# 28. Regulation Change Petitions - Marine

#### **Today's Item**

Information

Action 🖂

This is a standing agenda item for the Commission to receive new regulation change petitions and act on regulation change petitions received from the public at previous meetings. For this meeting:

- 1. Act on previously received regulation change petitions
- 2. Receive new petitions for regulation change
- 3. Receive comments on petitions previously-referred for review and recommendation but not yet scheduled for action, including an update on received amended petitions for modifications to marine protected areas (MPAs).

#### **Summary of Previous/Future Actions**

#### (A) **Petitions for Regulation Change – Scheduled for Action**

- Received Petition 2025-1
   Today potentially act on Petition 2025-1
   February 12-13, 2025
   April 16-17, 2025
- (B) New Petitions for Regulation Change Receipt

Today receive new petitions.	April 16-17, 2025
<ul> <li>Potentially act on new petitions</li> </ul>	June 11-12, 2025

(C) Comments Received on Referred Petitions

#### Background

# (A) Action on Previously Received Regulation Change Petitions

Petitions received at the previous meeting are scheduled for Commission action at its next regular Commission meeting, to (1) deny, (2) grant, or (3) refer to a Commission committee, staff, or the Department for further evaluation or information gathering. Referred petitions are scheduled for action once a recommendation is received.

Today, one regulation change petition is scheduled for action:

I. Petition 2025-01: Request to amend methods of recreational take of limpets (Exhibit A2)

The staff recommendation and rationale, developed with input from Department staff, is provided in Exhibit A1.

# (B) Receive New Petitions for Regulation Change

Pursuant to Section 662, any person requesting that the Commission adopt, amend, or repeal a regulation must complete and submit form FGC 1. Regulation change petition forms submitted by the public are "received" at this Commission meeting if they are

delivered by the public comment or supplemental comment deadlines or delivered in person to the Commission meeting.

Under the Bagley-Keene Open Meeting Act, the Commission cannot discuss or act on any matter not included on the agenda, other than determine whether to schedule issues raised by the public for consideration at future meetings. Thus, petitions for regulation change generally follow a two-meeting cycle of receipt and decision. The Commission will act on petitions received at today's meeting at the next regularly scheduled Commission meeting (currently June 11-12, 2025), following staff evaluation, unless the petition is rejected under the 10-day staff review as prescribed in subsection 662(b).

Today, there are no new marine petition(s) for regulation change; however, amendments to five MPA petitions currently under review were received and are detailed under part (C) of this item.

#### (C) Referred Petitions

#### Comments on Referred Petitions

This item is for receiving public comments for any petition previously referred for review and recommendation but not yet ready for Commission action. Action on any referred petition will be scheduled once the Commission receives a recommendation.

# Marine Protected Area (MPA) Petitions Currently Under Review: Amended MPA Petitions

Following the Commission's action on five MPA petitions in December 2024 ("bin 1"), staff is providing an update on the remaining 15 pending MPA petitions ("bin 2"). The Commission allowed the 15 MPA petitioners to submit amended versions of original petitions, setting deadlines of January 10, 2025 for submission of statements of intent to amend and March 14, 2025 for submission of final amendments.

In February 2025, staff reported having received three amended petitions and six statements of intent to amend (details available in the <u>February Commission Meeting</u> <u>staff summary</u>).

#### Update

Of the six petitions with statements of intent, four submitted amended MPA petitions by the deadline, one with an extension to March 26 to allow for tribal input (those petition tracking numbers have been appended with "AM 1"). Additionally, one amended petition received by the January deadline was resubmitted with clarifying revisions (the petition tracking number has been appended with "AM2"). The amended petitions are included as exhibits.

Therefore, a total of seven amended MPA petitions were received and are the versions that will be reviewed by the Department and Commission. Each petitioner submitted a summary of, and rationale for, their amendments. In addition, petitioners resubmitted their original Form FGC1 with the changes from the original MPA petition indicated with strikethrough and underlined text to assist in identifying what was changed. The seven petitions, as amended, are:

- Petition 2023-23MPA\_AM1 (exhibits C3, C4)
- Petition 2023-27MPA\_AM1 (exhibits C5, C6)
- Petition 2023-15MPA\_AM2 (exhibits C7, C8)
- Petition 2023-24MPA\_AM1 (exhibits C9, C10)
- Petition 2023-28MPA\_AM1 (exhibits C11, C12)
- Petition 2023-29MPA\_AM1 (exhibits C13, C14)
- Petition 2023-33MPA\_AM1 (exhibits C15, C16)

Exhibit C1 summarizes the seven amended bin 2 petitions, separated into each distinct proposed action, and identifies which proposed actions were amended. In total, the seven petitions collectively include 16 actions that were amended by the petitioners. Petitioners for the seven petitions with amendments were given an opportunity to review the table for accuracy; additional edits may be necessary.

The Department is in the process of integrating the petition amendments into its online <u>MPA Petition Process StoryMap</u>.

#### Next Steps for Review of Referred MPA Petitions

Exhibit C2 is a table of all bin 2 petitions, separated into distinct proposed actions, with the amendments submitted by petitioners fully incorporated. This table reflects the versions of the petitioned actions that will undergo evaluation by the Department.

At its February meeting, the Commission indicated its interest in potential additional meeting dates to jointly review MPA petition evaluations and recommendations in a committee-style format (similar to a legislative "committee of the whole"), to allow for more informal discussion and deliberation amongst commissioners about the complex evaluations and important decisions regarding MPA petitions. The Commission requested that staff provide potential meeting dates adjoining Commission meetings either late in 2025, or early 2026, to follow Department release of petition evaluations and recommendations currently proposed for the November MRC meeting (see Agenda Item 30A, MRC). Staff is exploring the feasibility of different dates and will bring options to today's meeting.

#### **Significant Public Comments**

#### (C) Referred Petitions

- 1. 2023-24MPA\_AM1: The petitioner summarizes their amendments, proposed evaluation criteria aligned with the Marine Life Management Act (MLMA) master plan, highlighted their connection to the Laguna MPAs (including their Handicapped Scuba Project), and invited staff and commissioners to visit (Exhibit C17).
- 2023-28MPA\_AM1: The Santa Barbara Community Action Network (SBCAN) (Exhibit C18) and the mayor of the City of Guadalupe (Exhibit C19) express strong support for the proposed Point Sal State Marine Reserve (SMR). SBCAN emphasizes marine life protection; its cultural significance for local indigenous communities; its benefits for

wildlife viewing, ecotourism, and the local economy; and the MPA's potential role in ocean health and climate resilience. The mayor specifically highlights the importance of protecting biodiversity at Point Sal for future generations and of the Chumash people's connection to the location.

- 3. 2023-29MPA\_AM1:
  - a. Two Carpinteria residents, one a graduate student at UC Santa Barbara specializing in benthic ecosystem research, oppose the proposed MPA for Carpinteria Reef. They argue it is the closest accessible shore fishing spot for people without boats, cite a lack of scientific justification for MPA designation, question the need for added protection for juvenile white sharks already illegal to harvest, and dispute the potential for spillover effects due to the lack of fishable adjacent areas and uncertain larval transport due to currents. Finally, they highlight its disproportionate impact on underrepresented communities, contending the MPA would negatively impact low-income families by limiting shore fishing access. They also disagree that increasing Native American access requires excluding the public (exhibits C20 and C21).
  - b. California Surf Fishing expresses support for Mishopshno State Marine Conservation Areas (SMCA) after engaging with petition co-sponsors and Fish On, another fishing advocacy organization. They also engaged Carpinteria shore anglers and obtained around 1,000 signatures online from anglers in support of shore fishing in SMCAs. They support the petition, as it meets connectivity guidelines, would allow low-impact fishing, and has the potential to strengthen the state's MPA network (Exhibit C23).
- 4. 2023-33MPA\_AM1: A surf fisher opposes the proposed Cabrillo SMR expansion, stating it would eliminate a valuable shore fishing location, one of the few productive ones in the region. While generally supporting MPAs, they suggest moving the boundary southward by 1.5 miles to preserve this shore fishing spot, emphasizing the importance of shore fishing for equity, its minimal environmental impact, and angler quality of life (Exhibit C22).
- 5. 2023-15MPA\_AM2: The petitioner advocates for a standardized evaluation process for all MPA petitions using the MLPA Master Plan for MPAs framework. The petitioner highlights the master plan's measurable regional objectives, structured under the MLPA's six goals, and notes support from various organizations endorsing its adaptive management approach. To illustrate this framework's use, the petitioner analyzes their own petition against relevant south coast regional objectives, arguing the analysis demonstrates that it aligns with master plan goals. This analysis was also provided to the MRC in March (Exhibit C24).

#### Recommendation

#### Commission staff:

(A) Action on Previously Received Regulation Change Petitions Deny Petition 2025-01 for reasons set forth in Exhibit A1.

#### (C) Referred Petitions

Receive and discuss potential meeting dates in late 2025 or early 2026 (to be proposed by staff during today's meeting) for the Commission to review MPA petition evaluations and recommendations, using a committee-style format, after Department release. Schedule dates, if any, under Agenda Item 31(C) Future Meetings.

#### Exhibits

- A1. Summary of petition for regulation change scheduled for action, and recommendation
- A2. Petition 2025-01, recreational take of limpets, received January 15, 2025.

#### Amended MPA Petitions and Petitioners Summary Statements

- C1. Summary of the seven amended MPA petitions in bin 2, separated into discrete action items, with proposed actions and amendment justifications as stated by the petitioner, dated April 10, 2025
- C2. Summary of all bin 2 MPA petitions, separated into discrete action items and updated to incorporate amendments submitted by petitioners, with the proposed actions and justifications as stated by the petitioner, dated April 10, 2025
- C3. Petition 2023-23MPA\_AM1, received January 13, 2025
- C4. Overview of Petition 2023-23MPA\_AM1 from Keith Rootsaert, Giant Giant Kelp Restoration, January 13, 2025
- C5. Petition 2023-27MPA\_AM1, received January 17, 2025
- C6. <u>Overview of Petition 2023-27MPA\_AM1 from Azsha Hudson, Environmental Defense</u> <u>Center (EDC), January 17, 2025</u>
- C7. Petition 2023-15MPA\_AM2, updating version AM1, received March 14, 2025
- C8. Overview of Petition 2023-15MPA\_AM2 from Blake Hermann, March 14, 2025
- C9. Petition 2023-24MPA\_AM1, received March 11, 2025
- C10. Overview of Petition 2023-24MPA\_AM1 from Mike Beanan, Laguna Bluebelt Coalition, March 11, 2025
- C11. Petition 2023-28MPA\_AM1, received March 14, 2025
- C12. Overview of Petition 2023-23MPA\_AM1 from Sandy Aylesworth and Bella Sullivan, National Resource Defense Council (NRDC), received March 14, 2025
- C13. Petition 2023-29MPA\_AM1, received March 26, 2025
- C14. Overview of Petition 2023-29MPA\_AM1 from Sam Cohen, Santa Ynez Band of Chumash Indians, Azsha Hudson, EDC, and Sandy Aylesworth, NRDC, received March 26, 2025
- C15. Petition 2023-33MPA\_AM1, received March 14, 2025
- C16. Overview of Petition 2023-33MPA\_AM1 from Laura Deehan, Environment California, and Marcella Gutiérrez-Graudinš, Azul, received March 14, 2025

#### **Comments on Referred MPA Petitions**

C17. Letter from Mike Beanan, Laguna Bluebelt Coalition, received March 14, 2025

# Staff Summary for April 16-17, 2025

- C18. Letter from Jeanne Sparks, SBCAN, received March 13, 2025
- C19. Letter from Ariston Julian, Mayor, City of Guadalupe, received April 3, 2025
- C20. Email from William Ray, graduate student at UCSB and Carpinteria resident, received March 16, 2025
- C21. Email from Kyle Murphy, Carpinteria resident, received March 16, 2025
- C22. Email from Brian Radibratovic, surf fisher, received March 12, 2025
- C23. Email from Kaspar Kazazian, California Surf Fishing, received March 1, 2025
- C24. Letter from Blake Hermann, received February 26, 2025

#### Motion

Moved by \_\_\_\_\_ and seconded by \_\_\_\_\_ that the Commission adopts the staff recommendation to deny Petition 2025-01.

#### OR

Moved by \_\_\_\_\_\_ and seconded by \_\_\_\_\_\_ that the Commission adopts the following action for Petition 2025-01: \_\_\_\_\_.

# California Fish and Game Commission Petitions for Regulation Change — Action (updated April 1, 2025)

CFGC - California Fish and Game Commission CDFW - California Department of Fish and Wildlife WRC - Wildlife Resources Committee MRC - Marine Resources Committee , MR - Marine Region Grant: CFGC is willing to consider the petitioned action through a process Deny: Not willing to consider the petitioned action Refer: Need more information before the final decision

Tracking	Date	Name of	Short	CFGC	CFGC Initial	Initial Staff Recommendation
No.	Received	Petitioner	Description	Receipt	Action Date	
2025-01	1/16/2025		Modify language to allow a flexible blade or knife, e.g. "putty knife" for take of limpets	2/12- 13/2025		DENY: The proposed method may support harvest effectiveness and also may increase harvest efficiency, raising concerns regarding potential impacts on limpet populations and the sustainability of harvest levels. The increase in number of people harvesting from the intertidal zone, which has continued since the COVID pandemic, coupled with the potential for a more efficient harvesting method, creates a heightened risk of unsustainable take. Currently, there is insufficient data on the population status of harvested limpet species to assess the risk or determine whether the existing daily bag limit of 35 individuals remains appropriate. Given these constraints and the potential for increased harvest pressure, a precautionary approach is warranted.



Tracking Number: (\_2025-01

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 (Required) Name of primary contact person: Cheryl Wilen 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, 219, 265 and 275, Fish and Game Code. Reference: Sections 200, 205, 255, 265, 270 and 275, Fish and Game Code.
- **3. Overview (Required) -** Summarize the proposed changes to regulations: Replace "hook-and-line" with "**flexible blades or knife, e.g. putty knife**". This is requested specifically for limpets.
- 4. Rationale (Required) Describe the problem and the reason for the proposed change: Mollusks Abalone, clams, scallops, mussels, etc. 14 CCR § 29.10. General. (a) Except as otherwise provided in this article, saltwater mollusks, including octopus, may be taken only on hook-and-line or with the hands." be modified to allow the use of flexible blades, e.g. putty knife, to collect limpets.

As you know, there is no way to collect them using a hook and line and collecting by hand is quite dangerous as one must hit them with their hand in a very specific way to get them to disengage with the rocks. One wrong hit and the collector can fall into the ocean or hard onto slippery rocks. Use of flexible knives is safer and less likely to damage the substrate. Keeping the collection limit at 35/day will ensure that the area is not overfished.

**SECTION II: Optional Information** 



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 2 of 3

# 5. Date of Petition: January 15, 2025

# 6. Category of Proposed Change

- □ Sport Fishing
- Commercial Fishing
- □ Hunting

X Other, please specify: California Recreational Ocean Fishing Regulations General Ocean Invertebrate Fishing Regulations

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

X Amend Title 14 CCR § 29.10 Section(s) Mollusks Abalone, clams, scallops, mussels, etc. General. (a) Except as otherwise provided in this article, saltwater mollusks, including octopus, may be taken only on hook-and-line or with the hands

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 X 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: Click here to enter text.
- **10. Supporting documentation:** Identify and attach to the petition any information supporting the proposal including data, reports and other documents: Click here to enter text.
- **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: None
- **12. Forms:** If applicable, list any forms to be created, amended or repealed:

Click here to enter text.

# SECTION 3: FGC Staff Only

Date received: 01/16/2025

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:



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 3 of 3

FGC action:

Denied by FGC
 Denied - same as petition

Tracking Number

Granted for consideration of regulation change

# California Fish and Game Commission Table 1: Amended Marine Protected Area (MPA) Petitions for Regulation Change (Bin 2) *April 10, 2025*

# Background

In December 2023, the California Fish and Game Commission (Commission) received 20 MPA petitions. Seventeen of the 20 petitions bundled multiple requested MPA changes (both regulatory and non-regulatory) into single documents. In total, the 20 petitions included 86 individual proposed changes. At the February 2024 Commission meeting, Commission and California Department of Fish and Wildlife (CDFW) staff provided a table that itemized the individual proposed changes by petition (<u>link to February 2024 summary table found here</u>). Each individual request was assigned a unique tracking ID associated with the petition number and summarized into a summary table containing all petitions. The table partitioned discrete unique action requests and categorized them by affected MPA, bioregion, Marine Life Protection Act (MLPA) action category (modify, establish, or abolish), action type (e.g., boundaries, take, classification), proposed action, and the justification as stated by the petitioner. The Commission petition tracking number and the unique action request numbers were combined into one category, titled "Tracking ID."

Petitions were sorted into two categories, or "bins": Bin 1 contained petitions identified for immediate evaluation and Bin 2 contained petitions for which additional information was necessary before evaluating. Bin 1 petitions were evaluated by the Department in 2024, and the Commission acted on all Bin 1 petitions in December 2024. During the December meeting, the Commission also offered Bin 2 petitioners an opportunity to submit amendments to their petition by March 14, 2025. These were received at the Commission's February and April 2025 meetings. This document provides updates to the original February 2024 summary table by integrating amendments submitted by petitioners for Bin 2 petitions.

- **Bin 2 Petitions:** There are 15 MPA petitions that were sorted into the Bin 2 category. The 15 Bin 2 petitions collectively include 69 proposed unique actions; including 50 regulatory requests and 19 non-regulatory requests for changes.
- Amended Bin 2 Petitions: In total, seven of the 15 Bin 2 petitions were amended by petitioners. The seven petitions collectively include 39 proposed unique actions; 16 of the 39 proposed unique actions were amended.
- **Table 1 (this document):** Table 1 summarizes all actions in amended petitions and highlights changes to actions proposed in amendments.
- **Table 2 (separate document):** Table 2 provides the current list of Bin 2 petitions, incorporating the amendments as the versions that will be evaluated by CDFW.

Select acronyms: SMCA = state marine conservation area, SMR = state marine reserve, DMR = decadal management review, SCP = scientific collecting permit

# Table 1. Amended Bin 2 MPA Petitions Itemized by Individual Actions

Table 1 summarizes amended Bin 2 MPA petitions by individual actions. Only updated action items have had their tracking ID updated with an "AM1" or "AM2" at the end. Note, there was only one "AM2" assigned (2023-15 AM1 was resubmitted as AM2 to make minor clarifications of language). Alterations from original petitions are marked in <u>red with underline</u>. Deleted language from original petitions are marked with strikethrough. Language included in the original petition but not specified in original February 2024 summary table is in <u>black underline</u>.

The table column titled Amendment Justification Stated by the Petitioner provides a summary of information provided by petitioners. For complete information on the petitioner's justification for the amendments, including outreach, please refer to individual petitions and cover letters (provided as exhibits in Item 28 materials, April 2025 Commission meeting).

Tracking ID (Petition #- unique action- and "AM" if amended)	Petitioner	Unique Action Amend- ed	Affected MPA	Bio- Region	MLPA Action Categor y	Action Type	Proposed Action	Amendment Justification Stated by Petitioner/ Summarized by Staff
2023-15MPA_1 _ <u>AM2</u>	Blake Hermann	Yes	Footprint SMR	South	Modify	Classification/ Take	Reclassify SMR to SMCA to allow either the limited take of highly migratory species (HMS) and possession of coastal pelagic species, or the take of pelagic finfish via four six options. Options include various combinations of methods of take, including: Hook-and-line, spear, surface fishing, harpoon (swordfish only), and deep set buoy gear options to prohibit "bottom-contact gear" (see petition for specific options).	Offer modified take combinations to align with federal essential fish habitat gear restrictions, offer simplified take combinations, and remove gear type disallowed in state waters and account for feasibility guidelines.

Tracking ID (Petition #- unique action- and "AM" if amended)	Petitioner	Unique Action Amend- ed	Affected MPA	Bio- Region	MLPA Action Categor y	Action Type	Proposed Action	Amendment Justification Stated by Petitioner/ Summarized by Staff
2023-15MPA_2 _ <u>AM2</u>	Blake Hermann	Yes	Gull Island SMR	South	Modify	Classification/ Take	Reclassify SMR to an SMCA (or an inshore SMCA or SMR with an offshore SMCA) to allow either the limited take of highly migratory species (HMS) and possession of coastal pelagic species, or the take of pelagic finfish via four six_options. Options include various combinations of methods of take, including: Hook-and-line, <u>spear surface fishing</u> , harpoon ( <u>swordfish only</u> ), and deep set buoy gear options to prohibit "bottom-contact gear" (see petition for specific options).	Offer modified take combinations to align with federal essential fish habitat gear restrictions, offer simplified take combinations, and remove gear type disallowed in state waters, and account for feasibility guidelines.
2023-15MPA_3 _ <u>AM2</u>	Blake Hermann	Yes	Santa Barbara Island SMR	South	Modify	Classification/ Take	Reclassify SMR to an SMCA (or an inshore SMCA or SMR with an offshore SMCA; modified boundary to be straight line; see page 20) to allow either the limited take of highly migratory species (HMS) and possession of coastal pelagic species, or the take of pelagic finfish via four six options. Options include various combinations of methods of take, including: Hook-and-line, <u>spear surface fishing</u> , harpoon ( <u>swordfish only</u> ), and <del>deep sot</del> <del>buoy gear</del> <u>options to prohibit</u> "bottom-contact gear" (see petition for specific options).	Offer modified take combinations to align with federal essential fish habitat gear restrictions, add simplified take combinations, remove gear type disallowed in state waters, and account for feasibility guidelines.

Tracking ID (Petition #- unique action- and "AM" if amended)	Petitioner	Unique Action Amend- ed	Affected MPA	Bio- Region	MLPA Action Categor y	Action Type	Proposed Action	Amendment Justification Stated by Petitioner/ Summarized by Staff
2023-23MPA_1 _ <u>AM1</u>	Keith Rootsaert, Giant Giant Kelp Restoration Project (G2KR)	Yes	Edward F. Ricketts SMCA	Central	Modify	Classification/ Take	Reclassify SMCA to an SMR to prohibit take Prohibit recreational and commercial take of finfish when a petitioner-proposed "kelp restoration management permit" is active.	Limit fishing restrictions to only when kelp restoration is underway to avoid gear and use conflicts, based on fishermen feedback.
2023- 23MPA_2	Keith Rootsaert, G2KR	No	Edward F. Ricketts SMCA	Central	Modify	Take	Allow unlimited urchin removal	N/A
2023- 23MPA_3	Keith Rootsaert, G2KR	No	Edward F. Ricketts SMCA	Central	Modify	<u>Non-</u> regulatory	Allow out-planting kelp on the reef without an SCP	N/A
2023- 23MPA_4	Keith Rootsaert, G2KR	No	Edward F. Ricketts SMCA	Central	Modify	<u>Non-</u> regulatory	Scientific collecting permit s/restoration: Allow spore dispersal by sporophyte bags without an SCP	N/A
2023- 23MPA_5	Keith Rootsaert, G2KR	No	Edward F. Ricketts SMCA	Central	Modify	<u>Non-</u> regulatory	Allow pruning kelp canopy to promote growth and resilience to storms without an SCP.	N/A
2023-23MPA_6 _ <u>AM1</u>	Keith Rootsaert, G2KR	Yes	Pacific Grove Marine Gardens SMCA	Central	Modify	Classification/ Take	Reclassify SMCA to an SMR to prohibit take Prohibit recreational and commercial take of finfish when an petitioner-proposed "kelp restoration management permit" is active.	Limit fishing restrictions to only when kelp restoration is underway to avoid gear and use conflicts, based on fishermen feedback.

Tracking ID (Petition #- unique action- and "AM" if amended)	Petitioner	Unique Action Amend- ed	Affected MPA	Bio- Region	MLPA Action Categor y	Action Type	Proposed Action	Amendment Justification Stated by Petitioner/ Summarized by Staff
2023- 23MPA_7	Keith Rootsaert, G2KR	No	Pacific Grove Marine Gardens SMCA	Central	Modify	Take	Allow unlimited urchin removal	N/A
2023- 23MPA_8	Keith Rootsaert, G2KR	No	Pacific Grove Marine Gardens SMCA	Central	Modify	<u>Non-</u> regulatory	Allow pruning kelp canopy to promote growth and resilience to storms without an SCP	N/A
2023- 23MPA_9	Keith Rootsaert, G2KR	No	Pacific Grove Marine Gardens SMCA	Central	Modify	<u>Non-</u> regulatory	Allow out-planting kelp on the reef without an SCP.	N/A
2023- 23MPA_10	Keith Rootsaert, G2KR	No	Pacific Grove Marine Gardens SMCA	Central	Modify	<u>Non-</u> regulatory	Scientific Collecting Permits/Restoration: Allow spore dispersal by sporophyte bags without an SCP.	N/A
2023-23MPA_11 _ <u>AM1</u>	Keith Rootsaert, G2KR	Yes	Carmel Bay SMCA	Central	Modify	Classification/ Take	Reclassify SMCA to an SMR to prohibit take Prohibit recreational and commercial take of finfish when an petitioner-proposed "kelp restoration management permit" is active.	Limit fishing restrictions to only when kelp restoration is underway to avoid gear and use conflicts, based on fishermen feedback.
2023- 23MPA_12	Keith Rootsaert, G2KR	No	Carmel Bay SMCA	Central	Modify	Take	Allow unlimited urchin removal	N/A

Tracking ID (Petition #- unique action- and "AM" if amended)	Petitioner	Unique Action Amend- ed	Affected MPA	Bio- Region	MLPA Action Categor y	Action Type	Proposed Action	Amendment Justification Stated by Petitioner/ Summarized by Staff
2023- 23MPA_13	Keith Rootsaert, G2KR	No	Carmel Bay SMCA	Central	Modify	<u>Non-</u> regulatory	Allow pruning kelp canopy to promote growth and resilience to storms without an SCP.	N/A
2023- 23MPA_14	Keith Rootsaert, G2KR	No	Carmel Bay SMCA	Central	Modify	<u>Non-</u> regulatory	Allow out-planting kelp on the reef without an SCP.	N/A
2023- 23MPA_15	Keith Rootsaert, G2KR	No	Carmel Bay SMCA	Central	Modify	<u>Non-</u> regulatory	Scientific collecting permit/restoration: Allow spore dispersal by sporophyte bags without an SCP.	N/A
2023- 23MPA_16	Keith Rootsaert, G2KR	No	Point Lobos SMR	Central	Modify	Classification/ Take	Allow unlimited urchin removal.	N/A
2023- 23MPA_17	Keith Rootsaert, G2KR	No	Point Lobos SMR	Central	Modify	<u>Non-</u> regulatory	Allow pruning kelp canopy to promote growth and resilience to storms without an SCP.	N/A
2023- 23MPA_18	Keith Rootsaert, G2KR	No	Point Lobos SMR	Central	Modify	<u>Non-</u> regulatory	Allow out-planting kelp on the reef without an SCP.	N/A
2023- 23MPA_19	Keith Rootsaert, G2KR	No	Point Lobos SMR	Central	Modify	<u>Non-</u> regulatory	Scientific collecting permit/restoration: Allow spore dispersal by sporophyte bags without an SCP.	N/A
2023-23MPA_20 _ <u>AM1</u>	Keith Rootsaert, G2KR	Yes	N/A (New – <u>Tanker's</u> <u>Reef SMR</u> )	Central	Establis h	Establish new MPA	Establish new_Tanker's Reef SMR near Monterey <del>(685 acres, or 1.07 sq mi) <u>(193 acres, or 0.3</u> sq miles)</del>	Size reduced to focus on area of active kelp restoration.
2023- 23MPA_21	Keith Rootsaert, G2KR	No	Not specified	Central	N/A	<u>Non-</u> regulatory	Create regulatory pathway to allow placing of artificial reef structures and sunken ship for recreational diving.	N/A

Tracking ID (Petition #- unique action- and "AM" if amended)	Petitioner	Unique Action Amend- ed	Affected MPA	Bio- Region	MLPA Action Categor y	Action Type	Proposed Action	Amendment Justification Stated by Petitioner/ Summarized by Staff
2023-23MPA_22	Keith Rootsaert, G2KR	No	Not specified	Central	N/A	Non- regulatory	Allow placement of buoys in restoration areas	N/A
2023-23MPA_23	Keith Rootsaert, G2KR	No	Not specified	Central	N/A	Non- regulatory	Develop a framework to evaluate and approve appropriate restoration and mitigation actions within MPAs and MMAs	N/A
2023-23MPA_24 _ <u>AM1</u>	Keith Rootsaert, G2KR	Yes	Not specified	Central	N/A	Non- regulatory	Establish a new process in CDFW's Scientific Collecting Permit Program for restoration permits "kelp restoration management permits" as proposed by petitioner	<u>Update title of proposed</u> permit to clarify its intent
2023-23MPA_25	Keith Rootsaert, G2KR	No	N/A	Central	<u>N/A</u>	Non- regulatory	Consider proposed kelp restoration sites as Giant Giant Kelp Restoration-adopted reefs for continued kelp restoration	N/A
<u>2023-23MPA_26</u>	<u>Keith</u> <u>Rootsaert,</u> <u>G2KR</u>	No	Five MPAs	<u>Central</u>	<u>N/A</u>	<u>Non-</u> regulatory	Allow commercial urchin harvest in MPAs for Restoration	N/A
2023-23MPA_27	<u>Keith</u> <u>Rootsaert,</u> <u>G2KR</u>	<u>No</u>	Five MPAs	<u>Central</u>	<u>N/A</u>	<u>Non-</u> regulatory	Exemption for "Wanton Waste Rule"	N/A

Tracking ID (Petition #- unique action- and "AM" if amended)	Petitioner	Unique Action Amend- ed	Affected MPA	Bio- Region	MLPA Action Categor y	Action Type	Proposed Action	Amendment Justification Stated by Petitioner/ Summarized by Staff
<u>2023-23MPA-</u> <u>28 AM1</u>	<u>Keith</u> <u>Rootsaert,</u> <u>G2KR</u>	<u>Yes</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>Non-</u> regulatory	FGC and the Department promote kelp restoration collaboration on their website and in public outreach.	This is prioritized in California MPA Decadal Management Review, Near-term Priorities (ongoing- 2 years), Recommendation 16 to "Conduct more targeted outreach to specific audiences to connect stakeholders with coastal resources and to encourage stewardship and compliance with regulations."
2023-24MPA_1 _ <u>AM1</u>	Mike Beanan, Laguna Bluebelt Coalition	Yes	Laguna Beach no- take SMCA	South	Modify	Boundaries	Extend the Laguna Beach SMCA no-take regulation <u>within</u> the boundaries of the Dana Point <u>SMCA</u> down to the southern border of the City of Laguna Beach, <u>with new southern</u> boundary extending due west (Note: Boundaries of Dana Point <u>SMCA would also need to be</u> <u>adjusted).</u>	Modified boundary to extend west consistent with Laguna Beach City Limits to improve enforcement, and to address concerns expressed by stakeholders at the Orange County MPA Collaborative Meeting on August 22, 2023.

Tracking ID (Petition #- unique action- and "AM" if amended)	Petitioner	Unique Action Amend- ed	Affected MPA	Bio- Region	MLPA Action Categor y	Action Type	Proposed Action	Amendment Justification Stated by Petitioner/ Summarized by Staff
2023-27MPA_1 _ <u>AM1</u>	Azsha Hudson, Environment al Defense Center (EDC)	Yes	Anacapa SMCA	South	Modify	Classification/ Take	Reclassify SMCA as an SMR or at a minimum reclassify portion of the SMCA from shore to at least 30 meters depth. Amend existing SMCA, evaluating three options (solutions) and choose the one that best protects the eelgrass meadow while allowing for community access: Option 1: Change SMCA regulations to disallow commercial lobster fishing year round. Option 2: Change SMCA regulations to disallow hard bottomed fishing gear (including anchoring if applicable) near eelgrass meadows. Option 3: Extend the existing [Anacapa Island Special Closure] prohibition of deployment of lobster traps less than 20 ft deep to apply out to 30 meters (0-98.43 feet).	Stakeholder feedback - commercial and recreational fishermen. Protect eel grass meadow while allowing for community access; improve enforcement and compliance.

Tracking ID (Petition #- unique action- and "AM" if amended)	Petitioner	Unique Action Amend- ed	Affected MPA	Bio- Region	MLPA Action Categor y	Action Type	Proposed Action	Amendment Justification Stated by Petitioner/ Summarized by Staff
2023-28MPA_1 _ <u>AM1</u>	Lisa Suatoni, National Resources Defense Council (NRDC)	Yes	N/A (New – Point Sal <del>SMR</del> <u>SMCA</u> )	South	Establis h	Establish new MPA	Create a new SMR SMCA around Point Sal in central California (14.22 sq mi)-and consult with tribes first to determine whether an SMCA with exemptions for cultural and subsistence use is warranted except identify a traditional tribal name for the SMCA through consultation with the Chumash people- and allow recreational take of finfish by hook-and-line from shore.	Amended to a proposed SMCA that allows recreational take of finfish by hook-and-line from shore in recognition of: 1) the importance of this area for federally and non-federally recognized Chumash peoples, and 2) the importance of the area for shore-based subsistence and recreational fishermen.

Tracking ID (Petition #- unique action- and "AM" if amended)	Petitioner	Unique Action Amend- ed	Affected MPA	Bio- Region	MLPA Action Categor y	Action Type	Proposed Action	Amendment Justification Stated by Petitioner/ Summarized by Staff
2023-29MPA_1 _ <u>AM1</u>	Lisa Suatoni, NRDC; Sam Cohen, Santa Ynez Band of Chumash Indians (SYBCI); and Azsha Hudson, EDC	Yes	N/A (New – <u>Mishop-</u> <u>shno</u> <u>SMCA</u> )	South	Establis h	Establish new MPA	Establish a new California- Chumash co-management SMCA near Santa Barbara to be named Mishopshno <u>(with</u> modified boundaries in a portion of the original boundaries, modified to reduce size in all dimensions covering <del>26.2 sq mi</del> <u>9.05 sq miles</u> ) that allows take by members of the Santa Ynez Band of Chumash Indians <u>using</u> hand based equipment for traditional, ceremonial, cultural and subsistence purposes, and allows recreational take of finfish from shore using hook and line.	Amendment: Added goal 3 to honor the nearby historical Mishopshno village and cultural heritage of the Chumash in the area and restore management to the SYBCI of this portion of coastal waters. Proposed take modified to avoid impacting non- commercial take.by non- federally recognized Chumash tribal communities Stakeholder feedback - commercial and recreational fishermen.
2023-33MPA_1 _ <u>AM1</u>	Laura Deehan, Environment CA Research and Policy Center; and Marcela Gutiérrez- Graudiņš, Azul	Yes	Cabrillo SMR	South	Modify	Boundaries	Expand westward <u>(to 3 mile</u> state line) and northward <u>(to</u> <del>Swordfish Point</del> <u>New Hope</u> <u>Rock)</u> by <del>15.2 sq mi <u>~9.99</u> sq mi.</del>	Amendment: Feedback from local stakeholders; adjusted to allow for local commercial lobster fishing north of New Hope Rock.

