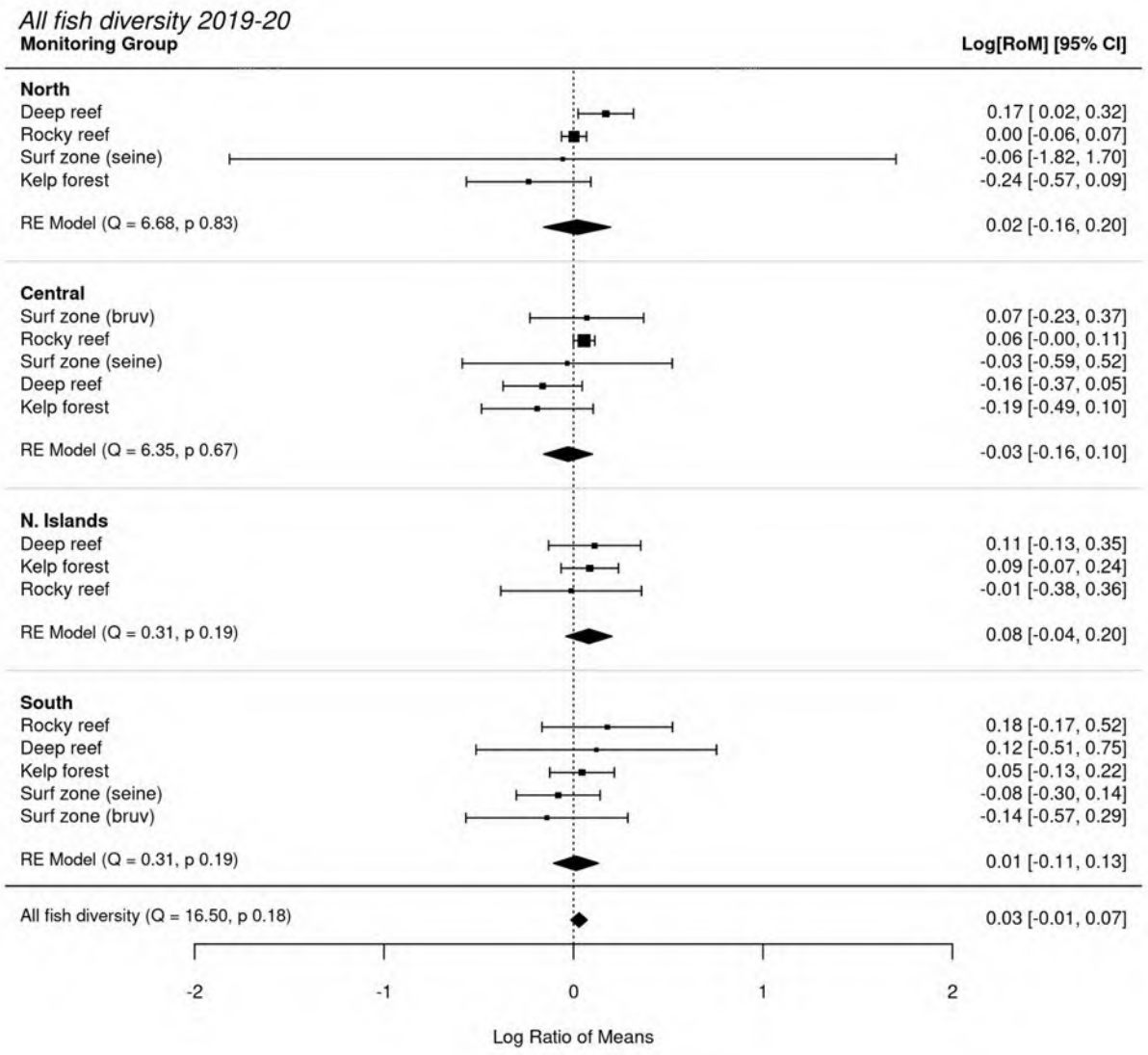


Figure 2 | *Fish diversity (Shannon-Wiener index) response ratios across habitat monitoring groups. Each point depicts the log response ratio (SMR/reference) for a single habitat monitoring group across the 2019-20 sampling period and point sizes are scaled to their relative contribution to the regional pooled (across habitats; black diamond) effect. Error bars represent 95% confidence intervals surrounding the response ratio. The vertical dashed line indicates a non-significant effect - where there is no difference in biomass between no-take MPAs and reference sites. Therefore, points with whiskers that do not overlap the line are statistically significant. Similarly, the edges of the pooled effect diamonds represent 95% confidence regions. Finally, each region includes results from a random effects model (RE Model) evaluating the significance of the pooled effect size.*

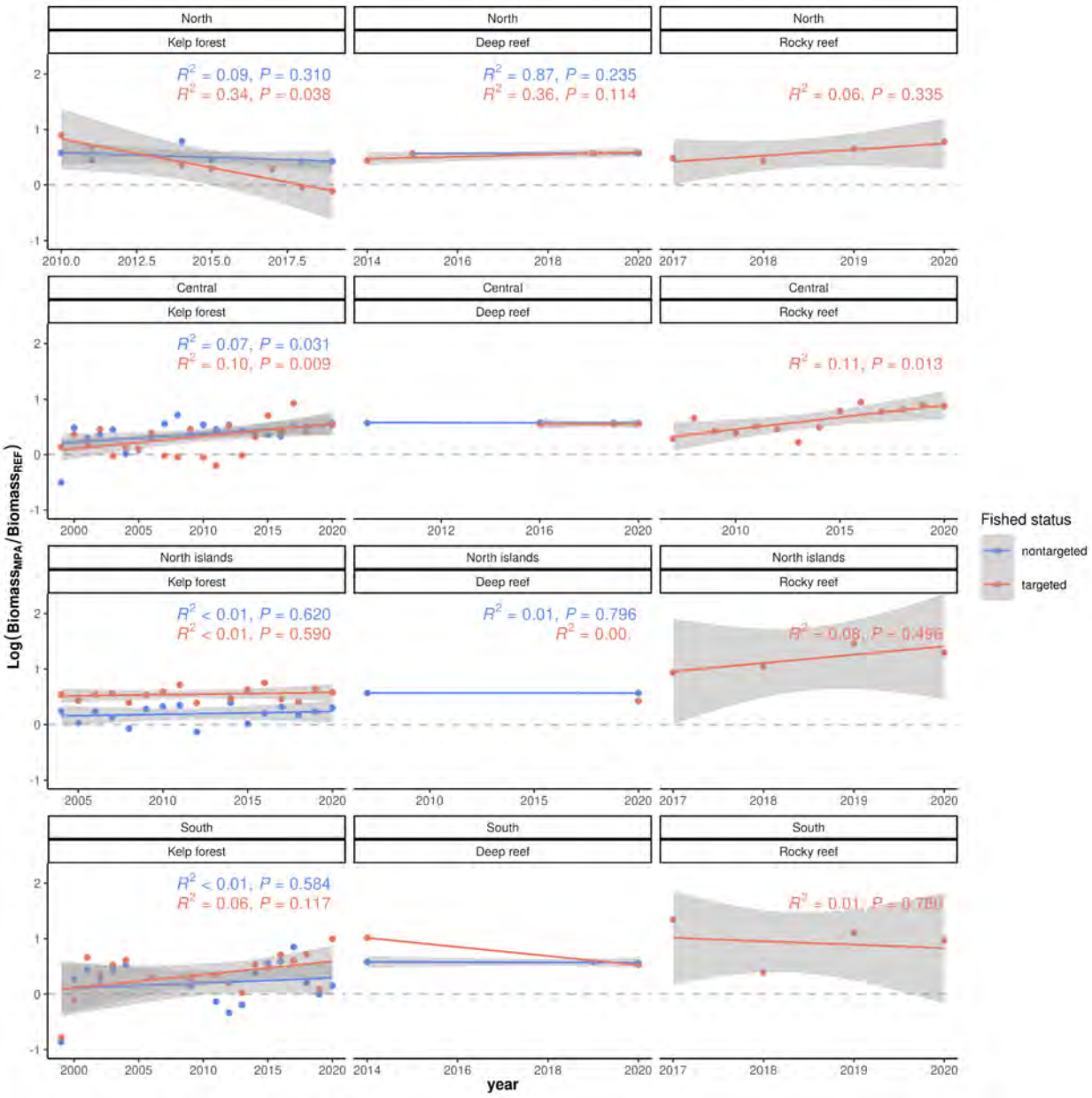


Figure 3 | *Temporal trends in response ratios for targeted and nontargeted fish biomass by monitoring group and region. Each point depicts the response ratio averaged over all MPAs sampled within a given year. Regression lines depict the trends over time for targeted (red) and nontargeted (blue) species with 95% confidence intervals shaded in grey.*

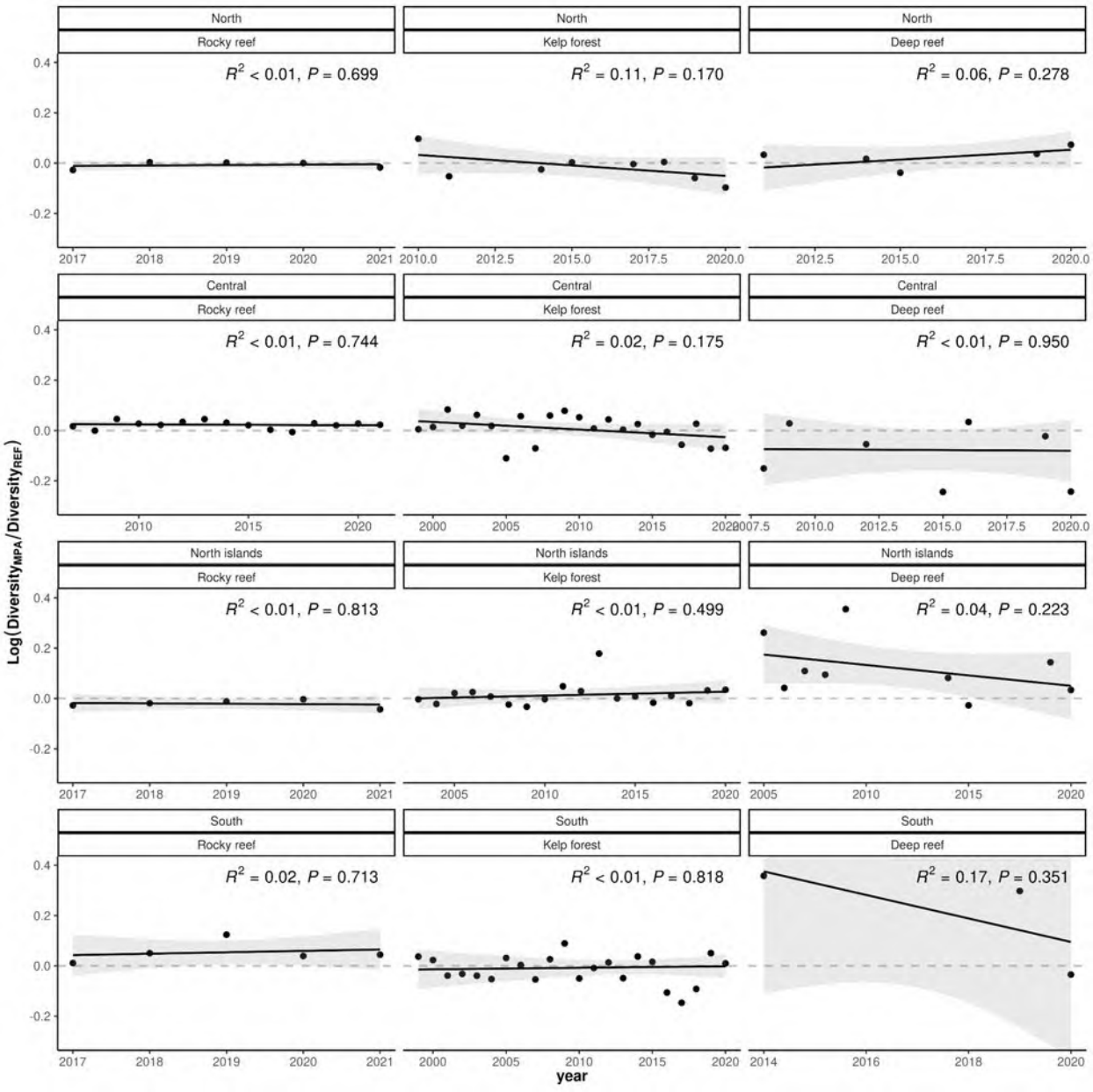


Figure 4 | *All fish diversity response ratios by monitoring group and region. Each point depicts the response ratio averaged over all MPAs sampled within a given year. Also included are regression lines that depict the trends over time with 95% confidence intervals shaded in gray.*

Response to DEWG questions:

DEWG question 1c: Does the difference between MPAs and reference sites in biomass of a focal and/or protected species increase over time?

While we could not look at individual species responses across the disparate habitats, we did find that the response of fish biomass of targeted species increased over time at three out of four regions within kelp forest and rocky reef habitats.

DEWG question 1g: Does the difference between MPAs and reference sites in overall biomass of focal and/or protected species increase over time?

While we could not look at individual species responses across the disparate habitats, we did find that the response of fish biomass of targeted species increased over time at three out of four regions within kelp forest and rocky reef habitats.

DEWG question 1h: Does the difference between MPAs and reference sites in overall biomass of fished species increase over time relative to species that are not fished?

Our findings suggest that MPAs generally have a positive impact on targeted fish biomass and this effect is most pronounced in the South Coast region. However, we did not detect a significant difference in overall fish diversity inside and outside of MPAs.

DEWG question 20a: Has the difference between MPAs and reference areas in the size/age structure of recreationally fished species increased over time?

While we did not look at this exact question, monitoring of fish in rocky reefs through CCFRP specifically looks at recreationally fished species, and we also examined trends for targeted species in the other habitat groups. While we did not look at the size and age structure of these fish, a positive response ratio in biomass, particularly in the South Coast, likely indicates a greater abundance of larger fish in MPAs as compared to reference areas.

DEWG question 2a: Does the difference between MPAs and reference sites in species diversity within any given functional group increase over time?

Results from the meta-analysis on fish diversity response ratios revealed that MPAs were not significantly different from reference sites in any of the regionally pooled results. However, two habitats showed slightly positive regionally-specific responses (deep reef in the north, rocky reef in the central coast). To examine changes in fish diversity over time, we examined the response ratios for three habitats (kelp forest, rocky reef, deep reef) that had sufficient data to examine trends over time. These time series did not reveal significant positive trends in fish diversity over time.

Discussion:

Marine protected areas are often implemented with the goal to protect biodiversity and increase the abundance of marine life (especially for harvested species; Halpern et al. 2010). As such, we evaluated the ecological performance of California's MPA network by examining trends in targeted and nontargeted fish biomass and diversity across multiple habitats, regions, and through time. Our results demonstrate that MPAs have positive effects on targeted species biomass and not on overall fish diversity, but these results are regionally and context-specific. These findings suggest that differences in MPA performance (as measured by fish biomass and diversity) between regions is likely explained by MPA age. However, other physical and biological drivers of performance such as oceanographic processes, connectivity, MPA size, historic fishing pressure, and other processes may not be captured using the regionally aggregated response ratios.

It is well established that regulatory implementation of marine reserves can positively impact the biomass of marine species, particularly those that are harvested (Stobart et al. 2009, Sala and Giakoumi, 2018). Our finding of greater targeted fish biomass across multiple habitats particularly in the South Coast region may be the result of several underlying mechanisms. First, historic pre-implementation fishing pressure is a known driver of MPA performance (Griffiths et al. 2022). Additionally, fishing pressure is often inversely related to MPA distance from port (Nickols et al. 2019). The strong positive response ratio of targeted fish biomass observed in the South Coast region may therefore be due to intense pre-implementation harvest, or because of the proximity of South Coast MPAs to large fishing ports. Second, our assessment of MPA performance as measured by fish biomass may be data limited in some regions. For example, the North Coast region was comparatively less sampled than the South Coast region by most of the long term monitoring groups. MPAs along the north coast are also the youngest in the network, and therefore more sampling through time is required to understand performance. Finally, during the course of long-term monitoring, a major environmental perturbation referred to as a marine heatwave occurred from 2014 through 2016. For many MPAs in the network, the marine heatwave occurred only two years after regulatory implementation. The impacts of the marine heatwave event on fish biomass remain unclear, but trends in biomass over time inside and outside of MPAs may have been impacted by this environmental perturbation.

Regulatory protection generally affects fish assemblages through pathways such as the total number of individuals, the relative abundance of species (proportional representation of each species), and size structure. In addition, as cessation of fishing is the primary management action, the fishes most impacted by fishing prior to MPA implementation are most likely to respond. These expectations are not likely to influence biodiversity. Our findings of higher response ratios for fish biomass and no differences in taxonomic diversity are consistent with other studies that

explored these metrics of MPA performance (Ramirez-Ortiz et al. 2020, Blowes et al. 2020). Overall taxonomic diversity of fishes may not change as a result of regulatory implementation since diversity is estimated based on the number of species and the evenness of their abundance. Additionally, changes in diversity may be more localized or MPA-specific. Therefore, our regionally-aggregated response ratios may not capture individual MPA-level changes in fish diversity. Moreover, other taxonomic diversity indices and evaluations of changes in functional diversity or species richness could provide additional pathways for evaluating MPA performance.

A central challenge in synthesizing MPA performance outcomes across habitats and regions is the integration of performance metrics (biomass, diversity) into a single effect size that is representative of trends through time and space, and across several different habitats. Our meta-analytic framework used to synthesize across habitats and regions produced an integrative evaluation of fish biomass and diversity during the 2019-20 sampling period. However, meta-analyzing the response ratios of individual MPAs through time (rather than the regional average at a single time point) could provide more detailed insight into how performance varies across the entire network, and whether certain MPAs contain features that increase their performance over others. However, this approach requires the integration of individual MPAs consistently sampled by multiple monitoring groups through time, something that did not occur in California.

In order to evaluate MPAs, it is helpful to have clear expectations of how species in a given area will respond to protection. Such expectations include the time between regulatory implementation and an expected performance response (Nickols et al. 2019), and how performance metrics change over time. For example, response ratios are expected to increase until spillover ultimately replenishes adjacent non-MPA areas. If spillover is successful, then the adjacent areas will become more similar to the MPA and response ratios should approach zero. In addition, if fishing pressure inside and outside MPAs prior to implementation was low, one would not expect implementation of an MPA to lead to changes within the MPA site (Nickols et al. 2019). Our results showed an overall positive trend in targeted fish biomass response ratios, but the trajectory of these responses may change over time. Additionally, changes in fishing pressure adjacent to MPAs can affect performance outcomes and response ratio trends over time.