Tracking ID (Petition #- unique action- and "AM" if amended)	Petitioner	Unique Action Amend- ed	Affected MPA	Bio- Region	MLPA Action Categor y	Action Type	Proposed Action	Amendment Justification Stated by Petitioner/ Summarized by Staff
2023-33MPA_2 _ <u>AM1</u>	Laura Deehan, Environment CA Research and Policy Center; and Marcela Gutiérrez- Graudiņš, Azul	Yes	Point Dume SMCA	South	Modify	Boundaries <u>/</u> <u>Take</u>	Expand westward by 4.6 sq mi; add allowance for recreational take from shore by hook and line and by spearfishing.	Amendment: Stakeholder feedback – received requests from recreational fishermen to allow for subsistence fishing.
2023-33MPA_3	Laura Deehan, Environment CA Research and Policy Center; and Marcela Gutiérrez- Graudiņš, Azul	No	South Point SMR	South	Modify	Boundaries	Expand westward by 26.3 sq mi	N/A
2023-33MPA_4	Laura Deehan, Environment CA Research and Policy Center; and Marcela Gutiérrez- Graudiņš, Azul	No	Gull Island SMR	South	Modify	Boundaries	Expand northward by 1.8 sq mi	N/A

Tracking ID (Petition #- unique action- and "AM" if amended)	Petitioner	Unique Action Amend- ed	Affected MPA	Bio- Region	MLPA Action Categor y	Action Type	Proposed Action	Amendment Justification Stated by Petitioner/ Summarized by Staff
2023-33MPA_5	Laura Deehan, Environment CA Research and Policy Center; and Marcela Gutiérrez- Graudiņš, Azul	No	Point Conception SMR	South	Modify	Boundaries	Expand eastward by 14.6 sq mi	N/A
2023-33MPA_6 _ <u>AM1</u>	Laura Deehan, Environment CA Research and Policy Center; and Marcela Gutiérrez- Graudiņš, Azul	Yes	Natural Bridges SMR	Central	Modify	Boundaries	Expand southward <del>by 13.7 sq mi</del> and eastward to the edge of <u>Natural Bridges State Beach by</u> ~14.5 sq mi	Amendment: Stakeholder feedback - MPA Collaborative that this modification would clarify and reduce confusion around permitted uses at state beach. (Note: Open to southern boundary options to better balance conservation and fishing interests.)
2023-33MPA_7 _ <u>AM1</u>	Laura Deehan, Environment CA Research and Policy Center; and Marcela Gutiérrez- Graudiņš, Azul	Yes	N/A (New – Pleasure Point SMCA)	Central	Establis h	Establish new MPA	Designate 3.2 square miles as a new SMR SMCA near Pleasure Point (Santa Cruz); allow recreational take from shore by hook and line and spearfishing only.	<u>Amendment:</u> <u>Stakeholder feedback -</u> <u>recreational fishermen.</u>

# California Fish and Game Commission Table 2: Bin 2 Marine Protected Area (MPA) Petitions for Regulation Change, as Revised by Amended Petitions

April 10, 2025

The California Fish and Game Commission is in the midst of a process to review and consider proposed changes to MPAs and the MPA management program through a petition process, consistent with recommendations from the first decadal management review of California's network of MPAs.

In 2023, the Commission received 20 MPA petitions with 86 individual actions proposed across the 20 petitions. In 2024, after the California Department of Fish and Wildlife completed its evaluation and made recommendations for five of the petitions, referred to as the "bin 1" petitions, the Commission took action; a total of 17 individual actions were addressed with those five petitions.

The remaining 15 petitions are referred to as "bin 2" petitions; they contain a total of 69 proposed individual actions. In December 2024, the Commission offered the bin 2 petitioners an opportunity to submit amendments to their petitions. The following pages contain a table of all the bin 2 petitions with amendments submitted by petitioners integrated into the full list of proposed actions.

The table partitions the petitions into the individual proposed actions and categorizes them by affected MPA, bioregion, Marine Life Protection Act (MLPA) action category (modify, establish, or abolish), action type (e.g., boundaries, take, classification), proposed action, and the justification as stated by the petitioner. The Commission petition tracking number and the unique action request numbers were combined into one category, titled "Tracking ID."

- **Bin 2 Petitions:** There are 15 MPA petitions in the bin 2 category; collectively they contain 69 individual proposed actions; including 50 regulatory requests and 19 non-regulatory requests for changes.
- Amended Bin 2 Petitions: Seven of the bin 2 petitions were amended by petitioners; collectively they contain amendments to 16 of the individual proposed actions.
- **Table 1** (a separate document): Only summarizes individual actions in the seven amended petitions, with the amended actions highlighted.
- **Table 2** (*this* document): Table 2 provides the complete list of bin 2 petitions with amendments incorporated; these are the versions that will be evaluated by the California Department of Fish and Wildlife.

Select acronyms: SMCA = state marine conservation area, SMR = state marine reserve, DMR = decadal management review, SCP = scientific collecting permit

# Table 2. All Bin 2 MPA Petitions Itemized by Individual Actions, Updated to Reflect Amended Individual Actions

Tracking ID (Petition #- unique action)	Petitioner	Affected MPA	Bio- region	MLPA Action Category	Action Type	Proposed Action	Justification Stated by the Petitioner
2023-14MPA_1	David Goldenberg, California Sea Urchin Commission (CSUC)	Sea Lion Cove SMCA	North	Modify	Take	Allow commercial take of sea urchin	Proposal is consistent with the MLPA master plan for MPAs goals and objectives 1.1, 1.5, 2.4, and 5.1 and the DMR recommendation 6c, "Explore innovate approaches to engage the fishing industry in MPA research and management"; Commercial urchin fishing can help the recovery and resiliency of kelp ecosystems.
2023-14MPA_2	David Goldenberg, CSUC	Stewart's Point SMCA	North	Modify	Take	Allow commercial take of sea urchin	Proposal is consistent with the MLPA master plan for MPAs goals and objectives 1.1, 1.5, 2.4, and 5.1 and the DMR recommendation 6c, "Explore innovate approaches to engage the fishing industry in MPA research and management"; Commercial urchin fishing can help the recovery and resiliency of kelp ecosystems.
2023-14MPA_3	David Goldenberg, CSUC	Salt Point SMCA	North	Modify	Take	Allow commercial take of sea urchin	Proposal is consistent with the MLPA master plan for MPAs goals and objectives 1.1, 1.5, 2.4, and 5.1 and the DMR recommendation 6c, "Explore innovate approaches to engage the fishing industry in MPA research and management"; Commercial urchin fishing can help the recovery and resiliency of kelp ecosystems.

Tracking ID (Petition #- unique action)	Petitioner	Affected MPA	Bio- region	MLPA Action Category	Action Type	Proposed Action	Justification Stated by the Petitioner
2023-14MPA_4	David Goldenberg, CSUC	Double Cone Rock SMCA	North	Modify	Take	Allow commercial take of sea urchin	Proposal is consistent with the MLPA master plan for MPAs goals and objectives 1.1, 1.5, 2.4, and 5.1 and the DMR recommendation 6c, "Explore innovate approaches to engage the fishing industry in MPA research and management"; Commercial urchin fishing can help the recovery and resiliency of kelp ecosystems.
2023-14MPA_5	David Goldenberg, CSUC	Naples SMCA	South	Modify	Take	Allow commercial take of sea urchin	Proposal is consistent with the MLPA master plan for MPAs goals and objectives 1.1, 1.5, 2.4, and 5.1 and the DMR recommendation 6c, "Explore innovate approaches to engage the fishing industry in MPA research and management"; Commercial urchin fishing can help the recovery and resiliency of kelp ecosystems.
2023-14MPA_6	David Goldenberg, CSUC	Anacapa Island SMCA	South	Modify	Take	Allow commercial take of sea urchin	Proposal is consistent with the MLPA master plan for MPAs goals and objectives 1.1, 1.5, 2.4, and 5.1 and the DMR recommendation 6c, "Explore innovate approaches to engage the fishing industry in MPA research and management"; Commercial urchin fishing can help the recovery and resiliency of kelp ecosystems.

Tracking ID (Petition #- unique action)	Petitioner	Affected MPA	Bio- region	MLPA Action Category	Action Type	Proposed Action	Justification Stated by the Petitioner
2023-14MPA_7	David Goldenberg, CSUC	Point Dume SMCA	South	Modify	Take	Allow commercial take of sea urchin	Proposal is consistent with the MLPA master plan for MPAs goals and objectives 1.1, 1.5, 2.4, and 5.1 and the DMR recommendation 6c, "Explore innovate approaches to engage the fishing industry in MPA research and management"; Commercial urchin fishing can help the recovery and resiliency of kelp ecosystems.
2023-14MPA_8	David Goldenberg, CSUC	Point Vicente SMCA	South	Modify	Take	Allow commercial take of sea urchin	Proposal is consistent with the MLPA master plan for MPAs goals and objectives 1.1, 1.5, 2.4, and 5.1 and the DMR recommendation 6c, "Explore innovate approaches to engage the fishing industry in MPA research and management"; Commercial urchin fishing can help the recovery and resiliency of kelp ecosystems.
2023-14MPA_9	David Goldenberg, CSUC	Swami's SMCA	South	Modify	Take	Allow commercial take of sea urchin	Proposal is consistent with the MLPA master plan for MPAs goals and objectives 1.1, 1.5, 2.4, and 5.1 and the DMR recommendation 6c, "Explore innovate approaches to engage the fishing industry in MPA research and management"; Commercial urchin fishing can help the recovery and resiliency of kelp ecosystems.

Tracking ID (Petition #- unique action)	Petitioner	Affected MPA	Bio- region	MLPA Action Category	Action Type	Proposed Action	Justification Stated by the Petitioner
2023-15MPA_1 _AM2	Blake Hermann	Footprint SMR	South	Modify	Classification /Take	Reclassify SMR to SMCA to allow either the limited take of highly migratory species (HMS) and possession of coastal pelagic species, or the take of pelagic finfish via six options. Options include various combinations of methods of take, including: Hook-and- line, spear, harpoon (swordfish only), and options to prohibit "bottom-contact gear" (see petition for specific options).	This proposal provides an opportunity to fill knowledge gaps by converting no-take MPAs to limited take MPAs; these MPAs weren't originally designed to protect pelagic species or highly migratory species (HMS) as MPAs have minimal protective benefits to HMS; there is an equity imbalance, as a higher proportion of the MPAs within the Channel Islands are no-take SMRs compared to the rest of the state which has a greater percentage of SMCAs; public support from fishery businesses, groups, and individuals; calls to DMR appendix A bullet points: "Allow take of migratory and pelagic species in MPAs that currently do not allow it" and "Return MPA fishing opportunities, especially in legacy fishing areas that were previously open to fishing."

Tracking ID (Petition #- unique action)	Petitioner	Affected MPA	Bio- region	MLPA Action Category	Action Type	Proposed Action	Justification Stated by the Petitioner
2023-15MPA_2 _AM2	Blake Hermann	Gull Island SMR	South	Modify	Classification /Take	Reclassify SMR to an SMCA (or an inshore SMCA or SMR with an offshore SMCA) to allow either the limited take of highly migratory species (HMS) and possession of coastal pelagic species, or the take of pelagic finfish via six options. Options include various combinations of methods of take, including: Hook-and- line, spear, harpoon (swordfish only), and options to prohibit "bottom-contact gear" (see petition for specific options).	This proposal provides an opportunity to fill knowledge gaps by converting no-take MPAs to limited take MPA; these MPAs weren't originally designed to protect pelagic species or HMS as MPAs have minimal protective benefits to HMS; there is an equity imbalance, as a higher proportion of the MPAs within the Channel Islands are no-take SMRs compared to the rest of the state which has a greater percentage of SMCAs; public support from fishery businesses, groups, and individuals; calls to DMR appendix A bullet points: "Allow take of migratory and pelagic species in MPAs that currently do not allow it" and "Return MPA fishing opportunities, especially in legacy fishing areas that were previously open to fishing."

Tracking ID (Petition #- unique action)	Petitioner	Affected MPA	Bio- region	MLPA Action Category	Action Type	Proposed Action	Justification Stated by the Petitioner
2023-15MPA_3 _AM2	Blake Hermann	Santa Barbara Island SMR	South	Modify	Classification /Take	Reclassify SMR to an SMCA (or an inshore SMCA or SMR with an offshore SMCA) to allow either the limited take of highly migratory species (HMS) and possession of coastal pelagic species, or the take of pelagic finfish via six options. Options include various combinations of methods of take, including: Hook-and- line, spear, harpoon (swordfish only), and options to prohibit "bottom-contact gear" (see petition for specific options).	This proposal provides an opportunity to fill knowledge gaps by converting no-take MPAs to limited take MPA; these MPAs weren't originally designed to protect pelagic species or HMS as MPAs have minimal protective benefits to HMS; there is an equity imbalance, as a higher proportion of the MPAs within the Channel Islands are no-take SMRs compared to the rest of the state which has a greater percentage of SMCAs; public support from fishery businesses, groups, and individuals; calls to DMR appendix A bullet points: "Allow take of migratory and pelagic species in MPAs that currently do not allow it" and "Return MPA fishing opportunities, especially in legacy fishing areas that were previously open to fishing."
2023-16MPA_1	Richard Ogg, Bodega Bay Fisherman's Marketing Association	Stewart's Point SMR	North	Modify	Classification /Take	Reclassify SMR to SMCA to allow commercial take of salmon by trolling	Broadening areas where salmon trolling is allowed will improve fishery resiliency as the fishery is currently at risk; aligns with the MLPA master plan for MPAs goals and objectives 1.1, 1.5, 2.4, and 5.1 and the DMR recommendation 6c.

Tracking ID (Petition #- unique action)	Petitioner	Affected MPA	Bio- region	MLPA Action Category	Action Type	Proposed Action	Justification Stated by the Petitioner
2023-16MPA_2	Richard Ogg, Bodega Bay Fisherman's Marketing Association	Bodega Head SMR	North	Modify	Classification /Take	Reclassify SMR to SMCA to allow commercial take of salmon by trolling	Broadening areas where salmon trolling is allowed will improve fishery resiliency as the fishery is currently at risk; aligns with the MLPA master plan for MPAs goals and objectives 1.1, 1.5, 2.4, and 5.1 and the DMR recommendation 6c.
2023-18MPA_1	Greg Helms, Ocean Conservancy	Vandenberg SMR	Central	Modify	Classification /Take	Divide into two MPAs; redesignate a narrow alongshore portion as SMCA and allow recreational shore fishing for finfish by hook and line	Maintain contribution to MLPA Master Plan goals 1- 4 and 6 while addressing equity concerns caused by consumptive activity allowed nearby and within Vandenberg SMR.
2023-18MPA_2	Greg Helms, Ocean Conservancy	Point Conception SMR	South	N/A	Non- regulatory	Continued support of Marine Monitor (M2) radar monitoring	Aligns with the DMR management program of enforcement and compliance; consistent with MLPA Master Plan goal 5.
2023-18MPA_3	Greg Helms, Ocean Conservancy	Kashtayit SMCA	South	Modify	Take	Simplify take regulations to: "Recreational take of finfish, invertebrates (except rock scallops and mussels), and giant kelp by hand harvest-is allowed."	Simplifies regulatory language and enhances public understanding without compromising the intent of the MPA.
2023-18MPA_5	Greg Helms, Ocean Conservancy	Campus Point SMCA	South	N/A	Non- regulatory	Change color of no-take SMCA from purple to red on maps	Enhances public understanding.
2023-18MPA_6	Greg Helms, Ocean Conservancy	San Miguel Island Special Closure	South	Abolish	Special closure	Eliminate pinniped special closure MPA	Simplifies regulatory language; consistent with MPA design guidelines.

Tracking ID (Petition #- unique action)	Petitioner	Affected MPA	Bio- region	MLPA Action Category	Action Type	Proposed Action	Justification Stated by the Petitioner
2023-18MPA_7	Greg Helms, Ocean Conservancy	Anacapa Island Special Closure	South	Modify	Allowable uses	Revise regulations to allow boat access to Frenchy's Cove	Accounts for regional stakeholder group intent while addressing non-consumptive access concern.
2023-18MPA_8	Greg Helms, Ocean Conservancy	Anacapa Island Special Closure	South	Abolish	Special closure	Reassess and consider removing the full-island special closure	Simplifies regulatory language; consistent with MPA design guidelines.
2023-19MPA_1	Sam Cohen, Santa Ynez Band of Chumash Mission Indians	N/A (New – Chitqawi SMA)	Central	Establish	Establish new MPA	Designate new tribal co-management SMCA with the Santa Ynez Band of Chumash Indians between Morro Bay and Cambria	Reaching 30x30; lack of existing tribal co-management in the area.
2023-20MPA_1	Sam Cohen, Santa Ynez Band of Chumash Mission Indians	Point Buchon SMCA	Central	N/A	Non- regulatory - tribal	Establish co- management with Chumash at Point Buchon SMCA (maybe SMR too)	Point Buchon SMCA may be included in the proposed Chumash Heritage National Marine Sanctuary, so co- management may help that future scenario.
2023-20MPA_2	Sam Cohen, Santa Ynez Band of Chumash Mission Indians	Point Buchon SMR	Central	Modify	Boundaries	Adjust the northern boundary to align with Point Buchon	Extending boundary to the physical Point Buchon will provide geographic marker to fishermen (cited in MPA Collaborative Regulatory Recommendation).
2023-21MPA_1	Rosa Laucci, Tolowa Dee-ni' Nation	Pyramid Point SMCA	North	Modify	Take	Remove take allowance for recreational surf smelt by dip net or Hawaiian type throw net; retain current tribal take exemption	Smelt is culturally important species to the Tolowa Dee-ni' Nation and has declined significantly.
2023-21MPA_2	Rosa Laucci, Tolowa Dee-ni' Nation	Pyramid Point SMCA	North	Modify	Boundaries	Change northern boundary to align with recognized California/Oregon state line	Original boundary used a mapping system that does not align with on-the-ground state line.

Tracking ID (Petition #- unique action)	Petitioner	Affected MPA	Bio- region	MLPA Action Category	Action Type	Proposed Action	Justification Stated by the Petitioner
2023-23MPA_1 _AM1	Keith Rootsaert, Giant Giant Kelp Restoration Project (G2KR)	Edward F. Ricketts SMCA	Central	Modify	Take	Prohibit recreational and commercial take of finfish when a petitioner-proposed "kelp restoration management permit" is active.	Protect restored kelp forests; improve diver safety from fishing boat propellors and fishing gear.
2023-23MPA_2	Keith Rootsaert, G2KR	Edward F. Ricketts SMCA	Central	Modify	Take	Allow unlimited urchin removal	Restore kelp forests.
2023-23MPA_3	Keith Rootsaert, G2KR	Edward F. Ricketts SMCA	Central	Modify	Non- regulatory	Allow out-planting kelp on the reef without a scientific collecting permit (SCP).	The SCP process is difficult to navigate which makes it harder to protect and restore kelp forests; restore kelp forest
2023-23MPA_4	Keith Rootsaert, G2KR	Edward F. Ricketts SMCA	Central	Modify	Non- regulatory	Scientific collecting permits/restoration: Allow spore dispersal by sporophyte bags without an SCP.	Protect restored kelp forests; improve diver safety from fishing boat propellors and fishing gear.
2023-23MPA_5	Keith Rootsaert, G2KR	Edward F. Ricketts SMCA	Central	Modify	Non- regulatory	Allow pruning kelp canopy to promote growth and resilience to storms without an SCP.	Restore kelp forests.
2023-23MPA_6 _AM1	Keith Rootsaert, G2KR	Pacific Grove Marine Gardens SMCA	Central	Modify	Take	Prohibit recreational and commercial take of finfish when an petitioner-proposed "kelp restoration management permit" is active.	The SCP process is difficult to navigate which makes it harder to protect and restore kelp forests; protect restored kelp forest from storm damage.
2023-23MPA_7	Keith Rootsaert, G2KR	Pacific Grove Marine Gardens SMCA	Central	Modify	Take	Allow unlimited urchin removal	The SCP process is difficult to navigate which makes it harder to protect and restore kelp forests; restore kelp forests

Tracking ID (Petition #- unique action)	Petitioner	Affected MPA	Bio- region	MLPA Action Category	Action Type	Proposed Action	Justification Stated by the Petitioner
2023-23MPA_8	Keith Rootsaert, G2KR	Pacific Grove Marine Gardens SMCA	Central	Modify	Non- regulatory	Allow pruning kelp canopy to promote growth and resilience to storms without an SCP.	The SCP process is difficult to navigate which makes it harder to protect and restore kelp forests; restore kelp forests
2023-23MPA_9	Keith Rootsaert, G2KR	Pacific Grove Marine Gardens SMCA	Central	Modify	Non- regulatory	Allow out-planting kelp on the reef without an SCP.	Restore kelp forests.
2023- 23MPA_10	Keith Rootsaert, G2KR	Pacific Grove Marine Gardens SMCA	Central	Modify	Non- regulatory	Scientific collecting permits/restoration: Allow spore dispersal by sporophyte bags without an SCP.	The SCP process is difficult to navigate which makes it harder to protect and restore kelp forests; protect restored kelp forests from storm damage.
2023- 23MPA_11 _AM1	Keith Rootsaert, G2KR	Carmel Bay SMCA	Central	Modify	Take	Prohibit recreational and commercial take of finfish when an petitioner-proposed "kelp restoration management permit" is active.	The SCP process is difficult to navigate which makes it harder to protect and restore kelp forests; restore kelp forests
2023- 23MPA_12	Keith Rootsaert, G2KR	Carmel Bay SMCA	Central	Modify	Take	Allow unlimited urchin removal	The SCP process is difficult to navigate which makes it harder to protect and restore kelp forests; restore kelp forests
2023- 23MPA_13	Keith Rootsaert, G2KR	Carmel Bay SMCA	Central	Modify	Non- regulatory	Allow pruning kelp canopy to promote growth and resilience to storms without an SCP.	Protect restored kelp forests; improve diver safety from fishing boat propellors and fishing gear.
2023- 23MPA_14	Keith Rootsaert, G2KR	Carmel Bay SMCA	Central	Modify	Non- regulatory	Allow out-planting kelp on the reef without an SCP.	Create new habitat for kelp and other marine life; expand diving opportunities.

Tracking ID (Petition #- unique action)	Petitioner	Affected MPA	Bio- region	MLPA Action Category	Action Type	Proposed Action	Justification Stated by the Petitioner
2023- 23MPA_15	Keith Rootsaert, G2KR	Carmel Bay SMCA	Central	Modify	Non- regulatory	Scientific collecting permits/restoration: Allow spore dispersal by sporophyte bags without an SCP.	Protect substrate from anchors in restored kelp forests.
2023- 23MPA_16	Keith Rootsaert, G2KR	Point Lobos SMR	Central	Modify	Classification /Take	Allow unlimited urchin removal	Allow restoration activities in MPAs.
2023- 23MPA_17	Keith Rootsaert, G2KR	Point Lobos SMR	Central	Modify	Non- regulatory	Allow pruning kelp canopy to promote growth and resilience to storms without an SCP.	The SCP process is difficult to navigate; wants to conduct restoration without scientific design to test effectiveness of methods
2023- 23MPA_18	Keith Rootsaert, G2KR	Point Lobos SMR	Central	Modify	Non- regulatory	Allow out-planting kelp on the reef without an SCP.	Protect and restore kelp forests; continued community engagement.
2023- 23MPA_19	Keith Rootsaert, G2KR	Point Lobos SMR	Central	Modify	Non- regulatory	Scientific collecting permits/restoration: Allow spore dispersal by sporophyte bags without an SCP.	The SCP process is difficult to navigate which makes it harder to protect and restore kelp forests; restore kelp forests
2023- 23MPA_20 _AM1	Keith Rootsaert, G2KR	N/A (New – Tanker's Reef SMR)	Central	Establish	Establish new MPA	Establish a new Tanker's Reef SMR near Monterey (193 acres, or 0.3 sq miles)	The SCP process is difficult to navigate which makes it harder to protect and restore kelp forests; restore kelp forests
2023- 23MPA_21	Keith Rootsaert, G2KR	Not specified	Central	N/A	Non- regulatory	Create a regulatory pathway to allow placing of artificial reef structures and sunken ship for recreational diving.	The SCP process is difficult to navigate which makes it harder to protect and restore kelp forests; protect restored kelp forests from storm damage.

Tracking ID (Petition #- unique action)	Petitioner	Affected MPA	Bio- region	MLPA Action Category	Action Type	Proposed Action	Justification Stated by the Petitioner
2023- 23MPA_22	Keith Rootsaert, G2KR	Not specified	Central	N/A	Non- regulatory	Allow placement of buoys in restoration areas	Protect restored kelp forests; improve diver safety from fishing boat propellors and fishing gear.
2023- 23MPA_23	Keith Rootsaert, G2KR	Not specified	Central	N/A	Non- regulatory	Develop a framework to evaluate and approve appropriate restoration and mitigation actions within MPAs and MMAs	Restore kelp forests.
2023- 23MPA_24 _AM1	Keith Rootsaert, G2KR	Not specified	Central	N/A	Non- regulatory	Establish a new process in CDFW's Scientific Collecting Permit Program for "kelp restoration management permits" as proposed by petitioner	The SCP process is difficult to navigate which makes it harder to protect and restore kelp forests; protect restored kelp forests from storm damage.
2023- 23MPA_25	Keith Rootsaert, G2KR	N/A	Central	N/A	Non- regulatory	Consider proposed kelp restoration sites as Giant Giant Kelp Restoration-adopted reefs for continued kelp restoration	The SCP process is difficult to navigate which makes it harder to protect and restore kelp forests; restore kelp forests
2023- 23MPA_26	Keith Rootsaert, G2KR	Five MPAs	Central	N/A	Non- regulatory	Allow commercial urchin harvest in MPAs for Restoration	N/A

Tracking ID (Petition #- unique action)	Petitioner	Affected MPA	Bio- region	MLPA Action Category	Action Type	Proposed Action	Justification Stated by the Petitioner
2023- 23MPA_27	Keith Rootsaert, G2KR	Five MPAs	Central	N/A	Non- regulatory	Exemption for "Wanton Waste Rule"	N/A
2023-23MPA- 28_AM1	Keith Rootsaert, G2KR	N/A	N/A	N/A	Non- regulatory	FGC and the Department promote kelp restoration collaboration on their website and in public outreach.	This is prioritized in California MPA Decadal Management Review, Near-term Priorities (ongoing- 2 years), Recommendation 16 to "Conduct more targeted outreach to specific audiences to connect stakeholders with coastal resources and to encourage stewardship and compliance with regulations."
2023-24MPA_1 _AM1	Mike Beanan, Laguna Bluebelt Coalition	Laguna Beach no-take SMCA	South	Modify	Boundaries	Extend the Laguna Beach SMCA no-take regulation within the boundaries of the Dana Point SMCA down to the southern border of the City of Laguna Beach, with new southern boundary extending due west (Note: Boundaries of Dana Point SMCA would also need to be adjusted).	Make enforcement easier and more consistent with the same regulations covering the entire city; more effective outreach and education; overharvesting and substrate degradation adversely affects kelp beds in the Dana Point SMCA; the MLPA master plan for MPAss says to protect rocky habitat containing kelp; climate change leads to kelp decline so the area needs to be protected from fishing pressure; line of lobster trap buoys creates virtually impenetrable wall to migrating whales; supported by many Laguna Beach residents.

Tracking ID (Petition #- unique action)	Petitioner	Affected MPA	Bio- region	MLPA Action Category	Action Type	Proposed Action	Justification Stated by the Petitioner
2023-27MPA_1 _AM1	Azsha Hudson, Environmental Defense Center (EDC)	Anacapa SMCA	South	Modify	Take	Amend existing SMCA, evaluating three options (solutions) and choose the one that best protects the eelgrass meadow while allowing for community access: Option 1: Change SMCA regulations to disallow commercial lobster fishing year round. Option 2: Change SMCA regulations to disallow hard bottomed fishing gear (including anchoring if applicable) near eelgrass meadows. Option 3: Extend the existing [Anacapa Island Special Closure] prohibition of deployment of lobster traps less than 20 ft deep to apply out to 30 meters (0-98.43 feet).	Protect eel grass meadow while allowing for community access; improve enforcement and compliance.

Tracking ID (Petition #- unique action)	Petitioner	Affected MPA	Bio- region	MLPA Action Category	Action Type	Proposed Action	Justification Stated by the Petitioner
2023-28MPA_1 _AM1	Lisa Suatoni, National Resources Defense Council (NRDC)	N/A (New – Point Sal SMCA)	South	Establish	Establish new MPA	Create a new SMCA around Point Sal in central California (14.22 sq mi) except identify a traditional tribal name for the SMCA through consultation with the Chumash people- and allow recreational take of finfish by hook-and- line from shore.	This area is a rich, productive ecosystem that is a part of the biogeographic transition zone; a larval retention zone and a biological hotspot; culturally significant for the Chumash; improve network resilience by providing refugia; lead to equitable access to coastal resources; biologically important area for several marine mammals; undisturbed haul out; would help improve habitat replication in MPAs; adjacent terrestrial areas are relatively undisturbed; improved access for disadvantaged populations to coastal resources and fishing opportunities; climate resilience. Amended to a proposed SMCA that allows recreational take of finfish by hook-and-line from shore in recognition of: 1) the importance of this area for federally and non-federally recognized Chumash peoples, and 2) the importance of the area for shore-based subsistence and recreational fishermen.

Tracking ID (Petition #- unique action)	Petitioner	Affected MPA	Bio- region	MLPA Action Category	Action Type	Proposed Action	Justification Stated by the Petitioner
2023-29MPA_1 _AM1	Lisa Suatoni, NRDC; Sam Cohen, Santa Ynez Band of Chumash Indians; and Azsha Hudson, EDC	N/A (New – Mishopshno SMCA)	South	Establish	Establish new MPA	Establish a new California-Chumash co- management SMCA near Santa Barbara to be named Mishopshno (with modified boundaries in a portion of the original boundaries, modified to reduce size in all dimensions covering 9.05 sq miles) that allows take by members of the Santa Ynez Band of Chumash Indians using hand based equipment for traditional, ceremonial, cultural and subsistence purposes, and allows recreational take of finfish from shore using hook and line.	1) Help meet the Master Plan's size and spacing guidelines for spacing between protected habitats, promoting connectivity in the network and representation of habitat types, 2) protect habitat attractive to marine wildlife, such as juvenile white sharks, and 3) honor the nearby historical Mishopshno village and cultural heritage of the Chumash in the area and restore management to the SYBCI of this portion of coastal waters. This petition calls for a co-management agreement between the State of California and the SYBCI through continued access to the shoreline and marine resources for traditional, ceremonial, cultural, and subsistence purposes for all Chumash peopleOriginal boundaries modified to reduce impact to commercial and recreational fishermen based on their feedback.
2023-32MPA_1	Ashley Eagle- Gibbs, Environmental Action Committee of West Marin (Marin EAC)	Duxbury Reef SMCA	North	Modify	Classification /Take	Reclassify Duxbury Reef SMCA to an SMR to prohibit take	Easier outreach and enforcement.

Tracking ID (Petition #- unique action)	Petitioner	Affected MPA	Bio- region	MLPA Action Category	Action Type	Proposed Action	Justification Stated by the Petitioner
2023-32MPA_2	Ashley Eagle- Gibbs, Marin EAC	Duxbury Reef SMCA	North	Modify	Boundaries	Expand the MPA by extending southern boundary and moving northern boundary north to Double Point Special Closure	Protect the entire Duxbury reef habitat and make boundaries easier to interpret; largest shale reef in North America; ecologically significant.
2023-33MPA_1 _AM1	Laura Deehan, Environment CA Research and Policy Center (Environment California); and Marcela Gutiérrez- Graudiņš, Azul	Cabrillo SMR	South	Modify	Boundaries	Expand westward (to 3 mile state line) and northward (to New Hope Rock) by ~9.99 sq mi.	Protect kelp forest habitat identified in the kelp forest resilience report. Amendment: Stakeholder feedback - commercial fishermen.
2023-33MPA_2 _AM1	Laura Deehan, Environment California; and Marcela Gutiérrez- Graudiņš, Azul	Point Dume SMCA	South	Modify	Boundaries/ Take	Expand westward by 4.6 sq mi; Add allowance for recreational take from shore by hook and line and by spearfishing.	Protect kelp forest habitat identified in the kelp forest resilience report. Amendment: Stakeholder feedback - recreational fishermen.
2023-33MPA_3	Laura Deehan, Environment California; and Marcela Gutiérrez- Graudiņš, Azul	South Point SMR	South	Modify	Boundaries	Expand westward by 26.3 sq mi	Protect kelp forest habitat identified in the kelp forest resilience report.

Tracking ID (Petition #- unique action)	Petitioner	Affected MPA	Bio- region	MLPA Action Category	Action Type	Proposed Action	Justification Stated by the Petitioner
2023-33MPA_4	Laura Deehan, Environment California; and Marcela Gutiérrez- Graudiņš, Azul	Gull Island SMR	South	Modify	Boundaries	Expand northward by 1.8 sq mi	Protect kelp forest habitat identified in the kelp forest resilience report.
2023-33MPA_5	Laura Deehan, Environment California; and Marcela Gutiérrez- Graudiņš, Azul	Point Conception SMR	South	Modify	Boundaries	Expand eastward by 14.6 sq mi	Protect kelp forest habitat identified in the kelp forest resilience report.
2023-33MPA_6 _AM1	Laura Deehan, Environment California; and Marcela Gutiérrez- Graudiņš, Azul	Natural Bridges SMR	Central	Modify	Boundaries	Expand southward _and eastward to the edge of Natural Bridges State Beach by ~14.5 sq mi.	Protect kelp forest habitat identified in the kelp forest resilience report. Amendment: Stakeholder feedback - MPA Collaborative
2023-33MPA_7 _AM1	Laura Deehan, Environment California; and Marcela Gutiérrez- Graudiņš, Azul	N/A (New – Pleasure Point SMCA)	Central	Establish	Establish new MPA	Designate 3.2 square miles as a new SMCA near Pleasure Point (Santa Cruz); allow recreational take from shore by hook and line and spearfishing only.	Protect kelp forest habitat identified in the kelp forest resilience report. Amendment: Stakeholder feedback - recreational fishermen.
2023-34MPA_1	Laura Deehan, Environment California and Marcela Gutiérrez- Graudiņš, Azul	Point Buchon SMCA	Central	Modify	Classification /Take	Reclassify SMCA to SMR to prohibit take	Improve enforcement and compliance; improve conservation outcomes.

Tracking ID (Petition #- unique action)	Petitioner	Affected MPA	Bio- region	MLPA Action Category	Action Type	Proposed Action	Justification Stated by the Petitioner
2023-34MPA_2	Laura Deehan, Environment California and Marcela Gutiérrez- Graudiņš, Azul	Farnsworth Onshore SMCA	South	Modify	Take	Change regulations to allow only recreational spearfishing within their boundaries	Take regulations are too complicated between the onshore and offshore MPAs; fishing activities can damage sensitive habitat; improve conservation outcomes.
2023-34MPA_3	Laura Deehan, Environment California and Marcela Gutiérrez- Graudiņš, Azul	Farnsworth Offshore SMCA	South	Modify	Take	Change regulations to allow only recreational spearfishing within their boundaries	Take regulations are too complicated between the onshore and offshore MPAs; fishing activities can damage sensitive habitat; improve conservation outcomes.



Tracking Number: (\_2023-23MPA\_AM1\_

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 (Required) Name of primary contact person: Keith Rootsaert Address: Telephone number:

relephone num	ber.
Email address:	

- 2. Rulemaking Authority (Required) Reference to the statutory or constitutional authority of the Commission to take the action requested: 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) -** Summarize the proposed changes to regulations:

<u>Kelp Restoration</u> Multiple methods in 3 SMCAs and 1 SMR.

Kelp Protection by Redesignation

Edward F. Ricketts State Marine Conservation Area to Edward F. Ricketts State Marine Reserve.

Pacific Grove Marine Gardens State Marine Conservation Area to Pacific Grove Marine Gardens State Marine Reserve.

Carmel Bay State Marine Conservation Area to Carmel Bay State Marine Reserve.

Kelp Protection by Designation

The Tanker's Reef enforcement area as Tanker's Reef State Marine Reserve.

Permission to deploy buoys

Prevent anchor damage to rocky reef denizens, Navigation aid for kelp restoration activities.



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 2 of 10

<u>Regulatory Pathway for</u> Sunken ship and other artificial reef structures

<u>SCP Framework Changes</u> Management of Kelp Restoration

Public Outreach Adopt a Reef for Kelp Restoration

4. **Rationale (Required) -** Describe the problem and the reason for the proposed change:

This <u>Giant Giant Kelp Restoration</u> petition advances MLPA <u>goals</u> 1-6 and has strong community support of volunteers and grassroots funding. The MPA Collaborative network <u>lists</u> many of these issues on rows 77, 78, 83, & 88, and was supported by all present at the Monterey MPA Collaborative Meeting at Asilomar, August 16, 2023.

This petition is in alignment with the <u>prioritized recommendations</u> from the California Marine Protected Area Decadal Management Review, <u>near-term Priorities (ongoing- 2 years)</u>. Cornerstone Governance, Regulatory and Review Framework, Recommendation 04. Apply what is learned from the first Decadal Management Review to support proposed changes to the MPA Network and Management Program. Also: Management Program, Policy and Permitting 18: Utilize OPC's Restoration and Mitigation Policy to develop a framework to evaluate and approve appropriate restoration and mitigation actions within MPAs and MMAs

# Kelp Restoration

Due to widespread urchin barrens following the 2014-2016 marine heat wave and kelp biomass decline in central and northern California, kelp restoration is a proven remedy by scuba divers culling urchins to suppress grazing pressure. Early <u>results</u> at Tanker's Reef in Monterey have shown that divers culling urchins results in natural kelp recruitment and survival.

This petition will allow certified Kelp Restoration Specialty Divers, recreational and commercial fishermen, to participate in a Regenerative Fishery which suppresses grazing pressure from urchins and promotes giant kelp survival in three State Marine Conservation Areas: Edward F. Ricketts, Pacific Grove Marine Gardens, and Carmel Bay State Marine Conservation Areas and in "Whaler's Cove", a portion of the Point Lobos State Marine Reserve.

The methods will involve multiple techniques to suppress grazing pressure on kelp and to enhance kelp recruitment and survivorship and are explained in further detail in <u>Blueprint for Kelp Restoration in Monterey.</u>

Suppression: Hand culling of urchins. Commercial harvest of urchins for urchin ranching and food sales. Baiting & trapping urchins. Utilizing natural defenses of acid weed.



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 3 of 10

Removing invasive marine algae.

Benefitting: Pruning kelp canopy to promote growth and resilience to storms. Out-planting kelp on the reef. Spore dispersal by sporophyte bags. Artificial reef structures.

All the methods employed will be detailed, discussed, and approved by the <u>Department</u> and work would be performed in coordination with other restoration activities. <u>Reef Check</u> <u>California</u> is our monitoring partner and will perform modified kelp forest monitoring surveys of the treated sites and controls. Reports on the project criteria will be discussed bi-weekly with the Department and as requested by the FGC.

We are asking that these kelp restoration methods be permitted without a SCP both inside and outside MPAs and will involve changes to sportfishing regulations to allow unlimited culling of urchins by hand tools, deploying sporophyte bags, etc. We ask that recreational fishermen be allowed to trap, harvest, capture for research, and cull urchins. Commercial fishing regulations will require a restoration exception to harvesting urchins in MPAs and exemption to the <u>wanton</u> <u>waste rule</u> for kelp restoration activities to allow commercial fishermen to cull urchins that are below the 4.5 cm minimum useful harvest size or for commercial divers to alternate between commercial and recreational fishing.

# Kelp Protection by Redesignation:

The MPAs were mapped without considering the possibility of a native invertebrate species becoming overabundant and gobbling up most of the algae in the ecosystem combined with the Department's unwillingness to address that crisis. Urchin barrens have occurred sporadically for millennia as evidenced by the millions of urchin-made holes in the benthos at Tanker's Reef. 250 years ago, when southern sea otters were nearly extirpated by the fur trade, the abalone and urchins flourished and for 125 years kelp disappeared from the central coast until abalone were eventually overfished and take banned south of San Francisco in 1997 and giant kelp again became dominant. in 2007, the central coast MPA rules were formed to prohibit the take of any invertebrates, relying on a written provision for "restoration" as an "allowed" activity in MPAs but the Department does not "permit" restoration because they have conjured a de facto contradictory 7<sup>th</sup> goal of MPAs to "not disturb" them.

In Monterey the community led group Giant Giant Kelp Restoration Project has successfully defended a kelp forest at Tanker's Reef and is was aspiring to restore large kelp forests on both sides of the Monterey Peninsula by SCP. FGC would not consider petitions allowing take of invertebrates in the SMCAs & SMRs until the <u>Decadal Management Review</u> could be completed. Now that the DMR has passed, this petition is seeking to begin the Adaptive Management Review Cycle for the central coast MPAs that have remained unmodified since 2007.

Kelp forests need protection from fishing pressure which has detrimental effects on species richness and kelp biomass. By designating the areas of kelp restoration as State Marine Reserves, fishing pressure will be considerably reduced. This is safer for the volunteer divers involved to avoid fishing boat traffic or getting hooked by fishing gear while diving.



Recreational sportfishers and kelp harvesters have expressed opposition to changing SMCAs to SMRs. The fishers feel that they will never get to fish in these areas again without a reversing petition that would be time consuming and difficult to obtain from FGC. The kelp harvester is only permitted to harvest kelp in non-SMRs and even though kelp harvest is part of our restoration plan, the concern is that the MPA designation may occur without an allowance for kelp harvest for abalone aquaculture. Although kelp harvest is essential for giant kelp resilience and survivorship, the Department and OPC don't acknowledge this interaction. To obtain a consensus of proponents we ask the Department to consider keeping the SMCA designation and writing in a SMCA specific rule that when a Kelp Restoration Management Permit is active, fin fishing is not allowed.

The MLPA is now administered in 3-year Adaptive Management Review Cycles and there is now flexibility in addressing the kelp crisis in a way that accomplishes the MLPA goals but also does not harm the environment in a long term, unforeseen and unwanted way that occurred on the central coast for the last 16 years. The <u>G2KR</u> projects at Lovers Cove and at <u>Tanker's</u> <u>Reef</u> demonstrated that the effort of the certified volunteer divers can be consistently and positively directed to restore kelp forests. Restoration work in these clearly described and familiar MPA boundaries would avoid confusion and guide diver effort in a predictable and effective strategy. In an Adaptive Management Review Cycle these methods can be continuously evaluated and adapted to the evolving stressors in the environment and as our knowledge, techniques, and capabilities at restoring kelp similarly evolve.

In future Adaptive Management Review Cycles the consequences of kelp restoration can be reviewed and the FGC may consider applying these methods more broadly, changing allowed methods, and allowing fishing under modified conditions. The other Monterey SMRs are acting as "controls" without treatment, but in the next review cycle we may ask for those SMRs to be treated as well in order to halt urchin migration and to achieve our goal, pledged to the <u>Kelp Forest Alliance</u>, to restore 2000 acres of giant kelp around the Monterey Peninsula by 2030.

<u>Research</u> shows the reduced fishing pressure in places where fish are born will be beneficial to the fishery in the future when more fish live to adulthood and make more fish. In the future the kelp situation may change, and these places may be opened again in future management cycles to fishing for selected species, or in coordination with scientific monitoring protocols. The three State Marine Conservation Areas mentioned presently have diminished fish stocks and species richness and could benefit from a temporary fishing prohibition. This closure, in coordination with kelp restoration, will benefit adjacent areas with the "spillover effect" of the MPAs providing better fishing opportunities for participants.

This closure would not affect commercial fishermen who are prohibited from fishing in SMCAs already, but mostly the recreational fishermen who fish from shore. The fishermen fishing from boats are typically fishing further from shore because the fish are not as plentiful in the nearshore SMCAs now that the kelp has thinned. Although this closure would prohibit fishing at the Monterey Breakwater parking lot, there is still accessible fishing at the Commercial Wharf. Surf fishing from shore is generally not done at the Tanker's Reef area but further to the north at Sunset, Seacliff and New Brighton State Parks.



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 5 of 10

There are some fishermen that fish on the west side of Lovers Point and the north side of Point Pinos that would be displaced in a portion of the Pacific Grove Marine Gardens SMCA that is frequented by tourists and rented out by Pacific Grove for <u>weddings</u>. To mitigate the loss of this fishing opportunity we recommend the replacement of the Del Monte Bathhouse <u>Pier</u>, by others. It is not fair that our community group of volunteers is working hard to restore kelp and suppress kelp grazers while the state licenses individuals to fish in the same place and time with activities that are detrimental to that same kelp's growth and survival while also endangering diver's lives with propellers and fishing hooks.

The <u>Central Coast</u> Regional Stakeholder Group's intent during regional MLPA planning process (including MPA-specific goals/objectives and design considerations), adopted in April 2007, was found to be aligned with our proposal to improve the conservation status. In the <u>Regional Goals Design Considerations</u> #3."To the extent possible, site MPAs to prevent fishing effort shifts that would result in serial depletion" is what has happened in these places due to fishing pressure being concentrated in only a few accessible places. Redesignating the SMCAs as SMRs aligns with the original intent of more fishing prohibitions at two sites and stopping serial depletion of species at all three sites.

Edward F. Ricketts SMCA was proposed by the RSG to be split as half Edward F. Ricketts SMCA and half Edward C. Cooper SMR so the original intent was to make the area closest to the breakwater into a SMR. John Wolfe, Diving representative to the Regional Stakeholder Group, recalled that a disabled veteran testified that the breakwater was the "only place he could fish" so fishing by hook and line was decided to be allowed. There was a favorite wolf eel that lived on the wall and a spearfishermen shot it and threw it in a garbage can and divers were outraged so fishing by spear was not allowed on this site and the site is partially closed to fishing already. The fishermen fishing off the breakwater wall is a constant danger to divers at this most popular dive site on the west coast of North America and for safety it must stop. There is disabled access at the municipal wharf for fishermen.

Pacific Grove Marine Gardens SMCA was proposed by the <u>RSG</u> to be an SMR north of Point Pinos. Presently the delineation between Asilomar SMR and PG Marine Gardens SMCA is at Point Pinos, so the original intent was to make a large portion north of the peninsula protected as a SMR. This was the first area impacted by widespread urchin barrens in 2015 and is a high priority site for kelp restoration.

<u>Carmel Bay SMCA</u> was implemented as designed but has poor fishing opportunities and depletion of species because it is the only accessible fishing place south of the Monterey Peninsula until Malpaso Creek south of Point Lobos SMR. The loss of kelp forests exacerbates the problem because rockfish are born in kelp forests and take 8-10 years to reach maturity.

These MPAs were all <u>described</u> as "High Priority" sites by OPC's <u>research</u> that would have the highest probability of kelp restoration success.

# Kelp Protection by Designation:

We propose that <u>a portion of</u> the Tanker's Reef enforcement area be designated the Tanker's Reef State Marine Reserve (working title).



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 6 of 10



# A revised Tanker's Reef SMR of 193 acres from 685 acres, (23%)

This kelp forest was created by volunteer divers and is very vulnerable from fishing pressure because it is outside of MPA fishing prohibitions. Routinely fishermen in boats and kayaks take fish at the 11 acre kelp forest. The experimental 2.5-acre underwater cable grid is studied by OPC, CDFW, MBNMS, and Reef Check California. We try very hard to reduce externalities as much as possible to determine a natural process of kelp reforestation. Fishermen taking fish is an externality for the scientific design and confounds the results. Fishing gear often becomes entangled in underwater navigation cables used to guide divers. Furthermore, boat propellers are a threat to injure scuba divers in the area under the water.

Designating this area as a State Marine Reserve will also protect more sandy habitat at Del Monte Beach, the most eroded beach in California, at a time when the beach is nourished after the closure of <u>sand mining</u> in Southern Monterey Bay and studied by <u>USGS</u>.

In the <u>Regional Goals Design Considerations</u> #8, "To the extent possible, site MPAs to take advantage of existing long-term monitoring studies" is consistent with designating Tanker's Reef, the site of CDFW/MBNMS and Reef Check surveys, as a State Marine Reserve.

Permission to deploy buoys



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 7 of 10

Boat anchors on rocky reefs often disturb sensitive marine habitat with their heavy chains scraping in an arc from the anchor to the boat. In a sensitive kelp restoration site that has frequent visits, dropping and recovery of the anchor disturbs the kelp we are trying to defend. By deploying a temporary buoy that the boats can attach to instead of dropping an anchor, the kelp is not disturbed. The use of buoys also aids the divers in the kelp restoration activity by providing underwater visual markers to guide where to cull the urchins and protect the kelp.

This petition seeks to allow seasonal deployment of certain colored and well-maintained buoys to be deployed in kelp restoration areas for the purpose of directing boats where to anchor and to direct divers for the purpose of kelp restoration.

### Regulatory Pathway for an Artificial Reef:

Since 2010 Scuba divers have expressed an interest in diving on a sunken ship in Monterey Bay and this was proposed by the community group California Ships to Reefs and studied by the Office of National Marine Sanctuaries in 2012. In 2017 Artificial Reefs was established as a priority for Monterey Bay National Marine Sanctuary Advisory Council. This was proposed to CDFW, but because the State has never permitted an artificial reef in State waters, this was never permitted. However, there are 52 other artificial permitted reefs in California including the Wheeler North Reef in Southern California. created in 2008.

Creating a shipwreck in protected nearshore waters deep enough to not be displaced by winter storms would be of interest to the scuba diving community. It will also serve as a unique scientific baseline to observe what is the order of marine life formation on a "blank" surface. It may also be beneficial to plant kelp on <u>artificial structures</u> better suited to kelp growth and marine aquaculture. This petition seeks a pathway for the FGC to determine if an artificial reef is in the public interest and establish an application process to obtain permission from CDFW and other state and federal agencies.

This request is in alignment with the <u>prioritized recommendations</u> from the California Marine Protected Area Decadal Management Review, near-term Priorities (ongoing- 2 years), Cornerstone Governance, MPA Statewide Leadership Team and Partner Coordination 09. Continue to coordinate and collaborate with OPC and other agencies on California's ocean and coastal priorities to enhance coastal biodiversity, climate resiliency, human access and use, and a sustainable blue economy.

#### SCP Framework Changes Management of Kelp Restoration

This petition is in furtherance of the <u>prioritized recommendations</u> from the California Marine Protected Area Decadal Management Review, near-term Priorities (ongoing- 2 years), Cornerstone Management Program, Policy and Permitting, Recommendations 17. Improve the application and approval process for scientific collecting permits. And 18. Utilize OPC's Restoration and Mitigation Policy to develop a framework to evaluate and approve appropriate restoration and mitigation actions within MPAs and MMAs

We propose to establish a new process in CDFW's Scientific Collecting Permit program for Restoration Permits. Presently the process available for the Department to manage restoration projects in marine ecosystems is the Scientific Collecting Permit process where



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 8 of 10

applicants submit applications for \$71.62 and pay \$269.08 for a <u>Special Use Permit</u> to operate a project with certain methods, species take restrictions, and reporting requirements. We request similar fees for Kelp Restoration <u>Management</u> Permits.

In our 2018 SCP permit with Reef Check we were not able to amend the permit to take sufficient red urchins and we had to abandon the project. In our 2 attempts to obtain SCPs for kelp restoration methods we were denied. Our pre-application to cull urchins in 3 SMCAs has been in process for 18 months before we can submit it into the SCP portal. The problem is that kelp restoration seeks to change a grazer species population within the defined area, but "Decision Tree" limits the take of species to not affect and change a species population within the area. This leads to situations where kelp restoration experiments are impossible because the number of permitted animals to take is very small and not enough to benefit the recruitment and survival of kelp forests. This led to the abandonment of our experiment at Lovers Cove in year 3 when we couldn't remove sufficient red urchins.

The scientific method requires isolation of treatment methods and establishment of a control area. This places a limitation on kelp restoration practitioners to only employ singular methods when the best results are possible using multiple methods. This also restricts the kelp restoration activities by attempting to answer scientific questions where the goal is simply kelp restoration and this scientific component is best accomplished by science divers rather than certified kelp restoration specialists. Once a permit application is obtained it is difficult to change as new discoveries are made that affect kelp survivorship and the process to attempt to amend a permit takes over a year. At the end of the typical 3 year SCP permit period the treatment must stop, and the 5 year post-restoration monitoring period begins. This is contradictory to the goals of kelp restoration and has led to similar abandonment of work in the treatment area at Tanker's Reef where the effort is desired to be continued by the volunteers, but because the experiment stops after 3 years, the divers are not allowed to come back and tend the kelp forest they successfully created and defended. The extension of Tanker's Reef is "noticed" at the FGC and hopefully will be extended 5 years, but the point is that Rrestoration should lead the activity and scientific experiments should evaluate, but not interfere with, or seek to end, the restoration effort.

Kelp Restoration is an allowable activity in SMRs, and now with the unanimous passage of <u>AB63</u>, in SMCAs as well. However, restoration is allowed but not permitted. Our attempt to obtain a <u>Restoration Management Permit</u> was denied because the law does not address conspecifics. The Department could issue a Letter of Authorization, similar to the one written for the Monterey Bay Aquarium to repair intake pipes, but that is not available to us for inequitable reasons that support the built environment over the natural environment. The only available process we are told is available to us is the SCP process, which is exceedingly slow and inappropriate mechanism which, by rule, restricts the restoration activity to being deliberately inconsequential to improving the health of the MPA.

To remedy this, we petition that the Department establish a "Restoration" category in the SCP process that would allow restoration methods, coordinate with CDFW Research, and establish periodic reviews of restoration efforts, allow for 10-year project durations, and allow take of overpopulating species until the species reaches the threshold density observed pre-marine heatwave of 2014.



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 9 of 10

Additional comments on the SCP Portal and Process are that the website interface is very clunky and time consuming to complete, especially when submitting for take of multiple species at multiple locations and the program slowly populates look-up tables. The response to permit applications is not transparent, we never know who made the comments and there is not an ability to clarify and discuss the commenter's concerns. There is not an opportunity to have a conversation of what would be acceptable, only a rejection and it becomes incumbent on the petitioner to apply again and guess what would be acceptable. We ask that these issues be repaired in the SCP software and Kelp Restoration <u>Management Permit</u> <del>Project</del> approval process.

# Public Outreach

This petition asks the FGC to affirm kelp restoration as public policy in MPAs and to celebrate community collaboration in kelp restoration, mitigating climate change, and conserving biodiversity in public outreach to stakeholders and encourage ocean stewardship. At the October 12 FGC meeting the commissioners suggested kelp practitioner leadership be unified under an "Adopt a Reef" community program, which is a wonderful idea, and we ask the commission to consider our proposed sites as G2KR adopted reefs. We ask that FGC and the Department promote kelp restoration collaboration on their website and in public outreach. This is prioritized in California Marine Protected Area Decadal Management Review, near-term Priorities (ongoing- 2 years), Cornerstone Management Program, Outreach and Education, Recommendation 16. Conduct more targeted outreach to specific audiences to connect stakeholders with coastal resources and to encourage stewardship and compliance with regulations.

Thank you for considering our petitions! In our effort to be succinct and consolidate seven petitions into one, we reduced arguments in favor of the proposal yet still exceeded 5 pages. Additional rationale/justification is available upon request and may be presented at future FGC meetings.

# **SECTION II: Optional Information**

- 5. Date of Petition: 11/29/23 AMENDED 1/13/25
- 6. Category of Proposed Change
  - X Sport Fishing
  - X Commercial Fishing
  - □ Hunting
  - X Other, please specify: MPAs, Section 6.32
- The proposal is to: (*To determine section number(s), see current year regulation booklet or* <u>https://govt.westlaw.com/calregs</u>)
   X Amend Title 14 Section(s): 29.06 and others.
   X Add New Title 14 Section(s): 29.06 and others.
   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 2021-025 & 2023-02



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 10 of 10

Or  $\Box$  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: 4/1/24
- **10. Supporting documentation:** Identify and attach to the petition any information supporting the proposal including data, reports and other documents: See blue links in this document and supporting documents <u>here</u>.
- **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: See Recreational Sea Urchin fiscal impact study in October FGC Meeting materials <u>here.</u>
- 12. Forms: If applicable, list any forms to be created, amended or repealed: N/A

# 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

From: G2KR Team <		>				
Sent: Monday, Janu	ary 13, 2025 10:38	3 AM				
To: Ashcraft, Susan				Keith Rootsaert <		>
Cc: Andy Beahrs <	>; (	Calla Allison <			>; I	Rossi, Devon-
Contractor@FGC <		>; FGC	C <fg< td=""><td>C@fgc.ca.gov&gt;</td><td></td><td></td></fg<>	C@fgc.ca.gov>		
Subject: RE: Petition	n Amendment Rec	quest				

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I also revised the last email to reflect the new page number references in yellow highlighter. I also clarified R7 as requested by Susan Ashcraft in the petition 2023-23MPA below.

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*Rationale*: This change is to the tense of the word "is" to become "was". We had hoped to work in MPAs with a Scientific Collecting Permit and pre-applied with the Department for 22 months, but we did not obtain the permit. A SCP was instead granted to UCSC in 2024 at the sites we proposed.

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*Rationale*: This amendment is intended to address concerns by opposition parties and develop a consensus. Because there are many interrelated and dependent parts to this petition and passage of any part is uncertain, it is important that each petition be more independent. For example: if the SMCAs are designated as SMRs but kelp canopy pruning is not allowed, it would shut down the Monterey Abalone Company or if the KRMP component is not implemented then there is no mechanism to sunset the SMR designation. Because the process of obtaining Adaptive

Management changes on the Central Coast may take more than 17 years, fishers are understandably reluctant to rely on Adaptive Management to reopen fishing in SMRs when fish stocks recover in the future. Changing SMCAs to have a provision for Kelp Restoration Management Permit fishing prohibition deconflicts the fishing and diving activities and puts a sunset date on the fishing prohibition which allows for depleted rockfish stocks in the SMCAs to recover.

While we understand that prohibiting fishing benefits kelp forests and biodiversity, the fishers deny the science is conclusive. Fishing is detrimental to kelp forests and is exacerbated by culling urchins that benefit the snails that eat the urchin carcasses and kelp. G2KR is not staffed to counter the fisher's assertions and so we will rely on the rationale that fishing in a kelp restoration site is a deadly conflict of activities. There is a similar petition 2023-33 for changing MPA designations in Santa Cruz that can argue the DMR scientific findings, and we will defer to Laura Deehan and Environment California to pursue that rationale in places without the compounding influence of kelp restoration activities and conflicting uses.

#### R3

*Specific Change*: Page 5. We propose that <u>a portion of</u> the Tanker's Reef enforcement area be designated the Tanker's Reef State Marine Reserve (working title).

*Rationale*: Add the words "a portion of" to the description. The enforcement area was set very large for enforcement purposes but is larger than needed for kelp restoration purposes. The area to the east of the reserve serves as the control area where restoration efforts are not undertaken. See map below for proposed area.



A revised Tanker's Reef SMR of 193 acres from 685 acres, (23%)

#### R4

Specific Change: Page 8. We request similar fees for Kelp Restoration Management Permits.

*Rationale*: Add the word "Management" to the permit name. The working title of Kelp Restoration Management Permit more closely aligns with the State Kelp Restoration Management Plan that informs the permit framework. See R6.

#### R5

*Specific Change*: Page 8. The extension of Tanker's Reef is "noticed" at the FGC and hopefully will be extended 5 years, but the point is that <u>Re</u>storation should lead the activity and scientific experiments should evaluate, but not interfere with, or seek to end, the restoration effort.

*Rationale*: Delete a portion of the sentence. Our request to extend Tanker's Reef for 5 years was denied for the sake of the scientific experiment and anticipation of the SCP in R1.

#### R6

*Specific Change*: Page 9. We ask that these issues be repaired in the SCP software and Kelp Restoration <u>Management Permit</u> Project approval process.

Rationale: Revised the working title of the permit. See R4.

# **R7**

### **Overlooked** Petition:

Page 9. Public Outreach by FGC and the Department is requested and should be reflected in the petition breakdown into subparts.

The petition reads:

#### Public Outreach

This petition asks the FGC to affirm kelp restoration as public policy in MPAs and to celebrate community collaboration in kelp restoration, mitigating climate change, and conserving biodiversity in public outreach to stakeholders and encourage ocean stewardship. At the October 12 FGC meeting the commissioners suggested kelp practitioner leadership be unified under an "Adopt a Reef" community program, which is a wonderful idea, and we ask the commission to consider our proposed sites as G2KR adopted reefs. We ask that FGC and the Department promote kelp restoration collaboration on their website and in public outreach. This is prioritized in California Marine Protected Area Decadal Management Review, near-term Priorities (ongoing- 2 years), Cornerstone Management Program, Outreach and Education, Recommendation 16. Conduct more targeted outreach to specific audiences to connect stakeholders with coastal resources and to encourage stewardship and compliance with regulations.

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governments, recreational fishers, commercial fishers, and kelp harvesters but we don't have written guidance or counter proposals from them to address their concerns. We have not received feedback on this amendment, and this is our best attempt to address concerns. We do not have consensus on this petition and/or this amendment.

Keith Rootsaert

**Giant Giant Kelp Restoration** 

Giant Giant Kelp Restoration Project			
From: Ashcraft, Susan			
Sent: Thursday, January 9, 2025 2:0	)7 PM		
To: Keith Rootsaert			
Cc: Andy Beahrs	Calla Allison		Rossi, Devon-
	G2KR Te	am <action@g2kr.com>;</action@g2kr.com>	FGC
<fgc@fgc.ca.gov></fgc@fgc.ca.gov>			
	<b>_</b>		

Subject: RE: Petition Amendment Request

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- 1. Could you please add the map image of your revised proposed SMR boundaries to the FGC 1 form (preferably after the description on page 5)?
- 2. Do you plan to make other changes? If not, when you re-send with the map inserted into FGC 1, let us know this is your amendment request and we will forward for review to CDFW

Thank you,

Susan

From: Keith Rootsaert		
Sent: Saturday, December 28, 2024 2	2:06 PM	
To: FGC < <u>FGC@fgc.ca.gov</u> >		
Cc: Andy Beahrs	Calla Allison	Ashcraft,
Susan	G2KR Team < <u>action@g2kr.com</u> >	
Subject: Petition Amendment Reque	est	

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From: G2KR Team <		>			
Sent: Monday, Janu	ary 13, 2025 10:38	AM			
To: Ashcraft, Susan			Keith	Rootsaert <	>
Cc: Andy Beahrs <	>; (	Calla Allison <			>; Rossi, Devon-
Contractor@FGC <		>; FGC	<fgc@fg< td=""><td>c.ca.gov&gt;</td><td></td></fgc@fg<>	c.ca.gov>	
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To: FGC < <u>FGC@fgc.ca.gov</u> >		
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Susan	G2KR Team < <u>action@g2kr.com</u> >	
Subject: Petition Amendment Reque	est	

Dear FGC staff,

This email serves as our **Notice of Intent to Amend** and **Petition Amendment Request** for FGC Petition 2023-23MPA. See attached amended petition 2023-23-MPAR.

# R1

*Specific Change*: Page 3. In Monterey the community led group Giant Giant Kelp Restoration Project has successfully defended a kelp forest at Tanker's Reef and is <u>was</u> aspiring to restore large kelp forests on both sides of the Monterey Peninsula by SCP.

*Rationale*: This change is to the tense of the word "is" to become "was". We had hoped to work in MPAs with a Scientific Collecting Permit and pre-applied with the Department for 22 months, but we did not obtain the permit. A SCP was instead granted to UCSC in 2024 at the sites we proposed.

# R2

*Specific Change*: Page 4. Add the following paragraph: <u>Recreational sportfishers and kelp</u> harvesters have expressed opposition to changing SMCAs to SMRs. The fishers feel that they will never get to fish in these areas again without a reversing petition that would be time consuming and difficult to obtain from FGC. The kelp harvester is only permitted to harvest kelp in non-SMRs and even though kelp harvest is part of our restoration plan, the concern is that the MPA designation may occur without an allowance for kelp harvest for abalone aquaculture. Although kelp harvest is essential for giant kelp resilience and survivorship, the Department and OPC don't acknowledge this interaction. To obtain a consensus of proponents we ask the Department to consider keeping the SMCA designation and writing in a SMCA specific rule that when a Kelp Restoration Management Permit is active, fin fishing is not allowed.

*Rationale*: This amendment is intended to address concerns by opposition parties and develop a consensus. Because there are many interrelated and dependent parts to this petition and passage of any part is uncertain, it is important that each petition be more independent. For example: if the SMCAs are designated as SMRs but kelp canopy pruning is not allowed, it would shut down the Monterey Abalone Company or if the KRMP component is not implemented then there is no mechanism to sunset the SMR designation. Because the process of obtaining Adaptive Management changes on the Central Coast may take more than 17 years, fishers are understandably reluctant to rely on Adaptive Management to reopen fishing in SMRs when fish stocks recover in the future. Changing SMCAs to have a provision for Kelp Restoration Management Permit fishing prohibition deconflicts the fishing and diving activities and puts a sunset date on the fishing prohibition which allows for depleted rockfish stocks in the SMCAs to recover.

While we understand that prohibiting fishing benefits kelp forests and biodiversity, the fishers deny the science is conclusive. Fishing is detrimental to kelp forests and is exacerbated by culling urchins that benefit the snails that eat the urchin carcasses and kelp. G2KR is not staffed to counter the fisher's assertions and so we will rely on the rationale that fishing in a kelp restoration site is a deadly conflict of activities. There is a similar petition 2023-33 for changing MPA designations in Santa Cruz that can argue the DMR scientific findings, and we will defer to Laura Deehan and Environment California to pursue that rationale in places without the compounding influence of kelp restoration activities and conflicting uses.

#### R3

*Specific Change*: Page 5. We propose that <u>a portion of</u> the Tanker's Reef enforcement area be designated the Tanker's Reef State Marine Reserve (working title).

*Rationale*: Add the words "a portion of" to the description. The enforcement area was set very large for enforcement purposes but is larger than needed for kelp restoration purposes. The area to the east of the reserve serves as the control area where restoration efforts are not undertaken. See map below for proposed area

#### R4

Specific Change: Page 7. We request similar fees for Kelp Restoration Management Permits.

*Rationale*: Add the word "Management" to the permit name. The working title of Kelp Restoration Management Permit more closely aligns with the State Kelp Restoration Management Plan that informs the permit framework. See R6.

#### R5

*Specific Change*: Page 7. The extension of Tanker's Reef is "noticed" at the FGC and hopefully will be extended 5 years, but the point is that <u>R</u>estoration should lead the activity and scientific experiments should evaluate, but not interfere with, or seek to end, the restoration effort.

*Rationale*: Delete a portion of the sentence. Our request to extend Tanker's Reef for 5 years was denied for the sake of the scientific experiment and anticipation of the SCP in R1.

*Specific Change*: Page 8. We ask that these issues be repaired in the SCP software and Kelp Restoration <u>Management Permit</u> Project approval process.

Rationale: Revised the working title of the permit. See R4.

### **R7**

#### Overlooked Petition:

Page 8. Public Outreach by FGC and the Department is requested and should be reflected in the petition breakdown into subparts.

#### Please note

Petition 2023-23MPA was submitted 11/29/23. The MPA binning process delayed evaluation and consideration into 2025. FGC asking for petitioners to engage with organized opposition and creating corresponding amendments is an additional burden to unfunded public petitioners to revise plans even before the Department considers the petition. It is not clear how much to weaken the petition before it is historically opposed by the Department of "No". How many cards should we take when the dealer is showing a face card? We engaged with the public, G2KR divers, local governments, recreational fishers, commercial fishers, and kelp harvesters but we don't have written guidance or counter proposals from them to address their concerns. We have not received feedback on this amendment, and this is our best attempt to address concerns. We do not have consensus on this petition and/or this amendment.

Keith Rootsaert

Giant Giant Kelp Restoration



# Tracking Number: (<u>202</u>3-27MPA\_AM1)

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 (Required) Name of primary contact person: Azsha Hudson Address: Telephone number: Email address:
- 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) Summarize the proposed changes to regulations: This petition seeks to reclassify the Anacapa State Marine Conservation Area (SMCA) as a State Marine Reserve (SMR) or at a minimum reclassify the portion of the SMCA from shore to at least 30 meters depth to better protect eelgrass habitat.

This petition seeks to protect the eelgrass meadows located in the Anacapa Island State Marine Conservation Area (SMCA) from hard bottomed objects such as the gear type listed for the commercial lobster fishery and anchors used for vessels. We ask the Commission to evaluate the below solutions and choose the one that best protects the eelgrass meadow while allowing for community access:

- <u>Change current regulations to disallow commercial lobster fishing year round</u>
- <u>Change current regulations to disallow hard bottomed fishing gear (including anchoring if applicable) near eelgrass meadows</u>
- <u>Change the existing border, prohibiting the deployment of lobster traps from 0-30</u> meters (0-98.43 feet) instead of the existing 0-20 feet



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 2 of 4

4. **Rationale (Required) -** Describe the problem and the reason for the proposed change:

Numerous state and federal policies underscore the importance of eelgrass as an important yet vulnerable species that provides nursery habitat for fish, reduces coastal erosion, acts as a carbon sink, and increases species diversity by providing three-dimensional structure on sandy bottomed habitats.

Based on a scientific study conducted at the Anacapa SMCA from 2016 to 2019<sup>1</sup>, and a growing body of literature on eelgrass recruitment and ecology, there is compelling evidence that seasonally occurring lobster trapping and anchoring in the SMCA is destroying eelgrass beds that are otherwise thriving in the adjacent Anacapa SMR.

The limited subset of pelagic fishing methods allowed at the Anacapa SMCA also creates challenges for enforcement by requiring officers to board vessels and confirm compliance on an individual basis. This petition requests Fish and Game Commission (FGC) approval to support the goals of the Marine Life Protection Act (MLPA), align with state and federal policies focused on eelgrass resilience and health, and protect important eelgrass and associated marine life at Anacapa Island.

# **SECTION II: Optional Information**

5. Date of Petition: 11/17/2023 AMENDED 1/17/2025

# Category of Proposed Change

- - C Agmmercial Fishing

X Other, please specify: MPAs, Section 632.