Overall, the results presented in this chapter reveal the holistic response of fish biomass and diversity to regulatory implementation. Importantly, these analyses are aggregated across all MPAs and reference sites and therefore they do not evaluate the performance of individual MPAs over time. As such, synthesizing MPA performance through time requires extensive monitoring, and monitoring should be synchronized to include multiple habitat monitoring groups at several of the same MPA locations and sampling years to ensure data compatibility in future integrative analyses.

Chapter Two: Habitat

Introduction:

Two overarching goals of the MPA Network are "To protect the natural diversity and abundance of marine life, and the structure, function, and integrity of marine ecosystems," and "To protect marine natural heritage, including protection of representative and unique marine life habitats in California waters for their intrinsic value." Achievement of these goals requires that the network of MPAs capture the diversity of California's marine habitats. MPA selection during the MLPA planning process included science-based design criteria such as size, shape, spacing, and habitat representation (Saarman et al. 2013). Habitat is a fundamental factor for evaluating ecological performance in MPAs, and MPAs with diversity of habitat types and depths facilitate increased connectivity among habitats (Carr et al. 2017, Hopkins et al. 2020). As such, this chapter aims to evaluate the proportional representation of multiple habitat types across the MPA network.

We examined the habitat composition within marine protected areas across the Network using estimates of the amount of major habitats present within the boundaries of each MPA. Major habitats include both nearshore/offshore (0-3000 m depth) and onshore (shoreline) characteristics identified as important during the MLPA planning process (**Table 2**). We used non-metric multidimensional scaling (NMDS) to explore the variation in habitat characteristics among MPAs and found significant differences among regions.

The MPA Habitat chapter of this report aims to address the following MLPA goals:

- MLPA Goal 4: Protect marine natural heritage, including protection of representative and unique marine life habitats in CA waters for their intrinsic value.

Table 2 | *Metadata for habitats included in analyses.*

Categories	Habitat Type	Data Information
Nearshore and Offshore Estimated by area extent, km^2	Hard substrate (0-30m)	High resolution (2m to 10m) multibeam mapping, mostly from the California Seafloor Mapping Project. Area totals calculated from a vector file. Depth information from the high resolution bathymetry data where available. Small mapping gaps filled in through interpolation and added to the total.
	Hard substrate (30-100m)	
	Hard substrate (100-200m)	
	Hard substrate (200-3000m)	
	Soft substrate (0-30m)	
	Soft substrate (30-100m)	
	Soft substrate (100-200m)	
	Soft substrate (200-3000m)	
	Kelp canopy (0-30m)	Data from CDFW kelp overflights (14 years; '89, '99, '02-'06, '08-'10, '13-'16), composite of all available data for maximum canopy extent.(Saarman 2020, unpublished). Captures both giant and bull kelp and covers the whole coast of California.
Onshore Estimated by linear extent, km	Coastal marsh	Data from NOAA ESI shoreline file. Used 2010 update from southern California. Source data has up to 3 classifications for each coastal segment (landward, seaward1, seaward2), length totals reflect all of these classifications, but do not double-count (for example landward is gravel beach, seaward1 is fine-grained beach, this segment counted just once as beach).
	Tidal flats	
	Hardened/armored shoreline	
	Sandy beach	
	Rocky intertidal	

Methods and Analytical Approaches:

To compare habitat composition among MPAs of different sizes, we calculated the amount of each habitat relative to the total amount of habitat across the different habitat types within each MPA. We calculated habitat composition for onshore (e.g., sandy beach, rocky intertidal, estuary) and nearshore/offshore (e.g., soft bottom, hard substrate, kelp canopy) habitats separately because the data for shoreline habitats are reported in linear kilometers (measured along the shoreline) and nearshore/offshore habitats are reported in square kilometers (measured within the MPA area).

We also examined the variation in habitat characteristics among MPAs using non-metric multidimensional scaling (NMDS), using the vegan package in R. We standardized data to the maximum value to allow for comparison of habitats of different scales and unit measure (e.g. km vs. km^2). We conducted two separate NMDS ordinations. To examine the differences in habitat composition across the entire network, we first conducted an NMDS ordination for all MPAs. We used a permanova to test for differences in habitat composition of estuarine, coastal, and offshore MPAs. We define estuarine MPAs as those with any onshore habitats, but no nearshore/offshore habitats. Coastal MPAs contain some amount of both onshore and nearshore/offshore habitats. Offshore MPAs are those with no shoreline, and therefore only consist of nearshore/offshore habitats. To examine regional differences in habitat composition, we conducted a second ordination with only the coastal MPAs, as these MPAs had the potential to contain all of our focal onshore and offshore habitats. We then tested for differences among the four regions identified in many ecological studies as having different ecological communities and environmental conditions (North, Central, Northern Channel Islands, South) using a permanova and subsequent pairwise comparisons.

Data Summaries, Analyses, Figures, Tables, and Interpretation:

California's MPAs vary greatly in their habitat composition for both onshore (**Figure 5**) and nearshore/offshore habitats (**Figure 6**). NMDS ordinations illustrate that these differences can be partly explained by the situational context of the MPA (**Figure 7**). Estuarine MPAs are characterized by substantial onshore habitat, particularly coastal marsh and tidal flats, but have no nearshore/offshore habitat and generally lower relative amounts of rocky intertidal and sandy beach habitats. Coastal MPAs contain both onshore and nearshore/offshore habitats, but relatively lower amounts of coastal marsh and tidal flats. Offshore MPAs, which do not have a shoreline, are composed entirely of nearshore/offshore habitats but no onshore habitats, and often have relatively higher amounts of deeper habitat compared to coastal and estuarine MPAs. These differences in habitat composition are significant across all pairwise comparisons ($p = 0.003$).

To further examine differences among regions apart from these differences in major habitat context, we compared the relative differences in habitat composition for only the coastal MPAs (**Figure 8**). Pairwise comparisons revealed that all regions are significantly different from each other (**Table 3**). Across the regions, Central Coast coastal MPAs have greater relative abundance of hard substrata and kelp habitat, whereas North Coast coastal MPAs have more comparable relative abundance of hard and soft substrates, and South Coast and Northern Channel Islands MPAs have a greater relative abundance of shallow and deeper soft substrates (**Figure 6** and **Figure 8**). The North, Central, and Northern Channel Islands coastal MPAs also have greater relative abundances of rocky intertidal habitat, whereas South coastal MPAs have greater relative amounts of sandy beaches (**Figure 5** and **Figure 8**). The Northern Channel Islands coastal MPAs have the highest amount of variation in their habitat composition compared to any of the other regions (**Figure 8**). We also note trends in relative habitat composition depending on the size of the MPA: within each region, larger MPAs tend to contain greater relative amounts of soft bottom, deeper habitats (**Figure 6**).

Table 3 | *Results from permanova pairwise comparisons for NMDS of all coastal MPAs.*

Pair	F	R^2	*p* value
North vs. Central	4.5833	0.0943	0.001
North vs. South	3.4230	0.0641	0.002
North vs. N. Channel Islands	3.2633	0.0876	0.003
Central vs. South	6.0245	0.1309	0.001
Central vs. N. Channel Islands	3.1866	0.1172	0.009
South vs. N. Channel Islands	3.5289	0.1052	0.005

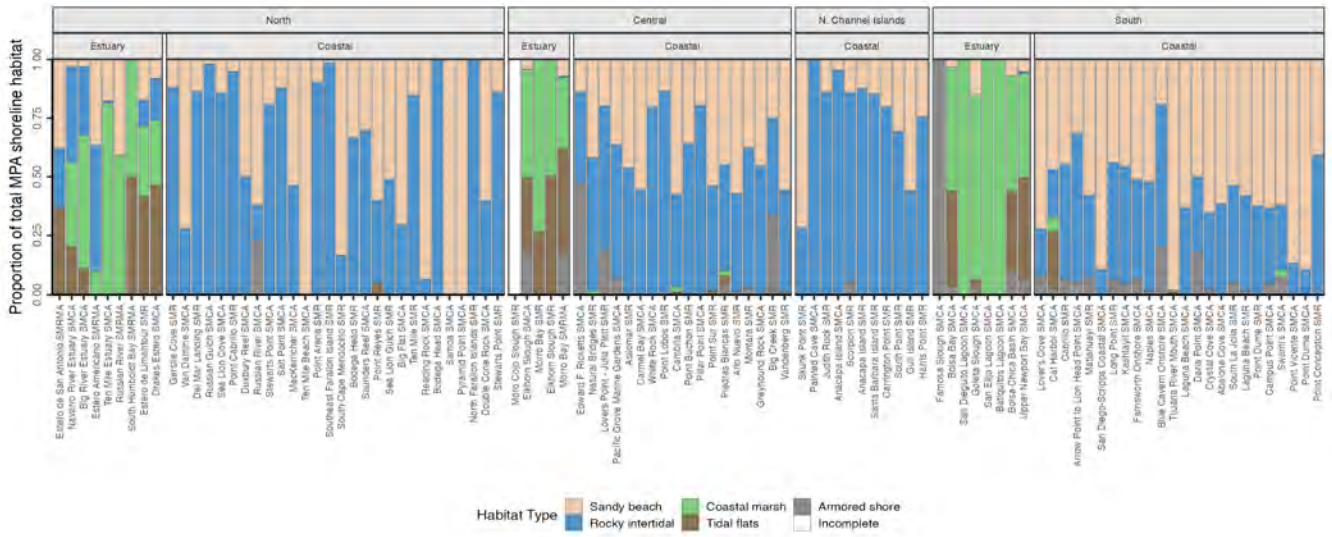


Figure 5 | *Shoreline habitat composition of estuary and coastal MPAs, calculated relative to the total amount of shoreline habitat (km). Estuary MPAs only contain shoreline habitat, by definition. Coastal MPAs are adjacent to a shoreline and also contain offshore habitats. Offshore MPAs are not shown as they do not have a shoreline, by definition. MPAs within each region and type are ordered by increasing size.*

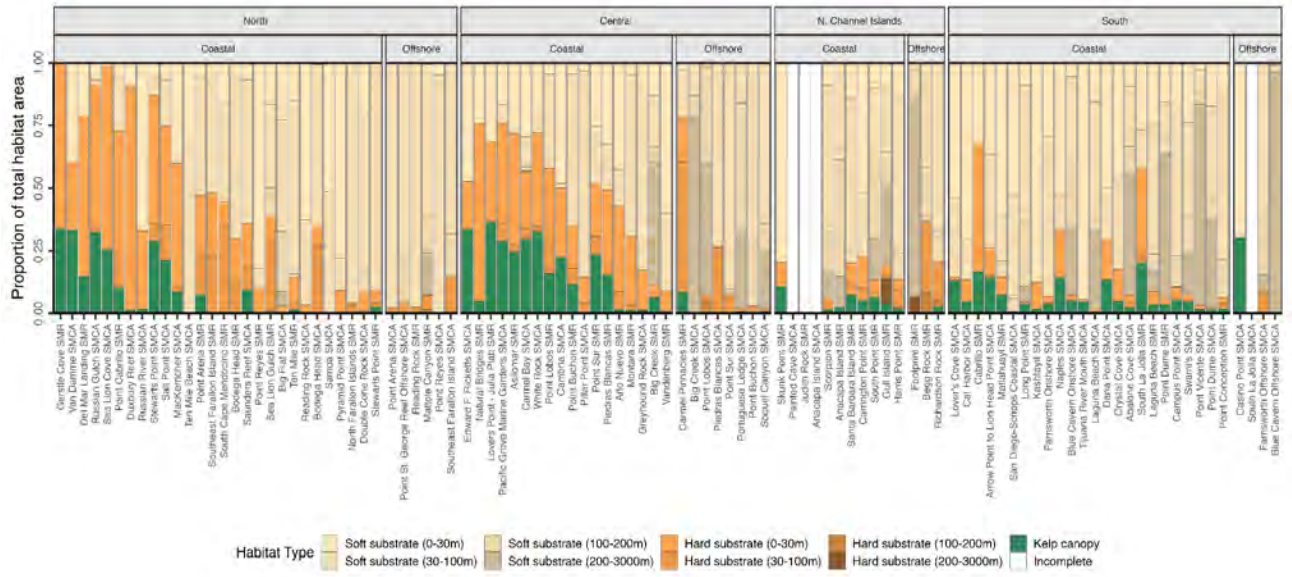


Figure 6 | *Nearshore/offshore habitat composition of coastal and offshore MPAs, calculated relative to the total amount of nearshore/offshore habitat within that MPA (km^2). Coastal MPAs are adjacent to a shoreline and also contain offshore habitats, whereas offshore MPAs have no shoreline and therefore do not contain onshore habitats. Estuary MPAs are not shown because they do not contain any offshore habitat, by definition. MPAs within each region and type are ordered by increasing size.*

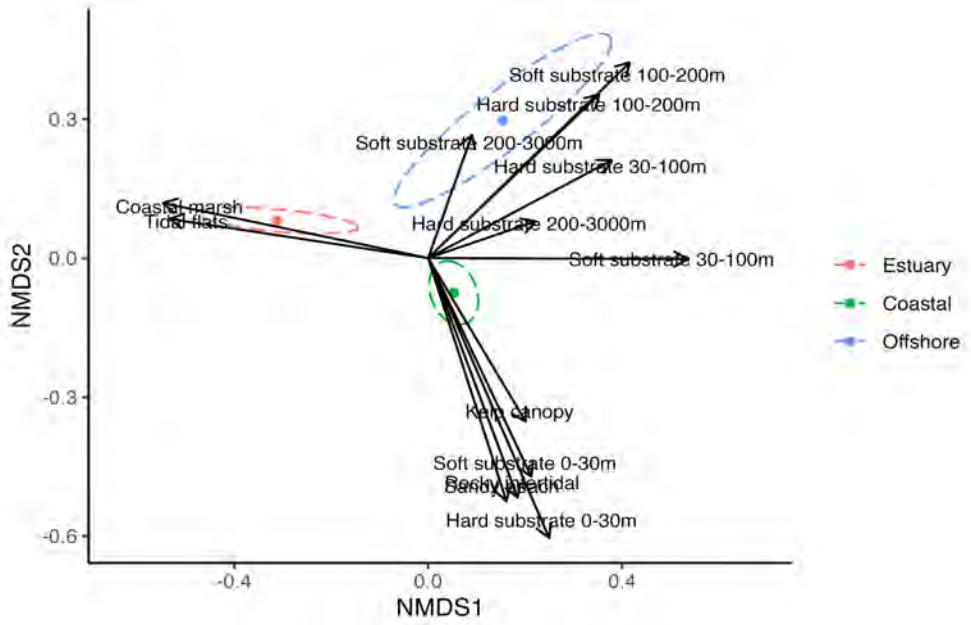


Figure 7 | *Relative differences in MPA habitat composition among estuarine, coastal, and offshore MPAs, from non-metric multidimensional scaling (NMDS) ordination of all MPAs. Dashed lines represent 95% confidence ellipses calculated around the mean position for each region. Vectors are displayed for each habitat type included in the ordination, and their length corresponds to their relative contribution in describing the variation among MPAs.*

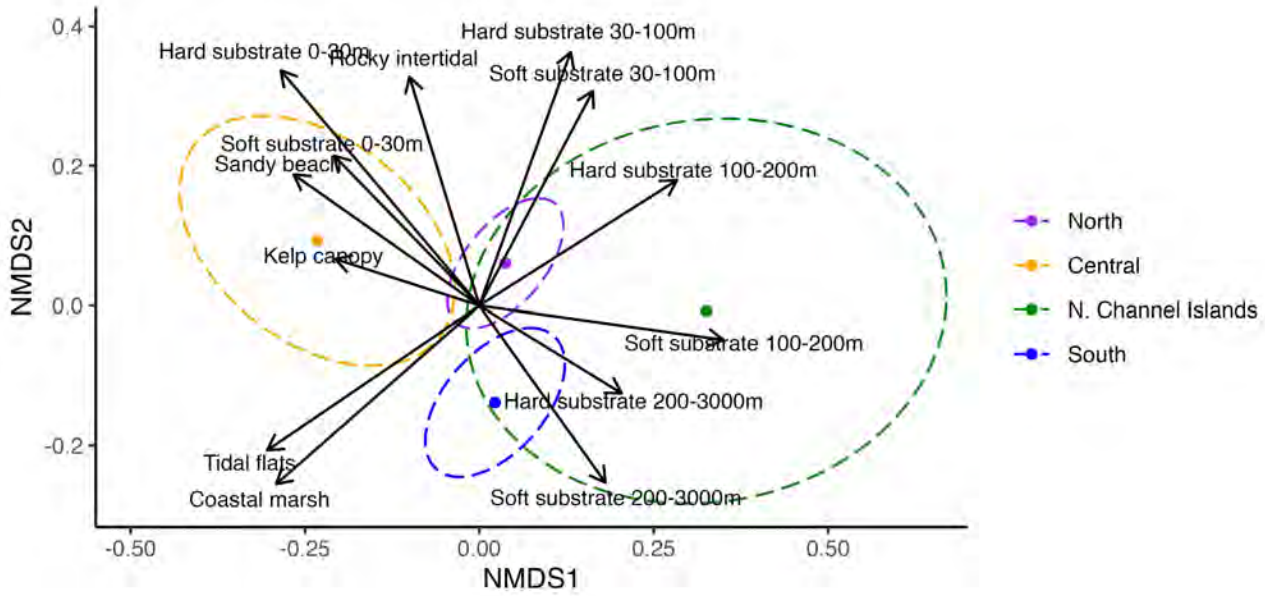


Figure 8 | *Relative differences in MPA habitat composition among planning regions from non-metric multidimensional scaling (NMDS) ordination of only coastal MPAs. Colors represent different MPA regions. Dashed lines represent 95% confidence ellipses calculated around the mean position for each region. Vectors are displayed for each habitat type included in the ordination, and their length corresponds to their relative contribution in describing the variation among MPAs.*

Response to DEWG questions:

DEWG question 21: Have unique habitats been adequately represented and protected by the current distribution and designation of MPAs?

The current distribution and designation of California's MPA network protects a variety of habitats distributed across California and represents regional differences in habitat composition.

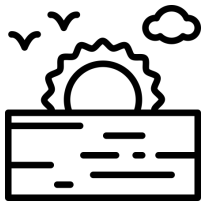
Discussion:

California's marine protected area network protects a wide range of habitats and associated ecological communities (Young and Carr 2015). California's investment in statewide mapping of coastal ecosystems represents one of the most comprehensive and spatially extensive efforts to characterize nearshore habitats. Our results indicate that habitat composition varies across the MPA network, with significant differences among MPA locations (estuary, coastal, offshore) and regions.