- 7. The proposal is to: (*To determine section number(s), see current year regulation booklet or <u>https://govt.westlaw.com/calregs</u>)
  X 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 X Not applicable.
- 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: November 1, 2024-2025

<sup>&</sup>lt;sup>1</sup>Jessica Altstatt (2021). Island Eelgrass (*Zostera pacifica*): Focused Assessment of Condition and Extent of Meadows and Biological Monitoring of Associated Fish and Invertebrate Communities



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 3 of 4

- **10. Supporting documentation:** Identify and attach to the petition any information supporting the proposal including data, reports and other documents:
  - Petition narrative on eelgrass at Anacapa SMCA
  - White paper research from Jessica Alstatt.
- **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:

This petition protects habitat that confers biodiversity and biomass benefits that enhance the health of Anacapa Island and surrounding ecosystems. Eelgrass beds filter nutrients, stabilize sediments, and increase complexity of the substrate and effective habitat for marine life. As demonstrated by numerous reports of lobster traps "fishing the line" of the Anacapa SMR, fishers perceive that the nearby fully protected MPA has created a beneficial habitat for lobster trapping. Notably, a recent study on the California spiny lobster fishery determined that the short-term losses from a restrictive MPA is compensated by an over 200% increase in total catch after about 6 years of MPA designation.<sup>2</sup>

This petition <u>is intended to protect</u> <del>would close</del> the Anacapa SMCA <u>eelgrass meadow and</u> <u>associated biodiversity from</u> to lobster trapping <u>which occurs</u> during the months of November and December. <u>The proposed amendment would extend the prohibition to include these</u> <u>months.</u> and would also prevent anchoring damage from pelagic fishing efforts. <u>The three</u> <u>potential options we offer to the Commission</u> <del>While converting this SMCA into an SMR</del> may have short term impacts on recreational and commercial fishing, any such impacts will be offset by the long-term ecosystem wide benefits of protecting eelgrass function at this valuable site.

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

Click here to enter text.

# SECTION 3: FGC Staff Only

Date received: 11/17/2023 AMENDED 1/17/2025

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:

<sup>&</sup>lt;sup>2</sup> Lenihan, H.S., Gallagher, J.P., Peters, J.R. et al. Evidence that spillover from Marine Protected Areas benefits the spiny lobster (Panulirus interruptus) fishery in southern California. Sci Rep 11, 2663 (2021). https://doi.org/10.1038/s41598-021-82371-5



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 4 of 4

□ Denied by FGC

 $\Box$  Denied - same as petition

Tracking Number

Granted for consideration of regulation change



January 17, 2025

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

# Re: <u>Anacapa Island State Marine Conservation Area (2023-27MPA) Revised</u> <u>Petition Cover Message</u>

Dear President Murray and honorable commissioners:

In November 2023, the Environmental Defense Center ("EDC") submitted a petition (2023-27MPA) to reclassify the Anacapa Island State Marine Conservation Area ("Anacapa SMCA") as a State Marine Reserve ("SMR") or, at a minimum, to reclassify the portion of the SMCA from shore to at least 30 meters depth to better protect eelgrass habitat. We now request that the Fish and Game Commission ("FGC") and California Department of Fish and Game ("CDFW") evaluate the below solutions and choose the one that best protects the eelgrass meadow while allowing for community access:

- Change current regulations to disallow commercial lobster fishing year round
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We came to the above alternative solutions after extensive and ongoing community outreach (please refer to EDC's July 31, 2024, letter re: Petition for Anacapa State Marine Conservation Area – Agenda Item 6(c) for more detailed explanation (see attached). The goal of our petition is to protect the historic eelgrass meadow that has gone through rehabilitation and replantation efforts and is being directly threatened by hard bottomed lobster traps, with potential impact from other hard bottomed items like anchors.

Sincerely,

Azsha Hudson Marine Conservation Analyst & Program Manager

906 Garden St. Santa Barbara, CA 93101 PHONE (805) 963-1622 www.EnvironmentalDefenseCenter.org



January 17, 2025

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

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State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 1 of 41

# Petition2025-15MPA Amendment Cover Message

The revisions to this petition involve two sets of informational changes: amendments to the original petition actions and additional stakeholder feedback/rationale that has been gathered over the last year.

Petition actions being revised:

- Modification of options 3 and 4 in the original petition to align with federal feedback and existing regulations in Groundfish Exclusion Areas (GEAs). Rather than only allowing "surfacefishing-methods" the options now restrict "bottom-contact-gears," like the GEAs. This change was made so that entirely new language and definitions do not need to be drafted in a case options 3 or 4 are selected. (Located on page 3, 11, and 18)
- Addition of a 5<sup>th</sup> and 6<sup>th</sup> option consisting of only non-hook-and-line gear methods for consideration, this is not an additional action, just a different combination of allowable methods from the original petition. The new options 5 and 6 would only allow recreational spearfishing of pelagic finfish (option 5) or highly migratory species (option 6) and would allow the commercial take of swordfish by harpoon (options 5 and 6). These options were added to be the least invasive as possible in terms of take, be possibly easier to enforce than the other hook-and-line options and would solve the commercial swordfish gear drift problems for harpoon gears (but not for DSBG). (Located on page 3 and 18)
- Modification of the optional nearshore/offshore MPA boarder at the Santa Barbara Island MPA to a straight line between two points of latitude and longitude versus the original boarder being the 1 nautical mile line from the island. The reason for this change is to align to the MPA design criteria set in the MLPA which states to not use odd shapes or curves, only straight lines between tenth or whole minute latitudes and longitudes. (Located on page 3, 19, and 20)
- Modification of how deep-set-buoy-gear (DSBG) will be considered in the petition. Currently
  DSBG is only a federal fishery and still in its EFP stage at the State level, consideration of its
  allowance inside the state waters of MPAs will remain pending with the FGC and CDFW until
  DSBG is a state fishery. Until then, only a federal process may allow DSBG in the federal
  portions of the MPAs. Therefore, DSBG has been isolated from all of the options, now having
  its own action section due to the unique case of that process. (Located on page 4, 16, and 17)

Additional stakeholder feedback/rationale being added:

- Commercial swordfish gear(s) uncontrollable movement into primarily these MPAs, per MDFE effort data, poses problems that must be resolved. (Located on pages 11-13)
- Naval closures local to the Channel Islands restricting most offshore fishing opportunity except near two of the petition MPAs. (Located on page 13)
- Additional information pertaining to adaptive management, the MPA Master Plans (2008 and 2016), the MLPA, and climate resiliency in the scope of this specific petition. (Located on pages 14-15)



# Tracking Number: (\_2023-15MPA\_AM2\_)

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).

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# **SECTION I: Required Information.**

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

- 1. Person or organization requesting the change (Required) Name of primary contact person: Blake Hermann Address: Telephone number:
  - Email address:
- 2. **Rulemaking Authority (Required) -** Reference to the statutory or constitutional authority of the Commission to take the action requested:

-Fish and Game Code (FGC) Division 1, Chapter 2, Sections 200, 205c, 265, and 399

-Fish and Game Code (FGC) Division 2, Chapter 5, Sections 1590 and 1591

-Fish and Game Code (FGC) Division 3, Chapter 10.5, Sections 2860 and 2861

-Fish and Game Code (FGC) Division 6, Chapter 6, Section 6750

-Public Resource Code (PRC) Division 27, Chapter 7, Sections 36725(a) and 36725(e)

3. Overview (Required) - Summarize the proposed changes to regulations:

This petition requests a modification to three Marine Protected Areas (MPAs) off Southern Santa Cruz Island and Santa Barbara Island, known as the Footprint Marine Reserve (The Footprint), Gull Island Marine Reserve (Gull Island), and The Santa Barbara Island Marine Reserve (SBI). The Footprint and Gull Island Reserves are located on the southeast and southwest sides of Santa Cruz Island respectively, and the SBI Reserve is located on the southeast corner of Santa Barbara Island.

This petition requests, for the reasons stated in the accompanying sections, that The Footprint, Gull Island, and SBI Reserves be modified and partially opened and converted into limited take conservation areas with implementation of one the following options (listed from the most to least allowances):



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 3 of 41

Option 1: The least restrictive option, with some existing precedent SCMAs (2<sup>nd</sup> preferred option):

- The recreational take of pelagic finfish\* by hook-and-line and spear is allowed.
- The commercial take of pelagic finfish\* by hook-and-line, and swordfish by harpoon is allowed.
- Deep-Set-Buoy-Gear (DSBG) is allowed in the federal portions of the proposed MPAs. \*\*

Option 2: Elevated protections in species selectivity (<u>1<sup>st</sup></u> preferred option):

- The recreational take of Highly Migratory Species (HMS)\* by hook-and-line and spear is allowed.
- The commercial take of Highly Migratory Species (HMS)\* by hook-and-line, and swordfish by harpoon is allowed.
- The possession of Coastal Pelagic Species (CPS) is allowed.
- Deep-Set-Buoy-Gear (DSBG) is allowed in the federal portions of the proposed MPAs. \*\*

Option 3: Option 1 with only allowance of "surface fishing methods:" \*\*\*

- The recreational take of pelagic finfish\* is allowed via surface fishing methods.
- The commercial take of pelagic finfish\* by hook-and-line via surface fishing methods, and swordfish by harpoon are allowed.

Option 4: Option 2 with only allowance of "surface fishing methods:"

- The recreational take of Highly Migratory Species (HMS)\* is allowed via surface fishing methods.
- The commercial take of Highly Migratory Species (HMS)\* by hook-and-line via surface fishing methods, and swordfish by harpoon are allowed.
- The possession of Coastal Pelagic Species (CPS) is allowed.

Option 3: Same as option 1 with restriction of "bottom-contact-gears." (4th preferred option)

- <u>The recreational take of pelagic finfish is allowed by hook-and-line</u> and spear, except through the use of bottom-contact-hook-and-line and bottom contact gears, which is restricted.
- <u>The commercial take of pelagic finfish by hook-and-line is allowed, except through the use of bottom-contact-hook-and-line and bottom contact gears, which is restricted.</u>
- The commercial take of swordfish by harpoon is allowed.

Option 4: Same as option 2 with restriction of "bottom-contact-gears." (3rd preferred option)

- <u>The recreational take of highly migratory species is allowed by hook-and-line and spear,</u> except through the use of bottom contact hook-and-line and bottom contact gears, which is restricted.
- The commercial take of highly migratory species by hook-and-line is allowed, except through the use of bottom-contact-hook-and-line and bottom contact gears, which is restricted.
- The commercial take of swordfish by harpoon is allowed.
- The possession of coastal pelagic species is allowed.

Option 5: non-hook-and-line of pelagic finfish (6th preferred option):

- The recreational take of pelagic finfish by spear is allowed.
- The commercial take of swordfish by harpoon is allowed.

Option 6: non-hook-and-line of highly migratory species (5th preferred option):

The recreational take of highly migratory special by spear is allowed.



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 4 of 41

• The commercial take of swordfish by harpoon is allowed.

# Deep-Set-Buoy-Gear (DSBG):

DSBG, currently being a federal exclusive fishery, would need to be considered inside of these areas through a federal stakeholder process and would ultimately only allow DSBG in the federal water portions of these MPAs. Analysis of allowing DSBG inside of the state water portions of these MPAs will remain pending with the FGC and CDFW until it passes the EFP stage, becoming an official state gear type, and if one of the above options is grated entirely or in-part.

Each of the above options **may** also include a reduced in size, more selective, limited-take or notake zone within the Gull Island and SBI zones. However, as discussed later, these areas are only needed if Options 1 or 3 are selected (See Attached: Full Analysis Document 1).

\*List of State HMS, CPS, and Pelagic finfish per Title 14 CA § 1.49, 1.39, and 632(3):

-Highly migratory species means any of the following: albacore, bluefin, bigeye, and yellowfin tuna (Thunnus spp.); skipjack tuna (Katsuwonus pelamis); dorado (dolphinfish) (Coryphaena hippurus); striped marlin (Tetrapturus audax); thresher sharks (common, pelagic, and bigeye) (Alopias spp); shortfin mako shark (Isurus oxyrinchus); blue shark (Prionace glauca); and Pacific swordfish (Xiphias gladius).

-Coastal pelagic species means any of the following: northern anchovy (Engraulis mordax), Pacific sardine (Sardinops sagax), Pacific mackerel (Scomber japonicus), jack mackerel (Trachurus symmetricus), and market squid (Loligo opalescens).

-Pelagic finfish, are a subset of finfish defined as: northern anchovy (Engraulis mordax), barracudas (Sphyraena spp.), billfishes (family Istiophoridae), dolphinfish (Coryphaena hippurus), Pacific herring (Clupea pallasi), jack mackerel (Trachurus symmetricus), Pacific mackerel (Scomber japonicus), salmon (Oncorhynchus spp.), Pacific sardine (Sardinops sagax), blue shark (Prionace glauca), salmon shark (Lamna ditropis), shortfin mako shark (Isurus oxyrinchus), thresher sharks (Alopias spp.), swordfish (Xiphias gladius), tunas (family Scombridae) including Pacific bonito (Sarda chiliensis), and yellowtail (Seriola lalandi).

\*\*Deep-Set-Buoy-Gear (DSBG), if allowed, would **only** be allowed beyond the 3nm line, outside of state waters, as is currently fished. Barring any future changes or exempted fishing permits (EFPs).

\*\*\*See Full Analysis Document attachment (Document 1) for detailed description.

4. **Rationale (Required) -** Describe the problem and the reason(s) for the proposed change:

# The Problem:

Initially established in 2003 and federally expanded in 2006, the Channel Islands MPA network containing The Footprint, Gull Island, and SBI Reserves was the first network of its kind in California history. This island network later expanded into the statewide MPA network during coastal implementation phases from 2007-2012. The problem created by these first MPAs was the unintentional protection of seasonal pelagic and highly migratory species that migrate into Southern California during the summer months.

The allowance of limited pelagic or highly migratory take in these areas falls in line with the adaptive management measures set forth in the Decadal Management Review (DMR) and reinforced by the Marine Resource Council's (MRC) near-term recommendations. The proposed changes also fall in line with the MPA Master Plan and align with FGC comments on previous change request petitions.

While maintaining the original intentions for the creation of the MPAs, the proposed changes will have minimal impacts on the ecosystem due to the selective nature of the gear being recommended and highly mobile species it would allow for.

State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 5 of 41

# Summary of the reasons for change:

This petition aims to prove this proposal is justified by showing the following\*:

- Limited take of pelagic finfish or HMS does not significantly affect or interfere with the species and features the MPAs aim to protect
- The proposed changes provide better equality of MPA policy across the state
- The 20 years of data from these and other MPAs support the proposed changes
- The proposed changes are in line with MPA decadal management review (DMR) comprehensive recommendations and the near-term priority recommendations of the marine resource committee (MRC)
- The proposed changes follow precedent set by the FGC's comments on previously submitted petitions, the current MPA overviews, the 2016 MPA master plan for the southern section, and the original 2002 MPA CEQA for the Channel Islands Network
- The proposed changes exclusively allow for sustainable fishing methods on no at risk populations/species
- The proposed changes support sustainable commercial fisheries the state and NOAA have expressed desire to further expand
- The proposed changes are reasonably enforceable (per discussions with F&G officers)
- The proposed changes have mass public support from the public, fishery groups, nonfishery groups, and conservation organizations

If implemented the resulting changes may have the following effects:

- The Channel Islands MPA network would be updated to allow for a more equitable 60/40 no-take to limited take closure ratio, which would be in line with the state's ratio
- Would provide new fishing opportunities to sustainable recreational and commercial fisheries while producing minimal impacts to the intended protected structures and species
- Provide new research opportunities for observing previous no-take zones under new allowance of pelagic or HMS limited-take
- Help grow local business and further develop the local and state economy

\*Further detailed explanations, analysis, and figures are included in Document 1, and the remaining documentation in the "Supporting Documentation" section.

# **SECTION II: Optional Information**

- 5. Date of Petition: Submitted-11/22/2023 AMENDED 3/14/2025
- 6. Category of Proposed Change
  - Sport Fishing
  - Commercial Fishing
  - □ Hunting



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 6 of 41

Other, please specify: Click here to enter text.

- 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): Division 1, Subdivision 2, Chapter 11, § 632
  - $\Box$  Add New Title 14 Section(s):.
  - □ Repeal Title 14 Section(s):

\*See Document 20 for State and Federal Code modifications example

- 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: Due to the change regarding modifying existing MPAs that cover both State and Federal waters, the federal bodies (NOAA, NMS, and PFMC) must mirror the above changes in their portions of the MPAs to allow for reasonable enforcement of these areas. Due to the lack of precedent, this being the first time the FGC is allowing petitions for individual or groups of MPAs to be modified, new channels need to be opened in order to facilitate such changes. A reasonable amount of time for all parties (state, federal, and public) to review and confirm the reasonings and data provided is required. This petition simply requests this change be made as soon as is practical.
- 10. **Supporting documentation:** Identify and attach to the petition any information supporting the proposal including data, reports and other documents:

*Document 1*: Complete, in-depth analysis of the prescribed changes and key points including weighing out the aforementioned change options, scientific basis, and stock assessment analysis.

# Why Change These MPAs?

California's MPA network has provided valuable data for researchers allowing for observations of small-scale ecosystems in their raw form with no human intervention. That being said, all research focuses on the local non-pelagic species in these areas. The reasonings for this will be discussed later in depth but is a result of the massive area pelagic populations cover making their net presence the same everywhere. It is for this reason that if changes are made, the local non-pelagic species will remain unaffected, and still be protected under the proposed changes.

This petition aims to prove that specific limited-take allowances will not significantly interfere with the populations the MPAs aim to protect. This petition requests 3 current MPAs be modified to limited take in order to allow for sufficient numbers of no-take zones to still remain in the Channel Islands Network for research and public non-consumptive use (approximately 60% of the island network will remain no-take zones).

With the proposed change, there lies immense research opportunity in filling gaps in our knowledge. Never has a no-take MPA been converted into a limited-take zone. If there are factors that limited-take of pelagic or HMS does have on the local, non-pelagic populations (currently none are known), this change would allow for a whole new branch of research to take place; observing converted no-take zones after 20 years of historical data.



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 7 of 41

This petition acknowledges the need for no-take MPAs around the Channel Islands to act as a baseline to research as well as areas for the public to view undisturbed waters, and if implemented approximately 60% of the island network would remain no-take. This would mirror the state average for no-take zones. This petition also acknowledges there is no reason to request for a limited take zone in an area far offshore or often locked by foul weather that would theoretically only be fished a handful of times a year. These areas were selected for the reason that they offer sufficient new opportunities to the fishing community and researchers if the no-take areas are converted into limited-take areas.

A unique fact of these three MPAs, and other MPAs in the Channel Islands network is their expansion beyond state waters, something we see nowhere else in the state. All three of these MPAs are part of this subset of state/federal MPAs, extending 6nm from the islands compared to the traditional 3nm a normal MPA would cover. This means for this specific petition, if changes are made, both State and Federal changes should be mirrored to allow for reasonable enforcement and streamlining of regulations. The Commission and CDFW would likely need to partner with NOAA and the Channel Islands National Marine Sanctuary (CINMS) to make these dual zone changes within each MPA. Therefore, this petition will also be addressing NOAA/CINMS and federal fisheries in addition to the Commission and state, so all agencies are aware of the changes being requested and the supporting factors for this change.

#### The First California MPAs:

The Channel Islands MPA network was the first set of MPAs in California history. Established in 2003, the state closures were expanded in 2006 into federal waters, completing the Channel Islands MPA network. The first state MPAs off the central coast were then implemented one year later, in 2007, beginning the statewide network. The Channel Islands MPAs had no accompanying southern section coastal MPAs until the southern section's implementation in 2012, which also marked the completion year of the state MPA network and nearly a decade of existence for the Channel Islands MPAs.

Being the first, the Channel Islands Network acted as a baseline, moving the state into previously unexplored territory, that today has grown into the current network. That being said, these first MPA implementations were not perfect. We have learned a lot since their creation, from better understandings of both non-pelagic and pelagic species to new closures ideas that followed in the four coastal MPA regions. Now that we have had more than 20 years to observe how this island network acts, it is time to make fine-tuned adjustments in order to modernize the Channel Island network to better mirror the remaining state network and the latest research.

# MPA Intentions - Focus on Local Non-Pelagic Species:

Being the first set of MPAs and covering both state and federal waters, the state partnered with the Channel Islands National Marine Sanctuary (CINMS) and NOAA to develop a plan in order to determine how the Channel Islands MPA network would look. In the end, a two-part CEQA was developed that laid out the MPA plan for the Channel Islands network, in which the broad and specific reasonings for The Footprint, Gull Island, and SBI reserves were discussed (*Docs. 3-5*).

Broadly speaking all three of these Channel Islands MPAs were put into effect either around common invertebrate/fishing grounds or were built off of an existing invertebrate closure (SBI). The CEQA acknowledges that placing MPAs around these zones may have congested fishing efforts elsewhere and may slow fisheries short-term. However long-term, it was the belief that these protected areas would act as a sort of oasis, growing mass populations inside that would expand out as they grow to capacity inside reserves. These populations would then radiate from these areas and would in turn help fisheries over time.



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 8 of 41

We can see the idea of protecting the local, nearshore species of the Channel Islands very evident in each of the three MPA justifications in the CEQA (*Docs. 3-5*), the 2016 MPA master plan goals (*Doc. 10*), and the published MPA overviews (*Docs. 7-9*).

According to the CEQA, The Footprint was originally established with the primary intention to protect the unique rocky reefs and rebuild the rockfish populations (*Doc. 7*), The CEQA discussed the depleted groundfish stocks at the time and mentioned how they would benefit the most from the MPA's implementation. The Gull Island and SBI reserves also discuss deep water reefs and rockfish, but focus more on endangered bird nesting grounds, abalone populations, and the more diverse, nearshore species along the islands they border (*Docs. 8 and 9*). The broad implication of the MPAs in the CEQA was the intention that local populations of fish, birds, and mammals inside the MPAs would, "respond to protection within the reserve through increased density, individual size, and reproductive potential," (*Docs. 3 and 4*).

This logic is something we see echoed today in the modern MPA overviews of the three MPAs and the goals of the MPA Master Plan (*Doc. 10*). In the MPA overviews under, "Why was this location chosen for a state marine reserve?" we still see reasons such as the protection of canyons, rocky reefs, pinnacles, kelp forests, and rocky nearshore habitats for local non-pelagic species including copper rockfish, sheepshead, cowcod, and bocaccio. However, there is zero mention of any pelagic or HMS in these overviews. This point is further reinforced by the southern section MPA master plan, where under its goals, states its intentions revolve around protecting the ecosystems within the MPAs and help rebuild rare or depleted populations of species that are, "more likely to benefit from MPAs," and, "Protect selected species and the habitats on which they depend while allowing some commercial and/or recreational harvest of migratory, highly mobile, or other species; and other activities," (*Doc. 10*). All of these protective goals are catered to the local species of non-pelagic fish, while the pelagic goals clearly state that pelagic and HMS should have limited take areas, something that the Channel Island network severely lacks compared to the rest of the state.

#### **Proposed Changes Effect on the Original MPA Intentions:**

As mentioned, the original and current goals of these three MPAs revolve around protecting the local, non-pelagic, and nearshore species within them. The idea of a radiating effect helping fisheries around MPAs does indeed hold merit for local populations of non-pelagic species. Species like groundfish that could in theory live, feed, and spawn all within one MPA are a prime example of this working as intended today. A groundfish that may have lived its entire lifecycle inside of a protected area, will only affect that local protected area if that individual was taken. This is why if implemented, the changes would still protect all invertebrates and non-pelagic species, such as rockfish, leaving the original science backed protections, and MPA intentions, in effect.

In regard to these intentions for pelagic or HMS, limited pelagic or HMS take would not noticeably affect any of the pelagic or HMS populations within our waters. This is the case since pelagic and HMS are either highly mobile or seasonal migrators, moving with currents rather than remaining on structure or in a small MPA zone. It is one thing if an entire or significant population of a species live inside a protected area, but for species that live and move over a vast area, these MPAs are negligible in helping their population. Species that live and feed over massive areas of ocean, and spawn hundreds of miles away from the network are intrinsically less affected by a small area they may or may not pass through each year. Unlike the non-pelagic species covered in the CEQA, Master Plan, and modern overviews, pelagic species' population densities, individual sizes, and reproductive potentials are not meaningfully affected by these MPAs. Populations would essentially remain as affected by human impacts whether this proposal goes into effect or not due to the protected areas covering so little of the area they live in. This is something that was actually touched on in the CEQA, where it is stated, "No-take areas, so long as their size is large relative to the



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 9 of 41

**movement** of the species, will lead to increased (species) abundance," (*Doc. 6*). Essentially, due to pelagics and HMS covering so much area throughout their travels, the impact on a pelagic or highly migratory species being protected inside the existing MPAs is near zero. Therefore, there is no scientific basis to leave protections for these species in effect within these three MPAs.

A prime example is the swordfish, one of the three primary species that would be reasonably targeted inside the MPAs if partially opened. Satellite tag data from the Pfleger Institute of Environmental Research (PIER) (*Doc. 15*) shows tagged swordfish off southern California traveling from the tag location to as far south as Cabo (900 nm), or nearly as far west as Hawaii (1900 nm) to spawn in the winter/spring. They then migrate back to Southern California one year later in the summer to feed. Like the swordfish, other HMS such as marlin or tuna are also examples of species that travel massive distances every year during their migrations. These species cover so much water that the net environmental impact from small areas like these MPAs is near zero. It is for this reason the petition requests that pelagic or highly migratory species are able to be targeted inside of these three areas.

# Following MPA Reports, The Need for Adaptive Management:

In January 2023 the DMR of the State's MPA network was published and contained comprehensive recommendations including the following considerations:

- "Allow take of migratory and pelagic species in MPAs that currently do not allow it" and
- "Return MPA fishing opportunities, especially in legacy fishing areas that were previously open to fishing." (*Doc. 12*)

The Footprint, Gull Island, and SBI Reserves fall under legacy pelagic fishing areas, being once completely open. In alignment with the DMR, these legacy areas can be justifiably re-opened to the limited take of pelagic or HMS per the recommendations.

This change is also supported by the recommendation of the Marine Resource Committee (MRC), as outlined in the networks near-term priorities from the DMR. Stating we must, "Apply what is learned from the first Decadal Management Review to support proposed changes to the MPA Network and Management Program." We have had ample time to observe these MPAs over their two-decade existence, now that we better understand the low impacts pelagic and HMS have on the network, we can justifiably adaptively manage these MPAs, opening them to limited take. In addition to the DMR and MRC recommendations the 2016 MPA master plan directly called for limited take areas of pelagic or HMS. Due to these three MPAs being the among the oldest modern MPAs, existing since 2003, it is possible the Master Plan considerations from 2016 were not as refined in 2003. This is something we can now remedy, by modifying these MPAs to modern network outlooks.

In addition to adaptive management measures there also exists a pre-DMR precedent from the FGC stating that the MPA network is not designed for pelagic or HMS. In 2020 the FGC denied a petition calling for creating a sanctuary/MPA for Great White Sharks near Carpentaria on the grounds that MPAs are intended, "[...] not (to protect) individual species, **especially highly mobile, pelagic species**," (*Doc. 11*). Following the FGC's reason for rejection, this argument can be applied to support the case for the allowance of pelagic or HMS take within the listed reserves, because these species, per their pelagic/highly migratory designation, fall into this category.

# Pursuing Equitable Policy Through Modernized SMCAs:

The MPA Network was founded on four key pillars with the innovative idea that these pillars would allow for the adaptive management of the system. One of these pillars is policy and permitting which calls for consistent policy across the network to allow for fair network governance.

After the Channel Islands MPAs were established, the remaining network followed. Comparing



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 10 of 41

the Channel Islands network to the remaining state network we see large shifts toward the partialtake state marine conservation areas (SMCAs) and less overall water coverage.

The Channel Islands network of MPAs covers 21% (318 mi<sup>2</sup>) of the total sanctuary waters. Compared to the 16% of state waters currently protected under the network, this means there is a 31% increase in protected areas around the Channel Islands than the rest of the state.

Not only is there an increased area of closures (by percentage) within the Channel Islands network, but also, significantly less relative area open to limited-take. Of the 13 various closures around the island network all but 2 are no-take sections. This only accounts for only 11.43 square miles of water of the 318 square mile closure area, or 3.59% of the sanctuary's closures. By comparison, the state network contains about 40% limited take areas. This is a wide discrepancy between the Channel Islands network and the state network (Over 10 times the relative area around the Channel Islands is no take compared to the rest of the state). If implemented, the percent area of limited take in the Channel Islands Network would roughly mirror the State's 40% limited take figure, bringing more equity to the local region. The raw figures are shown in the table below.

Table 1: Comparison of MPA (no-take) and SMCA (limited take) of the Channel Islands MPAs vsthe Entire State MPA Network

	Channel Islands MPA Network (State and Federal Waters)	State MPA Network
% of Waters Protected (no-take and limited take)	21% (~318 mi <sup>2</sup> )	16%
% of network that is No-Take	96.41% (~306.58 mi <sup>2</sup> )	60%
% of network that is limited take	3.59% (~11.41 mi <sup>2</sup> )	40%
% of network that would be limited take if changes implemented*	41.17% (~130.93 mi²)	<40%

\*This assumes the optional "nearshore" closures are not implemented and includes the Channel Islands network in the state network figures.

The goal of these changes is to allow for enough reasonable take of pelagic or HMS at comparable levels of opportunity zones to the rest of the MPA network (~40% partial take allowance). If implemented, the Channel Islands network would still have elevated protected area rates, 21% compared to the state average of 16%, but would provide a better ratio of limited take areas.

Current examples of limited take areas outside of the island network in Southern California include SMCAs such as the Pt. Dume, Abalone Cove, Blue Cavern, and Farnsworth SMCAs (*Doc. 17*), which allow for some form of pelagic finfish take. Other statewide examples of limited take SMCAs outside Southern California cater to pelagic finfish and salmon, technically not a pelagic finfish by biological definition, but a species that still covers mass distances every year. This petition simply requests that we adapt too and update the Channel Islands network to the same standards we see in the rest of California.

# **Enforcement Analysis:**

On the surface, the opening of limited take for pelagic or HMS in these current no-take MPAs could create additional enforcement issues for F&G Wardens covering these areas. However, upon talking to the warden office and local wildlife officers it was determined this was not the case. It is the intention of this petition that the changes made would be enforced similarly to how current pelagic



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 11 of 41

allowed SMCA's are enforced. For the local Ventura agency, enforcement would be identical to how officers enforce the Anacapa Island SMCA.

Discussions with the enforcement agency have indicated that there are currently no issues with enforcement in the current pelagic allowed SMCAs. It is their standpoint that the current enforcement regulations are clear and allow officers to make decisions swiftly and appropriately. The current regulation that outlines enforcement of the SMCAs is under California Code of Regulations Title 14 Section 632(a)(1)(C) (Doc. 18). To summarize the code, take or possession of species except specific individuals or groups listed is prohibited. Meaning, under the proposed regulations, the take and possession of pelagic or HMS would be allowed within the conservation area, but the take and possession of non-pelagic or non-HMS species, like groundfish, would be not allowed. There is an added exception that only possession of coastal pelagic species (CPS) would be allowed if an HMS specific option is selected (it is preferred one is). The reasoning for this addition is the allowance for such HMS targeting vessels to possess baitfish that is commonly used to target such species. Due to the clear-cut boundaries of enforcement regulations, and the input from F&G wardens, it was determined that the additional enforcement required by these changes is both minimal and overlaps with current pelagic allowed SMCAs they currently patrol and enforce. In addition, since petition submittal the new GEAs follow a very similar structure to the goals of this petition, and if offshore reefs can be designated GEAs and enforced there is little to no reason why limited take allowances to these MPAs could not be.

# Mass Public Support:

The origins of the pelagic allowed zones go back to the original implementation of the Channel Islands MPA network which includes 2 areas for pelagic take. However, the waters these two zones cover are located on the northern side of Anacapa and Santa Cruz islands, areas where very little pelagic/HMS fishing takes place. HMS fishing method trial maps for DSBG and deep drop show a clear picture of the primary pelagic/HMS grounds in southern California (*Doc. 16*). The maps clearly display most pelagic and HMS fishing occurs on the southern sides of the four northern islands. Almost no fishing efforts are made in the two northern zones. Primarily, most pelagic and HMS targeting fishing around the Channel Islands occurs 2-12 miles south of the northern islands, down the entire 4 island chain. All three of the requested MPA lie in these areas.

Fisheries that actively target or have targeted pelagic or HMS off the northern Channel Islands have wanted these types of changes since the implementation of the network and have commented both in the past and present about the desire to allow for more pelagic or HMS limited take. Comments from 2002 in the CEQA and from 2023 DMR show this desire. However, back in 2002, we did not know nearly as much about the pelagic or HMS migrations and what impacts allowing a small fishery inside these areas could be. Today this is simply not the case. We now know that this change, if implemented, will further streamline current regulations concerning pelagic or HMS, while having a net minimal impact on the local ecosystems inside these MPAs. This petition has the official backing and support of several fishery businesses, groups, and individuals, *Doc. 2 for list and letter*, and also includes a publicly signable petition containing over <del>880</del> <u>1000</u> signatures at the time of submittal.

# Included Stakeholder feedback and additional information (added January 2025)

# **Commercial Swordfish:**

<u>A large conflict that comes up with the three mentioned Channel Islands MPAs and the</u> <u>commercial swordfish fishery is the 3 MPA's current no-take allowance, which includes the retrieval of</u> <u>legally taken fish.</u>



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 12 of 41

<u>The harpoon swordfish fishery takes a swordfish by locating a basking fish on the surface and attempting to hit it with a hand thrust harpoon. Once hit, fish are left to tire on a set of gear marked with a flag, if not immediately retrievable. This soak time varies greatly, from 1-8 hours, but it is typically no longer than 2 or 3 hours. In that time, fish could pull gear several miles, 1-5 on average in my experience participating in the fishery. This movement occasionally brings gear into an MPA before being retrievable. Even if fish are taken miles away, there is still a random chance the legally taken fish on harpoon gear ends up inside the closure come retrieval time. There is nothing we can do to stop a swordfish from swimming where it wants to go while on gear.</u>

Similarly, DSBG sets 10 flags with 10 hooks at 1000ft in open waters for swordfish. Swordfish hooked with this method can move gear similarly to harpoon fish in terms of distance. This is because if a hooked fish does not come to the boat immediately, the gear is placed back in the water to let the fish tire and to monitor the remaining set, leaving legally hooked fish the possibility to move into a closure as well.

Both of these problems are more prevalent around the Channel Islands and the three MPAs mentioned in 2023-15MPA because these MPAs extend an additional 3nm offshore into federal waters, overlapping more with the more offshore swordfish-fishery grounds. Today, retrieving a dead harpoon fish or fighting/retrieving a hooked fish inside these no-take closures is illegal, something that should be resolved some way. This is especially the case for harpoon fish, as unlike DSBG fish that could be cutoff or released with a tag, harpoon fish cannot be let go once hit.

This problem is compounded in the commercial swordfish fishery due to the fishery's reliance on calm waters to eveball or locate a basking swordfish. Of the northern Channel Islands one MPAs in particular, The Footprint, sits in the lee of the islands, the place where the islands act as a physical weather barrier from the normal westerly wind and swell. This calm section was historically important and remains an essential area to the swordfish fishery more than other fisheries because of its reliance on spotting vs hooking a fish. These weather pockets force the fishery to operate in the lee area regardless of the MPA's presence. The result is a higher effort around the MPA, not because there is any more swordfish there than other places, but because that is the only zone that has fishable conditions most days at the Northern Channel Islands. This closer proximity to the MPA due to weather leads to higher chances of interactions where legally taken fish tow gear into the closures as mentioned above. We can see this higher landing rate and therefore higher chance of interactions by observing commercial block catch data showing the blocks containing and surrounding the Footprint, blocks 707 and 708 are especially productive due to the calmer waters. These two blocks alone captured 2.82% of state swordfish landings, locally comprising 15.63% of the swordfish produced by the Santa Barbara Port Area over the last 18 years (MFDE<sup>1</sup>), particularly high values for an HMS.