One of the key network design considerations during the MLPA planning process was the representation and replication of multiple habitat types within regions and across the MPA network. Interestingly, the proportional representation of habitats (sandy beach, rocky intertidal, coastal marsh, tidal flats, hardened/armored shoreline) was different between regions, but this finding is consistent with the seascape and unique geographical features of each region. For example, our results showed that habitat representation varies regionally, with the South Coast containing proportionally more sandy beach and less rocky intertidal than other regions to the north. This finding is consistent with the natural gradient of habitats along the California coastline.

With this extensive habitat data in hand, and knowing that California's unique habitats are represented in the network, the State is poised to address further questions regarding linkages between habitat diversity and species diversity as well as to assess whether culturally important habitats are adequately protected.

Chapter Three: Climate Resilience



Introduction:

Along the California coastline, marine populations, communities, and ecosystems are experiencing pronounced changes resulting from increases in the frequency of marine heatwaves, rising sea levels, lowering pH conditions, and other climate-driven impacts (Jacox et al. 2019, Rogers-Bennet and Catton 2019). A fundamental goal for the 2022 decadal review of California's MPA network is to determine the extent to which the network provides resilience to climate change. Recently, the Ocean Science Trust convened an expert working group to explore how and whether California's MPAs provide climate resilience (Hofmann et al. 2021). Building on the report generated by this working group, we used a cross-ecosystem synthetic approach to understand the capacity for California's MPAs as a networked system to provide climate resilience.

During the course of California's MPA monitoring, a major climate event referred to as a "marine heatwave (MHW)" occurred along the California coastline. The MHW was the consequence of two environmental anomalies: a 2014-2016 warming event known as "the Blob," and a major El Niño event that occurred in 2015-2016 (Bond et al. 2015, Di Lorenzo and Mantua 2016, Gentemann et al. 2017). This pronounced environmental perturbation provided a timely opportunity to explore community responses and MPA performance across ecosystems, since these MHWs are predicted to become more persistent and frequent pressures to marine ecosystems in the future (Joh and Di Lorenzo 2017). Indeed, several of the MPA monitoring technical reports suggested community shifts inside and outside of MPAs following the MHW, and there was some evidence that for some habitats, more communities appeared on a trajectory to return to a pre-perturbed state in MPAs than in reference sites (Carr et al. 2021; Raimondi et al. 2021). However, other studies showed limited changes in response to the heatwave (Reed et al. 2016 for abundance of kelp), strong spatial variation in impact and recovery from heatwaves (Cavanaugh et al. 2019 for kelp) or dramatic changes in community structure but no mitigation of these changes inside MPAs relative to fished areas (Freedman et al. 2018 for fishes). Increasing understanding of how MPAs provide resilience in response to marine heatwaves and other anomalous oceanographic changes will support planning and adaptive management for MPAs given future climate scenarios. As such, the core questions and analytical approaches were centered around

investigating whether California MPAs as a networked system provide resilience to environmental disturbances and climate change.

The MPA Climate Resilience chapter of this report aims to address the following MLPA goals:

- MLPA Goal 1: To protect the natural diversity and abundance of marine life, and the structure, function, and integrity of marine ecosystems.
- MLPA Goal 2: To help sustain, conserve, and protect marine life populations, including those of economic value, and rebuild those that are depleted.

Methods and Analytical Approaches:

Here we used a taxonomic-based approach to explore whether and how communities responded to the 2014-16 MHW event. We focused our analyses on MPAs located within the Central Coast region of California because this area is the most comprehensively sampled region across multiple habitats and time, particularly during the occurrence of the MHW event. Using the same approach as Chapter 1, we focused our analyses on sites inside and outside of SMRs and *de facto* SMRs (evaluated for each individual habitat based on regulations; hereafter 'SMRs'). A SMCA was designated as a *de facto* SMR (no-take reserve) for a particular habitat if the allowed take in the SMCA was unlikely to affect that particular habitat (see **Table S1** for list of *de facto* SMRs).

Model construction

We explored oceanographic conditions before, during, and after the marine heatwave at all Central Coast long-term monitoring sites to evaluate whether changes in the environment coincided with shifts in community structure. For these environmental analyses, we used multiscale ultra-high resolution sea surface temperature (SST) data calculated daily at a 1 km resolution (Chin et al. 2013) and two upwelling indices calculated at 1 degree latitude bins (Coastal Upwelling Transport Index, CUTI; Biologically Effective Upwelling Transport Index, BEUTI; Jacox et al. 2018). CUTI is an index describing the amount of vertical flux in the water column (i.e., upwelling and downwelling) while BEUTI indicates the amount of nitrate being vertically transported (Jacox et al. 2018). We also explored changes in the Multivariate Oceanographic Climate Index (MOCI), which is a long term (30 year) indicator of several oceanographic and atmospheric conditions (García-Reyes and Sydeman 2017) calculated at the regional level.

To process the environmental data, we first calculated the monthly mean SST, BEUTI, and CUTI, and quarterly MOCI values at each long term monitoring site. We then calculated monthly anomalies for SST, BEUTI, and CUTI as the difference between the observed monthly mean and the baseline average (long term average for each month, 1988-2012 for BEUTI and CUTI, and 2002-2012 for SST). For MOCI, we calculated the annual mean at each site as a standard index.

Finally, to visualize and pair the environmental data with the long-term biological monitoring data, we calculated the mean anomalies across all calendar months for each year (**Figure 9**).

We evaluated changes in community structure (**Table S2**) resulting from the marine heatwave event using a multidimensional approach. This analysis used two types of monitoring data: counts of species, and the proportional cover of invertebrates and algae. We used data from rocky reef (fish only), deep reef (fish only), rocky intertidal (invertebrates and algae combined) and three communities from the kelp forest monitoring (fish; sessile invertebrates and algae; and kelp and mobile invertebrates). First, we visualized changes in community structure before (2010-2013), during (2014-2016), and after (2017-2020) the heatwave using nonparametric multidimensional scaling (NMDS) plots. NMDS is a visual tool that displays the structure of ecological communities based on the abundance (counts or cover) of observed species. All NMDS plots were ultimately distilled using centroids to represent community structure. These centroids are representative of all MPAs or reference sites before, during, and after the marine heatwave. Finally, to determine whether observed shifts in community structure were associated with changes in oceanographic conditions, we overlaid the environmental variables (SST, BEUTI, CUTI, MOCI) as vectors on the NMDS plots.

To explore the magnitude of community change across monitoring groups, we examined the distance of shifts in community structure across all sampling sites, and with respect to regulatory protection status (inside and outside SMRs). For this analysis, we calculated the distance between the pre- and post-heatwave centroids (inside and outside of SMRs) using a Bray-Curtis dissimilarity matrix. This measure of distance is a way to examine the relative change of communities inside and outside of SMRs. The expectation is that if SMRs provide resilience to the marine heatwave event, then the change in distance in SMRs should be less than the change in distance in reference sites (suggesting that communities inside SMRs did not change as much as reference sites).

To examine the synthetic result of community change across monitoring groups, we measured the vector distance between the pre- and post-heatwave centroids of community structure. This distance vector is a relative measure of the degree of community change and is constrained between 0 and 1 (Bray-Curtis dissimilarity). Therefore, higher values indicate greater community change (greater distance between centroids). We also calculated the pooled standard deviation for each vector distance defined as:

$$S = \sqrt{\frac{(n^{pre} - 1)(sd^{pre})^2 + (n^{post} - 1)(sd^{post})^2}{n^{pre} + n^{post} - 2}}$$

Where n^{post} and n^{pre} are the sample sizes for each sampling period (number of MPAs and reference sites surveyed), and sd^{post} and sd^{pre} are the standard deviations.

Finally, to explore which species best explain community differences between the pre- and post-heatwave periods, we used a similarity percentages analysis (SIMPER). SIMPER breaks down the contribution of individual species to observed community structure differences between the pre- and post-heatwave periods. Importantly, SIMPER does not provide an estimate of changes in the absolute abundance of species. Instead, it provides an approximation of the proportional contribution of individual species to the observed community structure differences. We restricted the output of SIMPER to the species that best explain the top 80 percent contribution to dissimilarity. Beyond 80 percent, the individual contribution of species dramatically decreases (i.e., several species have low contribution).

Data Summaries, Analyses, Figures, Tables, and Interpretation:

Ecological community structure dramatically shifted across all habitats as a result of the marine heatwave and these shifts coincided with oceanographic changes associated with the marine heatwave event (**Figures 10 and 11**). The NMDS ordinations revealed that community structure was significantly different between the pre- and post-heatwave periods in four (rocky reef, kelp forest fish, kelp forest inverts and algae, deep reef fish) out five habitat monitoring groups (**Figure 10**). The pre-heatwave communities were strongly correlated with higher upwelling (measured by the BEUTI and CUTI indices) and lower SST, but the post-heatwave communities were defined by higher SST and MOCI.

Although all ecological communities shifted in response to the marine heatwave, the effect of regulatory protection on ecological resilience was more nuanced, and the magnitude of change varied by monitoring group (**Figure 11**). The community defined by kelp forest invertebrates and algae experienced the largest relative change in community structure. Fish community structure for kelp forest, deep reef, and rocky reef also substantially changed. Overall, all ecological communities responded similarly to the marine heatwave, regardless of regulatory protection status (inside or outside of MPAs).

The SIMPER analysis revealed several species that explained differences between the pre- and post-heatwave periods. Among the three habitat groups that record fish species (deep reef, rocky reef, kelp forest), blue rockfish (*Sebastes mystinus*) were positively correlated with the post-heatwave period (**Table 4**). Blue rockfish are the most abundant fish species of those that are found across the three habitat groups. The SIMPER analysis also revealed an uptick in the abundance of purple sea urchins and a decline in macroalgae (**Table 4**), which is consistent with coastwide sea urchin increases that coincided with the MHW event (McPherson et al. 2021, Smith and Tinker 2022).

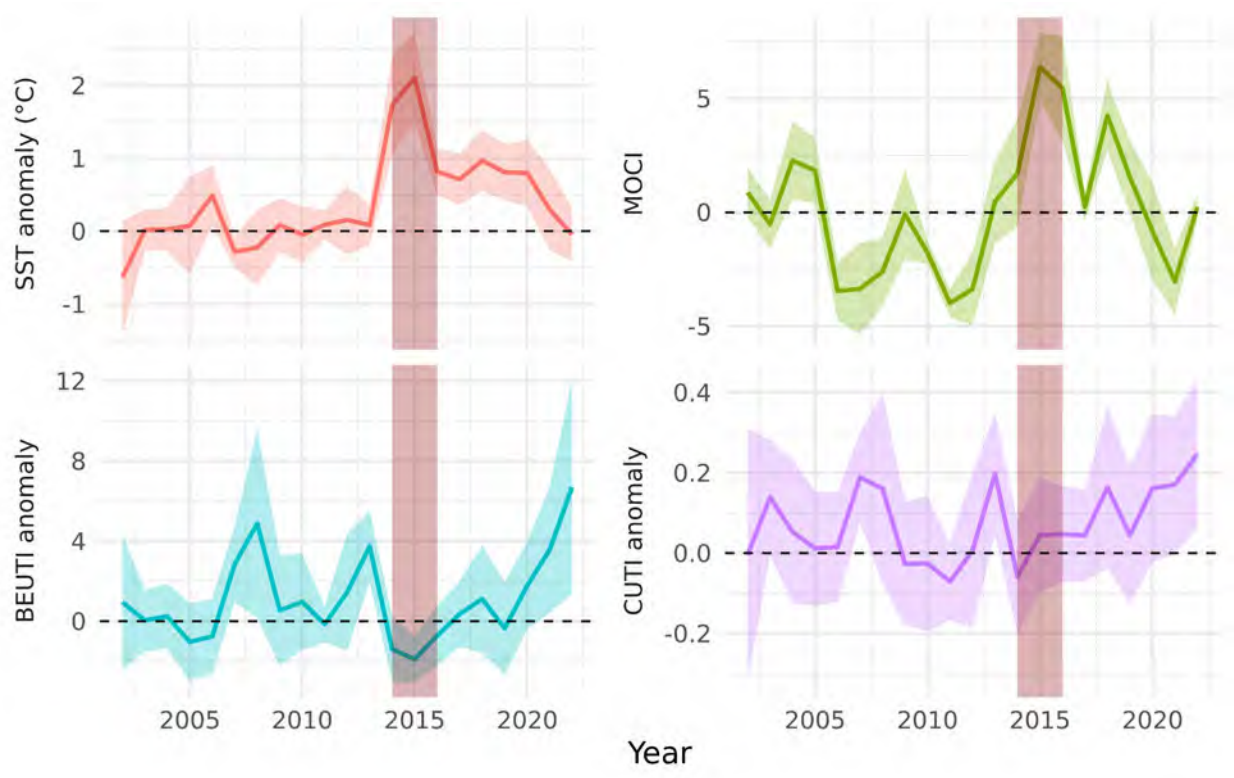


Figure 9 | *Oceanographic conditions from 2000-2022. Each panel depicts a single indicator (annual monthly mean Sea Surface Temperature, SST; Multivariate Oceanographic Climate Index, MOCI; Coastal Upwelling Transport Index, CUTI; Biologically Effective Upwelling Index, BEUTI) with annual trends (lines). Error bars depict 95% confidence intervals surrounding the annual means. Also depicted is the approximate duration of the marine heatwave event (2014-16) shaded in red. The before heatwave time period used in the community analysis was 2010-2013 and the after time period was 2017-2020.*

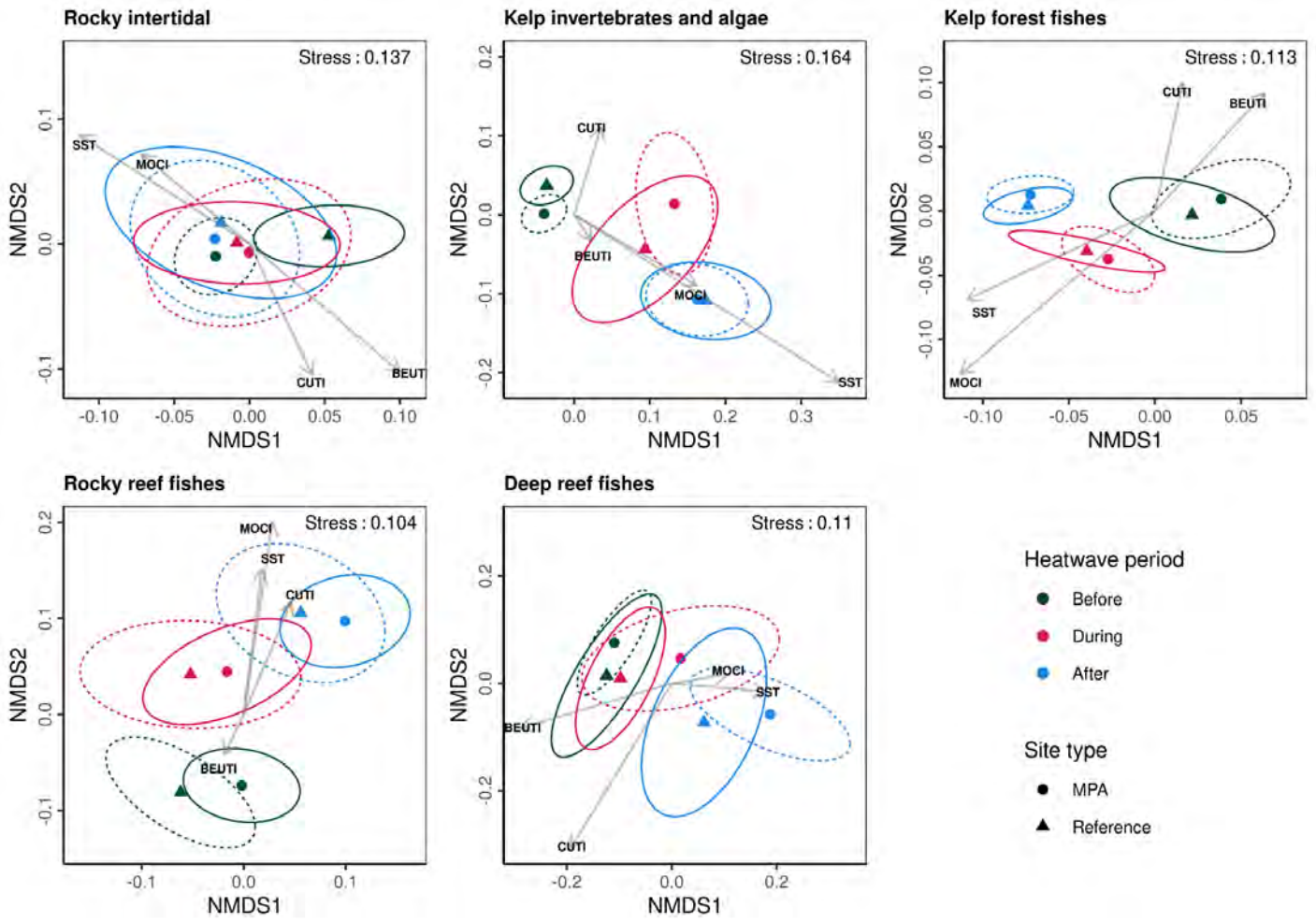


Figure 10 | *Community structure before (green), during (red), and after (blue) the marine heatwave event inside of SMRs (circles) and reference sites (triangles) in the Central Coast. Each panel represents a different monitoring program or subprogram. Each point depicts the centroid position, which is representative of all sites (SMRs or reference), with 95% confidence ellipses. Also included are vectors for each environmental indicator. The trajectory of each vector reflects its correlation with community structure. Therefore, indicators that are highly correlated with changes in community structure are aligned with the centroids (points).*