It is understandable that opening these MPAs simply on the idea that the weather is better than other zones is not a valid reason on its own, but that is not the point. The point is that this calm zone, and the higher effort inside of it, results in higher chances of gear unintentionally moving into the closure. This unique combination of factors gives even more reason to resolve this problem now during this adaptive management process.

As a result, the FGC, CDFW, PFMC, and CINMS should take this interaction into account in order to better consider the individual actions for allowing the harpoon and DSBG fishery access to operate in or, at the very least retrieve, legally taken swordfish within the 3 requested MPAs because of this gear movement problem.

<sup>1.</sup> MFDE under only swordfish landings from 1/1/2008 to 12/31/2023. The Santa Barbara Port Area was used for the local filters to include Ports around the Channel Islands (petition's area of concern).



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 13 of 41

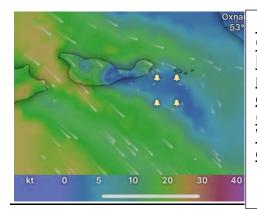


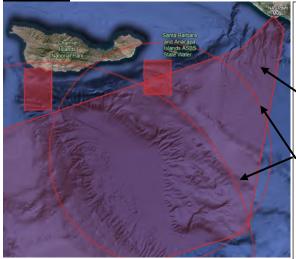
Image depicting average day in the Northern Channel Islands with The Footprint MPA outlined. Displayed wind "lee" for commercial swordfish is predominately around the closure forcing effort and gear interactions with the MPA to be higher (conditions are "fishable" under 10kts, blue color). Wind model used in the NOAA HRRR model midday (12:00) during peak effort time.

# Local Naval Closures:

<u>From my talks with general HMS fishermen at as many talks as I could attend locally, the issue of military operations off the southern side of the 4 northern Channel Islands was brought up enough time to look into and warrant discussion. The primary argument brought up is, while HMS cover large areas and are fishable outside of the MPAs, military operations close off most and sometimes all fishable area for HMS around the Channel Islands around the northern Channel Islands for local fleets except small areas largely taken up by the two existing MPAs, The Footprint and Gull Island.</u>

While on the water targeting HMS, I have removed from and forced into a different area where no or less HMS are realistically present (more inshore, into foul weather, or into an MPA). There are two types of naval closures on the southern side of the Channel Islands, total range closures and radius closures. Some days one or the other is active and some days both are active depending on the exercise. The location of closure radiuses from operations does vary, but the missile range closure is constant polygon. This zone covers a large area of offshore waters on the southern side of the islands, where HMS effort locally occurs. Included is an image of the points provided to me by the Naval Warfare Center Pt. Mugu depicting the range closure when they are in a live fire event, shaded in light red. The hollow circles depict radius closures from boat coordinates and restricted distances from said positions are enforced by aircraft. Note, a 1.5 nm corridor from land was still permitted for basic transit, so closures did not go all the way to the island shore. The Footprint and Gull Island MPAs have also been included depicting which areas fall inside and outside the missile range.

Event frequency does vary from 0 to 6 days a week, and closure radiuses from boats change based on the activity and number of vessels participating. Currently the only way of acquiring event data is with direct talks with Naval officers <24hr before an event, and in some cases the day of on the radio.



<u>Naval closures at the Northern</u> <u>Channel Islands overlaid with The</u> <u>Footprint and Gull Island MPAs.</u>

The Point Mugu Naval Missile Range closure is the entire light red shaded area.

The two circles are closed radii from vessels operating in the same area, radii closures did leave a 1.5 nm corridor open from the island.



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 14 of 41

# Adaptive Management, the MLPA, and the Master Plans (addition):

Adaptive Management: It should be noted that the adaptive management of the MPA Network is not a one-way street. Adaptive management is defined by Fish and Game Code section  $2852(a)^2$  as, "a management policy that seeks to improve management of biological resources, particularly in areas of scientific uncertainty, by viewing program actions as tools for learning..." It is a practice where, as conditions change or we learn more about something, in this case the MPA network, we actively amend management regulations to reflect what currently is known to be a reasonable management method. That being said, consistently increasing protected areas or the level of protection for all species in an area every management cycle is not the only direction this process is allowed to go in order to manage the network. If sufficient evidence is provided and goals can still be met, adaptive management can certainly be used to decrease restrictions in cases where we still accomplish the same goals, something Petition2023-15MPA claims is possible due to the lack of or how little pelagic/HMS interactions are with MPA goals, as supported by the Master Plans. If we can still accomplish the stated goals of the network in these specific MPAs while allowing some take of HMS or pelagic species, the network can certainly still be considered improved as a result. The latest example of adaptive management lowering regulation was the repealing of the Cowcod Conservation Areas (CCAs) and implementation of the smaller Groundfish Exclusion Areas (GEAs) after the cowcod population was considered rebuilt and healthy.

The MLPA: The goals of the MLPA and accompanying plans are clear. The largest goal being to preserve local ecosystems, allowing them to grow undisturbed as much as possible by people, resulting in higher levels in local species' abundance and biodiversity for future generations to observe. From the onset of this petition, it has been a foundational idea that allowing take of pelagic or HMS inside these areas will both, not significantly affect local species abundance or populations, as they would still be protected, and that the HMS populations would not be significantly affected by such a change. The argument of lowering protections in a petition like this is understood at face value, but the goal of the petition is to examine if we can accomplish the same or a satisfactory level of the stated goals under these "lower protections."

MPA Master Plans: Appendix G of the 2008 Master Plan<sup>3</sup> discusses the idea of species affected by MPAs, mentioning pelagic and HMS groups are overall less affected. Additionally, as the original petition mentions, the current 2016 MPA Master Plan for the southern section outlines within its goals<sup>4</sup> that areas of protection providing limited pelagic take or HMS take be provided. This is something we do not see around the Channel Islands in nearly comparable amounts to the rest of the state network, this effect is worsened by the federal expansions at the Channel Islands encroaching more into offshore waters where more pelagic fishing occurs. Previous FGC MPA discussions provided additional input on MPAs and HMS interactions where the commission stated that MPAs are intended to protect (local) ecosystems, not individual species, especially those that are highly mobile or pelagic<sup>5</sup>. Both FGC comments, and statements from the 2008 and 2016 Master Plans support the idea that pelagic finfish and HMS are both not as affected by these MPAs and that areas allowing take of just pelagic finfish or HMS be included in the network.

4. <u>http://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=112492&inline</u> (pg. F-5 (Goal 2, specifically point 4))

<sup>2.</sup> https://leginfo.legislature.ca.gov/faces/codes\_displaySection.xhtml?lawCode=FGC&sectionNum=2852.

<sup>3.</sup> https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=113013&inline#:~:text=Species%20with%20a%20strong%20tendency,their%20entire%20range%20of%20movement.

<sup>5.</sup> https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=207757&inline (pg. 9)



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 15 of 41

All of the above evidence and precedent came to light after the establishment of the Channel Islands network in 2002, so it is somewhat understandable why the decisions were made back then to leave these areas as no-take zones, we simply did not know as much then as we do now. However, 20 years later with all of this modern evidence and precedent elsewhere along the coast in the 40% of the more-modern coastal network that is limited take, I believe it is more than justifiable to re-evaluate the Channel Islands Network to our current scientific understanding for pelagic/HMS allowed areas in MPAs.

# Kelp Restoration and Climate Resiliency:

<u>A final comment of concerns mentions granting limited take access to these areas for Pelagic</u> <u>finfish or HMS will negatively impact local species such as groundfish or those important to kelp</u> restoration and therefore climate resiliency, including but not limited to sheepshead and spiny lobster.

<u>The preferred option of only allowing take of HMS was preferred with species interactions</u> <u>specifically in mind. The more selective list of HMS avoids pelagic finfish species, like yellowtail, that</u> <u>could be targeted with methods that are more likely to interfere with non-pelagic species (weighted,</u> <u>bottom contact dropper loops). HMS effort for tuna or billfish consists primarily of surface casting a</u> <u>jig/bait, trolling baits on the surface, or fishing in the middle of the water column. It is very unlikely</u> <u>those targeting HMS species this way will have many interactions with non-pelagic species such as</u> <u>groundfish. Additionally, pelagic or HMS fishing is done primarily offshore, away from nearshore kelp</u> <u>ecosystems, and away from nearshore areas spiny lobster and sheepshead frequent.</u>

# The four Options Breakdown including Stock and Fishery Analysis:

This section will discuss the impact the allowed fisheries may have on the species that would primarily be targeted, the pros and cons of the four options, and the possible nearshore closure(s). The discussions on the four options and optional no take zones are meant to provide the thoughts and opinions of pelagic and HMS fishery groups and individuals for the Commission to better understand their viewpoints.

-Pelagic and HMS Stock and Fishery Analysis: Out of all of the HMS, Bluefin tuna migrate the furthest in terms of net geographical distance traveled in their lifetime, with individuals who reach maturity traveling from the coast of California across the pacific to Japan, moving up to 70 miles per day during said migration. Billfish (Swordfish or Marlin) travel in two more distinct groups, rotating from California either toward the mid-pacific and Hawaii or off the coast of Mexico, moving up to 35 miles per day according to tag data. All these species and the other pelagic and HMS affected by this change follow migrations similar these, coming into waters off of California in the early summer (June-July), and mostly departing by early winter (November-December). This migration timeline and fishing attempts toward HMS in California are directly related, meaning most, if not all, fishing will be during these 5-7 months, leaving waters relatively untouched the remaining months of each year.

The fishery impact from these changes would be minimal to the overall take of HMS and their stocks. It is the primary intention of this petition that the species primarily targeted inside of these areas (if HMS or pelagic fishing is allowed), would be swordfish, bluefin tuna, and striped marlin. While some other attempts toward more exotic species such as yellowfin or dorado may occur, it would be rarely available.

Fishery efforts in these MPAs also needs to be considered. Pelagic and HMS do not remain in small areas, rather moving with the water and currents. HMS fishery efforts would not be concentrated inside of these proposed limited-take areas, but rather flow through them as the water these species follow flows through these areas. The fishery would cover the same grounds it does



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 16 of 41

today, with the changes allowing targeting though these areas compared to having to work around them as these species move through them. The two most targeted species in these areas that would be retained are bluefin tuna and swordfish. Striped marlin would likely be targeted the most in terms of fishing effort, but almost all marlin captures are recreational and result in a release.

According to NOAA the bluefin tuna population is not subject to overfishing and stock assessments show the population has "significantly increased," (*Doc. 13*). If any of the listed options is accepted, all recreational methods of take would be available for bluefin tuna. A majority of this would be hook-and-line, with spearfishing taking up the remaining numbers. Commercially, only hook-and-line bluefin would be permitted as spearfishing is not a commercial option. A concern that was raised was the allowance of commercial hook-and-line bluefin take within these areas. Some groups believed allowing commercial take would prove to have too much of an impact on the stock. However, observing NOAA commercial landing data we see that California's commercial fishermen only account for 2% of the yearly pacific bluefin that is commercially harvested, meaning the local commercial fishery has a minimal impact on the stock (*Doc. 13*).

The stock numbers and movements are similar for swordfish as well. NOAA lists the pacific swordfish stock is at safe levels and not subject to overfishing (*Doc. 14*). The total local impact by California vessels is listed as minimal with a "significant majority" of swordfish landed by Hawaii based longline vessels. Commercially, with the phasing out of the drift gillnet (DGN), both the state and federal agencies have made it readily apparent they are trying to find new ways to better target and expand commercial swordfish in California. All three of these current MPAs lie in the middle of some of the only reliably fishable swordfish grounds in the Channel Islands. All sit downwind of islands that block the wind and provide fair weather for fishing to occur on days fishing elsewhere is not possible under current allowed commercial methods (Harpoon and DSBG). This is especially the case for harpoon swordfish, a fishery that requires flat-calm water. The allowance for partial take of swordfish inside these regions would allow for a larger calm area to be covered and fished for migrating swordfish.

Unlike bluefin, depending on the accepted option, certain allowances for swordfish take would be made, but some may still be restricted. Options 1 and 2, if either are accepted, would allow all recreational methods for take of swordfish. Historically, this has almost exclusively been surface baiting basking swordfish, a fishery with zero deep water impacts, and has near zero impacts on anything in that area except for the swordfish it targets. Recently however, anglers have begun to mirror commercial methods, and have begun placing baited hooks at deeper depths (~900-1000 ft) for swordfish. Under current regulation, this method of "deep dropping" has no difference/distinction between hook-and-line fishing and would therefore be allowed.

For commercial methods of take, harpoon swordfish would be allowed under any accepted option. This globally recognized sustainable fishery with zero bycatch, is a fishery perfectly suited to have as little impact as possible on the local, non-pelagic ecosystems when a fish is taken. However, like the recreational hook-and-line case, the allowance of commercial hook-and-line for pelagic or HMS inside these regions would allow commercial deep drop of swordfish.

Along with deep drop methods, and in the spirit of fairness to the commercial fleets, Options 1 and 2 would also allow the use of standard-deep-set-buoy-gear (DSBG) in the federal waters only of the proposed limited-take areas (as it is currently primarily fished) is proposed in this petition as an isolated action item (see amendment cover letter and revised options). DSBG is currently a federally exclusive fishery, with the exception of one exempted fishing permit (EFP). DSBG is a method consisting of ten separate flags and buoys with one line and one hook on each flag/buoy and is a modern sustainable fishery for swordfish. Due to the nature of these areas overlapping federal waters containing a harpoon allowance (state and federal), the argument for federal authorization of DSBG in these areas is being requested if hook-and-line deep drop is allowed. As previously mentioned, this

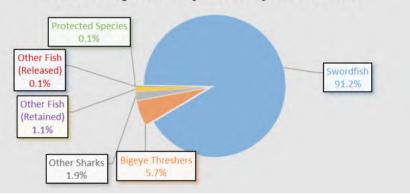


State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 17 of 41

change, along with other federal water changes would assumably be made by NOAA and the CINMS working with the state.

These methods of targeting swordfish at depth do have more impact than recreational surface baiting or commercial harpooning. However, the impact of these methods and their bycatch is minimal on non-HMS or pelagic species. This type of fishing has been praised by conservation organizations like Oceana and PEW for its high selectivity and extremely low bycatch (*Links 5/6*). There is also over 10 years of historical catch data for DSBG, the method that hook-and-line deep drop branched from, and 7 years of data from NOAA detailed in the chart below.

Looking at the data we can see that from 2015-2022, DSBG captured 91.2% swordfish, and a 96.9% mix of swordfish and thresher shark (another HMS). Of the "other sharks" and "other fish" most of these species were a mix of other pelagics (i.e., mako sharks, opah, and escolar). This means that nearly 99.8% of all species caught with DSBG are HMS. Almost no non-pelagic or non-HMS species have been landed under this type



# Catch Composition (All DSBG), 2015-2022

of fishery, due to its extreme selectivity. In the small number of cases where non-HMS species were hooked, the active tending of this gear allows for most bycatch to be released alive and well. Since deep drop methods mirror DSBG it is reasonable to assume their catch rates would mirror DSBG rates as well. It is for this reason that deep drop and federal authorization of DSBG for swordfish were listed allowances under Options 1 and 2, since they produce the lowest bycatch numbers, but produce the higher success rates for swordfish catch compared to harpoon or surface baiting.

If Options 1 and 2 are rejected but Option 3 or 4 are accepted, all HMS or pelagic targeting methods would still be allowed except those going deep to primarily target swordfish. These options call for the use of only "surface fishing methods," a term used to describe all non-deep drop methods. This includes methods such as trolling, live bait casting, lure casting, live bait drifting (on the surface), and all other methods anglers or commercial fishermen use besides deep dropping or DSBG.

-The four Options and Their Reasonings: Each of the four options is designed to have a minimal impact on the protected area's local ecosystem but vary in both allowed species and allowed gear types. There are really two several sets of choices, when we break down the four options. The first choice allows either pelagic finfish take and possession, or HMS take and possession with possession of coastal pelagic species (CPS). The logic behind allowing pelagic finfish is primarily the precedent already set on other SMCAs. Pelagic finfish cover the 3 species that would primarily be targeted (swordfish, bluefin tuna, and striped marlin), cover other pelagic species that would occasionally be targeted, and have existing SMCAs elsewhere that already allow for this subset of species. However, this list also covers more species than the HMS list, and as will be discussed, these extra species may pose undesirable issues if limited-take implementations are not made properly. The logic behind allowing HMS take and possession, and CPS possession is that the three targeted species also fall under this more selective classification of species. Meaning there would be a more selective list of species allowed to be taken, thus less overall impact on what could be done inside these areas. Allowing only HMS limited take would also avoid the possible pelagic finfish issues discussed below. The reasoning for the CPS allowance is it would allow common baitfish used to fish HMS to still be retained inside of these areas.



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 18 of 41

The second choice is the allowance of all hook-and-line methods, restricting "bottom-contactgears" for better groundfish/bycatch avoidance, or not allowing any hook-and-line gears, just allowing spearfishing and harpoon methods. This is a tiered choice increases in selectivity of gears. Nonrestricted hook-and-line of pelagic finfish or HMS of course would give the most access, restricting of bottom-contact-gears is the middle ground which mirrors federal GEAs, and the most selective is the removal of all hook-and-line for just spear and harpoon fishing. Any of these selections can be paired to a pelagic finfish or HMS allowance, making up the 6 total options. including deep drop, and DSBG, or only allowing "surface fishing methods." The logic with allowing deep drop and federal DSBG allowance is the data shows that these methods are extremely selective and prove effective in targeting primarily swordfish at depth. This choice would allow for more area of opportunity to selectively target swordfish, something the State, NOAA, and PFMC has made very apparent they want to help accomplish, especially commercially with the end of the gillnet dropping landings of California swordfish. The logic with allowing "surface fishing methods" is an attempt at regulating out the deep dropping methods inside of these zones if the State deems them too impactful to allow. If this choice is made, it would make the limited-take areas more selective to swordfish methods only, leaving surface baiting recreationally and harpooning commercially as the only allowed methods to target swordfish. If this option is selected, the state would have to clearly define "deep dropping" (to not allow it) or define "surface fishing methods" (to only allow those).

In addition to the four main options, there exists the isolated action for DSBG and a final choice of adding a nearshore closure to the Gull Island and SBI zones with more selective or no fishing methods being allowed. The selected limited take option would then be implemented outside of this boundary throughout the remaining "offshore" area. The logic behind this choice has several factors, some of which are the existence of a nearshore/offshore pair in the Farnsworth and Point Buchon SMCAs, and the desire to continue having stricter limited-take or no-take regions closer to the more diverse shorelines. These nearshore regions rarely contain any species this petition intends on anglers targeting, meaning whether or not a nearshore zone is implemented, areas this close to the respective islands would have such a low fishery presence that they would effectively remain untouched, with one key exception.

If an option allowing the hook-and-line take of pelagic finfish is made it is recommended that the nearshore region be implemented. This is due to the fact that limited-take of pelagic finfish by hook-and-line would allow certain game fish species to be targeted in the local, nearshore ecosystems on fishing beds. The intent of this petition is to protect from this type of fishing allowance, intending limited take allowance for these regions to be open water fishing of pelagic or highly migratory species during their movements. This possibility of nearshore bed fishing is only the case for two species on the pelagic finfish list, yellowtail and barracudas. These are species that if pelagic finfish were allowed with no nearshore zone implemented, would definitely be targeted within the nearshore areas of the SBI and Gull Island closures. Again, it is the intention of this petition to only allow for offshore take of pelagic or highly migratory species, primarily billfish and tuna. Allowing pelagic finfish with no nearshore region that accounts for bed fishing of pelagic species such as yellowtail may interfere with the local ecosystem we still aim to protect. If the below listed coordinates are the border for the nearshore regions (table 2), the water outside of these areas at Gull Island and SBI is reasonably deep enough to ensure little to no effort would be made to target these species and would yield almost zero results.



Table 2: Proposed Coordinates and options for the Nearshore limited or no take areas for GullIsland and Santa Barbara Island

Island and Ganta Barbara Island			
Santa Barbara Island Nearshore MPA			
The 1nm boundary of SBI within the current			
MPA			
Regulation within nearshore area:			
Recreational and commercial take of (pelagic			
finfish or HMS, depending on the state's choice)			
is allowed via surface casting, kite fishing, and			
surface trolling. The commercial take of			
swordfish by harpoon is allowed. (preferred)			
<del>Or</del>			
A no-take region (not preferred)			

Table 2: Proposed Coordinates and options for the Nearshore limited or no take areas for Gull				
Island and Santa Barbara Island (Amended)				
Gull Island Nearshore MPA	Santa Barbara Island Nearshore MPA			
The nearshore-offshore boarder would be bound	The nearshore-offshore boarder would be bound			
by a straight line running from	by a straight line running from			
<u>33° 58.000' N. lat. 119° 53.000' W. long, to</u>	<u>33° 28.500' N118° 59.300' W. to</u>			
<u>33° 55.800' N. lat. 119° 48.000' W. long.</u>	<u>33° 26.500' N119° 02.200' W</u>			
within the existing MPA.	within the existing MPA.			
Regulation within nearshore area:	Regulation within nearshore area:			
The recreational take of (either Pelagic Finfish or Highly Migratory Species (option dependent)) by spearfishing is allowed. The commercial take of swordfish by harpoon is allowed. The possession of Coastal Pelagic Species is allowed*. (*Only needed if HMS option is selected) (Preferred Choice)	The recreational take of (either Pelagic Finfish or Highly Migratory Species (option dependent)) by spearfishing is allowed. The commercial take of swordfish by harpoon is allowed. The possession of Coastal Pelagic Species is allowed*. (*Only needed if HMS option is selected) (Preferred Choice)			
<u>Or</u>	<u>Or</u>			
A no-take region (not preferred)	A no-take region (not preferred)			



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 20 of 41

	<u>Possible</u> <u>State Nearshore</u> <u>MPA</u> <u>Possible State</u> Offshore MPA	
	<u>Possible Federal</u> <u>Offshore MPA</u> (Same regulation as State	
Santa Barbara Island	<u>Offshore</u> )	Gull Island

The listed coordinates for the nearshore closures are only the listed coordinates for the dividing line between the proposed nearshore area and the offshore limited take SMCA and FMCA. The collective closure borders of the nearshore and offshore areas would be the same area as the current MPAs. If these are placed in effect along with the selected option applied outside, these nearshore regions would cover sufficient area to prevent nearshore bed-fishing efforts. While possible changes to these borders may be made, it is the fisheries' belief they are sufficient in preventing what would otherwise be a problem if an unrestricted pelagic finfish option is accepted. Further consultations with active fishery members should be made if these borders are desired to be modified. The preference for stricter limited-take rather than no-take is simply that these areas would contain so little presence of these species, that they would effectively be fully protected, <u>but have rare opportunity for the selective allowed methods in them. In addition, as the preferred nearshore allowed methods mirror those in options 5 and 6, these nearshore areas are only needed if a hook-and-line option (1-4) is granted.</u>

# The Most Requested Option and Closing Remarks:

It is this petition's preference that in order to avoid the nearshore pelagic finfish risk all together, one of the two three HMS allowance options be selected (Options 2, 4, <u>or 6</u>) with the nearshore zone not selected. Option 2 is the preferred selection since this option allows for the most HMS opportunity, recreationally and commercially, while still remaining extremely selective, and leaving a minimal impact on the local, non-pelagic ecosystems. Option 2, with no accompanying nearshore zones would allow for HMS targeting within the entire area. In the unlikely case HMS are present nearshore, they may still be targeted with minimal local impact as they move through an area under the same selective fishing methods allowed elsewhere. The lack of nearshore zones in this case would also allow for easier enforcement of the area by wardens not having to worry about different zones within an area. If a nearshore region is desired, the more selective limited-take option is preferred. This change would still allow for selective enough take of HMS and prevent any bottom fishing activity nearshore.

In terms of the three MPAs, all three MPAs would preferably be converted to limited take areas. Discussions with those involved in the possible affected fisheries revealed a strong preference for The Footprint to be converted to limited take, with Gull Island and SBI having equal amounts of preference to be opened to limited take.

In closing this analysis, special thanks to all the individuals who provided the input and data to make this petition possible. I would especially like to thank the FGC and its staff for their assistance with and the creation of this adaptive management process.



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 21 of 41

# **Remaining Supporting Documents and Sources:**

*Document 2*: Supporters letter for the petition. Summarizes the petition, its reasonings, and its intentions. Was sent out to business and individuals that could be impacted by this change or provide scientific input asking for their support of the petition and its rationale (signature list on the letter).





Dear FGC,

On behalf of the hundreds of thousands of anglers that frequent Southern California, and all of the businesses they support, the following organizations and individuals extend their special support and ask for your approval of this petition. This petition would allow for the limited recreational and commercial take of Pelagic Finfish or Highly Migratory Species (HMS) via select, sustainable fishing methods. The changes would apply to the following Marine Protected Areas (MPAs):

- The Footprint Marine Reserve
- Gull Island Marine Reserve
- The Santa Barbara Island Marine Reserve

This proposed regulation modification aims to return extremely selective take opportunities that the original MPA network implementation unintentionally removed. These regions would become state and federal marine conservation areas (SMCAs/MCAs) but would still provide the original protections to the species and ecosystems each of the MPAs intends to preserve.

The allowance of pelagic or HMS in these areas would provide more equal opportunities to anglers around Southern California targeting fast moving species, like billfish or tuna. Currently, these species cannot be followed into these zones as they move through them, traveling with the currents rather than remain on the structure or in the local ecosystems the MPAs are intended to protect. If accepted, anglers would have the opportunity to follow these species as they constantly flow in and out of these areas.

The push for this change is backed by the California State 2022 MPA Decadal Review, the MRC's near-term objectives, the 2016 MPA Master Plan, and several other state and federal reports/comments. We the fisherman, groups, clubs, and business owners, of California kindly ask for your approval of this petition.

# Sincerely,

Sincerery,	
AFTCO	Santa Monica Seafood
CCA California	Ocean Pride Seafood
Pfleger Institute of Environmental Research (P.I.E.R.)	Santa Barbara Fish Market
Wild Oceans	
BD Outdoors	Special Individuals: Chugey S, Theresa L, Casey S,
Bear Flag Fish Co.	Nathen P, Ron H, Sean B, Morgan L, Bill S, Donald
Bluewater Seafood	K, Christian H, Andrew W, Carl S, Michael M,
Chula Seafood	Thomas C, Wes L, Marc H, Eric H, Bryce H, Ethan
The Tuna Club	H, Steve W, Don G, Ryder D, Fisher D, Jonnah G,
Balboa Angling Club	Jake K, Brandon H, Patrick O, John J, Bill W, Steve
CISCOS Sportfishing	M, Eric H, Sean S, Ryder A, Evan K
Hooks Sportfishing	
Legit Sportfishing	And the over 880 members of the public that have
Erics Tackle Shop	signed the public support petition as of submittal
Channel Coast Marine	(11/22), visible here: https://chng.it/2wy2dHSS6r
Executive Yachts	
Bight Sportfishing	
Bad Company Fishing Adventures	
Seal Beach Fish Co.	
Wild Local Caught Seafood	



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 23 of 41

*Documents 3, 4, and 5*: Original founding reasoning for the Footprint, Gull Island, and Santa Barbara Island MPAs respectively, to be created and expanded into federal waters of the marine sanctuary from the Channel Islands CEQA in 2002. There is little to no mention of pelagic or HMS species, with primary objectives for the Footprint MPA being groundfish replenishment, and for Gull Island and SBI MPAs, being either or a mix of abalone, rockfish, or endangered bird populations. Original paper found here: https://nrmsecure.dfg.ca.gov/FileHandler.ashx?DocumentID=151023

The Footprint SMR is located in open waters in the passage south of Santa Cruz and Anacapa Islands. The Footprint SMR is 28.6 nm<sup>2</sup>, **6.4 square nautical miles of which would be within State waters and the rest** entirely within Federal waters. It is described and analyzed here as a part of the entire recommendation, but not the decision before the Fish and Game Commission. The majority of the proposed Footprint SMR is sand or gravel between 90-900 ft. The Footprint includes several submerged rocky features, including pinnacles and submarine canyons that once supported large population of numerous rockfish species. Today, the rockfish populations around the Footprint are severely depleted from intensive recreational and commercial fishing in the region. Although populations are depleted, the habitat supports a variety of species, including bocaccio and cowcod, both recognized as overfished by the PFMC. Fish populations in the vicinity of the Footprint are likely to <u>respond to protection within a reserve through</u> increased density, individual size, and reproductive potential.



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 24 of 41

Gull Island, Santa Cruz Island State Marine Reserve

The Gull Island SMR is located on the southwest side of Santa Cruz Island. The reserve includes 2.9 nautical miles of shoreline from Morse Point to the point along the shore at 33° 58' N, 119° 48' W. The reserve extends south approximately three nautical miles to the State waters boundary. The Gull Island SMR contains 16.2 square nautical miles. A subsequent Federal waters phase would add 22.1 square nautical miles for a cumulative total of 38.3 square nautical miles.

Historically, Gull Island supported a diverse and abundant marine fauna. Although these populations are reduced, the habitat supports a variety of species. Fish populations in the vicinity of Gull Island are likely to respond to protection within a reserve through increased density, individual size, and reproductive potential. The Gull Island SMR would protect a variety of different habitat types from the nearshore to the continental slope. Sand beach is the predominant shoreline habitat at the border of the Gull Island SMR. Endangered snowy ployers may occur there and the beach supports one of the few populations of pismo clams at the islands. The remaining shoreline is covered with cobble beaches.

Subtidal habitats in the Gull Island SMR are mixed sand and rocky reefs. Red and green algae dominate inshore areas. Gull Island supports an intermittent population of giant kelp, but the kelp populations are reduced. Subtidal habitats support patchy populations of surgrass. Rocky intertidal and subtidal habitats once supported populations of red, pink, white, and black abalone, but only a small population of red abalone, and very few black abalone have been observed recently. The Gull Island area supports large populations of purple urchins. Rocky subtidal habitats from Gull Island to Laguna Point support populations of <u>spiny lobster</u>. Purple hydrocoral (*Allopora*) is found in deeper rocky reefs around Gull Island.

Shallow rocky habitat extends offshore to Gull Island. <u>Nearshore reefs support populations</u> of various rockfish species. However, rockfish are not as diverse in this region because of physical changes associated with the mixing of warmer waters from the California Counter Current with cooler waters from the California Current. Southern species such as

5-27

California sheephead and wrasses are relatively common in the Gull Island region. The region also supports spawning populations of white seabass and halibut. Thresher and make sharks are fished in the deeper waters near stronger currents.



Santa Barbara Island State Marine Reserve

Santa Barbara Island SMR is located at the southeast side of Santa Barbara Island. The reserve includes one nautical mile of shoreline from South Point to the eastern point of the

5-22

island. The reserve boundaries extend east and south to the State waters boundary. The Santa Barbara Island SMR contains 13.2 square nautical miles. A subsequent Federal waters addition would add 46.3 square nautical miles for a cumulative total of 59.5 square nautical miles.

Santa Barbara Island, Sutil Island, and Shag Rock support major seabird and marine mammal colonies. Santa Barbara Island supports breeding colonies of <u>numerous</u> seabirds, including the endangered California brown pelican, western gull, black oystercatcher, black storm-petrel, Leach's storm-petrel, Brandt's cormorant, pelagic cormorant, Cassin's auklet, pigeon guillemot and Xantus's murrelet. California sea lions haul out on sandy beaches on the southeastern side of Santa Barbara Island. <u>Harbor</u> seals and northern elephant seals occasionally haul out in the same place.

The exposed rocky shoreline along Santa Barbara Island is interspersed with occasional cobble beaches (10-12 m wide) in protected coves. The rocky intertidal habitat descends steeply to patchy reefs in large areas of sand. Patchy populations of surfgrass grow on subtidal rocks (15-20 m). Populations of giant kelp on reefs around Santa Barbara Island have declined relative to historical data. Red and purple sea urchins and brittle stars (*Ophiothrix*) dominate the rocky subtidal habitats around Santa Barbara Island. Spiny lobsters are abundant in rocky subtidal habitats in the vicinity of South Point and large mussel beds can be found in the rocky intertidal habitats on the southeastern side of Santa Barbara Island.

The continental shelf drops to approximately 200 m less than ½ mile from shore, and continues to drop to 400 m within 3 miles of Santa Barbara Island. In the past, populations of white, green, pink, and black abalone inhabited intertidal and subtidal rocky habitats. The reserve includes rocky subtidal habitats, from approximately 25-66 m, that may contribute to the recovery of the endangered white abalone. Sandy subtidal habitats support halibut populations near the northern border of the Santa Barbara Island SMR. California sheephead have been observed near South Point.

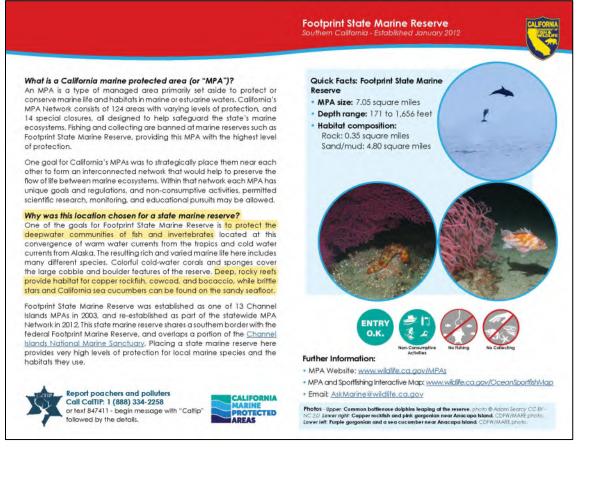


State of California – Fish and Game Commission PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE FGC 1 (Rev 06/19) Page 26 of 41

*Document 6*: Original 2002 CEQA: Dr. Ray Hilborn stating the size of an MPA must be large relative to a species' total movement to be actually impactful on their population abundance.

has reached population levels which increase natural mortality rates...@ Likewise, Dr. Ray Hilborn of the University of Washington=s College of Ocean and Fishery Sciences noted in comments on proposals for marine reserves in the Sanctuary that, A...it is almost universally accepted that exploitation reduces population sizes.... No-take areas, so long as their size is large relative to the movement of the species, will lead to increased abundance within the reserve.@

*Documents 7, 8, and 9*: Current Footprint, Gull Island, and SBI MPA descriptions in "Why the location was chosen..." (Highlighted below)





State of California - Fish and Game Commission PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE FGC 1 (Rev 06/19) Page 27 of 41

Gull Island State Marine Reserve



#### What is a California marine protected area (or "MPA")?

An MPA is a type of managed area primarily set aside to protect or conserve marine life and habitats in marine or estuarine waters. California's MPA Network consists of 124 areas with varving levels of protection, and 14 special closures, all designed to help safeguard the state's marine ecosystems. Fishing and collecting are banned at marine reserves such as Gull Island State Marine Reserve, providing this MPA with the highest level of protection.

One goal for California's MPAs was to strategically place them near each other to form an interconnected network that would help to preserve the flow of life between marine ecosystems. Within that network each MPA has unique goals and regulations, and non-consumptive activities, permitted scientific research, monitoring, and educational pursuits may be allowed.

#### Why was this location chosen for a state marine reserve?

One of the goals for Gull Island State Marine Reserve is to protect the diverse submarine canyon, rocky reef and pinnacle, kelp forest, and sandy plain habitat found at this location, where warm water currents from the tropics and cold water currents from Alaska converge. These habitats are used by a rich and varied selection of marine fish and invertebrates such as purple hydrocoral, a species not often seen in the Northern Channel Islands, Kelp forests and reefs provide shelter for opaleye, California spiny lobster, and cabezon, while schools of California barracuda and bonito may be seen in deeper, offshore waters.

Gull Island State Marine Reserve was established as one of 13 Channel Islands MPAs in 2003, and re-established as part of the statewide MPA Network in 2012. The reserve shares a southern border with the federal Gull Island Marine Reserve, and overlaps a portion of the Channel Islands National Marine Sanctuary and Channel Islands National Park. Placing a state marine reserve here provides very high levels of protection for local marine species and the habitats they use.



#### Report poachers and polluters Call CalTIP: 1 (888) 334-2258 or text 847411 - begin message with "Caltip"

followed by the details.



#### Quick Facts: Gull Island State Marine Reserve

- MPA size: 19.93 square miles
- Shoreline span: 3.2 miles · Depth range: 0 to 2,205 feet
- Habitat composition: Rock: 4.03 square miles Sand/mud: 16.55 square miles





#### Further Information:

MPA Website: www.wildlife.ca.gov/MPAs

Quick Facts: Santa Barbara Island

• MPA size: 12.77 square miles

Shoreline span: 0.8 miles

State Marine Reserve

- MPA and Sportfishing Interactive Map: www.wildlife.ca.gov/OceanSportfishMap • Email: AskMarine@wildlife.ca.gov

Photos - Upper: Gull Island, photo by P.Schwemmer, NOAA/CINMS Lower right: Purple hydrocoral and sea urchin at Gull Island State Marine Reserve. CDPW photo by D. Stein Lower left: Opaleye in the kelp forest at Gull Island State Marine Reserve. CDPW photo by D. Stein

#### Santa Barbara Island State Marine Reserve

#### What is a California marine protected area (or "MPA")?

An MPA is a type of managed area primarily set aside to protect or conserve marine life and habitats in marine or estuarine waters. California's MPA Network consists of 124 areas with varying levels of protection, and 14 special closures, all designed to help safeguard the state's marine ecosystems. Fishing and collecting are banned at marine reserves such as Santa Barbara Island State Marine Reserve, providing this MPA with the highest level of protection

One goal for California's MPAs was to strategically place them near each other to form an interconnected network that would help to preserve the flow of life between marine ecosystems. Within that network each MPA has unique goals and regulations, and non-consumptive activities, permitted scientific research, monitoring, and educational pursuits may be allowed.

#### Why was this location chosen for a state marine reserve?

One of the goals for Santa Barbara Island State Marine Reserve is to protect the sandy seafloor, surfgrass, kelp forest, and rocky nearshore habitat found there. Sea urchins, California mussels, and acorn barnacles thrive along the island's rocky coastline. Giant sea bass, California sheephead, and Pacific angel sharks hunt and seek shelter in the island's kelp forests and eelgrass beds, while California halibut and other flatfish rest in the sandy sediments. Santa Barbara Island is also home to a large breeding colony of Scripps's murrelet, a seabird on California's threatened species list, and fourteen other species of bird.

Santa Barbara Island State Marine Reserve was established as one of 13 Channel Islands MPAs in 2003, and re-established as part of the statewide MPA Network in 2012. This state marine reserve shares a southeastern border with the federal Santa Barbara Island Marine Reserve. The reserve overlaps part of the <u>Channel Islands National Park</u> and <u>Channel Islands</u> <u>National Marine Sanctuary</u>. Placing a state marine reserve here provides very high levels of protection for local marine species and the habitats they use

#### Report poachers and polluters

Call CalTIP: 1 (888) 334-2258 or text 847411 - begin message with "Caltip" followed by the details.







#### Further Information:

- MPA Website: www.wildlife.ca.gov/MPAs
- MPA and Sportfishing Interactive Map: <u>www.wildlife.ca.gov/OceanSportfishMap</u>
- Email: AskMarine@wildlife.ca.aov

Photos - Upper: Aerial view of Santa Barbara Island, phoro & Jesse Hodge CC BY-NC-NO 2,0. Lower right: Racific angel shark af Santa Barbara Island State Manine Reserve, COPR/MARE photo. Lower (off: Pink agrannian af Santa Barbara Island State Marine Reserve, COPR/MARE photo.



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 28 of 41

*Document 10*: MPA Master plan goal for the southern section, that calls for the protections of at-risk local species while allowing for limited take of pelagic or HMS.

# Goal 2. To help sustain, conserve, and protect marine life populations, including those of economic value, and rebuild those that are depleted.

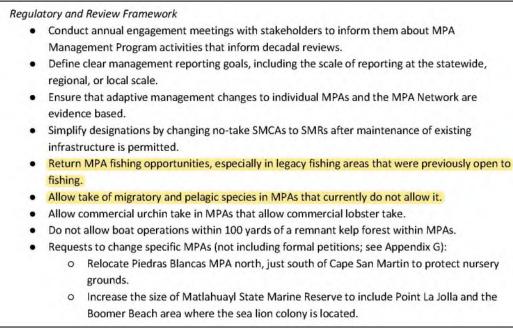
- Help protect or rebuild populations of rare, threatened, endangered, depressed, depleted, or overfished species, and the habitats and ecosystem functions upon which they rely.<sup>14</sup>
- Sustain or increase reproduction by species likely to benefit from MPAs, with emphasis on those species identified as more likely to benefit from MPAs, and promote retention of large, mature individuals.<sup>15</sup>
- 3. Sustain or increase reproduction by species likely to benefit from MPAs with emphasis on those species identified as more likely to benefit from MPAs through protection of breeding, spawning, foraging, rearing or nursery areas or other areas where species congregate.
- Protect selected species and the habitats on which they depend while allowing some commercial and/or recreational harvest of migratory, highly mobile, or other species; and other activities.

Document 11: Denied petition for White Shark MPA on grounds MPAs are **especially not focused** on pelagic or HMS (Highlighted below)

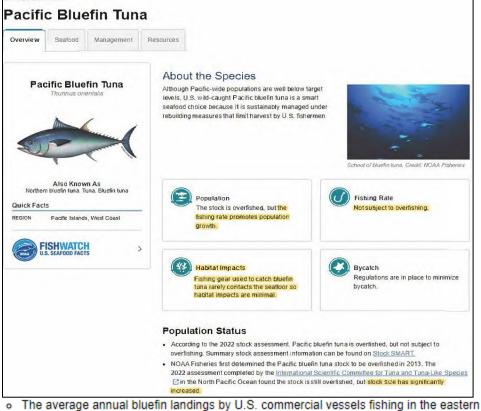
ACTION TYPE	YEAR	REQUEST	RATIONALE	ADAPTIVE MANAGEMENT ACTION TAKEN
Petition denied	2020	Petition submitted to amend MPA regulations to allow surfboard fishing at the South La Jolla SMR.	California Constitution, Article 1 Section 25, recreational take from a surfboard, even catch-and- release is not a fishery	No fishing is allowed in SMR per design criteria
Petition denied	2020	Petition submitted to establish MPA at Padaro Beach, Carpinteria, to protect great white shark nursery grounds.	An MPA with boating and fishing restrictions at Padaro Beach, Carpinteria, will help protect white shark nursery grounds.	MPAs are intended to protect ecosystems, not individual species, especially highly mobile, pelagic species
Petition denied	2020	Petition submitted to add unlimited recreational take of invasive species Sargasum horneri in Crystal Cove SMCA	CDFW failed to respond and stop the spread of the invasive species <i>Sargassum horneri</i> , plus <i>Sargassum horneri</i> is not a marine resource.	No recreational culling permitted within MPAs.



#### *Document 12*: MPA Decadal Review-Appendix A: Comprehensive Recommendations for the Review-Recommends to open legacy grounds and allow pelagic/HMS take in MPAs (Highlighted below)



# *Document 13*: NOAA Stock and Fishery Analysis for Bluefin Tuna, stock status, and minimal habitat impacts highlighted.

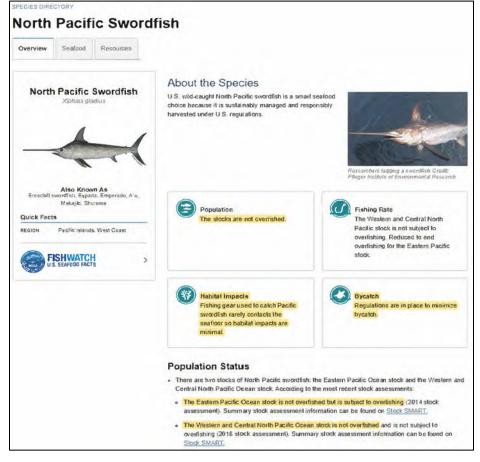


Pacific Ocean represent only 2 percent of the average annual landings from all fleets fishing there.



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 30 of 41

*Document 14*: NOAA Stock and Fishery Analysis for Swordfish, stock status and minimal habitat impacts highlighted.

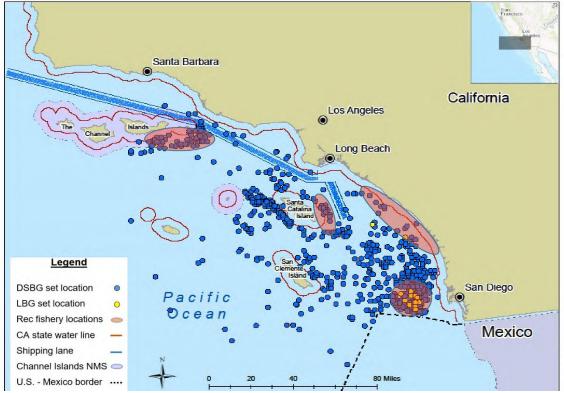


*Document 15*: Swordfish migration data collected via satellite tags deployed by the Pfleger Institute of Environmental Research (PIER) showing long ranges swordfish travel relative to the MPAs.





*Document 16:* DSBG and deep drop fishery efforts map displaying the wide area HMS fishing activity covers, and lack of northern Santa Cruz and Anacapa island efforts, where the only 2 SMCAs are located.



*Document 17*: Current pelagic finfish limited take SMCAs outside of the Channel Islands Network. These limited take MPAs were implemented in 2012, after the island network in 2003, and display the 9 year shift toward more pelagic allowed areas.



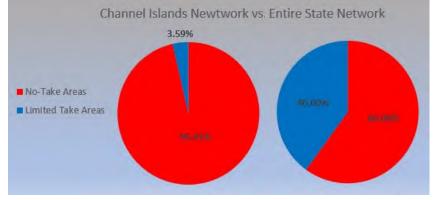


State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 32 of 41

*Document 18*: Definition of State Marine Conservation Areas per California Code of Regulations Title 14 Section 632(a)(1)(C). The recommended change would make these MPAs effectively SMCAs and MCAs with limited HMS take and CPS possession.

(C)State Marine Conservation Areas: In a state marine conservation area, it is unlawful to injure, damage, take, or possess any living, geological, or cultural marine resource for commercial or recreational purposes, or a combination of commercial and recreational purposes except as specified in subsection 632(b), areas and special regulations for use. The department may issue scientific collecting permits pursuant to Section 650. The commission may authorize research, education, and recreational activities, and certain commercial and recreational harvest of marine) resources, provided that these uses do not compromise protection of the <u>species of interest</u>, natural community, habitat, or geological features.

*Document 19*: Charts displaying no-take vs limited-take areas around the Channel Islands vs. the whole State MPA Network showing the disparity of no-take areas around the islands. If the changes are made, this disparity would all but disappear (see Table 1 in the analysis for before and after ratios). The calculation also includes federal sections of the MPAs.



*Document 20*: How the regulatory language could read if the preferred proposed change was selected (limited HMS take, deep drop methods and federal DSBG allowed, no nearshore closure) **NOTE:** Existing regulation modifications presented similar to how CDFW shows yearly changes, crossed out being removed regulation and red being the amended regulation. State and federal sections are listed with proposed changes. For simplicity the federal amendments will follow the states for the MPA specific changes.

# State and Federal Definition Modifications-

Amend: 14 CCR § 632 (a)\*\* and 15 CFR 922.71:

(13) Highly Migratory Species. Highly migratory species, for the purpose of this section, are a subset of finfish defined as: albacore, bluefin, bigeye, and yellowfin tuna (Thunnus spp.); skipjack tuna (Katsuwonus pelamis); dorado (dolphinfish) (Coryphaena hippurus); striped marlin (Tetrapturus audax); thresher sharks (common, pelagic, and bigeye) (Alopias spp); shortfin mako shark (Isurus oxyrinchus); blue shark (Prionace glauca); and Pacific swordfish (Xiphias gladius). \*Marlin is not allowed for commercial take

(14) Coastal Pelagic Species: Coastal pelagic species, for the purpose of this section, are a subset of finfish and invertebrates defined as: northern anchovy (Engraulis mordax), Pacific sardine (Sardinops sagax), Pacific mackerel (Scomber japonicus), jack mackerel (Trachurus symmetricus), and market squid (Loligo opalescens).



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 33 of 41

\*\*(13) and (14) exclusive to 14 CCR § 632 (a), amendments to 15 CFR 922.71 would read identical but not include "(13)" and "(14)." Highly Migratory species and Coastal Pelagic species are defined under State regulations (Title 14 §1.49 and 1.39), meaning the change to Title 14 § 632 (a) may not be required.

#### State MPA Modifications-

Amend: 14 CCR § 632 (b) (109)

(109) Gull Island State Marine Reserve. Conservation Area.

(A) This area is bounded by the mean high tide line and straight lines connecting the following points in the order listed except where noted:

33° 58.065' N. lat. 119° 50.967' W. long.;

33° 58.000' N. lat. 119° 51.000' W. long.;

33° 58.000' N. lat. 119° 53.000' W. long.;

33° 55.449' N. lat. 119° 53.000' W. long.; thence eastward along the three nautical mile offshore boundary to

33° 54.257' N. lat. 119° 48.000' W. long.; and

33° 57.769' N. lat. 119° 48.000' W. long.

(B) Area restrictions defined in subsection 632(a)(1)(A) apply. Area restrictions defined in subsection 632(a)(1)(C) apply, with the following specified exceptions:

1. The recreational take of highly migratory species is allowed.

 The commercial take of highly migratory species by hook-and-line and swordfish by harpoon is allowed. The use of standard deep-set-buoy-gear is permitted outside of state waters (3nm).
 The possession of coastal pelagic species is allowed.

#### Amend: 14 CCR § 632 (b) (114)

(114) Footprint State Marine Reserve. Conservation Area.

(A) This area is bounded by the straight lines connecting the following points in the order listed except where noted:

33° 59.300' N. lat. 119° 30.965' W. long.;

33° 57.510' N. lat. 119° 30.965' W. long.; thence eastward along the three nautical mile offshore boundary to

33° 57.264' N. lat. 119° 25.987' W. long.;

33° 59.300' N. lat. 119° 25.987' W. long.; and

33° 59.300' N. lat. 119° 30.965' W. long.

(B) Area restrictions defined in subsection 632(a)(1)(A) apply. Area restrictions defined in subsection 632(a)(1)(C) apply, with the following specified exceptions:

1. The recreational take of highly migratory species is allowed.



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 34 of 41

The commercial take of highly migratory species by hook-and-line and swordfish by harpoon is allowed. The use of standard deep-set-buoy-gear is permitted outside of state waters (3nm).
 The possession of coastal pelagic species is allowed.

# Amend: 14 CCR § 632 (b) (116)

(116) Santa Barbara Island State Marine Reserve. Conservation Area.

(A) This area is bounded by the mean high tide line and straight lines connecting the following points in the order listed except where noted:

33° 28.500' N. lat. 119° 01.813' W. long.;

33° 28.500' N. lat. 118° 58.051' W. long.; thence along the three nautical mile offshore boundary to

33° 24.842' N. lat. 119° 02.200' W. long.; and

33° 27.911' N. lat. 119° 02.200' W. long.

(B) Area restrictions defined in subsection 632(a)(1)(A) apply. Area restrictions defined in subsection 632(a)(1)(C) apply, with the following specified exceptions:

1. The recreational take of highly migratory species is allowed.

The commercial take of highly migratory species by hook-and-line and swordfish by harpoon is allowed. The use of standard deep-set-buoy-gear is permitted outside of state waters (3nm).
 The possession of coastal pelagic species is allowed.

NOTE: It may not be required to mention deep-set-buoy-gear (DSBG) in the state regulation as it would not be allowed in state waters. However, as all regulations (State and federal) may be listed under one "rulebook" this mention of federal DSBG allowance maybe needed.

Federal Modifications-

Amend: 15 CFR 922.73(b):

(b) *Marine conservation area.* Unless prohibited by 50 CFR part 660 (Fisheries off West Coast States), the following activities are prohibited and thus unlawful for any person to conduct or cause to be conducted within the specified marine conservation areas described in appendix C to this subpart, except as specified in paragraphs (b) through (e) of § 922.72:

#### (b.1). Anacapa Island Marine Conservation Area

(1) Harvesting, removing, taking, injuring, destroying, collecting, moving, or causing the loss of any Sanctuary resource, or attempting any of these activities, except:

(i) Recreational fishing for pelagic finfish; or

(ii) Commercial and recreational fishing for lobster.

(2) Possessing fishing gear on board a vessel, except legal fishing gear used to fish for lobster or pelagic finfish, unless such gear is stowed and not available for immediate use.

(3) Possessing any Sanctuary resource, except legally harvested fish.

(b.2) Gull Island (Santa Cruz Island) Marine Conservation Area



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 35 of 41

(1) Harvesting, removing, taking, injuring, destroying, collecting, moving, or causing the loss of any Sanctuary resource, or attempting any of these activities, except:

(i) Recreational fishing for highly migratory species; or

(ii) Commercial fishing for highly migratory species by hook-and-line and harpoon. DSBG is allowed inside of federal waters.

(iii) Possession of coastal pelagic species.

(2) Possessing fishing gear on board a vessel, except legal fishing gear used to fish for highly migratory species, unless such gear is stowed and not available for immediate use.

(3) Possessing any Sanctuary resource, except legally harvested fish.

(b.3) Footprint Marine Conservation Area

(1) Harvesting, removing, taking, injuring, destroying, collecting, moving, or causing the loss of any Sanctuary resource, or attempting any of these activities, except:

(i) Recreational fishing for highly migratory species; or

(ii) Commercial fishing for highly migratory species by hook-and-line and harpoon. DSBG is allowed inside of federal waters.

(iii) Possession of coastal pelagic species.

(2) Possessing fishing gear on board a vessel, except legal fishing gear used to fish for highly migratory species, unless such gear is stowed and not available for immediate use.

(3) Possessing any Sanctuary resource, except legally harvested fish.

(b.4) Santa Barbara Island Marine Conservation Area

(1) Harvesting, removing, taking, injuring, destroying, collecting, moving, or causing the loss of any Sanctuary resource, or attempting any of these activities, except:

(i) Recreational fishing for highly migratory species; or

(ii) Commercial fishing for highly migratory species by hook-and-line and harpoon. DSBG is allowed inside of federal waters.

(iii) Possession of coastal pelagic species.

(2) Possessing fishing gear on board a vessel, except legal fishing gear used to fish for highly migratory species, unless such gear is stowed and not available for immediate use.

(3) Possessing any Sanctuary resource, except legally harvested fish.

Amend: Appendix B to Subpart G of Part 922 (Marine Reserve Boundaries) for 15 CFR 922 B.4, B.5, B.6, B.7, and B.8.

B.4. Gull Island (Santa Cruz Island) Marine Reserve

The Gull Island Marine Reserve (Gull Island) boundary is defined by the 3 nmi State boundary, the coordinates provided in Table B–4, and the following textual description.

The Gull Island boundary extends from Point 1 to Point 2 along a straight line. It then extends along a straight line from Point 2 to the 3 nmi State boundary where a line defined by connecting Point 2 and Point 3 with a straight line intersects the 3 nmi State boundary. The boundary then follows the 3 nmi



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 36 of 41

State boundary westward until it intersects the line defined by connecting Point 4 and Point 5 with a straight line. At that intersection, the boundary extends from the 3 nmi State boundary to Point 5 along a straight line.

Table B-4-Gull Island (Santa Cruz Island) Marine Reserve

<del>Point</del>	<del>Latitude</del>	Longitude
<del>1</del>	<del>33.86195 ° N</del>	<del>119.80000 " W</del>
2	<del>33.86195 ° N</del>	<del>119.88330 " W</del>
3	<del>33.92690 ° N</del>	<del>119.88330 " W</del>
4	<del>33.90700 ° N</del>	<del>119.80000 " W</del>
5	<del>33.86195 ° N</del>	<del>119.80000 " W</del>

B.4. Scorpion (Santa Cruz Island) Marine Reserve

The Scorpion Marine Reserve (Scorpion) boundary is defined by the 3 nmi State boundary, the coordinates provided in Table B–5, and the following textual description.

The Scorpion boundary extends from Point 1 to Point 2 along a straight line. It then extends along a straight line from Point 2 to the 3 nmi State boundary where a line defined by connecting Point 2 and Point 3 with a straight line intersects the 3 nmi State boundary. The boundary then follows the 3 nmi State boundary westward until it intersects the line defined by connecting Point 4 and Point 5 with a straight line. At that intersection, the boundary extends from the 3 nmi State boundary to Point 5 along a straight line.

Table B–4–Scorpion (Santa Cruz Island) Marine Reserve

Point	Latitude	Longitude
1	34.15450 ° N	119.59170 " W
2	34.15450 ° N	119.54670 " W
3	34.10140 ° N	119.54670 " W
4	34.10060 ° N	119.59170 " W
5	34.15450 ° N	119.59170 " W



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 37 of 41

The Footprint Marine Reserve (Footprint) boundary is defined by the 3 nmi State boundary, the coordinates provided in Table B–6, and the following textual description.

The Footprint boundary extends from Point 1 to Point 2 along a straight line. It then extends along a straight line from Point 2 to the 3 nmi State boundary where a line defined by connecting Point 2 and Point 3 with a straight line intersects the 3 nmi State boundary. The boundary follows the 3 nmi State boundary northeastward and then southeastward until it intersects the line defined by connecting Point 4 and Point 5 along a straight line. At that intersection, the boundary extends from the 3 nmi State boundary to Point 5 along a straight line.

Table B-6-Footprint Marine Reserve

<del>Point</del>	<del>Latitude</del>	Longitude
<del>1</del>	<del>33.90198 ° N</del>	<del>119.43311 " W</del>
2	<del>33.90198 ° N</del>	<del>119.51609 " W</del>
3	<del>33.96120 ° N</del>	<del>119.51609 " W</del>
4	<del>33.95710 ° N</del>	<del>119.43311 " W</del>
5	<del>33.90198 ° N</del>	<del>119.43311 " W</del>

## B.5. Anacapa Island Marine Reserve

The Anacapa Island Marine Reserve (Anacapa Island) boundary is defined by the 3 nmi State boundary, the coordinates provided in Table B–7, and the following textual description.

The Anacapa Island boundary extends from Point 1 to Point 2 along a straight line. It then extends to the 3 nmi State boundary where a line defined by connecting Point 2 and Pont 3 with a straight line intersects the 3 nmi State boundary. The boundary follows the 3 nmi State boundary westward until it intersects the line defined by connecting Point 4 and Point 5 with a straight line. At that intersection, the boundary extends from the 3 nmi State boundary to Point 5 along a straight line.

Table B–5—Anacapa Island Marine Reserve

Point	Latitude	Longitude
1	34.08330 ° N	119.41000 " W
2	34.08330 ° N	119.35670 " W
3	34.06450 ° N	119.35670 " W
4	34.06210 ° N	119.41000 " W



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 38 of 41

Point Latitude	Longitude
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5 34.08330 ° N 119.41000 " W

#### B.8. Santa Barbara Island Marine Reserve

The Santa Barbara Island Marine Reserve (Santa Barbara) boundary is defined by the 3 nmi State boundary, the coordinates provided in Table B–8, and the following textual description.

The Santa Barbara boundary extends from Point 1 to Point 2 along a straight line. It then extends along a straight line from Point 2 to the 3 nmi State boundary where a line defined by connecting Point 2 and Point 3 with a straight line intersects the 3 nmi State boundary. The boundary follows the 3 nmi State boundary northeastward until it intersects the line defined by connecting Point 4 and Point 5 with a straight line. At that intersection, the boundary extends from the 3 nmi State boundary to Point 5 along a straight line. The boundary then extends from Point 5 to Point 6 along a straight line.

Table B-8-Santa Barbara Island Marine Reserve

<del>Point</del>	Latitude	Longitude
<del>1</del>	<del>33.36320 ° N</del>	<del>118.90879 " W</del>
2	<del>33.36320 ° N</del>	<del>119.03670 " W</del>
3	<del>33.41680 ° N</del>	<del>119.03670 " W</del>
4	<del>33.47500 ° N</del>	<del>118.97080 " W</del>
5	<del>33.47500 ° N</del>	<del>118.90879 " W</del>
<del>6</del>	<del>33.36320 ° N</del>	<del>118.90879 " W</del>

Amend: Appendix C to Subpart G of Part 922 (Marine Conservation Area Boundary Boundaries) for 15 CFR 922

C.2. Gull Island (Santa Cruz Island) Marine Conservation Area The Gull Island Marine Conservation Area (Gull Island) boundary is defined by the 3 nmi State boundary, the coordinates provided in Table B–4, and the following textual description. The Gull Island boundary extends from Point 1 to Point 2 along a straight line. It then extends along a straight line from Point 2 to the 3 nmi State boundary where a line defined by connecting Point 2 and Point 3 with a straight line intersects the 3 nmi State boundary. The boundary then follows the 3 nmi State boundary westward until it intersects the line defined by connecting Point 4 and Point 5 with a straight line. At that intersection, the boundary extends from the 3 nmi State boundary to Point 5 along a straight line.

Table B–4—Gull Island (Santa Cruz Island) Marine Conservation Area

Point Latitude Longitude

1 33.86195 ° N 119.80000 " W



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 39 of 41

Point	Latitude	Longitude
2	33.86195 ° N	119.88330 " W
3	33.92690 ° N	119.88330 " W

- 4 33.90700 ° N 119.80000 " W
- 5 33.86195 ° N 119.80000 " W

## C.3. Footprint Marine Conservation Area

The Footprint Marine Conservation Area (Footprint) boundary is defined by the 3 nmi State boundary, the coordinates provided in Table B–6, and the following textual description.

The Footprint boundary extends from Point 1 to Point 2 along a straight line. It then extends along a straight line from Point 2 to the 3 nmi State boundary where a line defined by connecting Point 2 and Point 3 with a straight line intersects the 3 nmi State boundary. The boundary follows the 3 nmi State boundary northeastward and then southeastward until it intersects the line defined by connecting Point 4 and Point 5 along a straight line. At that intersection, the boundary extends from the 3 nmi State boundary to Point 5 along a straight line.

Table B–6—Footprint Marine Conservation Area

Point	Latitude	Longitude
1	33.90198 ° N	119.43311 " W
2	33.90198 ° N	119.51609 " W
3	33.96120 ° N	119.51609 " W

- 4 33.95710 ° N 119.43311 ″ W
- 5 33.90198 ° N 119.43311 " W

# C.4. Santa Barbara Island Marine Conservation Area

The Santa Barbara Island Marine Conservation Area (Santa Barbara) boundary is defined by the 3 nmi State boundary, the coordinates provided in Table B–8, and the following textual description. The Santa Barbara boundary extends from Point 1 to Point 2 along a straight line. It then extends along a straight line from Point 2 to the 3 nmi State boundary where a line defined by connecting Point 2 and Point 3 with a straight line intersects the 3 nmi State boundary. The boundary follows the 3 nmi State boundary northeastward until it intersects the line defined by connecting Point 4 and Point 5 with a straight line. At that intersection, the boundary extends from the 3 nmi State boundary to Point 5 along a straight line. The boundary then extends from Point 5 to Point 6 along a straight line. Table B–8—Santa Barbara Island Marine Conservation Area

Point	Latitude	Longitude
1	33.36320 ° N	118.90879 " W
2	33.36320 ° N	119.03670 " W
3	33.41680 ° N	119.03670 " W
4	33.47500 ° N	118.97080 " W

- 5 33.47500 ° N 118.90879 " W
- 6 33.36320 ° N 118.90879 " W



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 40 of 41

Links to data sources:

- 1. CDFW Marine Species Portal: https://marinespecies.wildlife.ca.gov/ for Bluefin Tuna, Swordfish, and Striped Marlin
- 2. NOAA Species Directory: https://www.fisheries.noaa.gov/species-directory for North Pacific Swordfish and Pacific Bluefin Tuna
- 3. PIER papers: https://pier.org/resources/publications/ for swordfish migratory movements DOI: 10.1111/fog.12461, and DOI:10.1111/j.1365-2419.2010.00543.x
- 4. WCPFC stock analysis: https://www.wcpfc.int/current-stock-status-and-advice for Pacific Bluefin Tuna, North Pacific Swordfish, North Pacific Striped Marlin
- 5. Oceana DSBG Sustainability Article: https://usa.oceana.org/press-releases/new-daydawns-for-whales-sea-turtles-and-sustainable-swordfish-fishing-off-californias-shores/
- PEW DSBG Sustainability Article: https://www.pewtrusts.org/en/research-andanalysis/articles/2023/06/22/us-approves-sustainable-way-to-catch-swordfish-off-westcoast
- 7. MPA regional info: https://californiampas.org/mpa-regions/north-coast-region
- Channel Islands Network info (NOAA): https://channelislands.noaa.gov/about/maps.html#:~:text=Channel%20Islands%20National %20Marine%20Sanctuary%20protects%201%2C470%20square%20miles%20of,Miguel%2 C%20and%20Santa%20Barbara%20islands
- 9. MPA Master Plan hub: https://wildlife.ca.gov/Conservation/Marine/MPAs/Master-Plan
- 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:
  - Would give local charter businesses better access to local Northern Channel Island banks, helping business and reducing fuel costs and emissions spent traveling further offshore.
  - Would significantly assist the commercial swordfish industry and total domestic swordfish landings, returning legacy harpoon fishery waters, and allowing for more sustainable, domestic product to be landed by harpoon and DSBG after the phase out of drift nets.
- 12. Forms: If applicable, list any forms to be created, amended or repealed:

None to my knowledge.

# SECTION 3: FGC Staff Only

Date received: 3/14/2025
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:



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 41 of 41

FGC action:

Denied by FGCDenied - same as petition

Tracking Number

 $\Box$  Granted for consideration of regulation change

From: Blake Hermann < Sent: Friday, March 14, 2025 01:37 PM To: FGC <FGC@fgc.ca.gov> Subject: Resubmital of Petition2023-15MPA

Hello,

This is the resubmission of the amended petition provided in January. It only contains minor fixes in general spelling and grammar errors, and clarifies "recreational take of pelagics or HMS" as only by hook-and-line or spear. These are the only available methods but just for clarity I included that small edit. Thanks,

>

Blake



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 1 of 41

## Petition2025-15MPA Amendment Cover Message

The revisions to this petition involve two sets of informational changes: amendments to the original petition actions and additional stakeholder feedback/rationale that has been gathered over the last year.

Petition actions being revised:

- Modification of options 3 and 4 in the original petition to align with federal feedback and existing regulations in Groundfish Exclusion Areas (GEAs). Rather than only allowing "surfacefishing-methods" the options now restrict "bottom-contact-gears," like the GEAs. This change was made so that entirely new language and definitions do not need to be drafted in a case options 3 or 4 are selected. (Located on page 3, 11, and 18)
- Addition of a 5<sup>th</sup> and 6<sup>th</sup> option consisting of only non-hook-and-line gear methods for consideration, this is not an additional action, just a different combination of allowable methods from the original petition. The new options 5 and 6 would only allow recreational spearfishing of pelagic finfish (option 5) or highly migratory species (option 6) and would allow the commercial take of swordfish by harpoon (options 5 and 6). These options were added to be the least invasive as possible in terms of take, be possibly easier to enforce than the other hook-and-line options and would solve the commercial swordfish gear drift problems for harpoon gears (but not for DSBG). (Located on page 3 and 18)
- Modification of the optional nearshore/offshore MPA boarder at the Santa Barbara Island MPA to a straight line between two points of latitude and longitude versus the original boarder being the 1 nautical mile line from the island. The reason for this change is to align to the MPA design criteria set in the MLPA which states to not use odd shapes or curves, only straight lines between tenth or whole minute latitudes and longitudes. (Located on page 3, 19, and 20)
- Modification of how deep-set-buoy-gear (DSBG) will be considered in the petition. Currently
  DSBG is only a federal fishery and still in its EFP stage at the State level, consideration of its
  allowance inside the state waters of MPAs will remain pending with the FGC and CDFW until
  DSBG is a state fishery. Until then, only a federal process may allow DSBG in the federal
  portions of the MPAs. Therefore, DSBG has been isolated from all of the options, now having
  its own action section due to the unique case of that process. (Located on page 4, 16, and 17)

Additional stakeholder feedback/rationale being added:

- Commercial swordfish gear(s) uncontrollable movement into primarily these MPAs, per MDFE effort data, poses problems that must be resolved. (Located on pages 11-13)
- Naval closures local to the Channel Islands restricting most offshore fishing opportunity except near two of the petition MPAs. (Located on page 13)
- Additional information pertaining to adaptive management, the MPA Master Plans (2008 and 2016), the MLPA, and climate resiliency in the scope of this specific petition. (Located on pages 14-15)



# Tracking Number: (2023-24MPA-AM1)

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. Laguna Bluebelt Coalition Name of primary contact person: Mike Beanan Address: Telephone number: Email address:
- 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) -

a. Extend the Laguna Beach SMCA no-take regulation down to the southern border of the City of Laguna Beach. This area is currently covered by the Dana Point SMCA, which only protects tide pool resources, not the offshore kelp beds.

## 4. Rationale (Required) -

The revised Petition is based upon input from the Orange County Marine Protected Area Collaborative (OCMPAC) and enforcement recommendations from participants. The revised Petition locates the southern No Take SMCA border to follow one East/West latitude line to facilitate a consistent offshore boundary. Laguna Beach has recently taken over enforcement of the South Laguna beaches all the way down to the City border. Right now there is confusion due to the different regulations within one city.

This regulation change will make enforcement easier and more consistent because it will create continuity within the city, where the same rules apply to all beaches. All Laguna Beach lifeguards have received MPO training and enforce no-take rules for the



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 2 of 6

rest of the city beaches. This will result in an increase in outreach and enforcement effectiveness, which supports priority recommendation number 15.

High fishing and lobstering pressure are taking a toll on the remaining kelp beds in South Laguna due to overharvesting and substrate degradation <u>possibly</u> due to anchor <u>chain</u> drag. The Sustainable Fisheries Act of 1996 established new requirements for fishery management councils to identify and describe Essential Fish Habitat and to protect, conserve, and enhance these EFH for the benefit of fisheries. A 2002 update to these EFH regulations allowed fishery management councils to designate Habitat Areas of Particular Concern (HAPCs). HAPCs are considered high priority areas for conservation, management, or research because they are important to ecosystem function, sensitive to human activities, stressed by development, or are rare. The rocky reef and kelp beds in this particular area of South Laguna are slightly different than those in the rest of the city because of the steep drop of the cliffs into the ocean. This creates a unique microhabitat where water <u>nutrients are mixed due to wave refraction</u> off the cliffs.