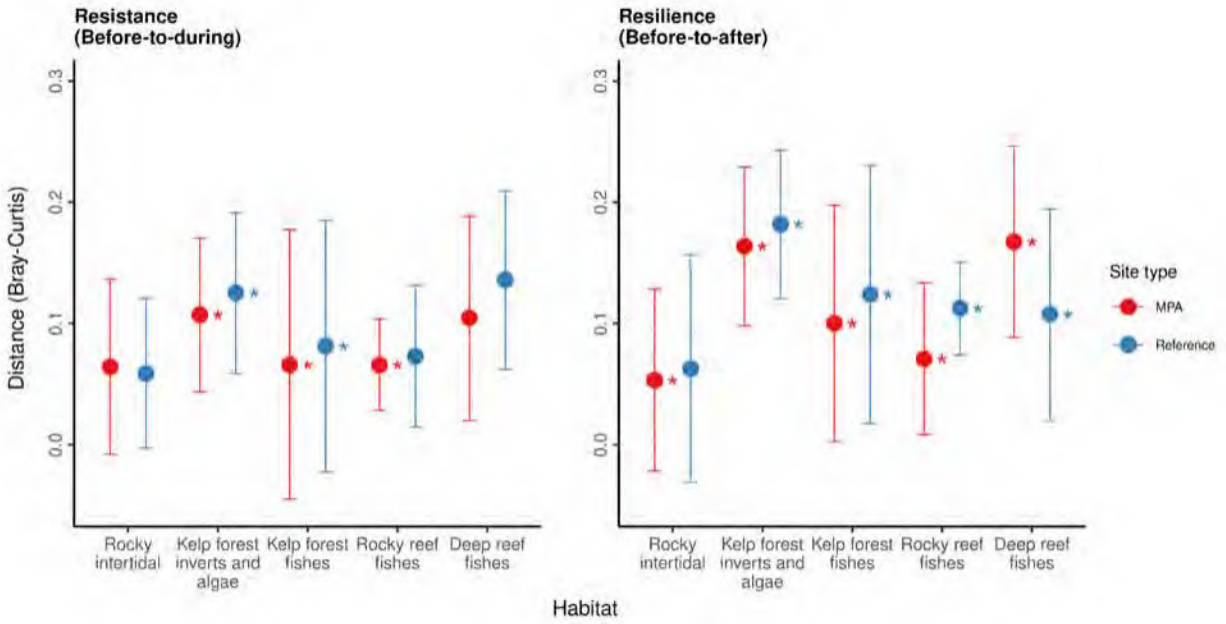


Figure 11 | *Community resistance (before-to-during) and resilience (before-to-after) as measured by distance between centroids for each habitat. Each point depicts the distance between the pre-heatwave centroid (before) and the during-heatwave or the post-heatwave centroid outside and inside of MPAs. Error bars depict the pooled standard deviation between centroids and the asterisks denote significant difference in community structure between heatwave periods, as derived from a pairwise permutational analysis of variance test.*

Table 4 | *Individual and cumulative contribution (top 80%) of species to before vs. after marine heatwave community structure. Individual contribution represents the proportional contribution of a given species to observed community structure differences between the pre- and post-heatwave periods for a single monitoring group. The cumulative contribution represents the total sum of each added species to observed community structure differences for the top 80% of species (species above the 80% margin have very little individual contribution). These values do not reflect changes in absolute abundance. Instead, they represent the proportional contribution of species to pre- vs. post-heatwave community structure.*

Monitoring Group	Community Type	Species	Individual Contribution	Cumulative Contribution
Rocky reef	Fish	Blue Rockfish	0.58	0.58
		Gopher Rockfish	0.12	0.70
		Black Rockfish	0.10	0.80
Deep Reef	Fish	Blue Rockfish	0.21	0.21
		Halfbanded Rockfish	0.13	0.34
		Rosy Rockfish	0.12	0.46
		Painted Greenling	0.07	0.53
		Pygmy Rockfish	0.07	0.59
		Vermilion Rockfish	0.04	0.64
		Pink Surfperch	0.04	0.67
		Gopher Rockfish	0.03	0.71
		Squarespot Rockfish	0.03	0.74
		Senorita	0.03	0.77
		Pile Surfperch	0.03	0.79

Kelp Forest	Fish	Blue Rockfish	0.49	0.49
		Senorita	0.13	0.62
		Olive/Yellowtail Rockfish	0.07	0.69
		Kelp Surfperch	0.04	0.74
		Kelp Rockfish	0.03	0.77
		Black Rockfish	0.03	0.80
	Sessile Invertebrates and Algae	Crustose Coralline Algae	0.09	0.09
		Branching Red Algae (Flat Blade)	0.07	0.16
		Erect Articulated Coralline Algae	0.05	0.21
		Diopatra/ Chaetopterus Spp	0.05	0.26
		Encrusting Red Algae	0.05	0.31
		Barnacle	0.04	0.35
		Red Algae (Leaf-like)	0.04	0.39
		Acidic Seaweed	0.04	0.43
		Colonial Sand Tube Worm	0.04	0.46
		Diatom Layer	0.03	0.49
		Red Algae (Cylindrical Branches)	0.03	0.52
		Red Filamentous Turf	0.03	0.55
		Surfgrass	0.03	0.58

		Strawberry Anemone	0.03	0.60
		Dictyoneurum	0.03	0.63
		Chain-Bladder Kelp Adult	0.03	0.65
		Dodecaceria	0.03	0.68
		Red Algae (Lacy Branching)	0.03	0.70
		Bryozoan	0.02	0.73
		Cup Coral	0.02	0.75
		Tube Snail, Scaled Worm Shell	0.02	0.77
		Tunicate Colonial Compound Social	0.02	0.80
	Kelp and Mobile Invertebrates	Purple Urchin Adult	0.62	0.62
		Pterygophora	0.08	0.70
		Bat Star	0.05	0.75
Rocky Intertidal	Invertebrates and Algae	Ulva Spp; Kornmannia Spp; Monostroma Spp	0.30	0.30
		Mytilus californianus	0.12	0.41
		Phyllospadix Spp	0.09	0.51
		Chthamalus dalli; Fissus; Balanus glandula	0.08	0.59
		Endocladia muricata	0.08	0.66
		Silvetia compressa	0.07	0.73
		Mastocarpus Spp	0.06	0.78

Response to DEWG questions:

DEWG question 5a: Does the nature of recovery of natural communities from disturbance events differ in MPAs relative to outside reference sites?

Our findings suggest that ecological communities in three (rocky reef, kelp forest fishes, kelp forest invertebrates and algae) out of five habitat monitoring groups in Central California were significantly impacted by the marine heatwave event. Community structure in these three habitats rapidly changed beginning in 2014 during the onset of the marine heatwave and persisted as a fundamentally different state through 2020 (the last year of data included in our analyses). Therefore, because these communities did not return to their pre-heatwave community structure, the degree of recovery in MPAs relative to outside reference sites cannot be assessed. However, the degree of change was similar inside and outside of MPAs, and changes in community structure were generally synchronous regardless of regulatory protection.

DEWG question 5b: Does the timing of recovery of natural communities from disturbance events differ in MPAs relative to outside reference sites?

To date, there was not a difference in community change between inside and outside MPAs. However, these areas are likely not 'recovered' from the MHW. Continued monitoring is needed to evaluate the timing of recovery inside and outside of MPAs.

DEWG question 5e: Do MPAs contribute to the recovery of impacted ecosystems?

As in the above question, to date there was not a difference in community change between inside and outside MPAs. However, these areas are likely not 'recovered' from the MHW. Continued monitoring is needed to evaluate the timing of recovery inside and outside of MPAs.

Discussion:

Climate change is increasingly impacting the structure and functioning of marine communities, including marine protected areas and networks. As such, adaptation strategies and adaptive management for MPA design are fundamental to conservation frameworks (Wilson et al. 2020). The 2014-16 marine heatwave event that occurred during MPA monitoring in California provided

a unique opportunity to track ecological community responses inside and outside of marine protected areas, and to evaluate the degree to which MPAs confer resistance and resilience to climate perturbations. Our findings suggest that the marine heatwave had widespread impacts on community structure across ecosystems along the Central Coast of California, and that MPAs did not confer strong ecological resilience at either the habitat or synthetic level (i.e., across all ecosystems). However, climate resilience resulting from MPA implementation may be more habitat-specific. Therefore, management for climate change should be coordinated across the entire MPA network with habitat-specific indicators. These results highlight the ecosystem-wide consequences of acute environmental perturbations. It is also important to consider that habitats are likely still recovering from the heatwave and it is possible that more time needs to pass before recovery and resilience can be adequately assessed.

Increasing our understanding of the pathways through which marine heatwave events restructure ecological communities is central to developing adaptive management solutions. For example, our study used a taxonomic (i.e, species) based approach to evaluate changes in community structure, but functional diversity may also be impacted by warming events, and should also be explored. Prolonged warming events may differentially impact groups and guilds of species with similar functional traits (Harvey et al. 2021).

Although the MHW event was not limited to the Central Coast, it was the only region with adequate data across habitats to perform the synthetic analysis we present here. Therefore we cannot assess the differential impacts of warming events across the regions within the MPA network for multiple habitats, although individual habitat groups could make regional comparisons of MHW impacts. In order to understand the ability of the MPA network to resist and recover from future MHW events, it is critical to have sufficient monitoring across multiple habitats and regions. Because pre-perturbation data is necessary for comparatively evaluating ecological responses, consistent monitoring will be required to capture the effect of marine heatwave events. Although the timing of marine heatwaves is unpredictable, mounting evidence suggests that the frequency and magnitude of abrupt warming events are expected to increase (Frölicher et al. 2018; Holbrook et al 2020).

Finally, climate change threatens to inhibit the intended performance outcomes of marine protected areas. As such, additional tools and strategies are needed, in conjunction with regulatory protection to plan for and mitigate the consequences of marine heatwave events and other climate perturbations. Hofmann et al. (2021) previously proposed a suite of recommended research questions, approaches, and next steps for understanding the ability of MPAs to enhance resilience and we recommend implementing suggestions from that report. As long as the world continues to emit carbon dioxide both protected and unprotected areas in California's waters will remain under threat.

Chapter Four: Human Engagement

Introduction:

Calls for using marine protected areas (MPAs) to achieve goals for nature and people are increasing globally. While the conservation and fisheries impacts of MPAs have been comparatively well studied (e.g., Claudet et al., 2008; Edgar et al., 2014; Giakoumi et al., 2017; Goñi et al., 2010; Lester & Halpern, 2008; Wilson et al., 2020), impacts on other dimensions of human use have received less attention (Ban et al., 2019; Erskine et al., 2021; Gerber et al., 2003; Naidoo et al., 2019; Turnbull et al., 2021). This is surprising given the frequency with which human use objectives, such as recreation, culture, education, and scientific research, are identified in international, national, and regional MPA planning documents. This is no different in California. For example, Goals 3 and 4 of California's MLPA include human use objectives such as improving recreational, educational, and study opportunities provided by marine ecosystems protected within MPAs, and protecting marine natural heritage, including protection of representative and unique marine life habitats in California waters for their intrinsic values.

Understanding how humans use MPAs and identifying the traits of MPAs that promote human engagement is critical to designing future networks and adaptively managing existing networks to ensure they achieve their goals effectively, equitably, and sustainably. Quantifying human engagement patterns can also provide needed context for evaluating the success or failure of MPAs to achieve conservation and fisheries goals.

In this chapter, we use available data from a variety of sources, including and in addition to habitat-specific monitoring programs, to characterize human engagement with California's MPA network. We provide a rare quantification of a suite of major ways in which people engage with MPAs and identify traits associated with high versus low human engagement. We assemble and evaluate indicators of human engagement that capture a diversity of recreational, educational, and scientific uses, and relate the level of human engagement to population density, accessibility, amenities, and other MPA traits likely to influence human engagement.

Methods and Analytical Approaches:

We characterized human engagement with California's marine protected areas throughout the Network and identified traits that contribute to human engagement in protected areas. We assembled and evaluated indicators of human engagement that capture a diversity of recreational, educational, and scientific uses across the MPA network (i.e., for MPAs only). Because these analyses are focused on non-consumptive engagement within MPAs, fishing effort is not included as an indicator. However, one indicator included in this analysis (MPA Watch) reports information on consumptive activities (broadly defined as multiple forms of take). We relate the level of human engagement to population density, accessibility, and other MPA traits.

We used several community-based data platforms as indicators for measuring engagement across the MPA network (**Table S5**), including MPA Watch (MPA Watch, 2022), iNaturalist (iNaturalist, 2022), eBird (eBird, 2022), and Reef Environmental Education Foundation (REEF, 2022). These indicators are community science programs where individuals can submit spatially referenced records of activities (e.g., fishing, watersport activities, etc.) or observations of wildlife. Therefore, these observations serve as useful indicators for evaluating human engagement across the MPA network. We also used data collected by California Department of Fish and Wildlife (CDFW) to quantify scientific research activity and regulatory compliance within California's MPA network. We focused on the 124 MPAs that the MLPA identifies as part of California's state-managed coastal Marine Protected Area Network. This excludes federally managed MPAs around the Channel Islands, and SMPs and one SMCA in San Francisco Bay, which were established before the MLPA planning process and are not coastal, and special closures, which are not identified as MPAs by the MLPA. We refer to the resulting network of 49 SMRs, 60 SMCAs, 10 no-take SMCAs, and 5 SMRMAs as California's state MPA network. For all indicators and data, we focused our analyses on data collected from 2012-2022, after full implementation of the network.

To compare human engagement across the MPA network, we standardized the various sources of human use data to allow comparison in an "engagement scorecard," scaling each indicator to ease comparison (**Figure 12**). After visually inspecting the results of the scorecard, it was clear that some MPAs have higher engagement beyond what might be explained by population density alone. Therefore, we used a regression approach to explicitly evaluate the degree to which engagement is explained by population density. For this regression model, we used the number of iNaturalist observers as our measure of engagement because the iNaturalist indicator was the most spatially comprehensive (included most of the MPAs within the network) and correlates well with other indicators. Any MPAs with residuals greater than 75% of the fitted values of the regression were classified as "charismatic", where engagement is higher than would be expected based on population density. Conversely, any MPAs with residuals less than 75% of the fitted values of the regression were classified as "underutilized".

We constructed a logistic regression to evaluate drivers of human use that may explain charismatic MPAs beyond population density alone. We defined the logistic target level based on the output from the linear regression of engagement, where "charismatic" MPAs were defined as "1" and "typical" MPAs (those predicted by population density) as "0." Therefore, the logistic regression attempts to expand the explanatory drivers of charismatic MPAs beyond population density alone. These potential drivers included several infrastructure (such as number of parking lots, picnic areas, campgrounds, etc.) and biological (fish diversity, kelp cover, etc.) attributes (**Table S6**).

Lastly, we compared how selective each indicator was in terms of how engagement was distributed across the network looking at cumulative contributions of individual MPAs for each indicator. For this analysis, there are two null expectations. First, if all MPAs receive relatively equal engagement, then MPA rank should be directly proportional to engagement (i.e., the cumulative contribution of engagement increases by the same magnitude for each additional MPA added to the model). Second, if engagement is proportional to population density, then then MPA rank should be directly proportional to nearby population density. Therefore, if the cumulative contributions of engagement do not fit these expectations, then some MPAs receive disproportionately high engagement.

The MPA Human Engagement chapter of this report aims to address the following MLPA goals:

- MLPA Goal 3: To improve recreational, educational, and study opportunities provided by marine ecosystems that are subject to minimal human disturbance, and to manage these uses in a manner consistent with protecting biodiversity.
- MLPA Goal 5: To ensure that California's MPAs have clearly defined objectives, effective management measures, and adequate enforcement, and are based on sound scientific guidelines.

Data Summaries, Analyses, Figures, Tables, and Interpretation:

We found that human use inside protected areas is generally correlated to nearby population density across most indicators (**Figure 12**). Citation and research permit data were more aggregated (i.e., annual sums) than the other indicators of human use. In general, citation frequency was positively correlated with local human population density and MPA engagement (as measured using the spatially and temporally expansive iNaturalist indicator). Among all human uses, scientific research has been the most evenly spread activity across the MPA network, with every MPA receiving scientific attention. We also found that particular site characteristics can expand human use beyond what would be predicted by population density alone, resulting in "charismatic" sites. A linear regression on the number of iNaturalist observers within MPAs as predicted by nearby population density provided relatively strong fit after removing 18

'charismatic' MPAs that were not explained by population density alone (**Figure 13;** r^2=0.47; p<0.001). Results from the logistic regression revealed that engagement in charismatic MPAs is best explained by locations that allow take (of any kind), have extensive sandy beaches, and have associated infrastructure such as parking lots (**Table 5**).

Interestingly, MPA engagement was less selective than predicted by human population density for iNaturalist (**Figure 14**). Despite the trend to submit eBird observations from estuary locations, the MPA engagement from this human use scaled positively with human population density in the region surrounding those MPAs (**Figure 14**). REEF divers have been more selective about their MPA use than any of the other evaluated user groups. Finally, citations were more highly concentrated in certain MPAs than would be predicted by human population density alone.

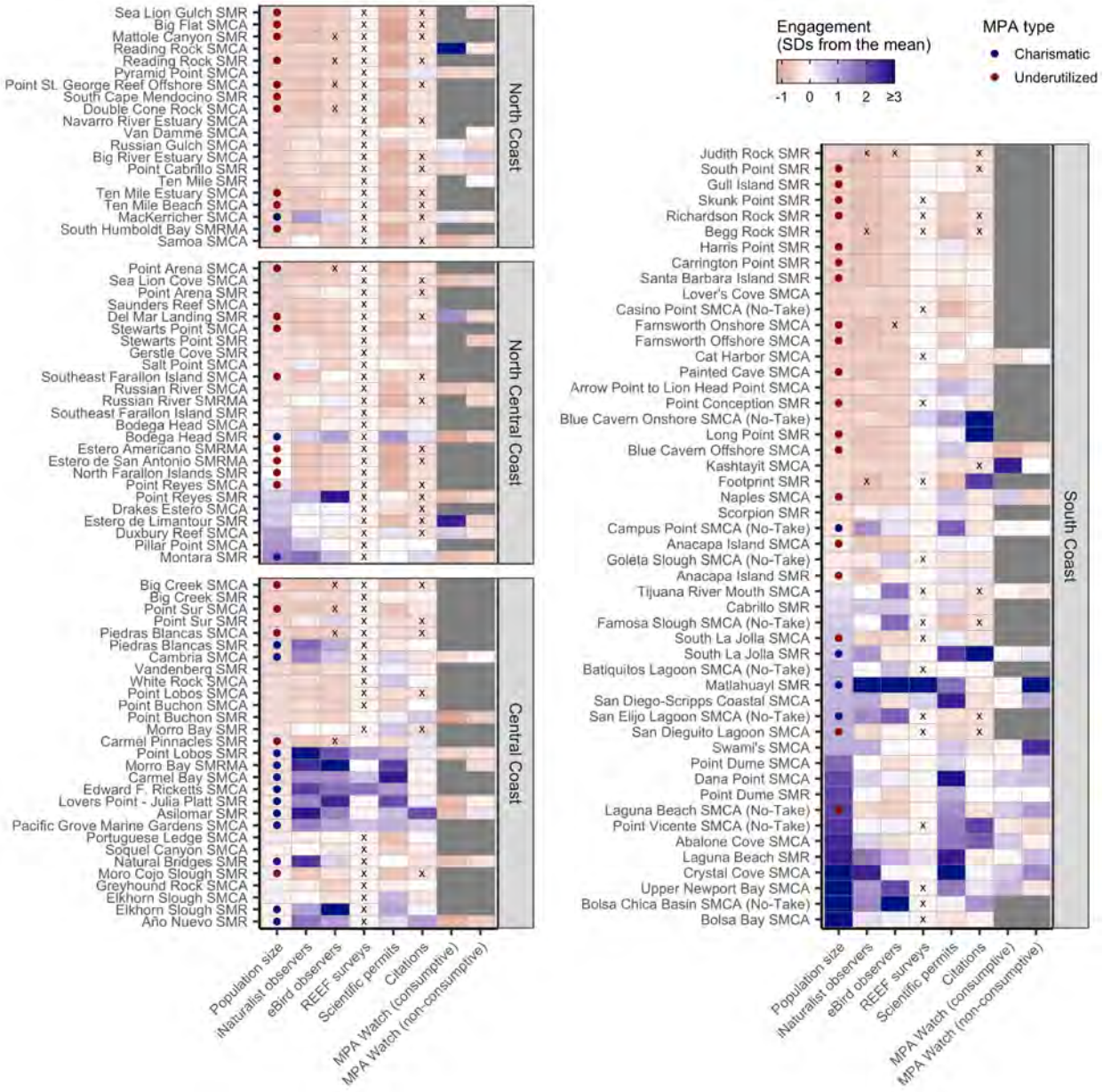


Figure 12 | *A synthesis of human use indicators within California's state marine protected areas (MPAs). MPAs are organized by region and are sorted by population density within 50 km (first column of each plot). Human use indicators are centered and scaled to ease comparison across indicators; thus, purple shades indicate MPAs with above average engagement and red shades indicate MPAs with below average engagement. Gray indicates MPAs without data and x's indicate MPAs with true zeros. MPAs with greater ("charismatic") and less ("underutilized") engagement than expected based on surrounding population density are marked in the population size column (purple circles for greater engagement and red circles for less engagement).*

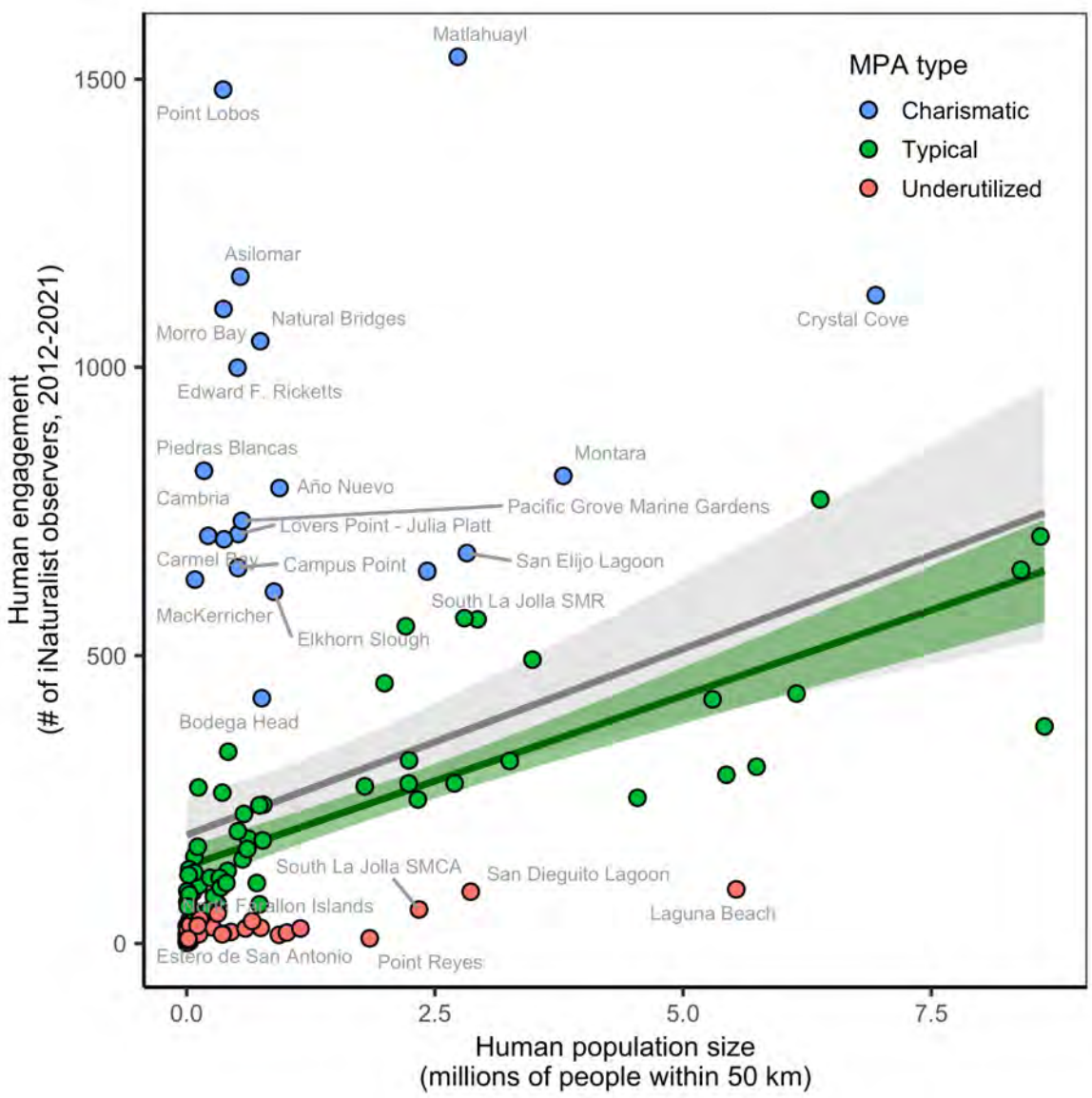


Figure 13 | *Correlation between human engagement in a marine protected area and the number of people living within 50 km of a protected area. Human engagement is measured as the number of iNaturalist observers submitting observations within 100 m of a protected area from 2012 through 2021. The gray line and 95% confidence interval illustrate a linear regression (r^2=0.14; p<0.0001) fit to all points. Blue points with residuals greater than 75% of the fitted values were classified as "charismatic" protected areas, whose engagement is higher than would be expected based on population density. Red points with residuals less than 75% of the fitted values were classified as "underutilized" protected areas, whose engagement is lower than would be expected based on population density. The charismatic and selected underutilized MPAs are labeled with their abbreviated names. The green line and 95% confidence interval illustrate a linear regression (r^2=0.62; p<0.00001) fit to the "typical" protected areas (green points), whose engagement is largely determined by population density.*

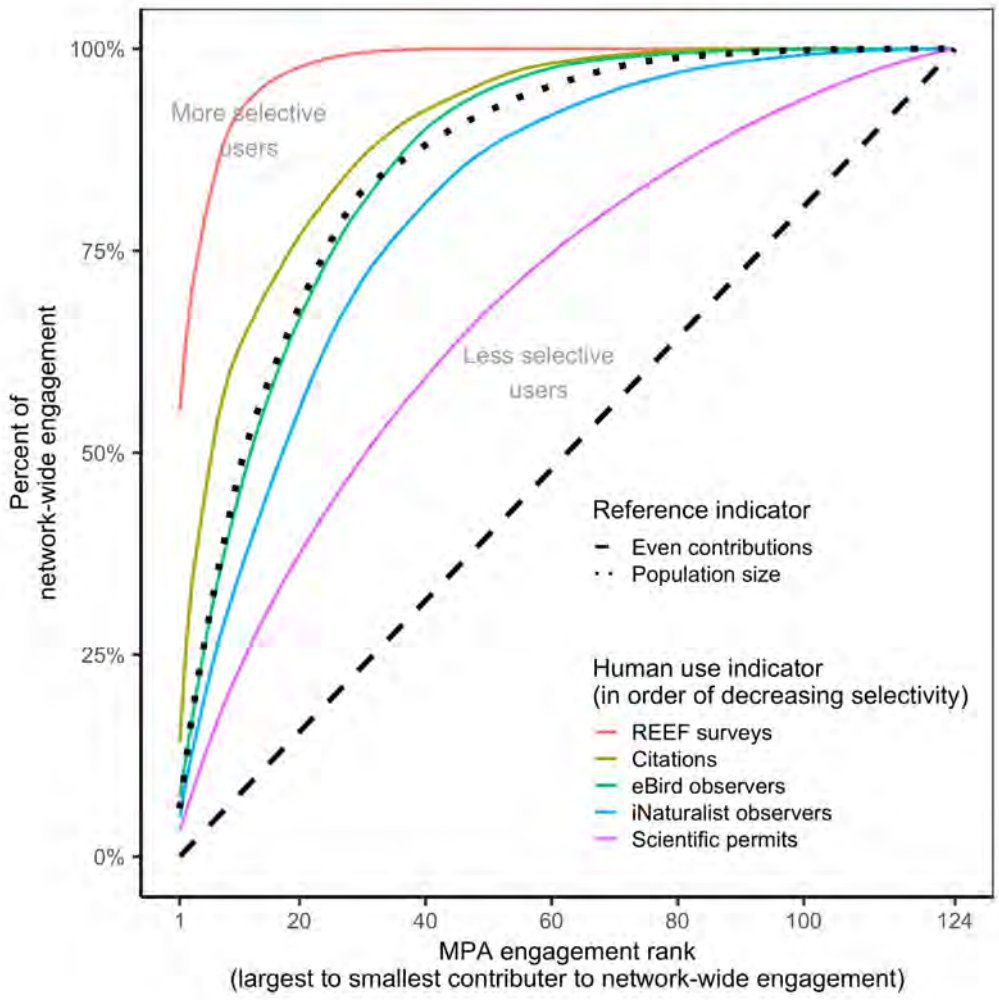


Figure 14 | *Cumulative contributions of individual marine protected areas (MPAs) to network-wide engagement based on several indicators of human use. The diagonal dashed line indicates a theoretical accumulation curve in which individual protected areas contribute equally to engagement within the overall network. Curved lines above this reference line indicate accumulation curves in which some protected areas make larger contributions (higher performers) to network-wide engagement than others (lower performers); the steeper the curve, the more network-wide engagement is dominated by a few protected areas. The accumulation curve for population size (dotted black line) provides an additional frame of reference: if human use were proportional to population size, engagement would accumulate according to this curve. Thus, curves steeper than this line indicate that benefits are more densely concentrated than would be predicted by population density (i.e., use is more selective) whereas curves shallower than this line indicate a more even distribution of benefits than would be predicted by population density (i.e., use is less selective). The MPA Watch human use indicators are excluded because they are not available for all MPAs within the network.*

Table 5 | *Attributes of "charismatic" and "underutilized" MPAs by type of engagement, based on the results of stepwise logistic regressions. Missing values indicate the best fit model does not include the associated predictors.* In each model, "typical" MPAs were set as the reference level and evaluated against charismatic or underutilized MPAs. Coefficients returned by each model are reported as odds ratio. CI = 95% confidence interval; AIC = Akaike Information Criterion.*

	Charismatic vs Typical			Underutilized vs Total		
Predictors	Odds Ratios	CI	p	Odds Ratios	CI	p
(Intercept)	0.00	0.00 – 0.13	0.007	0.62	0.24 – 1.53	0.302
Distance to port (km)	1.00	1.00 – 1.00	0.065	1.00	1.00 – 1.00	<0.001
MPA size (km^2)	0.94	0.87 – 1.01	0.121			
Take? (yes/no)	0.26	0.05 – 1.18	0.093			
Sandy beach (km)	1.49	1.08 – 2.19	0.022	0.61	0.39 – 0.87	0.016
MPA age (yr)	1.58	1.15 – 2.29	0.007			
# of parks within 1 km	1.28	1.09 – 1.56	0.006			
Rocky intertidal (km)				0.80	0.61 – 1.03	0.101
# of parking lots within 1 km				0.42	0.15 – 0.71	0.019
Observations		71			92	
R^2 Tjur		0.466			0.446	
AIC		59.527			84.254	

** Predictors not included in the reduced models include: maximum kelp canopy (km^2), estuary extent (km), number of campgrounds within 1 km, number of picnic areas within 1 km (see Table S4 for details).*

Response to DEWG questions:

DEWG question N1: Which stakeholder groups are accessing MPAs and adjacent non-MPA reference sites?

While we did not evaluate which stakeholder groups were accessing adjacent non-MPA reference sites, we did find that stakeholder groups engage with MPAs in different ways. The general public that uses iNaturalist engaged strongly with MPAs, and there are particular MPAs that receive high engagement despite not being located near large population centers. Birders, identified through eBird observations, largely used MPAs that scaled positively with human population density in the region surrounding those MPAs. REEF divers were selective in which MPAs they used, more so than other stakeholders. Scientists also engaged with MPAs and did so across the MPA network.

DEWG question N4: Are there groups that disproportionately access or don't access MPAs and reference sites, and why?

We identified specific MPAs that received disproportionately high and low engagement (for the stakeholder groups for which we had data) compared to that expected if based on human population density alone. MPAs where take was allowed, presence of sandy beach, and having an MPA cited near state and county parks all contributed to increased engagement with MPAs.

DEWG question 25: Are efforts to collect long-term monitoring data coordinated sufficiently to fully evaluate MPA Network performance?

While we did not evaluate if long-term monitoring data efforts were coordinated, particularly across habitat monitoring groups, we did find that scientific permits were distributed across the entire MPA Network, confirming that monitoring data are being collected across the entire network. This suggests that a coordinated effort is possible.

Discussion:

We found that human engagement in MPAs is generally correlated with nearby population density and that site “charisma” can expand human use beyond what would be predicted by population density alone. Charismatic MPAs are located near tourist destinations and are often adjacent to beaches, state parks, and associated amenities. In addition, our analysis suggests high engagement in SMCAs where take is allowed. In contrast, underutilized MPAs were assumed to be less accessible because of their distance from densely populated areas and their lack of associated infrastructure. While some indicators of human uses scaled with population density, others were either more selective for particular MPAs or less selective than predicted. These results have important management implications. First, achieving MPA goals associated with engagement in MPAs can be promoted by developing land-based amenities that increase access to coastal MPAs or by locating new MPAs near existing amenities during the design phase.

Second, managers may prioritize monitoring, enforcement, education, and outreach programs in MPAs with traits that predict high human engagement. Lastly, while some MPAs may receive low human engagement, thus not meeting one objective, they might be important areas for preserving biodiversity, meeting other objectives.

When reflecting on MLPA Goal 3, "to improve recreational, educational, and study opportunities provided by marine ecosystems that are subject to minimal human disturbance, and to manage these uses in a manner consistent with protecting biodiversity," we found high engagement in MPAs within the sectors of recreation, education, and science. Understanding the extent to which human use impacts the conservation performance of MPAs is a critical next step to designing MPAs that minimize tradeoffs among potentially competing objectives.

Equitable human use of California's MPA network should also be a critical socioeconomic objective. Unfortunately, the indicators of human engagement evaluated here do not include demographic information on the identity of human users, limiting our ability to evaluate the equity of use among different user groups. The collection of information on the identity of MPA users is thus a vital first step towards considering equity in future MPA planning and outreach. Knowledge of the representativeness of current users is necessary to design and implement programs that promote access and engagement among underrepresented groups.

Data Availability Statement

This project leveraged a very large number of published environmental and biological monitoring datasets, many of which are already collated in the OPC-funded CeNCOOS/SCCOOS MPA Monitoring Web Application and in the OPC MPA Monitoring DataONE portal. To make our work reproducible and open, we used a programmatic approach to the data processing and analytical phases of the project. Analyses were performed in R and all project code is documented and available on the GitHub code repository platform. For the dissemination of new data products generated by this project, we will preserve datasets supporting our scientific findings in a member data repository of the DataONE federation at the end of the project.

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Listed in alphabetical order after working group co-chairs, report authors, and data analysts

California Ocean Landscapes Courtesy of Alexandra A Phillips

NCEAS
National Center for Ecological Analysis and Synthesis

UC SANTA BARBARA

Appendix

Table S1 | *State MPAs and reference sites sampled by five habitat monitoring groups. 'Total groups' indicates the number of habitat monitoring groups that sampled a given MPA at any point in time. The numbers for each habitat monitoring group indicate the total number of years that site was sampled as of 2021.*

Region	MPA	Designation	Total Groups	Kelp Forest	Intertidal	CCFRP	Deep Reef	Beach	Surf
NORTH	BODEGA HEAD	REFERENCE	3			4	5	1	
		SMCA	1				5		
		SMR	4		21	4	5	2	
	DEL MAR LANDING	REFERENCE	1	2					
		SMR	2	2	4				
	DOUBLE CONE ROCK	SMCA	1	3					
	DUXBURY REEF	SMCA	1		17				
	GERSTLE COVE	SMR	1		6				
	MACKERRICHER	SMCA	2		3		2		
	MATTOLE CANYON	REFERENCE	1				2		
		SMR	1				2		

MCKERRICHER	REFERENCE	1					2	
	SMCA	2					2	3
NORTH FARALLON ISLANDS	SMR	1				5		
PILLAR POINT	REFERENCE	1				4		
	SMCA	1				4		
POINT ARENA	REFERENCE	2	2			3		
	SMCA	1				3		
	SMR	3	2	5		3		
POINT CABRILLO	REFERENCE	1	5					
	SMR	1	5					
POINT REYES	REFERENCE	2					1	3
	SMCA	1				3		
	SMR	4		3		3	2	3
POINT ST. GEORGE REEF OFFSHORE	REFERENCE	1				3		
	SMCA	1				3		
PYRAMID POINT	REFERENCE	1	2					
	SMCA	2	3	2				

READING ROCK	REFERENCE	3				3	2	3
	SMCA	1				3		
	SMR	3				3	2	3
RUSSIAN RIVER	SMCA	1		2				
SALT POINT	REFERENCE	1	2					
	SMCA	2	2	3				
SAMOA	REFERENCE	1						3
	SMR	1						3
SAMOA DUNES	REFERENCE	1					2	
	SMR	1					2	
SAUNDERS REEF	REFERENCE	1	7					
	SMCA	3	7	4		1		
SEA LION COVE	REFERENCE	1	2					
	SMCA	2	2	17				
SEA LION GULCH	REFERENCE	1				3		
	SMR	1				3		
SOUTH CAPE MENDOCINO	REFERENCE	1			4			

		SMCA	1				1		
		SMR	1			4			
	SOUTHEAST FARALLON ISLAND	REFERENCE	2			2	5		
		SMCA	1				5		
		SMR	2			2	5		
	STEWARTS POINT	REFERENCE	2	5		4			
		SMR	4	5	2	4	1		
	TEN MILE	REFERENCE	3	5		4		2	
		SMR	5	6	2	4		1	3
	TRINIDAD	REFERENCE	1			2			
CENTRAL	ANO NUEVO	REFERENCE	3			14	4	1	
		SMR	5		19	14	4	1	3
	ASILOMAR	REFERENCE	2	3				1	
		SMR	4	3	15			1	3
	BIG CREEK	REFERENCE	2	11			2		
		SMCA	1				2		
		SMR	2	11			2		