There are kelp forests offshore in these areas that are desperately needed as habitat. One of the original design considerations for designating MPAs was to "Include within MPAs suitable rocky habitat containing abundant kelp and/or foliose algae" (CMLPA Master Plan for MPAs, Appendix F). When the MPA boundaries were finalized in 2012, the kelp was at its highest extent of coverage since 1967 (see supplemental graph), so the total area of kelp forest was overestimated. The kelp beds off South Laguna have been nearly decimated <u>possibly</u> by overharvesting and anchor <u>chain</u> drag and need to be protected. This, in combination with the potential for additional kelp decline due to warm water <u>and recent wildfire events</u> makes it imperative that we protect as much as possible. <u>The Science Advisory Team (SAT) determined Laguna Beach's MPA to be the</u> <u>minimum size for success</u>.

The Marine Mammal Protection Act also requires action to be taken here. The south end of the no-take SMCA is visible from shore as a line of lobster trap buoys extending out from the cliffs and beach. One MPA watch volunteer reported 223 buoys off of Table Rock beach on 11/8/2023. This represents a virtual "wall" of dangerous trap lines that interrupt whale migration paths. Whales have been seen frequently traveling very close to shore along this stretch of coastline (see supplemental photo of Thousand Steps beach). A December 2019, <u>Men's Journal</u> magazine article stated that in the preceding few weeks Dana Point Boat captains had logged more than 40 sightings of gray whale cow-calf pairs in the shallow coves of Laguna Beach. The lobster buoy lines <u>likely</u> create a dangerous obstacle for migrating whales, which are protected under the MMPA.

Residents in South Laguna support the extension of the no-take SMCA as evidenced by the attached letters of support from the Three Arch Bay Community Services District, Orange County Coastkeeper, Laguna Canyon Conservancy, Laguna Bluebelt Coalition, and the South Laguna Civic Association. They feel that it is not equitable to have only the north and central beaches protected. Please see the attached letters of support. The



State of California – Fish and Game Commission PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE FGC 1 (Rev 06/19) Page 3 of 6

Laguna Beach City Council also supports further analysis and participation in the process.

# **SECTION II: Optional Information**

5. Date of Petition: 11/29/2023 AMENDED 03/11/2025

# 6. Category of Proposed Change

- □ Sport Fishing
- □ Commercial Fishing
- □ Hunting

X Other, please specify: MPAs, Section 632.

# 7. The proposal is to: (To determine section number(s), see current year regulation booklet or <a href="https://govt.westlaw.com/calregs">https://govt.westlaw.com/calregs</a>)

Amend Title 14 Section(s):<u>Westlaw regulations</u>.

- Add New Title 14 Section(s): Click here to enter text.
- □ Repeal Title 14 Section(s): Click here to enter text.
- If the proposal is related to a previously submitted petition that was rejected, specify the tracking number of the previously submitted petition
   Or X 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:

This should be implemented as soon as possible. Ancient California Gray Whale Migration is currently being altered due to proliferation of nearshore lobster traps and rope buoys at the southern SMCA boundary.

- **10. Supporting documentation:** Identify and attach to the petition any information supporting the proposal including data, reports and other documents:
  - (A) Map of proposed Boundary Adjustment.
  - (B) Letter of support from the Three Arch Bay Community Services District
  - (C) Letter of support from the South Laguna Civic Association
  - (D) Letter of support from the Laguna Bluebelt Coalition
  - (E) Letter of support from Orange County Coastkeeper
  - (F) Letter of support from the Laguna Canyon Conservancy
  - (G)Graphic from "Status of the Kelp Beds in 2019: Orange & San Diego Counties.
  - Prepared for the Region Nine Kelp Survey Consortium" by MBC Aquatic Sciences
  - (H) Full Report: "Status of the Kelp Beds in 2019"
  - (I) Photo of gray whale at Thousand Steps Beach
- **11. Economic or Fiscal Impacts:** <u>Although no socioeconomic data is provided</u>, there <u>may be</u> a fiscal impact on commercial lobster fishers due to reducing their fishing grounds. However, fishing effort will be closer to Dana Point Harbor to save fuel costs and use of ropeless buoys will be encouraged. With removal of lobster buoy lines as migration barriers, whale watching



State of California – Fish and Game Commission PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE FGC 1 (Rev 06/19) Page 4 of 6

tours can resume in Laguna Beach (\$10 million estimated annual revenues to Dana Point economy). Less anchoring by CPFVs will reduce anchor <u>chain</u> drag damaging local reefs and kelp forests. Estimated resident property values gain an increase of 20% from proximity to a fully protected MPA

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

# SECTION 3: FGC Staff Only

Date received: March 11, 2025

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: \_\_\_\_\_

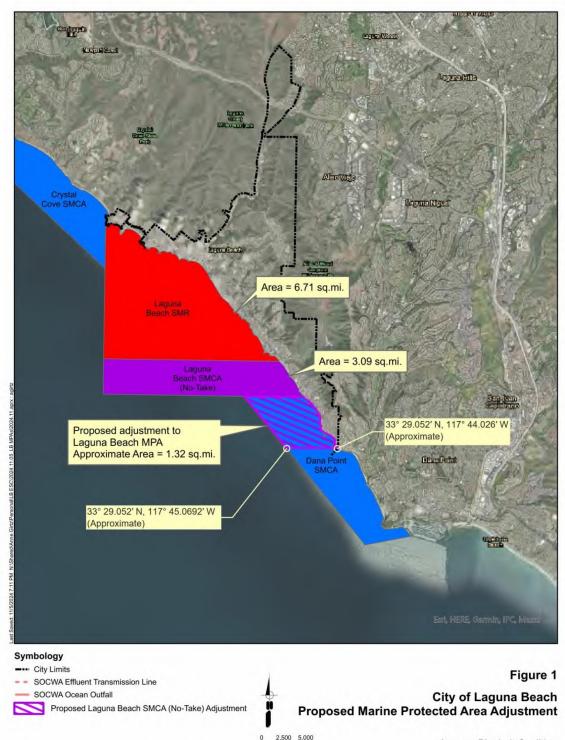
FGC action:

- $\hfill\square$  Denied by FGC
- □ Denied same as petition \_\_\_\_\_

Tracking Number

 $\hfill\square$  Granted for consideration of regulation change

## **Revised Boundary Map**

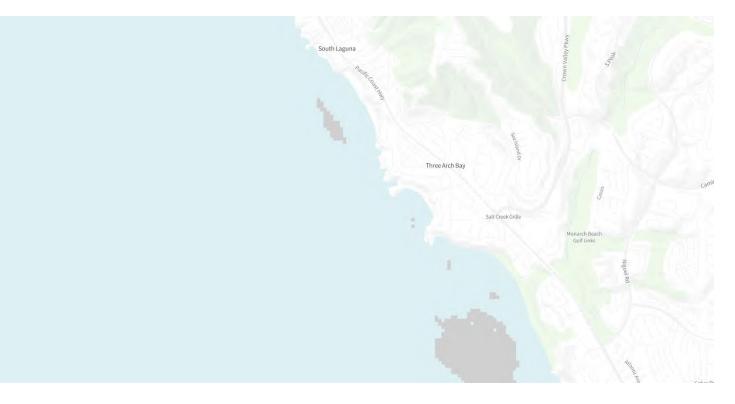


Scale in Feet

Laguna Bluebelt Coalition MPA Decadal Review



Proposed SMCA No Take Rocky Kelp Substrate at Thousand Steps Reef – KelpWatch.org





Proposed SMCA No Take Rocky Kelp Substrate at Thousand Steps Reef – KelpWatch.org





California Fish and Game Commission Marine Resources Committee fgc@fgc.ca.gov January 7, 2025

Subject: Revision to Laguna Bluebelt Coalition Petition 2023-24 MPA

Commissioners and Staff,

The Laguna Bluebelt Coalition seeks to revise the southern boundary for Petition 2023-24MPA to a No Take SMCA (State Marine Conservation Area) for citywide enforcement consistency and protection of essential sea life habitat between Palos Verdes and La Jolla MPAs.

The proposed revised No Take SMCA is within the jurisdiction of the City of Laguna Beach and has widespread support from community organizations and the City's Environmental and Sustainability Committee. Community support includes the South Laguna Civic Association, Three Arch Bay Service District, Village Laguna, Laguna Canyon Conservancy, Project O, OC Coastkeeper and many individuals.

The City of Laguna Beach has submitted multiple letters seeking to participate in processing the Laguna Bluebelt Petition. In a December 10, 2024 letter to the Commission, Laguna Beach Mayor Rounaghi emphasized the "City looks forward to reviewing the State's assessment of Petition 2023-24 MPA" and "The City remains committed to actively participate and providing informed input...".

Presently, the southern area of Laguna Beach is inaccurately designated as within the Dana Point SMCA leading to confusion about place names and take regulations. The Petition will simplify the no take regulation for the entire city of Laguna Beach, address inaccurate place names and restore Laguna Beach as the correct jurisdiction for this area. The revised No Take SMCA boundary will be identified by the prominent bluff top outcropping at Three Arch Bay consistent with the Laguna Beach City Limits.

The Petition reflects the MLPA's Adaptive Management Objectives to:

• Protect the structure and function of marine ecosystems • Improve native marine life populations, including those of economic value • Ensure minimal disturbance while allowing for sustainable opportunities for recreation, education and research • Ensure comprehensive representation of all key habitats, including unique habitats • Use learning acquired through administration of the MLPP to adaptively manage the objectives, management measures, enforcement efforts, and scientific guidelines to inform management decisions • MPAs function as a cohesive statewide network

Size and Spacing Considerations

The Science Advisory Team (SAT) spacing requirements determined Laguna Beach is an essential linkage for larval dispersal among Southern California's MPAs. Guidelines set a maximum distance and minimum size for each MPA.

Maximum Shoreline Distance: To ensure the persistence of a suite of species in an MPA network, the maximum distance between MPAs was determined to be within 50 -100 km (31 -62 miles). A network of MPAs 20 km (12 miles) in length met the upper boundary of the preferred size guidelines and led to population persistence for a larger set of movement combinations. With MPAs this large, decreasing spacing produced a more substantial effect. MPAs of 20 km (12 mile) shoreline length protected a much larger range of movement combinations when spaced 50 km (31 miles) apart (51.8%) than when spaced 100 km apart (21.6%). This increase occurred because persistence of populations with large mean larval dispersal was maintained through a network effect, rather than self-persistence. Laguna Beach's MPAs maximum distance are 50 miles from Palos Verdes MPAs and 72 miles from La Jolla MPAs to meet this goal.

In summary, bigger MPAs yield better results for protecting marine life. Laguna Beach is an excellent candidate when you combine community support and the City's present MPA enforcement measures to be able to achieve noteworthy success.

Minimum Alongshore Extent: To best protect adult populations, based on adult neighborhood sizes and movement patterns, Guidelines conclude MPAs should have an alongshore extent of at least 3-6 miles of coastline, and preferably 6-12.5 miles. Larger MPAs would be needed to fully protect marine birds, mammals, and migratory fish. Combined and simplified, the Guideline indicates that MPAs should have a minimum area of 9-18 square miles, or a preferred area of 18-36 square miles.

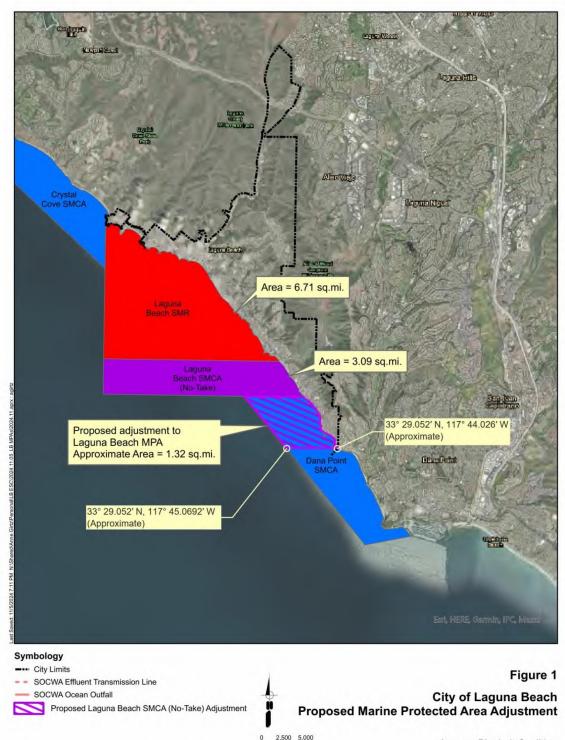
The Revised Petition to include full protection of all of Laguna Beach's MPAs is necessary to comply with SAT Guidelines since, once approved, it will protect 7 miles of coastline slightly within the preferred alongshore extent (6-12 miles). A fully protected Laguna MPA will also grow to 11 square miles, the minimum preferred area (9-18 square miles).

Once approved, the citywide and a fully protected MPA will comply with SAT Guidelines for preferred coastline and size. This will be complimented by local, well-established education and enforcement capabilities to support the continued success for Laguna Beach's MPAs.

## Stakeholder Collaboration

The Laguna Bluebelt Coalition, a statewide model for MPA Collaboratives since 2009, has met with key stakeholders through OCMPAC including fishing groups, tribal representatives, game wardens and others to revise Petition 2023-24MPA to accommodate the local lobster fishery. By adjusting the southern SMCA to follow the east/west latitude line at the request of the Dana Point lobster group, placement of lobster traps is facilitated by a consistent GPS latitude line to avoid encroachment into the proposed southern Laguna Beach No Take SMCA.

## **Revised Boundary Map**



Scale in Feet

Laguna Bluebelt Coalition MPA Decadal Review

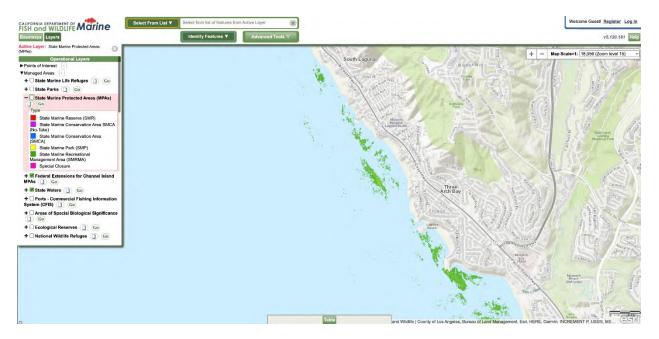
#### **Economic Considerations**

While commercial fishing businesses generally object to MPAs, it is worth noting that Dana Wharf has shifted operations away from fishing to pursue new economic opportunities as the Whale and Dolphin Watching Capital of the World – America's first Whale Heritage Site. The designation of just over 1 square mile of a new No Take SMCA is just a fraction of the present Dana Wharf fishing grounds and will not measurably impact their annual sportfishing and whale tour revenues. Dana Wharf presently operates large fishing grounds spanning hundreds of square miles from Dana Point south to Camp Pendleton and west to Catalina and San Clemente Islands.

#### See: The Ultimate Guide To Fishing In Dana Point, CA | Dana Wharf

#### **Essential Marine Habitats**

With steep coastal bluffs, isolated coves and offshore reefs, Laguna Beach's southern coastline provides unique habitats for coastal sea life nurseries. Kelp forests populate local reefs throughout the city while dolphin and whales routinely transit the area for foraging opportunities and annual migration.



## Laguna Beach's Essential Kelp Habitat

The City of Laguna Beach has a long ocean tradition and is committed to protecting marine resources. All Marine Safety Lifeguards are qualified as Marine Protection Officers to maintain a robust education and enforcement program.

The Laguna Beach General Plan and Policies recognize the value of coastal resources (see References).

The success of Laguna's Marine Protected Areas over the past 12 years is clear evidence that sea life can be protected and restored in an urban environment. The City's commitment to manage over 6 million visitors continues to educate and motivate compliance with all MPA regulations and policies. Revising the southern SMCA boundary for full citywide protection will support the community's dedication to achieve the goals and objectives of the State's Marine Life Protection Act.

The Laguna Bluebelt Coalition appreciates the dedicated role of the Fish and Game Commission to serve as a global leader in advancing the State's recovery of sea life for present and future generations.

Mike Beanan w/Laguna Bluebelt Coalition



Julianne E Steers, Sargo School

#### References

#### Laguna Beach General Plan and Policies

Action 1.1.1 Protect natural assets and open-space areas to maintain their role as "carbon sinks."

Policy 4.1 Policy 4.2 Develop and adopt a program to protect sensitive coastal resources.

Action 4.1.1 Compile an inventory of the City's coastal resources and prepare a Coastal Resources Protection Program.

Action 4.2.2 Enforce State's Marine Life Management Act and identified Marine Life Protected areas within the City and local regulations for the protection of marine life and intertidal resources and to conduct educational and outreach programs.

Action 10.7.2 Periodically review the City's Water Quality Control Ordinance and related policies for protecting marine resources and update as appropriate.

In cooperation with the State Department of Fish and Game, a Marine Preserve was created by the State in 1968 for a portion of the City's shoreline particularly rich in tidepool life. In addition to the Marine Preserve, the State, in conjunction with the City, established an Ecological Reserve in 1974, creating, in essence, a marine sanctuary, or a protected "aquarium".

Policies 2-A Encourage the expansion of the Marine Life Refuges and the designation of particularly unique or ecologically sensitive coastal areas as Ecological Reserves (such as seal and bird rocks), pursuant to the provisions of the State Department of Fish and Game.

2-F Develop a local enforcement program, pending funding availability, consisting of shoreline protection regulations and citation authority for Marine Safety personnel.

2-H Support restoration of offshore kelp beds.

41 Watershed Protection and Restoration Promote the protection and restoration of offshore, coastal, lake, stream or wetland waters and habitats and preserve them to the maximum extent practicable in their natural state. Oppose activities that may degrade the quality of offshore, coastal, lake, stream or wetland waters and habitat and promote the rehabilitation of impaired waters and habitat.

Develop an enforcement program for the protection of marine life resources.

Promote an expanded Marine Life Refuge.

Marine Resources: A small estuary occurs at the mouth of Aliso Creek. As recently as 1976 this estuary supported the Tidewater Goby, a species considered uncommon and declining in numbers due to habitat loss. A resource inventory included in the Orange County Conservation Element identifies the presence of the South Laguna Marine Life Refuge in the South Laguna area. The refuge, near the mouth of Aliso Creek, was given refuge status by the California Fish and Game Commission because the animal

populations in the rocky intertidal habitat had not been subjected to the collecting pressures that had occurred in other areas along the south coast.

From: Mike Beanan <</td>>Sent: Friday, March 14, 2025 10:41 AMTo: FGC <</td>FGC FGC afgc.ca.gov>Cc: Ashcraft, Susan@FGC Subject: Petition 2023-24-R

Hi,

Please add my comments for the record in evaluating Petition 2023-24-R.

Thank you,

Mike Beanan

Laguna Bluebelt Coalition

Laguna Bluebelt - Working Together for a Healthy Ocean

Working Together for a Healthy Ocean. Support our New Marine ReservesYour support is critical if they are to succeed.

www.lagunabluebelt.com

Mike Beanan, Co-founder, Laguna Beach Coalition

Thank you for including us in the process to evaluate and, hopefully, approve Petition 2023-24-R to protect all of Laguna Beach's Marine Life.

Based upon stakeholder input, we have submitted a Revised Petition offered as a compromise to support and ease near shore enforcement along one, common latitude line. The original petition followed Laguna Beach's City Limits extending southwesterly from the shoreline. This made the determination of the offshore boundary difficult according to participants at a recent stakeholder meeting hosted by the Orange County Marine Protected Area Collaborative in Dana Point. While there is some debate about who made the suggestion, which led to an unfortunate misunderstanding, the revised petition before you is a smaller SMCA No Take than originally requested but still protects kelp and essential fish habitats.

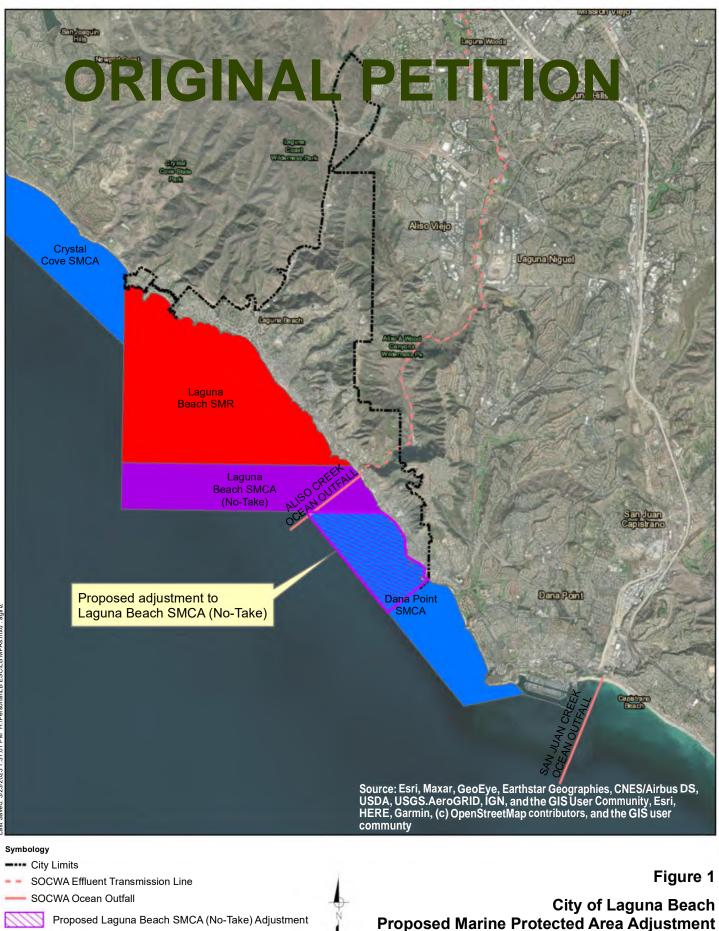
When evaluating the Petitions, I suggest we comply with and enhance the goals of the Marine Management Plan by increasing the coherence and effectiveness in protecting the state's marine life and habitats, marine ecosystems, and marine natural heritage with full citywide protection. Fortunately, Laguna's unique MPAs have dramatically improved recreational, educational and study opportunities provided by marine ecosystems through coordinated enforcement by Marine Safety Lifeguards, Park Rangers and community volunteers working together to minimize human disturbance. Petition 2023-4-R is consistent with all of the goals for the Marine Management Act and legislative intent of the Marine Life Protection Act of 1999.

I am not unfamiliar with economic challenges. I grew up in a large working class family in Northern California surfing the cold, wild waves while diving for abalone with my brothers off of Gualala and Mendocino or fishing mountain lakes. Leaving high school and to avoid the draft, I joined the Navy, studied navigation and was assigned to SEAL Team One, as a Platoon Sergeant and sent to Vietnam. Turning 21, I got out, worked my way through college and earned a degree in Biology before being hired as Assistant Dean at UC Irvine to manage veteran programs. One of my first projects was a pioneering Handicapped Scuba Project for wheelchair veterans and others...now a worldwide opportunity for the physically challenged community to enjoy and explore underwater wonders.

I continue now to swim and free dive Laguna's remarkable MPAs while traveling and Scuba diving other MPAs. I encourage FGC staff and commissioners to visit and swim Laguna's MPA and see large Sheepshead and robust kelp forests free of sea urchin barrens.

As a Californian, I feel an opportunity and responsibility to protect and restore our natural heritage - an abundant ocean teeming with sea life. Please consider approving the Laguna Bluebelt's Petition 2023-24-R as part of your legacy for California's sea life protection.





5,000 2,500 0 Scale in Feet

Laguna Bluebelt Coalition MPA Decadal Review





P.O. BOX 9668 SOUTH LAGUNA, CA 92652-7639 southlaguna.org

August 29, 2023

Commissioners and Staff,

Since 2012, with the implementation of the California Marine Life Protection Act of 1999, Laguna Beach has successfully managed a network of Marine Protected Areas as a statewide model of collaboration and appreciates the support of the Fish & Game Commission in that effort.

On the heels of annexation of South Laguna beaches coming under the purview of the City of Laguna Beach on March 1, 2023, we are requesting an expansion of the "No Take SMCA" provisions to extend throughout all Laguna Beach MPAs. In addition to alignment with Laguna Beach's commitment to the national "30 x 30 Initiative Plan" to conserve 30% of America's land and waters by 2030, a citywide "No Take" provision will provide enforcement consistency and community equity while protecting South Laguna kelp reefs – key to carbon sequestration, rising sea temperatures and attenuating bluff erosion.

Multiple benefits will accompany extending the Laguna Beach No Take MPA from 7.2 to 7.9 miles: from Aliso Beach and Totuava Cove through Three Arch Bay (TAB) southwest to the Laguna Beach city limit, see attached map. TAB has exceptional nursery beds for marine life in its bays that are not protected under our current MPAs. For this reason, coupled with the decimating impacts of over-fishing in the unprotected SMCA along TAB during the past 10 years, the TAB Community Services District requested in May 2023 that California Fish and Wildlife Commission extend the No Take MPA through "the southernmost point of the city of Laguna Beach – Mussel Cove, also known as Three Arch Bay."

The Laguna Bluebelt Coalition, Laguna Ocean Foundation through their education and outreach programs, the City of Laguna Beach's Environmental Sustainability Committee, and the enthusiastic 100% support and collaboration of our City Council and Marine Safety Department have enabled us to be strong watchdogs and local stewards of our MPAs. Together, we have focused on habitat restoration, water-quality education, wildlife and resource protection, and networking.

Laguna Beach's rocky coastline has been scientifically determined to provide ideal tidepool and kelp forest habitats as a vital genetic linkage for marine life between the Palos Verde Peninsula and La Jolla Cove. No Take MPAs in Laguna Beach have created increased sea life populations, support an expanding variety of ecotourism recreational opportunities, and have proven to be essential to mitigating decades of over-fishing.

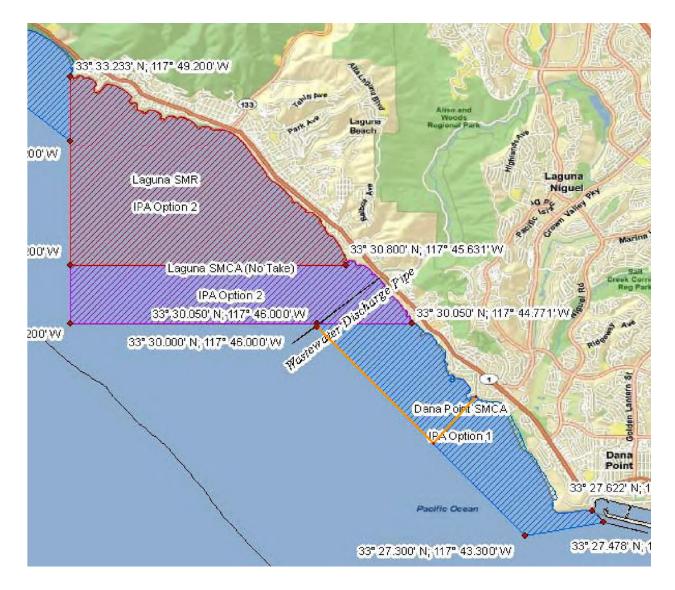
Citywide MPA consistency will further improve ocean water quality by reducing harmful greenhouse gas emissions from fishing boats traveling from Dana Point to Laguna Beach.

Climate change science recognizes the ocean as key to reversing negative anthropogenic climate impacts.

Thank you for your support of Laguna's Marine Protected Areas and for your consideration of an expansion of the network of No Take MPAs citywide which will increase protections to California's sea life populations and habitat value while benefitting us all.



Greg O'Loughlin, President South Laguna Civic Association



Orange outline indicates the proposed No Take MPA extension to Laguna Beach's southern boundary.



P.O. Box 1383, Laguna Beach, CA 92652 • www.LagunaCanyonConservancy.org

November 22, 2023

California Fish and Wildlife Commission P.O. Box 944209 Sacramento, CA 94244-2090 *Via email: fgc@fgc.ca.gov* 

## RE: Support for Extending Laguna Beach's Southern MPA Boundary

Dear Commissioners,

The Board of Directors of the Laguna Canyon Conservancy (LCC) joins with our local environmental colleagues and organizations in support of extending the Marine Protected Areas at the southern end of Laguna Beach.

LCC believes a revision is vital to ensuring an increase in protection of California's sea life populations and ecosystems, as well as enforcing consistency of rules and regulations, along with community equity. It is also important to achieve the City of Laguna Beach's 30 x 30 contribution to protect 30% of the world's coastal marine areas by 2030.

As stewards of our wilderness, we hope the Commission will support the goals and requests of Laguna Beach's environmental groups to expand the network of No Take MPAs citywide and protect our coastal environment for present and future generations to come. Thank you in advance for making this critical step forward.

Laguna Canyon Conservancy is a non-profit, all-volunteer environmental organization founded in 1988 to Save and Protect Laguna Canyon. LCC members have been involved in expanding the South Coast Wilderness nature reserves of Orange County that now include over 22,000 acres of parks, open space, and marine preserves. For more information, please visit: www.LagunaCanyonConservancy.org

Sincerely

Gayle Waite President, Laguna Canyon Conservancy

Cc: City Council of Laguna Beach Jeremy Frimond, Assistant City Manager March 9, 2023

California Fish and Wildlife Commission P.O. Box 944209 Sacramento, CA 94244-2090 *fgc@fgc.ca.gov* 



# RE: Letter of Support for Citywide "No Take" Marine Protected Areas (SMR and SMCA) in Laguna Beach, Orange County, California

Commissioners and Staff,

With the implementation of the California Marine Life Protection Act of 1999, Laguna Beach has successfully managed a network of MPAs as a statewide model of collaboration, education and enforcement. To provide citywide enforcement consistency, the Laguna Bluebelt Coalition requests extending "no take" provisions to include all of Laguna Beach's State Marine Conservation Areas (SMCAs) to the southern City Limits.

Laguna Beach's rocky coastline has been scientifically determined to provide ideal tidepool and kelp forest habitats as a vital genetic linkage for marine life between the Palos Verde Peninsula and La Jolla Cove. The City of Laguna Beach continues to benefit economically and ecologically from Marine Protected Areas with experienced Marine Protection Officers (MPOs), community vigilance, marine life education and comprehensive fishing restrictions.

The South Laguna SMCA is characterized by steep bluffs and compact coves to create a unique coastal ecology with tide pools, deep rocks and kelp forests. Wave action and backwash energy from bluffs surrounded by offshore kelp forests offers a local mixing zone for marine mammal and sealife foraging. Annual migrations of California Gray Whales often use South Laguna Coves as a rest stop for mothers and calves. Laguna Beach's other No Take MPAs have increased sea life populations and currently support a variety of ecotourism recreational opportunities.

While most of Laguna Beach restricts fishing, South Laguna is a designated State Marine Conservation Area allowing recreational and commercial fishing. Daily, concentrated fishing effort in the South Laguna SMCA has unfortunately contributed to over-fishing during the past ten years by recreational fishers and commercial passenger fishing vessels (CPFVs). Expansion of Laguna Beach's MPAs is essential to mitigate decades of regional over-fishing.

Expanding "No Take" provisions for all City MPAs will contribute to the City's commitment to the national "30 x 30 Initiative Plan" to conserve 30% of America's land and waters by 2030. The March 1, 2023 annexation of South Laguna beach areas by the City of Laguna Beach requires "No Take" provisions for the South Laguna SMCA to provide citywide enforcement consistency and community equity.

Climate change science recognizes the ocean as key to reversing negative anthropogenic climate impacts and the City of Laguna Beach is committed to a Climate Action Plan. Citywide MPA enforcement consistency will improve ocean water quality by reducing harmful greenhouse gas emissions from commercial fishing boats traveling far from Dana Point to fish in South Laguna.

The City Council proudly supports the Marine Protected Areas and City policies encourage exapnding marine life refuges.

Thank you for your dedicated efforts to protect California's marine life and for considering our request to extend citywide "No Take" protection for all of Laguna Beach's MPAs.

Mike Beanan Laguna Bluebelt Coalition

https://www.lagunabluebelt.com/

References:

https://www.lagunabeachcity.net/home/showpublisheddocument/8148/637406985535730000

City of Laguna Beach: Tide Pools and Marine Habitats

2A Encourage the expansion of the Marine Life Refuges and the designation of particularly unique or ecologically sensitive coastal areas as Ecological Reserves (such as seal and bird rocks), pursuant to the provisions of the State Department of Fish and Game.



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

Re: Support for Laguna Bluebelt Coalition Petition to extend the no-take SMCA to the southern boundary of the City of Laguna Beach

Dear President Sklar and Commissioners,

OC Coastkeeper has the mission to protect swimmable, drinkable, fishable water and promote watershed resilience throughout our region. We have been actively working to support and implement Marine Protected Areas since the passage of the Marine Life Protection Act. We support the Laguna Bluebelt Coalition's petition regarding an extension of the Laguna Beach no-take SMCA boundary to the southern border of the city and urge you to approve this proposed boundary change.

Orange County beaches have some of the most beautiful beaches and coves found anywhere in the world. Visitation is high, and therefore the protection offered by the MPAs is vital. Most of the city is protected by the Laguna Beach State Marine Reserve (SMR) and the Laguna Beach no-take State Marine Conservation Area (SMCA). However, there is a stretch of coastline that lies within the city limits that does not receive the same level of protection. Commercial and recreational fishing is permitted in these waters and residents are alarmed by the amount of fishing and the number of lobster traps that they see regularly. This area of the coastline has not been sufficiently studied to get scientific data on the impact of fishing, but local residents that spend substantial time in the water have noted a decrease in fish in the unprotected area.

These coves support vital kelp forest habitat, which is on the decline across the state. The rocky substrate that supports the kelp as well as the fish and invertebrates that utilize the kelp are impacted by lobster traps and anchors. The kelp is still present, but now fails to reach the surface. We must protect this habitat while it still has the ability to come back.

Another concern in this area is the whale migration route. Whales frequently come in close to the shore through Laguna Beach on their migration to and from the calving and breeding grounds in Baja California. During Lobster season, the whales run into a virtual wall of lobster ropes and buoys, which pose a serious threat to entanglement.

Extension of the no take SMCA boundary south will assist enforcement of MPA regulations by making the entire City of Laguna Beach a no take zone. The City of Laguna Beach has recently taken over management of all of the beaches in the city. Until last summer, the County of Orange was in charge of managing all of the beaches south of Aliso Creek. Now that

beach management is consistent throughout the city, the MPA rules should be consistent as well. This will make it easier for the public to identify where they can and can't fish, and for enforcement officers to do their job.

To help MPA enforcement, protect whales, and preserve the remaining kelp beds, we urge the commission to extend the no-take SMCA boundary to coincide with the southern boundary of the City of Laguna Beach. We enthusiastically support California's MPA Network and believe the MPAs are working to preserve biodiversity. In the case of Laguna Beach, the MPA extension will enhance the protection of vital ecosystems and create a more consistent and cohesive enforcement policy.

Sincerely,

Rayrul T. Kremster

Associate Director of Policy and Projects



THREE ARCH BAY COMMUNITY SERVICES DISTRICT 5 BAY DRIVE, LAGUNA BEACH, CALIFORNIA 92651-6780 (949) 499-4567 FAX: (949) 499-2352

May 1, 2023

California Fish and Wildlife Commission P.O. Box 944209 Sacramento, CA 94244-2090 <u>fgc@fgc.ca.gov</u>

**RE:** Letter of Support for Laguna Beach City-wide Marine Protected Areas including South Laguna, to the Southern Point of Mussel Cove, Orange County, California

Dear Commissioners,

Since 2012, with the implementation of the California Marine Life Protection Act of 1999, Laguna Beach has successfully managed a network of Marine Protected Areas (MPAs) as a statewide model of collaboration, education and enforcement. To provide marine protection consistently throughout all of Laguna Beach, the Community Services District of Three Arch Bay supports an extension of marine protection via "no take" Marine Conservation Areas (SMCAs) to the point at the end of Mussel Cove, which is the southern border of Laguna Beach, in the community of Three Arch Bay (TAB).