CAMBRIA	REFERENCE	1	4					
	SMCA	2	9	17				
CARMEL BAY	REFERENCE	2	3				1	
	SMCA	5	20	22		2	1	3
CARMEL PINNACLES	SMR	1	4					
EDWARD F. RICKETTS	SMCA	1	19					
GREYHOUND ROCK	SMCA	2		23				3
LOVERS POINT - JULIA PLATT	SMR	2	21	23				
MONTARA	REFERENCE	1					1	
	SMR	3		6		4	2	
NATURAL BRIDGES	REFERENCE	2	12					3
	SMR	3	11	23				3
PACIFIC GROVE MARINE GARDENS	SMCA	1	13					
PIEDRAS BLANCAS	REFERENCE	3	5		12	2		
	SMR	4	5	23	12	2		
POINT BUCHON	REFERENCE	3	10		14	5		

		SMR	4	10	5	14	5		
	POINT LOBOS	REFERENCE	3	17		14	5		
		SMCA	1				5		
		SMR	5	21	23	14	5		3
	POINT SUR	REFERENCE	2	12			4		
		SMCA	1				4		
		SMR	3	13	23		4		
	PORTUGUESE LEDGE	REFERENCE	1				3		
		SMCA	1				3		
	SOQUEL CANYON	SMCA	1				1		
	SOUTHEAST FARALLON ISLAND	SMR	1		4				
	VANDENBERG	REFERENCE	2	14				1	
		SMR	3	9	22			1	
	WHITE ROCK	REFERENCE	1	9					
		SMCA	2	9	21				
SOUTH	ABALONE COVE	REFERENCE	1	12					

	SMCA	2	11	2				
ARROW POINT TO LION HEAD POINT	SMCA	1	6					
BEGG ROCK	REFERENCE	1	1					
	SMR	1	2					
BLUE CAVERN ONSHORE	REFERENCE	1	6					
	SMCA	2	6	22				
CABRILLO	REFERENCE	1	1					
	SMR	2	2	22				
CAMPUS POINT	REFERENCE	4	12		2	3	3	
	SMCA	5	12	23	2	3	3	
CAT HARBOR	REFERENCE	1	6					
	SMCA	1	5					
CRYSTAL COVE	REFERENCE	1	4					
	SMCA	2	3	22				
DANA POINT	REFERENCE	1	4					
	SMCA	3	4	22			3	

FARNSWORTH OFFSHORE	REFERENCE	1				4		
	SMCA	1				4		
FARNSWORTH ONSHORE	REFERENCE	1	5					
	SMCA	1	3					
LAGUNA BEACH	REFERENCE	2	4		1			
	SMCA	1		22				
	SMR	4	4	23	1			3
LONG POINT	REFERENCE	1	4					
	SMR	2	4	4				
LOVER'S COVE	REFERENCE	1	2					
	SMCA	1	2					
MATLAHUAYL	REFERENCE	1	4					
	SMR	2	4	5				
NAPLES	REFERENCE	1	12					
	SMCA	2	22			1		
POINT CONCEPTION	REFERENCE	5	15		1	2	1	3
	SMR	6	14	15	1	2	1	3

	POINT DUME	REFERENCE	4	8			1	3	3
		SMCA	2	6	4				
		SMR	5	7	23		1	3	3
	POINT VICENTE	REFERENCE	1	15					
		SMCA	2	15	3				
	SANTA BARBARA ISLAND	REFERENCE	2	8			1		
		SMR	3	8	17		1		
	SCRIPPS/MATLAHUAYL	REFERENCE	1					3	
		SMCA	1		21				
		SMR	2					3	3
	SOUTH LA JOLLA	REFERENCE	3	4		4	2		
		SMCA	1				2		
		SMR	4	4	5	4	2		
	SWAMI'S	REFERENCE	4	4		4	2	1	
		SMCA	6	4	4	4	2	3	3
SOUTH - CI	ANACAPA ISLAND	REFERENCE	3	17		4	11		
		SC	1		19				

	SMCA	3	17		4	11
	SMR	4	22	19	4	11
CARRINGTON POINT	REFERENCE	3	5		4	2
	SMR	4	5	1	4	11
GULL ISLAND	REFERENCE	2	19			10
	SMR	2	17			10
HARRIS POINT	REFERENCE	2	15			8
	SMR	3	15	19		8
PAINTED CAVE	REFERENCE	1	21			
	SMCA	1	17			
SCORPION	REFERENCE	2	21			1
	SMR	3	17	19		1
SOUTH POINT	REFERENCE	2	17			10
	SMR	3	18	1		10

Table S2 | *MPA sampling effort by survey year. The total number of habitat monitoring groups (of the five analyzed in this report) that sampled a given MPA is indicated for each year, starting in 1999.*

Region	MPA	Designation	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21
NORTH	BODEGA HEAD	REFERENCE												1	1				1		1	1	3	2	
		SMCA												1	1				1				1	1	
		SMR		1	1	1	1	1	1	1	1	1	1	3	2	1	1	1	2	1	2	2	4	3	1
	DEL MAR LANDING	REFERENCE												1	1										
		SMR												2	2						1			1	
	DOUBLE CONE ROCK	SMCA																1	1				1		
	DUXBURY REEF	SMCA				1			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	GERSTLE COVE	SMR												1	1						1		1	1	1
	MACKERRICHER	SMCA						1										1	1			1		1	
	MATTOLE CANYON	REFERENCE																1	1						
		SMR																1	1						
	MCKERRICHER	REFERENCE																1					1		
		SMCA																1					2	1	1
	NORTH FARALLON ISLANDS	SMR												1	1				1				1	1	

PILLAR POINT	REFERENCE			1	1			1				1		
	SMCA			1	1			1				1		
POINT ARENA	REFERENCE			1	2			1				1		
	SMCA				1			1				1		
	SMR			2	3			1		1			2	1
POINT CABRILLO	REFERENCE						1	1		1	1	1		
	SMR						1	1		1	1	1		
POINT REYES	REFERENCE											2	1	1
	SMCA		1	1	1									
	SMR		1	3	2					1		2	1	1
POINT ST. GEORGE REEF OFFSHORE	REFERENCE						1	1					1	
	SMCA						1	1					1	
PYRAMID POINT	REFERENCE						1				1			
	SMCA						1	1			2	1		
READING ROCK	REFERENCE						2	1				2	2	1
	SMCA						1	1					1	
	SMR						2	1				2	2	1

RUSSIAN RIVER	SMCA							1	1													
SALT POINT	REFERENCE							1	1													
	SMCA							2	2											1		
SAMOA	REFERENCE																		1	1	1	
	SMR																		1	1	1	
SAMOA DUNES	REFERENCE											1							1			
	SMR											1							1			
SAUNDERS REEF	REFERENCE							1	1					1	1	1	1	1				
	SMCA							2	2			1	1	1	1	1	1	2				
SEA LION COVE	REFERENCE							1	1													
	SMCA	1	1	1	1	1	1	2	2		1	1	1	1	1	1	1	1	1			
SEA LION GULCH	REFERENCE											1	1					1				
	SMR											1	1					1				
SOUTH CAPE MENDOCINO	REFERENCE														1	1	1	1				
	SMCA											1										
	SMR														1	1	1	1				
	REFERENCE							1	1				1		1	1	1	1				

	SOUTHEAST FARALLON ISLAND	SMCA											1	1				1					1	1							
		SMR											1	1				1		1	1	1	1								
	STEWARTS POINT	REFERENCE											1	1						2	2	2	1								
		SMR											1	1				1		3	2	2	1	1							
	TEN MILE	REFERENCE															2	1		1	2	3	2								
		SMR															1	2		2	3	4	3	1							
	TRINIDAD	REFERENCE																			1	1									
CENTRAL	ANO NUEVO	REFERENCE							2	2	1	1	1	1	1	1	2	1	1	1	3	1									
		SMR		1		1	1	1	3	3	2	2	2	2	2	2	3	2	2	2	5	3	2								
	ASILOMAR	REFERENCE							1	1			1									1									
		SMR							2	2	1	1	2	1	1	1	1	1	1	1	3	2	2								
	BIG CREEK	REFERENCE	1	1	1		1	1	1	1	1	1	1				1	1				1									
		SMCA																1				1									
		SMR	1	1	1		1	1	1	1	1	1	1				1	1				1									
	CAMBRIA	REFERENCE			1		1		1	1																					
		SMCA		1	1	1	2	2	2	2	2	2	2	1	1	1	1	1	1	1		1	1								
	CARMEL BAY	REFERENCE	1	1	1																1										

	SMCA	1	2	2	2	2	1	2	2	2	3	2	2	2	1	2	2	2	3	2	2	4	3	2
CARMEL PINNACLES	SMR									1	1		1	1										
EDWARD F. RICKETTS	SMCA	1	1	1	1	1		1	1	1	1	1		1	1	1	1	1	1	1	1		1	
GREYHOUND ROCK	SMCA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2
LOVERS POINT - JULIA PLATT	SMR	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1
MONTARA	REFERENCE																					1		
	SMR				1				1				2	2			1	1		1		1	2	
NATURAL BRIDGES	REFERENCE	1	1	1	1	1		1	1	1	1	1	1	1								1	1	1
	SMR	1	2	2	2	2	1	2	2	2	2	2	2	2	1	1	1	1	1	1	1	2	2	2
PACIFIC GROVE MARINE GARDENS	SMCA								1	1	1			1	1	1	1	1	1	1	1	1	1	
PIEDRAS BLANCAS	REFERENCE					1		1	1	1	2	1	1	1	1	1	1		2	1	1	1	2	
	SMR	1	1	1	1	2	1	2	2	2	3	2	2	2	2	2	2	1	3	2	2	2	3	1
POINT BUCHON	REFERENCE									2	3	3	2	2	2	1	1	1	3	2	2	3	2	
	SMR									3	4	4	2	3	2	1	1	1	3	3	2	3	2	
POINT LOBOS	REFERENCE					1		1	1	3	3	3	2	2	2	2	2	2	3	2	2	3	2	
	SMCA									1	1	1							1			1		

		SMR	2	2	2	2	2	1	2	2	4	4	4	3	3	3	3	3	3	4	3	3	5	4	2
	POINT SUR	REFERENCE							1	1	1	2		1	1	2				2	1	1	2	1	
		SMCA										1				1				1			1		
		SMR	2	1	1	1	2	1	2	2	2	3	2	2	2	2	1	1	1	3	2	1	3	2	1
	PORTUGUESE LEDGE	REFERENCE																	1	1			1		
		SMCA																	1	1			1		
	SOQUEL CANYON	SMCA																		1					
	SOUTHEAST FARALLON ISLAND	SMR							1												1	1		1	
	VANDENBERG	REFERENCE	1	1	1	1	1	1	1	1	1	1	1	1	1	1							1		
		SMR	2	2	2	2	2	2	2	2	1	2	1	1	1	1	1	1	1	1	1	1	2	1	
	WHITE ROCK	REFERENCE					1		1	1	1	1	1		1								1	1	
		SMCA			1	2	2	1	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1
SOUTH	ABALONE COVE	REFERENCE									1	1			1	1	1	1	1	1	1	1	1	1	
		SMCA											1	1	1	2	1	1	1	1	1	1	1	1	
	ARROW POINT TO LION HEAD POINT	SMCA						1				1			1	1							1	1	
	BEGG ROCK	REFERENCE														1									

	SMR										1				1											
BLUE CAVERN ONSHORE	REFERENCE						1				1			1	1								1	1		
	SMCA	1	1	1	1	1	2	2	1	1	1	1	1	2	2	1	1	1	1	1	1	2	2			
CABRILLO	REFERENCE														1											
	SMR	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1			
CAMPUS POINT	REFERENCE										1		1	1	2	2	2	1	1	1	1	4	2	1		
	SMCA	1	1	1	1	1	1	1	1	1	1	2	2	2	3	3	3	2	2	2	2	5	3	2		
CAT HARBOR	REFERENCE						1				1			1	1							1	1			
	SMCA						1							1	1							1	1			
CRYSTAL COVE	REFERENCE													1	1							1	1			
	SMCA	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	2	1			
DANA POINT	REFERENCE													1	1							1	1			
	SMCA	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	3	3	1		
FARNSWORTH OFFSHORE	REFERENCE													1	1		1						1			
	SMCA													1	1		1						1			
FARNSWORTH ONSHORE	REFERENCE						1				1			1	1							1				
	SMCA													1	1							1				

LAGUNA BEACH	REFERENCE													1	1					1		1	1				
	SMCA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
	SMR	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	2	1	3	3	2			
LONG POINT	REFERENCE													1	1							1	1				
	SMR												1	1	1	1					1	1	2				
LOVER'S COVE	REFERENCE						1				1																
	SMCA													1	1												
MATLAHUAYL	REFERENCE													1	1							1	1				
	SMR											1		1	2	1						1	2	1			
NAPLES	REFERENCE											1	1	1	1	1	1	1	1	1	1	1	1				
	SMCA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1				
POINT CONCEPTION	REFERENCE	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				1	3	1	1			
	SMR	2	2	2	2	2	2	2	2	1	1	1	1	1	1		2	1	1	1	2	4	2	1			
POINT DUME	REFERENCE						1				1		1	1	2	2	1					3	2	1			
	SMCA											1	1	1	2	2					1	1	1				
	SMR	1	1	1	1	1	1	1	1	1	2	1	2	2	3	3	2	1	1	1	1	4	3	2			
POINT VICENTE	REFERENCE						1			1	1	1	1	1	1	1	1	1	1	1	1	1	1				

		SMCA						1			1	1	1	1	1	2	2	1	2	1	1	1	1	1		
	SANTA BARBARA ISLAND	REFERENCE						1	1	1	1	1			1	1		1					1			
		SMR			1	1	1	2	1	2	2	2	1	1	2	2	1	1	1	1	1		2	1		
	SCRIPPS/MATLAHUAYL	REFERENCE														1	1						1			
		SMCA	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1		
		SMR														1	1						2	1	1	
	SOUTH LA JOLLA	REFERENCE													1	1		1			1	1	2	3		
		SMCA																1						1		
		SMR													1	2	1	1			2	1	2	4	1	
	SWAMI'S	REFERENCE													1	1		1			1	1	3	3		
		SMCA													1	2	1	1			2	2	5	5	1	
SOUTH - CI	ANACAPA ISLAND	REFERENCE	1				1	2	2	2	2	2	2	1	1	1		2	2	1	2	2	3	3		
		SC	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1				
		SMCA					2	2	2	2	2	2	2	1	1	1		2	2	1	2	2	3	3		
		SMR	2	2	2	2	3	3	3	3	3	3	3	2	2	2	2	3	3	2	2	3	3	3		
	CARRINGTON POINT	REFERENCE					1	1	1		1	2								1	1	1	1	1		
		SMR					2	2	2	1	2	2	1					1	1		2	1	2	2		

GULL ISLAND	REFERENCE			1	1	2	2	2	2	2	2	2	1	1	1		2	1	1	1	2	1	2
	SMR					2	2	2	2	2	2	2	1	1	1		2	1	1	1	2	1	2
HARRIS POINT	REFERENCE					1	1	2	2	2	2	2	1	1	1		2		1		1	2	2
	SMR	1	1	1	1	2	2	3	3	3	3	3	2	2	2	1	3		2	1	1	3	2
PAINTED CAVE	REFERENCE		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	SMCA					1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1
SCORPION	REFERENCE		1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1
	SMR	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	2	2	1	2	1	1
SOUTH POINT	REFERENCE						2	2	2	2	2	2	1	1	1	1	2	2	1	1	1	2	2
	SMR					1	2	2	2	2	2	2	1	1	1	1	2	2	1	2	1	2	2

Table S3 | *State MPA and monitoring de facto status. The gray column 'mpa type' contains the state-designated MPA status and each habitat-specific status is included as separate columns. Red text indicates de facto SMRs as determined by habitat group PIs (see Chapter 1 Methods). Missing values represent MPAs that are not surveyed by a given habitat monitoring group.*

	MPA type	Kelp Forest	Rocky Intertidal	Surf Zone	Deep Reef	CCFRP
north						
pyramid point smca	*SMCA*	SMCA	SMCA			
point st. george reef offshore smca	*SMCA*				SMCA	
reading rock smca	*SMCA*			SMCA		
reading rock smr	*SMR*				SMR	
samoa smca	*SMCA*			SMCA		
south cape mendocino smr	*SMR*				SMR	SMR
mattole canyon smr	*SMR*				SMR	
sea lion gulch smr	*SMR*				SMR	
double cone rock smca	*SMCA*	SMCA				
ten mile smr	*SMR*	SMR	SMR	SMR	SMR	SMR
mackerricher smca	*SMCA*		SMR		SMCA	
point cabrillo smr	*SMR*	SMR				
van damme smca	*SMCA*	SMCA				
point arena smr	*SMR*	SMR	SMR		SMR	
point arena smca	*SMCA*				SMR	

	MPA type	Kelp Forest	Rocky Intertidal	Surf Zone	Deep Reef	CCFRP
sea lion cove smca	*SMCA*	SMCA	SMR			
saunders reef smca	*SMCA*	SMCA	SMR		SMR	
del mar landing smr	*SMR*	SMR	SMR			
stewarts point smca	*SMCA*				SMCA	
stewarts point smr	*SMR*	SMR	SMR		SMR	SMR
salt point smca	*SMCA*	SMCA	SMCA			
gerstle cove smr	*SMR*		SMR			
russian river smca	*SMCA*		SMR			
bodega head smr	*SMR*		SMR		SMR	SMR
bodega head smca	*SMCA*				SMCA	
point reyes smr	*SMR*		SMR	SMR	SMR	
point reyes smca	*SMCA*				SMR	
duxbury reef smca	*SMCA*		SMCA			
north farallon islands smr	*SMR*				SMR	
southeast farallon island smr	*SMR*		SMR		SMR	SMR
southeast farallon island smca	*SMCA*				SMR	
central						
montara smr	*SMR*		SMR		SMR	
pillar point smca	*SMCA*				SMCA	

	MPA type	Kelp Forest	Rocky Intertidal	Surf Zone	Deep Reef	CCFRP
ano nuevo smr	*SMR*		SMR	SMR	SMR	SMR
greyhound rock smca	*SMCA*		SMR			
natural bridges smr	*SMR*	SMR	SMR	SMR		
soquel canyon smca	*SMCA*				SMR	
portuguese ledge smca	*SMCA*				SMR	
asilomar smr	*SMR*	SMR	SMR	SMR	SMR	
lovers point - julia platt smr	*SMR*	SMR	SMR			
carmel pinnacles smr	*SMR*	SMR				
carmel bay smca	*SMCA*	SMCA	SMR		SMCA	
point lobos smr	*SMR*	SMR	SMR	SMR	SMR	SMR
point sur smr	*SMR*	SMR	SMR		SMR	
point sur smca	*SMCA*				SMR	
big creek smr	*SMR*	SMR			SMR	
big creek smca	*SMCA*				SMR	
piedras blancas smr	*SMR*	SMR	SMR		SMR	SMR
piedras blancas smca	*SMCA*				SMR	
cambria smca	*SMCA*	SMCA	SMCA			
white rock smca	*SMCA*	SMR	SMR			
point buchon smr	*SMR*	SMR	SMR			SMR

	MPA type	Kelp Forest	Rocky Intertidal	Surf Zone	Deep Reef	CCFRP
vandenberg smr	*SMR*	SMR	SMR			
north islands						
harris point smr	*SMR*	SMR	SMR		SMR	
painted cave smca	*SMCA*	SMCA				
scorpion smr	*SMR*	SMR	SMR		SMR	
carrington point smr	*SMR*	SMR	SMR		SMR	SMR
anacapa island smca	*SMCA*	SMCA			SMCA	
anacapa island smr	*SMR*	SMR	SMR		SMR	SMR
gull island smr	*SMR*	SMR			SMR	
south point smr	*SMR*	SMR	SMR		SMR	
santa barbara island smr	*SMR*	SMR	SMR			
begg rock smr	*SMR*	SMR				
south						
naples smca	*SMCA*	SMCA			SMCA	
point conception smr	*SMR*	SMR	SMR	SMR	SMR	SMR
campus point smca	*SMCA*	SMR	SMR	SMR	SMR	
point dume smca	*SMCA*	SMR	SMR			
point dume smr	*SMR*	SMR	SMR	SMR	SMR	
point vicente smca	*SMCA*	SMR	SMR			

	MPA type	Kelp Forest	Rocky Intertidal	Surf Zone	Deep Reef	CCFRP
abalone cove smca	*SMCA*	SMR	SMR			
crystal cove smca	*SMCA*	SMCA	SMR			
laguna beach smr	*SMR*	SMR	SMR	SMR		SMR
laguna beach smca	*SMCA*		SMR			
dana point smca	*SMCA*	SMCA	SMR			
blue cavern onshore smca	*SMCA*	SMR	SMR			
cat harbor smca	*SMCA*	SMCA				
long point smr	*SMR*	SMR	SMR			
lover's cove smca	*SMCA*	SMCA				
farnsworth offshore smca	*SMCA*				SMCA	
farnsworth onshore smca	*SMCA*	SMR				
swami's smca	*SMCA*	SMR	SMR		SMCA	SMR
san diego-scripps coastal smca	*SMCA*		SMR			
matlahuayl smr	*SMR*	SMR	SMR	SMR		
south la jolla smr	*SMR*	SMR	SMR		SMR	SMR
south la jolla smca	*SMCA*				SMCA	
cabrillo smr	*SMR*	SMR	SMR			

Table S4 | *Taxa recorded by each long-term monitoring group used in the climate community change analyses (Chapter 3). An "X" indicates taxa recorded by an individual group (RI=rocky intertidal, KF-I/A=kelp forest invertebrates/algae, KF-F=kelp forest fish, RR=rocky reef, DR=deep reef).*

Common Name	Scientific name	RI	KF-I/A	KF-F	RR	DR
Alaria	*Alaria marginata*		X			
Aggregating anemone	*Anthopleura elegantissima*		X			
Sunburst anemone	*Anthopleura sola*		X			
Giant green anemone	*Anthopleura xanthogrammica*		X			
California brown sea hare	*Aplysia californica*		X			
Black sea hare	*Aplysia vaccaria*		X			
California sea cucumber	*Apostichopus californicus*		X			
Warty sea cucumber	*Apostichopus parvimensis*		X			
Barnacle	*Balanus nubilus*		X			
Cancer crab			X			
Leafy hornmouth	*Ceratostoma foliatum*		X			
Costaria	*Costaria costata*		X			
Grey tennis ball sponge	*Craniella arb*		X			
Rock scallop	*Crassadoma gigantea*		X			
White-spotted rose anemone	*Cribrinopsis albopunctata*		X			
Gumboot chiton	*Cryptochiton stelleri*		X			

Umbrella crab	*Cryptolithodes sitchensis*	X
Orange sea cucumber	*Cucumaria miniata*	X
Leather star	*Dermasterias imbricata*	X
Rough keyhole limpet	*Diodora aspera*	X
Southern sea palm	*Eisenia arborea*	X
Pinto abalone	*Haliotis kamtschatkana*	X
Red abalone	*Haliotis rufescens*	X
Flat abalone	*Haliotis walallensis*	X
Blood star	*Henricia leviuscula*	X
Kellet's whelk	*Kelletia kelletii*	X
Oar weed	*Laminaria farlowii*	X
Laminaria farlowii sub-canopy (layer above primary spaceholder)	*Laminaria farlowii*	X
Setchell's kelp	*Laminaria setchellii*	X
Six arm star	*Leptasterias hexactis*	X
Red gorgonian	*Leptogorgia chilensis*	X
Fragile star	*Linckia columbiae*	X
Decorator crab, moss crab	*Loxorhynchus/Scyra crispatus/acutifrons*	X
Sheep crab	*Loxorhynchus grandis*	X
White urchin	*Lytechinus pictus*	X

Macrocystis	*Macrocystis pyrifera*	X
Macrosystis holdfast (alive)	*Macrocystis pyrifera*	X
Red star	*Mediaster aequalis*	X
Wavy turban snail	*Megastraea undosa*	X
Giant key-hole limpet	*Megathura crenulata*	X
Red urchin - all sizes	*Mesocentrotus franciscanus*	X
Red urchin adult	*Mesocentrotus franciscanus*	X
Red urchin recruit	*Mesocentrotus franciscanus*	X
White plumed anemones	*Metridium* spp	X
Chestnut cowrie	*Neobernaya spadicea*	X
Nereocystis, bull kelp	*Nereocystis luetkeana*	X
Nereocystis holdfast (alive)	*Nereocystis luetkeana*	X
Rainbow star	*Orthasterias koehleri*	X
Burrowing anemone	*Pachycerianthus fimbriatus*	X
Bat star	*Patiria miniata*	X
Short spined star	*Pisaster brevispinus*	X
Giant spined star	*Pisaster giganteus*	X
Ochre star	*Pisaster ochraceus*	X
Pleurophycus	*Pleurophycus gardneri*	X
Red turban snail	*Pomaulax gibberosus*	X

Pterygophora	*Pterygophora californica*	X
Winged kelp	*Pterygophora californica*	X
Mimicking crab	*Pugettia foliata*	X
Northern kelp crab	*Pugettia producta*	X
Cryptic kelp crab	*Pugettia richii*	X
Sunflower star	*Pycnopodia helianthoides*	X
Dawson's sun star	*Solaster dawsoni*	X
Chain-bladder kelp adult	*Stephanocystis osmundacea*	X
Chain-bladder kelp	*Stephanocystis osmundacea*	X
Purple urchin	*Strongylocentrotus purpuratus*	X
Purple urchin adult	*Strongylocentrotus purpuratus*	X
Purple urchin recruit	*Strongylocentrotus purpuratus*	X
Stalked tunicate	*Styela montereyensis*	X
California hydrocoral	*Stylaster californicus*	X
Orange puff-ball sponge	*Tethya californiana*	X
Urticina spp.	*Urticina spp*	X
Bryozoan		X
Strawberry anemone	*Corynactis californica*	X
Acidic seaweed	*Desmarestia spp*	X
Ornate tube worm	*Diopatra/Chaetopterus spp*	X

Hydroid		X
Brown algae		X
Colonial sand tube worm	*Phragmatopoma californica*	X
Sponge		X
Dictyoneurum	*Dictyoneurum californicum/reticulatum*	X
Surfgrass	*Phyllospadix* spp	X
Tube snail, scaled worm shell	*Thylacodes/Petaloconchus squamigerus/montereyensis*	X
Clam		X
Dodecaceria	*Dodecaceria fewkesi*	X
Green algae		X
Tubeworm		X
Barnacle		X
Sea cucumber (embedded, non-mobile)	*Cucumaria* spp	X
Dictyotales	*Dictyotales* spp	X
Egregia	*Egregia menziesii*	X
Cup coral		X
Diatom layer		X
Fragile tube worms	*Salmacina tribranchiata*	X
Tubeworm mat		X

Red filamentous turf		X			
Scallop		X			
Southern staghorn bryozoan	*Diaperoforma californica*	X			
Worm snail	*Petaloconchus montereyensis*	X			
Tube snail, scaled worm shell	*Thylacodes squamigerus*	X			
Mussel	*Mytilus*	X			
Encrusting purple hydrocoral	*Stylantheca papillosa*	X			
Wolf eel	*Anarrhichthys ocellatus*		X		
Ronquils	*Bathymasteridae* spp		X		
Kelp surfperch	*Brachyistius frenatus*		X		
Monkeyface eel	*Cebidichthys violaceus*		X		
Swell shark	*Cephaloscyllium ventriosum*		X		
Blacksmith	*Chromis punctipinnis*		X		
Sanddabs	*Citharichthys* spp		X	X	
Shiner surfperch	*Cymatogaster aggregata*		X		
Black surfperch	*Embiotoca jacksoni*		X		X
Striped surfperch	*Embiotoca lateralis*		X	X	X
Masked prickleback	*Ernogrammus walkeri*		X		
Opaleye	*Girella nigricans*		X		
California moray	*Gymnothorax mordax*		X		

Horn shark	*Heterodontus francisci*	X		
Giant kelpfish	*Heterostichus rostratus*	X		
Kelp greenling	*Hexagrammos decagrammus*	X	X	X
Rock greenling	*Hexagrammos lagocephalus*	X	X	X
Rainbow surfperch	*Hypsurus caryi*	X		X
Halfmoon	*Medialuna californiensis*	X		
Ocean sunfish	*Mola mola*	X		
Bat ray	*Myliobatis californica*	X		X
Lingcod	*Ophiodon elongatus*	X	X	X
Senorita	*Oxyjulis californica*	X		X
Painted greenling	*Oxylebius pictus*	X	X	X
Kelp bass, calico bass	*Paralabrax clathratus*	X		
California halibut	*Paralichthys californicus*	X	X	X
Sharpnose surfperch	*Phanerodon atripes*	X		
White surfperch	*Phanerodon furcatus*	X		X
Thornback	*Platyrhinoidis triseriata*	X		
C-o turbot	*Pleuronichthys coenosus*	X		
Plainfin midshipman	*Porichthys notatus*	X		X
Blue shark	*Prionace glauca*	X		
Starry skate	*Raja stellulata*	X		X

Rubberlip surfperch	*Rhacochilus toxotes*	X		X
Pile surfperch	*Rhacochilus vacca*	X		X
Blackeye goby	*Rhinogobiops nicholsii*	X		
California scorpionfish	*Scorpaena guttata*	X		
Cabezon	*Scorpaenichthys marmoratus*	X	X	X
Kelp rockfish	*Sebastes atrovirens*	X	X	X
Brown rockfish	*Sebastes auriculatus*	X	X	X
Gopher rockfish	*Sebastes carnatus*	X	X	X
Copper rockfish	*Sebastes caurinus*	X	X	X
Black and yellow rockfish	*Sebastes chrysomelas*	X	X	
Gopher and black and yellow rockfish young of year	*Sebastes chrysomelas/carnatus* young of year	X		
Calico rockfish	*Sebastes dallii*	X	X	X
Splitnose rockfish	*Sebastes diploproa*	X		
Widow rockfish	*Sebastes entomelas*	X		X
Squarespot rockfish	*Sebastes hopkinsi*	X	X	X
Black rockfish	*Sebastes melanops*	X	X	X
Vermilion rockfish	*Sebastes miniatus*	X	X	X
Blue rockfish	*Sebastes mystinus*	X	X	
China rockfish	*Sebastes nebulosus*	X	X	X

Bocaccio	*Sebastes paucispinis*	X	X	X
Canary rockfish	*Sebastes pinniger*	X	X	X
Grass rockfish	*Sebastes rastrelliger*	X	X	
Rosy rockfish	*Sebastes rosaceus*	X	X	X
Stripetail rockfish	*Sebastes saxicola*	X		
Halfbanded rockfish	*Sebastes semicinctus*	X		X
Olive or yellowtail rockfish	*Sebastes serranoides,flavidus*	X	X	
Olive, yellowtail, and black rockfish young of year	*Sebastes serranoides,flavidus,melanops*	X		
Treefish	*Sebastes serriceps*	X	X	X
California sheephead	*Semicossyphus pulcher*	X	X	X
Spiny dogfish	*Squalus acanthias*	X		
Pacific angel shark	*Squatina californica*	X		
Pacific electric ray	*Tetronarce californica*	X		
Leopard shark	*Triakis semifasciata*	X		
Pink surfperch	*Zalembius rosaceus*	X		X
California lizardfish	*Synodus lucioceps*		X	
Grunion, topsmelt or jacksmelt	*Atherinopsidae* spp		X	
Pacific mackerel, greenback mackerel	*Scomber japonicus*		X	
Ocean whitefish	*Caulolatilus princeps*		X	X

Eastern pacific bonito	*Sarda chiliensis chiliensis*	X	
Quillback rockfish	*Sebastes maliger*	X	X
Scaleyhead sculpin	*Artedius harringtoni*	X	
Rock sole	*Lepidopsetta bilineata*	X	
Starry rockfish	*Sebastes constellatus*	X	X
White croaker	*Genyonemus lineatus*	X	
Barred surfperch	*Amphistichus argenteus*		X
Big skate	*Raja binoculata*		X
Smooth ronquil	*Rathbunella hypoplecta*		X
Flag rockfish	*Sebastes rubrivinctus*		X
Pacific hagfish	*Eptatretus stoutii*		X
Rex sole	*Glyptocephalus zachirus*		X
Spotted ratfish	*Hydrolagus colliei*		X
English sole	*Parophrys vetulus*		X
Longnose skate	*Raja rhina*		X
Greenspotted rockfish	*Sebastes chlorostictus*		X
Greenstriped rockfish	*Sebastes elongatus*		X
Rosethorn rockfish	*Sebastes helvomaculatus*		X
Shortbelly rockfish	*Sebastes jordani*		X
Cowcod	*Sebastes levis*		X

Blue/deacon rockfish	*Sebastes mystinus or diaconus*		X
Tiger rockfish	*Sebastes nigrocinctus*		X
Speckled rockfish	*Sebastes ovalis*		X
Yelloweye rockfish	*Sebastes ruberrimus*		X
Pygmy rockfish	*Sebastes wilsoni*		X
Combfish complex	*Zaniolepis* complex		X
Anthopleura elegantissima; anthopleura sola	*Anthopleura* elegantissima, sola	X	
Articulated corallines		X	
Barnacles		X	
Chitons		X	
Chondracanthus canaliculatus	*Chondracanthus canaliculatus*	X	
Chthamalus dalli; fissus; balanus glandula		X	
Cladophora columbiana	*Cladophora columbiana*	X	
Crustose corallines		X	
Egregia menziesii	*Egregia menziesii*	X	
Endocladia muricata	*Endocladia muricata*	X	
Endarachne spp; petalonia spp; phaeostrophion spp		X	
Fucus distichus	*Fucus distichus*	X	

Stephanocystis spp	*Stephanocystis* spp	X
Pelvetiopsis californica	*Hesperophycus californicus*	X
Limpets		X
Lottia gigantea	*Lottia gigantea*	X
Mastocarpus spp	*Mastocarpus* spp	X
Mazzaella affinis	*Mazzaella affinis*	X
Mazzaella spp	*Mazzaella* spp	X
Mytilus californianus	*Mytilus californianus*	X
Mytilus trossulus; galloprovincialis; edulis	*Mytilus* spp	X
Neorhodomela larix	*Neorhodomela larix*	X
Non-coralline crusts		X
Other algae; other plants		X
Other brown algae		X
Other green algae		X
Other invertebrates		X
Other red algae		X
Other substrate		X
Pelvetiopsis limitata	*Pelvetiopsis limitata*	X
Phragmatopoma spp; sabellaria spp		X

Phyllospadix spp	*Phyllospadix* spp	X
Pisaster ochraceus	*Pisaster ochraceus*	X
Pollicipes polymerus	*Pollicipes polymerus*	X
Pyropia spp	*Pyropia*	X
Sargassum muticum	*Sargassum muticum*	X
Scytosiphon spp; melanosiphon spp		X
Semibalanus cariosus	*Semibalanus cariosus*	X
Mytilisepta bifurcata; b rachidontes adamsianus		X
Silvetia compressa	*Silvetia compressa*	X
Tetraclita rubescens	*Tetraclita squamosa*	X
Ulva spp; kornmannia spp; monostroma spp		X

Table S5 | *Indicators of human use evaluated in this paper. The bolded metric indicates the metric used in the scorecard analysis.*

Indicator and source	Description	Metrics
MPA Watch (www.mpawatch.org)	Recreation: MPA Watch is a community science program that trains volunteers to observe and collect data on human uses of protected areas (MPA Watch, 2022a). Volunteers use a standardized survey protocol (MPA Watch, 2022b) to record consumptive (e.g., fishing) and non-consumptive (e.g., surfing, boating, tidepooling, running, etc.) activities occurring offshore and onshore of coastal sampling sites.	**(1) the median number of activities observed per hour for surveys in which activities were observed (i.e., zeroes excluded);** (2) percent of surveys in which an activity was observed
iNaturalist (www.inaturalist.org)	Recreation/education: iNaturalist is a web- and app-based platform that allows observers to submit wildlife photos for identification by amateur and professional naturalists (iNaturalist, 2022).	**(1) number of iNaturalist users who submitted observations**; (2) number of submitted observations
eBird (www.ebird.org)	Recreation/education: eBird is a global citizen science program that collates observations of birds submitted by birdwatchers (eBird, 2022).	**(1) number of eBird users who submitted observations;** (2) number of submitted observations
REEF (www.reef.org)	Recreation/education: REEF is an international marine conservation organization that trains volunteer divers and snorkelers to collect and report information on marine fish and selected invertebrate and algae species (REEF, 2022).	**(1) number of surveys conducted;** (2) number of years in which a survey was conducted
Scientific permits (CA Dept. Fish & Wildlife)	Scientific research: Permits issued by CDFW for scientific research provide an indicator of scientific research activity throughout California's MPA network.	**(1) number of permits issued;** (2) number of years in which permits were issued.

Law enforcement citations (CA Dept. Fish & Wildlife)	Non-compliance: Regulatory citations from CDFW's Law Enforcement Division provide an indicator of where non-compliance occurs throughout California's MPA network.	**(1) number of citations issued;** (2) number of years in which citations were issued.

Table S5 | *List of explanatory variables included in the full logistic model. *denotes inclusion in the reduced best-fit model. **denotes significance in the reduced model.*

Variable
Population density (no. people living within 50 km)
MPA size (km^2)*
Shore span (km)
Take allowed (yes/no; take of any kind)**
MPA age
Park density (no. state and county parks within 1 km) **
Park area (total area of state and county parks)*
Number of parking lots*
Number of picnic areas

MPA within national marine sanctuary

Distance to nearest port

Nearest port size (very small, small, medium, large, very large)

Sandy beach extent (km)**

Rocky intertidal extent (km)

Estuary area (km^2)*

Depth range (m)

Max kelp canopy (km^2)

Fish diversity (Shannon-Wiener)

Total fish biomass

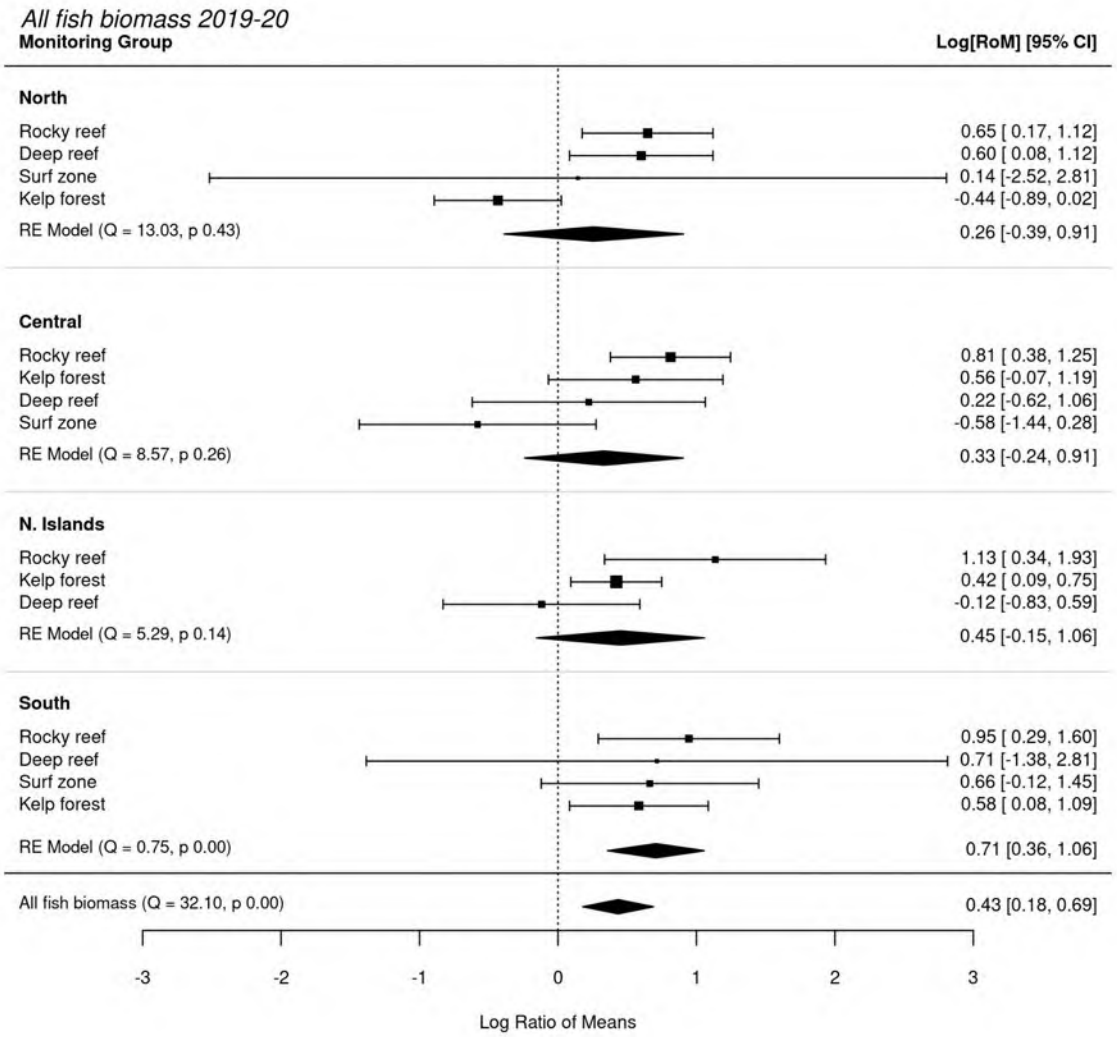

Figure S1 | *All fish biomass response ratios across habitat monitoring groups. Each point depicts the log response ratio (SMR/reference) for a single habitat monitoring group across the 2019-20 sampling period and point sizes are scaled to their relative contribution to the regional pooled effect (across habitats; black diamond). Error bars represent 95% confidence intervals surrounding the response ratio. The vertical dashed line indicates a non-significant effect - where there is no difference in biomass between no-take MPAs and reference sites. Therefore, points with whiskers that do not overlap the line are statistically significant. Similarly, the edges of the pooled effect diamonds represent 95% confidence regions. Finally, each region includes results from a random effects model (RE Model) evaluating the significance of the pooled effect size.*

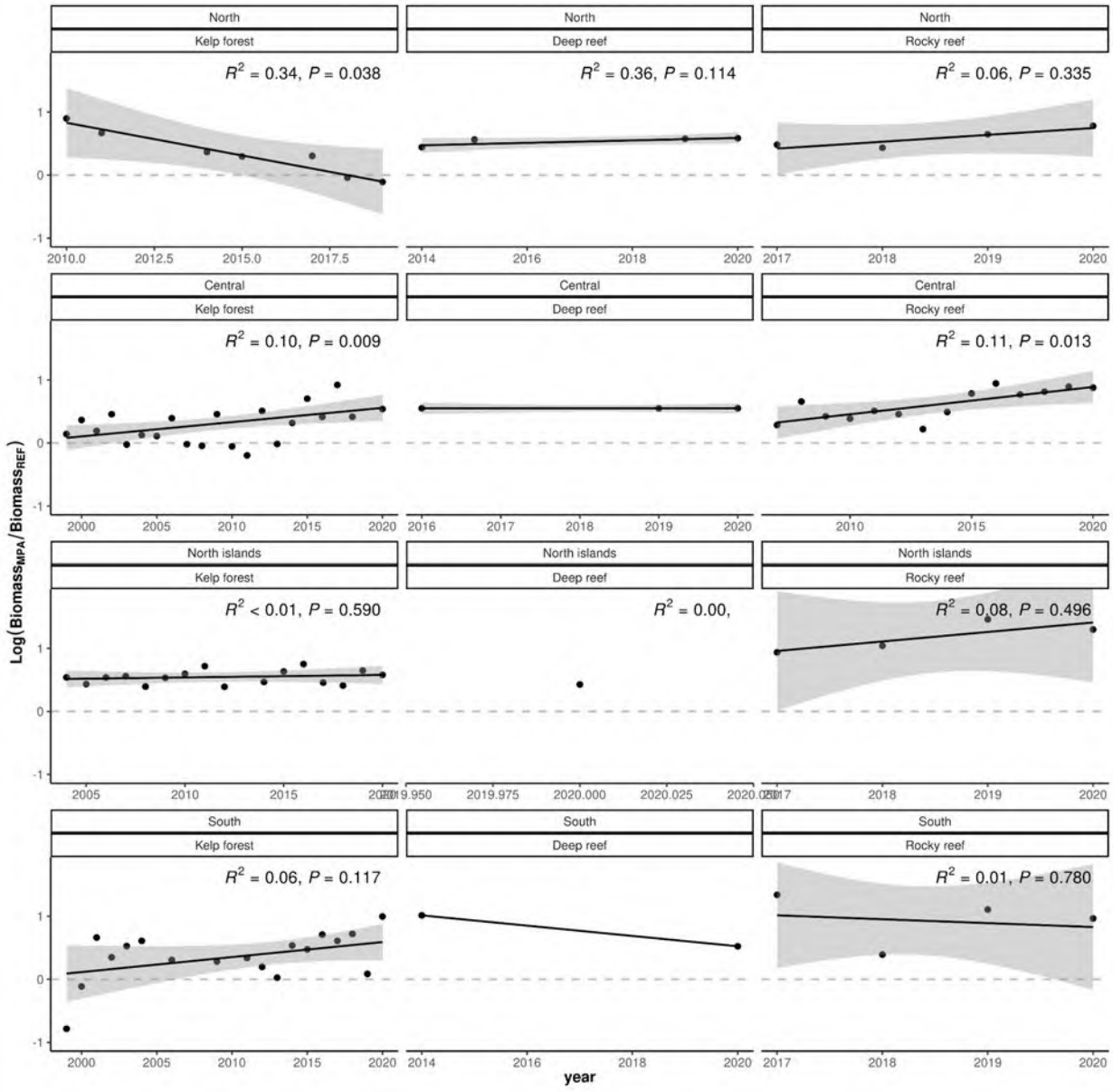

Figure S2 | *Targeted fish biomass response ratios by monitoring group and region. Each point depicts the response ratio averaged over all MPAs sampled within a given year. Regression lines depict the trends over time with 95% confidence intervals shaded in grey.*

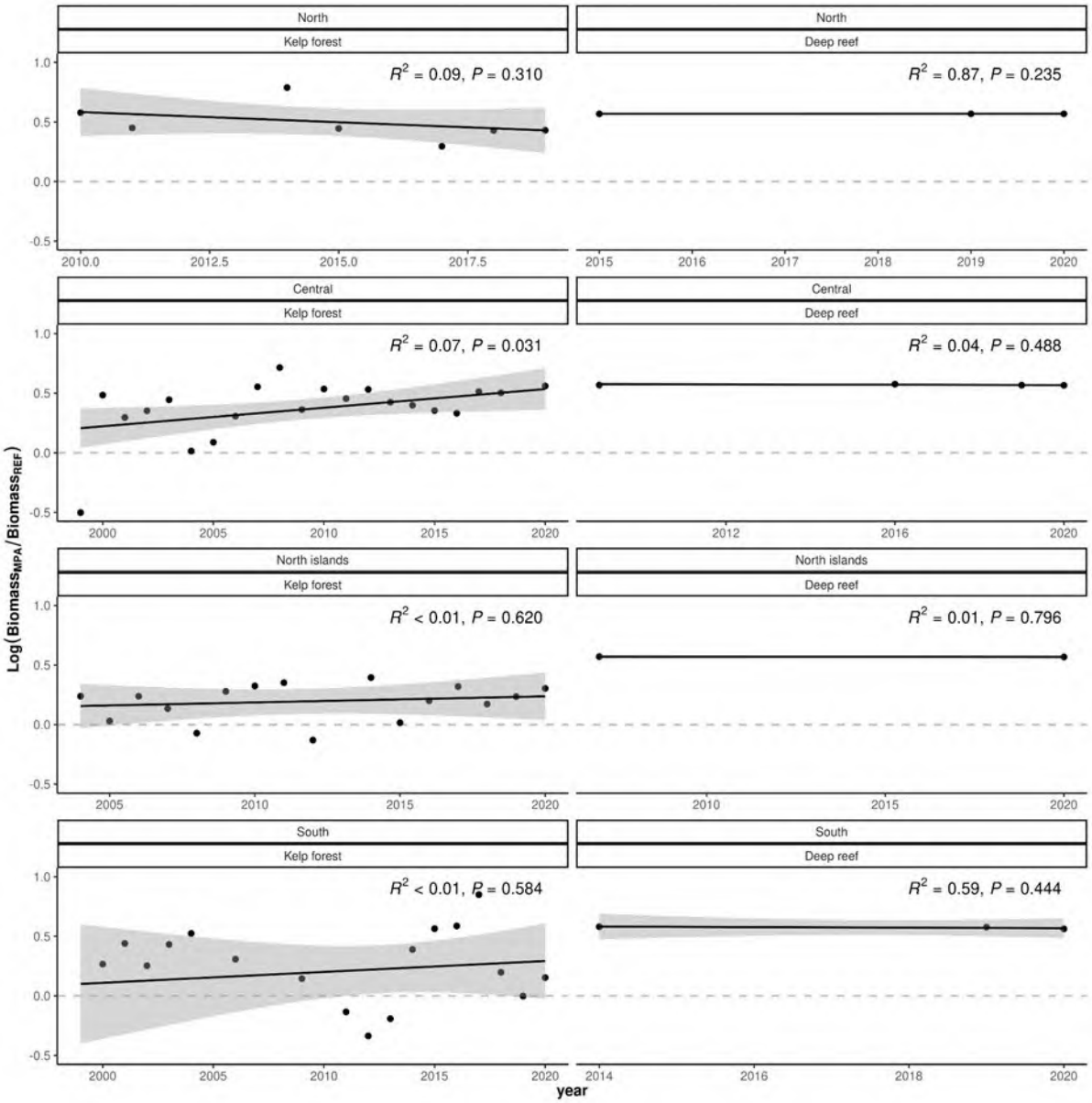

Figure S3 | *Nontargeted fish biomass response ratios by monitoring group and region. Each point depicts the response ratio averaged over all MPAs sampled within a given year. Regression lines depict the trends over time with 95% confidence intervals shaded in grey.*

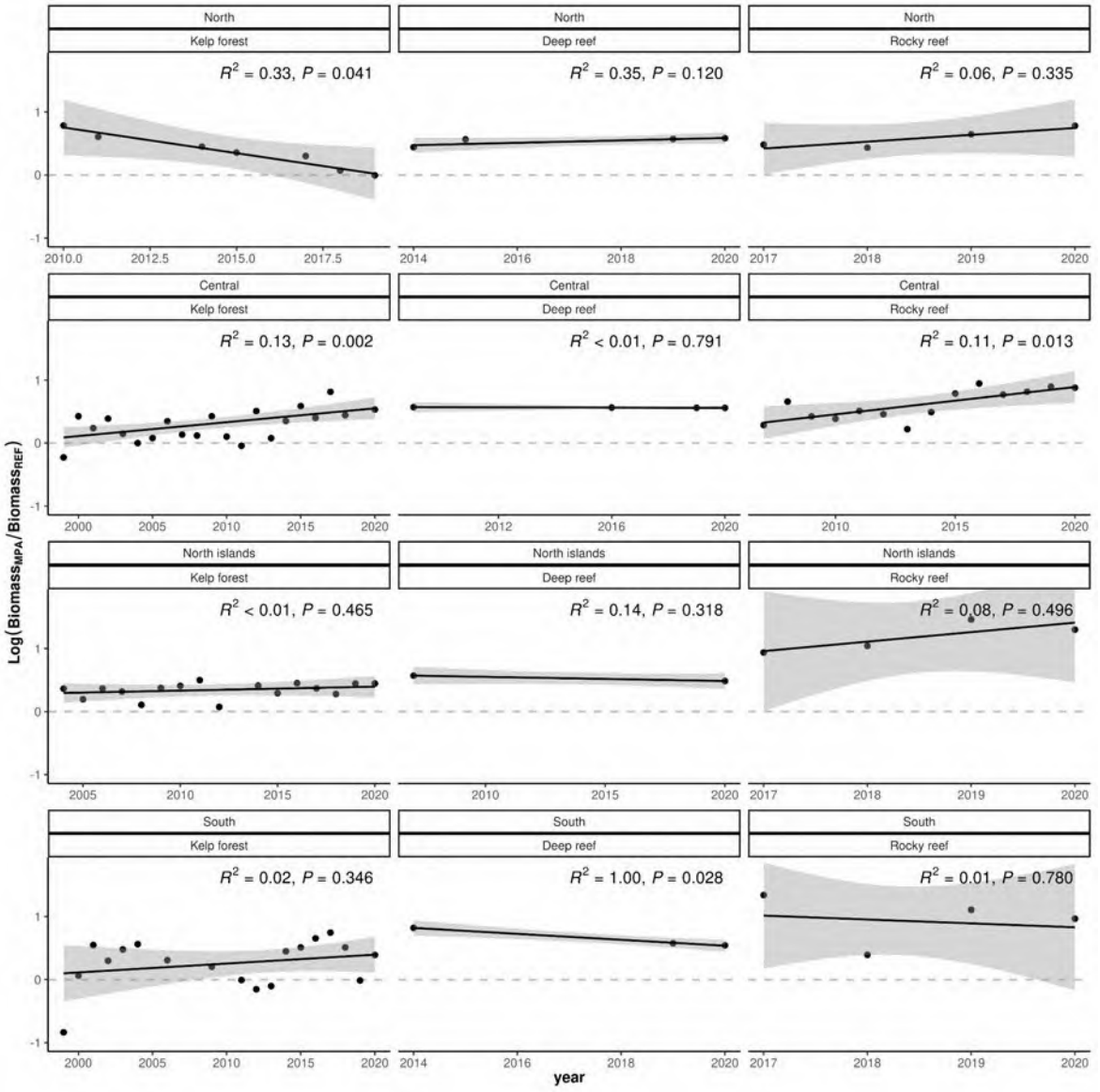

Figure S4 | *Total fish biomass response ratios by monitoring group and region. Each point depicts the response ratio averaged over all MPAs sampled within a given year. Regression lines depict the trends over time with 95% confidence intervals shaded in grey.*

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From: Patrick Spalding <[redacted]>
Sent: Wednesday, April 22, 2026 12:53 PM
To: FGC <FGC@fgc.ca.gov>
Subject: Opposition to Petition 2023-23 MPA_AM1

Dear Commission,

I appreciate your work and thank you for giving me the opportunity to engage in the discussion about the best ways to protect our precious ocean resources. My name is Patrick Spalding, I am a father, husband, educator and diver. For the last 16 years I have been harvesting fish from the SMCAs located in Monterey, Pacific Grove and Carmel via freedive spearfishing. I urge the Commission to deny Petition 2023-23 and oppose upgrading existing SMCAs to SMRs or creating new SMRs in the Monterey and Carmel area. There are several reasons for this:

(1) The Monterey/Carmel area is already highly regulated, with several existing no-take areas

(2) The Petitioner's state goal of encouraging kelp restoration and the means of achieving it, eliminating the take of fin fish in designated areas, are tenuously connected at best. It is not surprising that they have offered no scientific evidence of a causal relationship between the rejuvenation of kelp and the take of fin fish.

(3) The likely benefits to kelp restoration caused by the Petition are questionable and run a strong risk of producing little to no return. The damage done to the Community by the Petitioner's proposal will be significant and immediate. Over 100,000 residents will be denied responsible use of a resource they have had for generations.

Therefore, I encourage you to follow the DFW recommendation and deny Petition 2023-23. Thank you for your time and consideration .

Take care,

Patrick Spalding