Laguna Beach's rocky coastline has been scientifically determined to provide ideal tidepool and kelp forest habitats as a vital genetic linkage for marine life between the Palos Verde Peninsula and La Jolla Cove. The City of Laguna Beach continues to benefit economically and ecologically from Marine Protected Areas.

Three Arch Bay (TAB), which includes Mussel Cove, in South Laguna's SMCA, is characterized by steep bluffs and compact coves that create a unique coastal ecology with tide pools, deep rocks and kelp forests. Wave action and backwash energy from bluffs surrounded by offshore kelp forests offers a local mixing zone for marine mammal and sea life foraging.

While most of Laguna Beach restricts fishing, the southern end of Laguna Beach was only designated a State Marine Conservation Area, which allows continued recreational and commercial fishing. Unfortunately, the over-fishing during the past ten years by commercial and recreational fishermen, including commercial passenger fishing vessels (CPFVs), has devastated the kelp beds, fish population, and sea life across South Laguna. Expansion of Laguna Beach's MPAs is essential to mitigate decades of regional over-fishing particularly in South Laguna.

Thus, we request that you initiate and vote to provide an extended "no take" Marine Protected Area (SMR and SMCA) Citywide, across Laguna Beach, including South Laguna, to the Southern Point of Mussel Cove, Orange County, California. This would extend the existing marine protections throughout Laguna Beach, including the southernmost point of the city of Laguna Beach – Mussel Cove, also known as Three Arch Bay.

As a community, we are active stewards of our waterways and marine resources, ensuring quality management of our natural resources, and would appreciate the state's support of our efforts by extending the MPA to the Southern end of Laguna Beach.

Thank you,

Gary a Rubel

Gary Rubel President Three Arch Bay Community Services District

Cc: City of Laguna Beach Board Members of the TAB CSD



California Fish and Game Commission Marine Resources Committee fgc@fgc.ca.gov January 7, 2025

Subject: Revision to Laguna Bluebelt Coalition Petition 2023-24 MPA

Commissioners and Staff,

The Laguna Bluebelt Coalition seeks to revise the southern boundary for Petition 2023-24MPA to a No Take SMCA (State Marine Conservation Area) for citywide enforcement consistency and protection of essential sea life habitat between Palos Verdes and La Jolla MPAs.

The proposed revised No Take SMCA is within the jurisdiction of the City of Laguna Beach and has widespread support from community organizations and the City's Environmental and Sustainability Committee. Community support includes the South Laguna Civic Association, Three Arch Bay Service District, Village Laguna, Laguna Canyon Conservancy, Project O, OC Coastkeeper and many individuals.

The City of Laguna Beach has submitted multiple letters seeking to participate in processing the Laguna Bluebelt Petition. In a December 10, 2024 letter to the Commission, Laguna Beach Mayor Rounaghi emphasized the "City looks forward to reviewing the State's assessment of Petition 2023-24 MPA" and "The City remains committed to actively participate and providing informed input...".

Presently, the southern area of Laguna Beach is inaccurately designated as within the Dana Point SMCA leading to confusion about place names and take regulations. The Petition will simplify the no take regulation for the entire city of Laguna Beach, address inaccurate place names and restore Laguna Beach as the correct jurisdiction for this area. The revised No Take SMCA boundary will be identified by the prominent bluff top outcropping at Three Arch Bay consistent with the Laguna Beach City Limits.

The Petition reflects the MLPA's Adaptive Management Objectives to:

• Protect the structure and function of marine ecosystems • Improve native marine life populations, including those of economic value • Ensure minimal disturbance while allowing for sustainable opportunities for recreation, education and research • Ensure comprehensive representation of all key habitats, including unique habitats • Use learning acquired through administration of the MLPP to adaptively manage the objectives, management measures, enforcement efforts, and scientific guidelines to inform management decisions • MPAs function as a cohesive statewide network

Size and Spacing Considerations

The Science Advisory Team (SAT) spacing requirements determined Laguna Beach is an essential linkage for larval dispersal among Southern California's MPAs. Guidelines set a maximum distance and minimum size for each MPA.

Maximum Shoreline Distance: To ensure the persistence of a suite of species in an MPA network, the maximum distance between MPAs was determined to be within 50 -100 km (31 -62 miles). A network of MPAs 20 km (12 miles) in length met the upper boundary of the preferred size guidelines and led to population persistence for a larger set of movement combinations. With MPAs this large, decreasing spacing produced a more substantial effect. MPAs of 20 km (12 mile) shoreline length protected a much larger range of movement combinations when spaced 50 km (31 miles) apart (51.8%) than when spaced 100 km apart (21.6%). This increase occurred because persistence of populations with large mean larval dispersal was maintained through a network effect, rather than self-persistence. Laguna Beach's MPAs maximum distance are 50 miles from Palos Verdes MPAs and 72 miles from La Jolla MPAs to meet this goal.

In summary, bigger MPAs yield better results for protecting marine life. Laguna Beach is an excellent candidate when you combine community support and the City's present MPA enforcement measures to be able to achieve noteworthy success.

Minimum Alongshore Extent: To best protect adult populations, based on adult neighborhood sizes and movement patterns, Guidelines conclude MPAs should have an alongshore extent of at least 3-6 miles of coastline, and preferably 6-12.5 miles. Larger MPAs would be needed to fully protect marine birds, mammals, and migratory fish. Combined and simplified, the Guideline indicates that MPAs should have a minimum area of 9-18 square miles, or a preferred area of 18-36 square miles.

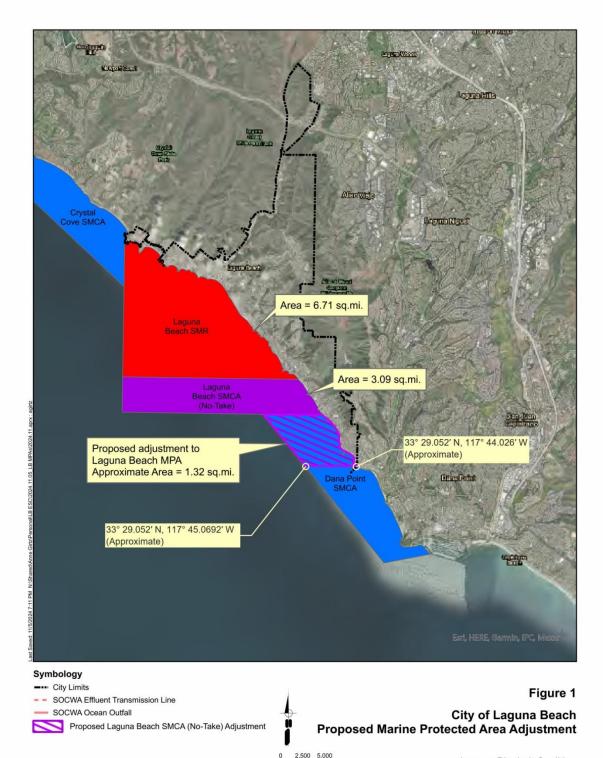
The Revised Petition to include full protection of all of Laguna Beach's MPAs is necessary to comply with SAT Guidelines since, once approved, it will protect 7 miles of coastline slightly within the preferred alongshore extent (6-12 miles). A fully protected Laguna MPA will also grow to 11 square miles, the minimum preferred area (9-18 square miles).

Once approved, the citywide and a fully protected MPA will comply with SAT Guidelines for preferred coastline and size. This will be complimented by local, well-established education and enforcement capabilities to support the continued success for Laguna Beach's MPAs.

## Stakeholder Collaboration

The Laguna Bluebelt Coalition, a statewide model for MPA Collaboratives since 2009, has met with key stakeholders through OCMPAC including fishing groups, tribal representatives, game wardens and others to revise Petition 2023-24MPA to accommodate the local lobster fishery. By adjusting the southern SMCA to follow the east/west latitude line at the request of the Dana Point lobster group, placement of lobster traps is facilitated by a consistent GPS latitude line to avoid encroachment into the proposed southern Laguna Beach No Take SMCA.

## **Revised Boundary Map**



Scale in Feet

Laguna Bluebelt Coalition MPA Decadal Review March 14, 2025

Erika Zavaleta, President California Fish and Game Commission 715 P Street, 16th Floor Sacramento, CA 95817

Submitted electronically to fgc@fgc.ca.gov

## RE: Amendments to Petition 2023-28MPA: Point Sal State Marine Reserve

Dear President Zavaleta and Honorable Commissioners:

In November 2023, Natural Resources Defense Council (NRDC) submitted petition 2023-28MPA to the Fish and Game Commission (FGC) proposing a new marine protected area (MPA) off the coast of Point Sal, to be named Point Sal State Marine Reserve (SMR).

With the ecological significance of the area in mind, we proposed regulations for the Point Sal SMR that are aligned with current State Marine Reserves: *"It is unlawful to injure, damage, take, or possess any living, geological, or cultural marine resource."* Given the historic and contemporary importance of the region to the Chumash people, we also recommended that the state consult with local Indigenous communities and Tribes before designation to determine whether a State Marine Conservation Area with exemptions for cultural and subsistence use of relevant Indigenous communities and Tribes in the area is warranted.

Since January 2024, we have conducted extensive outreach with community members and interested parties to discuss the proposal and gather additional insights and information. These conversations have improved our understanding of the Point Sal region and provided a greater appreciation of the historical and contemporary significance of the area for Chumash peoples. Our discussions with local communities, Tribal members, and Tribal organizations in particular, informed our decision to amend the original petition submitted to the FGC.

Our decision to amend Petition 2023-28MPA to allow recreational take of finfish by hook-and-line from shore is in recognition of: 1) the importance of this area for federally and non-federally recognized Chumash peoples, and 2) the importance of the area for shore-based subsistence and sport fishers. We support having the option to rename the Point Sal State Marine Conservation Area with a Chumash place name after further consultation with Chumash Tribes in the region. While we explored options for renaming the proposed SMCA, we were unable to affirmatively determine an appropriate Chumash name in time for the amendment deadline.

We hope this amendment, informed by the additional insight and information gathered through our outreach efforts with local communities and interested parties, encourages the Commission to support the proposed Point Sal SMCA.

Thank you for your consideration.

Sincerely,

Sandy Aylesworth Director, Pacific Initiative, Nature Natural Resources Defense Council

Bella Sullivan Next Wave Fellow Natural Resources Defense Council

### Petition to Designate a New State Marine Reserve at Point Sal, Central California PETITION NARRATIVE

Point Sal is located in Santa Barbara County, California, roughly 50 miles (80 kilometers) to the northwest of Point Conception. The nearest city to Point Sal is Guadalupe, located about six miles to the northeast, and Vandenberg Space Force Base is located to the south. Known for its scenic beauty, rugged cliffs, and stunning ocean views, Point Sal is a relatively remote and undeveloped area along California's coastline. Its waters are home to rich biodiversity, productive oceanographic features, and intact food webs that are worth protecting. This petition calls for the designation of a new State Marine Reserve or State Marine Conservation Area allowing for cultural and subsistence use by Tribes and Indigenous communities in this area, to advance the goals of California's network of marine protected areas (MPAs) in the face of climate change and threats from increased human activities and threats in the future.

#### Goals

The overall goals of this new MPA are to 1) protect this rich and productive ecosystem and the biodiversity found within, 2) to protect this larval retention zone and the connectivity dynamics within the region, and 3) to enhance the climate resilience of the broader state MPA network.

#### Proposed boundaries

In keeping with state MPA design and feasibility guidelines provided by CDFW, the proposed area is bounded by the mean high tide line and straight lines connecting the following points in the order listed:

- a. 34.880667518 N lat. 120.726433061 W long. (SW corner)
- b. 34.929894739 N lat. 120.727488272 W long (NW corner)
- c. 34.930008197 N lat. 120.666597401 W long. (NE corner)
- d. 34.880979714 N lat. 120.639473286 W long. (SE corner)

The proposed boundaries were drawn to align with visible landmarks and natural geographies as much as possible, with the northern boundary beginning at Mussel Point, and the southern boundary drawn at the end of Brown's Beach. The eastern boundary aligns with the mean high tide line, and the western boundary extends out to the edge of state waters as recommended by state feasibility guidelines.

The proposed area is 14.22 square miles with an alongshore span of 3.2 miles, which meets the state's minimum size guidelines and design recommendations. The proposed area is located 19 miles alongshore from Point Buchon SMR/SMCA, the nearest MPA to the north, which meets the state's minimum spacing recommendations, and 6.5 miles from Vandenberg SMR, the nearest MPA to the south.

1

#### Ecological significance of the area

The coastal waters around Point Sal in California support a diverse and dynamic marine ecosystem. The rocky coast is home to abundant and rich tidepools. The kelp beds found in waters leeward of the point provide habitat for endangered Southern sea otters and many other kelp-associated species. The rocks and coastal habitats around the point provide critical roosting and foraging habitats for multiple species of seabirds. State waters surrounding the point are home to a variety of feeding and migrating marine mammals, including bottlenose and common dolphins, harbor porpoises, humpback and gray whales, California sea lions, harbor seals, elephant seals, and Steller sea lions.<sup>1</sup>

An analysis of species, habitats, threats, and existing protections within the California Current found that the waters around Point Sal are among the top 5% in conservation value in the California Current.<sup>2</sup> Notably, the area remained within the top 5% regardless of whether conservation value was being measured utilizing the species richness index or the rarity index, with a significant portion of these areas falling into the top 2%. This region of California is also well-known as a marine biogeographic 'transitional zone' for ocean and coastal biota. Many species reach the southern or northern limits of their ranges here, making it an important biogeographic boundary along California's coast.<sup>3</sup>

The nutrient-rich waters in this region support a productive food web. Upwelling, where nutrientrich deep waters rise to the surface, enhances primary productivity, providing ample food resources for a variety of marine organisms, from plankton to larger predators. A krill hotspot<sup>4</sup> and Biologically Important Area (BIA) for blue whale foraging are located just outside the proposed area,<sup>5</sup> indicating that these waters are productive enough to support feeding blue whales, which ingest up to 16 tons of krill per day.<sup>6</sup> The state waters within the proposed area are home to several other BIAs for marine mammal species, including a BIA for humpback whale foraging, a BIA for migrating gray whales, and BIA for resident harbor porpoises.<sup>7</sup>

#### Lion Rock haul out and roosting site

Lion Rock, located off the southern coast of Point Sal, is an important haul out site for sea lions and other marine mammals. As many as 883 sea lions have been observed on the rock on a

<sup>&</sup>lt;sup>1</sup> Condor Environmental Planning Services, "Point Sal Reserve Revised Management Plan" (Santa Barbara County Parks Department, July 2002), https://yono.net/pointsal/ptsalreserve.pdf.

<sup>&</sup>lt;sup>2</sup> Nathan Elliott et al., "Assessment of Marine Protected Areas in the California Current" (Petaluma, CA: Point Blue, June 5, 2020), https://www.pointblue.org/wp-content/uploads/2020/09/MPA-Assessment\_Final.pdf.
<sup>3</sup> Ronald S. Burton, "Intraspecific Phylogeography Across the Point Conception Biogeographic Boundary," *Evolution* 

<sup>&</sup>lt;sup>3</sup> Ronald S. Burton, "Intraspecific Phylogeography Across the Point Conception Biogeographic Boundary," *Evolution* 52, no. 3 (June 1998): 734–45, https://doi.org/10.1111/j.1558-5646.1998.tb03698.x.

<sup>&</sup>lt;sup>4</sup> Jarrod A. Santora et al., "Mesoscale structure and oceanographic determinants of krill hotspots in the California Current: Implications for trophic transfer and conservation," *Progress in Oceanography* 91, no. 4 (December 2011): 397-409, https://doi.org/10.1016/j.pocean.2011.04.002

<sup>&</sup>lt;sup>5</sup> National Oceanic and Atmospheric Administration, "Biologically Important Area Map," Web map, Cetacean & Sound Mapping, accessed November 20, 2023, https://cetsound.noaa.gov/biologically-important-area-map.

<sup>&</sup>lt;sup>6</sup> Matthew S. Savoca et al., "Baleen Whale Prey Consumption Based on High-Resolution Foraging Measurements," *Nature* 599, no. 7883 (November 2021): 85–90, https://doi.org/10.1038/s41586-021-03991-5. 7 NOAA "Biologically Important Area Map."

<sup>&</sup>lt;sup>7</sup> NOAA, "Biologically Important Area Map."

single day, and the site is also occasionally used by Steller sea lions and elephant seals.<sup>8</sup> Haulouts are critical to the behavioral cycles of foraging, resting, and breeding for pinnipeds. However, these species are highly sensitive to visual and auditory disturbance and will leave haulouts when they become stressed – even abandoning them permanently, if disturbances occur frequently. Undisturbed haulouts are thus necessary for the protection of these species. Given Point Sal's remote location, Lion Rock currently experiences little to no human-caused disturbance<sup>9</sup> and may be one of the few remaining undisturbed haulouts along the busy California coastline – making it especially important for the conservation of these marine mammals.

Lion Rock is also an important roosting site and breeding site for many seabird species. Roosting is a vital behavior for seabirds, providing essential rest, social interaction, protection, and nesting opportunities, thereby enhancing their energy conservation, reproductive success, and overall well-being in the dynamic marine environment. Seabirds like cormorants do not have oil-producing glands to help their feathers repel water, making roosting especially critical for these species to dry after foraging. Thousands of cormorants have been observed roosting on Lion Rock,<sup>10</sup> and it is also a roost site of significant importance for Brown Pelicans, which until recently were listed as endangered species.<sup>11</sup> Finally, Lion Rock is a breeding site of growing importance for Brandt's cormorants, with as many as 14 breeding pairs observed on the rock in recent years.<sup>12</sup>

#### Connectivity and larval retention zone

Although wind-driven upwelling is a vital source of nutrients for California ecosystems, this large-scale offshore transport of coastal ocean water poses a significant challenge to larval stages of marine organisms that must recruit to coastal environments. Headlands, such as found at Point Sal, can help to mitigate this effect by slowing down or recirculating ocean currents, and research has shown waters on the leeward sides of coastal promontories or headlands provide refuge for fish and invertebrate larvae against offshore transport during upwelling events.<sup>13</sup> These "larval retention zones" are critical for enhanced recruitment, and help to ensure that adult populations are supplied with larvae in recruitment-limited upwelling regions.<sup>14</sup> Larval retention zones also serve as biological hotspots, where upwelling delivers

**Commented [SI1]:** discrepancy in spelling from "haul out". are these supposed to be different?

<sup>&</sup>lt;sup>8</sup> NMFS, NOAA, and Department of Commerce. Takes of Marine Mammals Incidental to Specified Activities; Taking Marine Mammals Incidental to Weapons Testing at Vandenberg Air Force Base; California. 87 FR 762 (Jan. 6, 2022). Available at https://www.federalregister.gov/documents/2022/01/06/2022-00032/takes-of-marine-mammals-incidental-to-specified-activities-taking-marine-mammals-incidental-to.

<sup>&</sup>lt;sup>9</sup> Dan Robinette, Sara Acosta, and Julie Howar, "Year 1 Results of Baseline Monitoring Within the Point Sur to Point Mugu Study Area of the Seabird Protection Network" (Petaluma, CA: PRBO Conservation Science, November 15, 2012).

<sup>&</sup>lt;sup>10</sup> Condor Environmental Planning Services, "Point Sal Reserve Revised Management Plan."

<sup>&</sup>lt;sup>11</sup> Dan Robinette and Julie Lanser, "Brown Pelican Roost Utilization Along the Coastal Margin of Vandenberg Air Force Base, 2004" (Stinson Beach, CA: PRBO Conservation Science, May 3, 2006).

<sup>&</sup>lt;sup>12</sup> Robinette, Acosta, and Howar, "Year 1 Results of Baseline Monitoring Within the Point Sur to Point Mugu Study Area of the Seabird Protection Network."

<sup>&</sup>lt;sup>13</sup> Amber J. Mace and Steven G. Morgan, "Larval Accumulation in the Lee of a Small Headland: Implications for the Design of Marine Reserves," *Marine Ecology Progress Series* 318 (August 3, 2006): 19–29, https://doi.org/10.3354/meps318019.

nutrients that then fuel phytoplankton growth and support marine food webs. This effect has been shown even for small headlands like Point Sal (e.g., Bodega Headland).<sup>15</sup>

Point Sal's leeward waters are known to serve as a larval retention zone in this stretch of the Central Coast. One study used seabird foraging rates as a proxy for juvenile fish recruitment to explore whether seabird foraging and geographic indicators can be used to identify larval retention zones, in order to help inform MPA network spatial design.<sup>16</sup> The findings show that both long and short headlands—including Point Sal—lead to higher juvenile fish abundance, and that coastal orientation was an important determinant of juvenile fish abundance. Pelagic cormorant foraging rates were also found to be higher at south-facing coasts like Point Sal's compared to other coastal orientations. This is due to weaker offshore advection caused by coastal upwelling along south-facing coasts, and eddies forming in the lee of the south-facing coasts of embayments.<sup>17</sup>

This biological evidence for local retention zones is supported by physical oceanography data. Multiple studies of oceanographic currents in the area show that within the Santa Barbara Channel, ocean currents primarily run from east to west.<sup>18</sup> Just north of Point Conception there is strong seasonal equatorward flow heading south. Around the area of Point Sal, the interaction of these westward and southward surface currents cause convergence.<sup>19</sup> Additionally, the region experiences episodic periods of wind relaxation in the spring, leading to less vigorous upwelling with important biological consequences for larval retention and surface productivity.<sup>20</sup>

#### Historical and cultural use

Point Sal holds significant cultural and historical ties to the Chumash people, who have inhabited the region for thousands of years.<sup>21</sup> For instance, the Chumash village Axwin was <u>located very close to the area</u>.<sup>22</sup> There is abundant evidence of Chumash occupation of Point Sal as recently as 250 years ago and as far back as 4,800 years ago. Rock rings where homes once stood, grinding stones, and other Chumash artifacts are easily visible. Human remains found at Chumash burial sites indicate that the diet of <u>ancient peoples</u>Indigenous peoples living

<sup>&</sup>lt;sup>15</sup> Ibid.

<sup>&</sup>lt;sup>16</sup> Dan Robinette, Nadav Nur, and Jaime Jahncke, "Spatial Patterns in Nearshore Juvenile Fish Abundance Throughout the California Network of Marine Protected Areas as Revealed by Seabird Foraging Rates," *California Cooperative Oceanic Fisheries Investigations* 60 (2019).
<sup>17</sup> Ibid.

<sup>&</sup>lt;sup>18</sup> Clinton D. Winant, Edward P. Dever, and Myrl C. Hendershott, "Characteristic Patterns of Shelf Circulation at the Boundary between Central and Southern California," *Journal of Geophysical Research: Oceans* 108, no. C2 (2003), https://doi.org/10.1029/2001JC001302.

<sup>&</sup>lt;sup>19</sup> Sutara H. Suanda et al., "Wind Relaxation and a Coastal Buoyant Plume North of Pt. Conception, CA: Observations, Simulations, and Scalings," *Journal of Geophysical Research: Oceans* 121, no. 10 (2016): 7455–75, https://doi.org/10.1002/2016JC011919.

<sup>&</sup>lt;sup>20</sup> Louis W. Botsford et al., "Effects of Variable Winds on Biological Productivity on Continental Shelves in Coastal Upwelling Systems," *Deep Sea Research Part II: Topical Studies in Oceanography*, The Role of Wind-Driven Flow in Shelf Productivity, 53, no. 25 (December 1, 2006): 3116–40, https://doi.org/10.1016/j.dsr2.2006.07.011.
<sup>21</sup> Bureau of Land Management, "Point Sal," Visit Point Sal, accessed November 20, 2023, https://doi.org/10.1016/j.dsr2.2006.

https://www.blm.gov/visit/point-sal.

<sup>&</sup>lt;sup>22</sup> King, Chester. The Names and Locations of Historic Chumash Villages. The Journal of California Anthropology, 12 Jan. 1975, escholarship.org/uc/item/8833s5k5

at Point Sal was high in marine protein, demonstrating the strong link between coastal peoples and marine resources.<sup>23</sup>, P<u>There are many Chumash people who still live in the general area</u> and come to Point Sal for a variety of reasons. Protecting the marine waters and coastal resources of Point Sal would help to recognize its value as a cultural heritage site that still contributes to the identity and sense of place for many of the <u>triba lhdigenous</u> people of Central California today.

#### <u>Habitat</u>

Since the creation of the California MPA network, a new dataset that allows for detailed delineation of the habitat categories used in the design of the MPA network for all California state waters has been completed and made available through the California State Mapping Program (CSMP). Using this dataset, we characterized the habitat types present in the area proposed for protection around Point Sal (Figure 1).<sup>24</sup>

The proposed area is characterized by a large amount of sandy bottom, with some rocky substrate south of the point and in the northeast portion of the area (8.3% shallow (0-30m) rocky bottom, 41.9% shallow sandy bottom, 1.2% deeper (30-100m) rocky bottom, and 48.6% deeper sandy bottom). Kelp beds are present on the shallow rocky bottom substrate (personal communications, Dan Robinette), supporting numerous marine species like rockfish and sea otters.<sup>25</sup>

Adding this area to the California state MPA network would increase the number of replicate sites for these four important habitat types, as recommended by the science-based guidelines for the MLPA planning process and recent peer-reviewed guidelines for the design of climate-smart MPA networks.<sup>26</sup>

#### Land-sea connection

Coastal marine ecosystems are influenced by both ocean- and land-based activities. Conservation efforts focused on addressing ocean-based threats alone are often compromised by land-based impacts that affect coastal ecosystems, such as nutrient runoff, organic and inorganic pollutants, and the direct impacts associated with high levels of human traffic and visitation.<sup>27</sup> Planning for and designating MPAs that are linked with terrestrial reserves or adjacent to areas with little to no human impact can therefore considerably improve MPA

<sup>&</sup>lt;sup>23</sup> Bureau of Land Management, "Point Sal," Visit Point Sal, accessed November 20, 2023, https://www.blm.gov/visit/point-sal.

<sup>&</sup>lt;sup>24</sup> California State University, Monterey Bay, Seafloor Mapping Lab. 2014. California Seafloor Mapping Project -Undersea Imagery Archive 2007-2014. https://csumb.edu/undersea/seafloor-maps Accessed 2023.

<sup>&</sup>lt;sup>25</sup> Condor Environmental Planning Services, "Point Sal Reserve Revised Management Plan."

<sup>&</sup>lt;sup>26</sup> Nur Arafeh-Dalmau et al., "Integrating Climate Adaptation and Transboundary Management: Guidelines for Designing Climate-Smart Marine Protected Areas," One Earth 6, no. 11 (November 17, 2023): 1523–41, https://doi.org/10.1016/j.oneear.2023.10.002.

<sup>&</sup>lt;sup>27</sup> David M. Stoms et al., "Integrated Coastal Reserve Planning: Making the Land–Sea Connection," *Frontiers in Ecology and the Environment* 3, no. 8 (2005): 429–36, https://doi.org/10.1890/1540-9295(2005)003[0429:ICRPMT]2.0.CO;2.

conservation outcomes.<sup>28</sup> The proposed SMRCA is adjacent to Point Sal State Beach, which currently protects approximately 80 acres and includes just over 1 1/2 miles of ocean frontage. Due to its remote location, and possibly these terrestrial protections, Point Sal's terrestrial habitats remain relatively undisturbed and free of negative human impacts,<sup>29</sup> making the waters around Point Sal a particularly valuable area to protect.

#### Access and recreation

The coastline of the proposed <u>SMR-SMCA</u> is currently accessible through Point Sal State Beach and Point Sal Trail. Recreational activities at Point Sal State Beach include fishing, beach combing, hiking, nature study, photography, picnicking, and sunbathing.

In 1998, heavy rains destroyed Point Sal Road in several places, which was the main access road for Point Sal State Beach. The road was closed until May 2008, when Air Force and County officials announced they had reached an interim agreement to provide access. They have since been "coordinating to place informational signs, fix fences and repair washed-out sections of the County road", though progress has been extremely slow. The road remains closed, although according to California's State Parks Department, efforts to develop a long-term access plan to Point Sal State Beach are ongoing.<sup>30</sup>

Point Sal State Beach is currently best accessed via Point Sal Trail, which is located at the end of Brown Road. This moderately challenging trail is approximately 102 miles round trip to the beach and back,<sup>31</sup> and is open year-round. It provides unparalleled access to untouchedpristine coastal wilderness, traversing astonishingly beautiful coastal habitats such as dunes, chaparral, windswept bluffs, and rocky cliffs. The trail is described as "a very popular area for hiking".<sup>32</sup>

By making the ocean more productive and resilient to climate change, stronger marine protections like the proposed Point Sal <u>SMRSMCA</u> can enhance shore-based recreation. When combined with efforts to increase access and connect more people to nature, additional state MPAs can give those from marginalized communities more equitable access to the ocean's resources and benefits. 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.<sup>33</sup> 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

<sup>&</sup>lt;sup>28</sup> Arafeh-Dalmau et al., "Integrating Climate Adaptation and Transboundary Management."

<sup>&</sup>lt;sup>29</sup> Robinette, Acosta, and Howar, "Year 1 Results of Baseline Monitoring Within the Point Sur to Point Mugu Study Area of the Seabird Protection Network."

 <sup>&</sup>lt;sup>30</sup> California State Parks, "Point Sal SB," CA State Parks, accessed November 20, 2023, https://www.parks.ca.gov/.
 <sup>31</sup> County of Santa Barbara California, "Point Sal," County of Santa Barbara Parks, accessed November 20, 2023, https://www.countyofsb.org/900/Point-Sal.

<sup>&</sup>lt;sup>32</sup> All Trails, "Point Sal Overlook," Travel Website, AllTrails.com, accessed November 20, 2023,

https://www.alltrails.com/trail/us/california/point-sal-overlook.

<sup>&</sup>lt;sup>33</sup> Hunter S. Lenihan et al., "Increasing Spillover Enhances Southern California Spiny Lobster Catch along Marine Reserve Borders," *Ecosphere* 13, no. 6 (2022): e4110, https://doi.org/10.1002/ecs2.4110.

pollution.<sup>34</sup> Given these communities' close proximity to Point Sal, implementing an <u>SMRSMCA</u> at the proposed site could enhance access for disadvantaged populations to valuable coastal resources and fishing opportunities, as <u>a popular shore fishing site is located just north of the proposed Point Sal SMCA boundary, near the Rancho Guadalupe Dunes Reserve area.- In addition to the designation of a new Point Sal <u>SMRSMCA</u>, we urge the state to redouble its efforts to provide access to Point Sal State Beach by reopening Point Sal Road.</u>

#### Socioeconomic impacts

Current fishing in the proposed area is limited, likely due to its considerable distance from nearest port areas of Morro Bay and Santa Barbara. The proposed Point Sal MPA overlaps with 14% of California fishing block 631, and 11% of California fishing block 632. According to the Marine Fisheries Data Explorer, annual landings reported from these blocks over a ten year period from 2012 to 2022 were an average of 231,460 lbs by weight and \$678,632 by value per year.<sup>35</sup> This represents just 0.11% of the landings by weight, and 1.1% of landings by value, reported for the Central Coast region over the same 10 year period.<sup>36,37</sup> For this reason, and due to the relatively small proposed size of the MPA, we believe the establishment of an SMRSMCA in this area would have minimal economic impact to commercial fisheries.

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.

#### Historical context

During the MLPA planning process, a large SMR around Point Sal was proposed in External Proposed MPA Package AC. The proposed SMR was 21.92 mi<sup>2</sup>, with an alongshore span of 6.1 miles and depth range of 0-192 feet. Based upon a review of the historical documents provided by the Fish & Game Commission in October 2023, it is not clear why the state chose not to designate this proposed SMR at that time.

#### Future stressors may compromise California's coastal waters and nearby MPAs

There is increasing pressure to develop resources in and otherwise utilize California's coastal waters. For example, as efforts intensify to mitigate and adapt to climate change, the state is

<sup>&</sup>lt;sup>34</sup> OEHHA, "CalEnviroScreen 4.0," Text, CA.Gov, September 20, 2021,

https://oehha.ca.gov/calenviroscreen/report/calenviroscreen-40; OEHHA, "Final Designation of Disadvantaged Communities Pursuant to Senate Bill 535" (CalEPA, May 2022).

<sup>&</sup>lt;sup>35</sup> Assuming equal distribution of eff<u>Excellent</u> ort and value across all years. Because smaller timescales resulted in confidential data outputs from the Marine Fisheries Data Explorer, we aggregated 10 years of landings data from both blocks to calculate average annual landings data. However, the state should look into the confidential data to find more detailed estimates of fisheries landings from this area.

<sup>&</sup>lt;sup>36</sup> We defined the Central Coast region as all fishing blocks from Point Ano Nuevo to Point Conception: <u>https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=144496&inline</u> <sup>37</sup> California Department of Fish and Wildlife. "Marine Fisheries Data Explorer." database. MFDE, accessed

<sup>&</sup>lt;sup>37</sup> California Department of Fish and Wildlife, "Marine Fisheries Data Explorer," database, MFDE, accessed November 21, 2023, https://wildlife.ca.gov/Conservation/Marine/Data-Management-Research/MFDE.

investing in offshore wind and desalination plants. Interest in ocean-based carbon dioxide removal (CDR) is growing, and aquaculture activities are proliferating. Scientists warn that a rising wave of ocean industrialization, such as underway in California's waters, -will pose additional strain on marine biodiversity.<sup>38</sup>

MPAs along the central coast of California will likely experience these types of stressors in the coming decade. Vandenberg SMR, located 17 km to the south of this proposed area, and the Point Buchon SMR/SMCA complex, located 50 km to the north, are both sited near potential future offshore wind development projects. The proposed California Demonstration Project (CADEMO) seeks to place four floating offshore wind turbines in state waters just outside the boundaries of Vandenberg SMR, and would deliver power via a subsea cable traveling under the seafloor to an onshore cable landing site at Vandenberg Space Force Base. The Morro Bay Wind Energy Area is located in federal waters just outside Point Buchon SMCA, and two leases have recently been issued to commercial wind developers to begin planning for offshore wind development. Offshore wind construction and operations are expected to impact the marine environment through increased ocean noise, collisions with turbines, entanglements, the introduction of electromagnetic fields, alterations to existing habitats and hydrodynamics, and the possible release of contaminants.<sup>39</sup> While the state of California is working closely with developers and the federal government to minimize the environmental impacts of these projects as much as possible, it stands to reason that the region, including Vandenberg SMR and the Point Buchon SMR/SMCA complex, will experience some level of adverse impact related to the development of heavily industrialized renewable energy projects.

In addition, Point Buchon SMR/SMCA is located just north of the Diablo Canyon Power Plant, which uses seawater for its once-through cooling process. The plant's intake pipes draw in more than 2.5 billion gallons of water per day. This large and continuous seawater withdrawal is estimated to kill roughly 1.5 billion fish in early life stages each year, as creatures are sucked into the cooling systems or become impinged against the screens on the open-water pipes.<sup>40</sup> The cooling water is also discharged back into the ocean water at a warmer temperature, which can cause additional harm to kelp, fish, and other marine life in the area.<sup>41</sup> While Diablo Canyon's intake is not directly within the Point Buchon SMR/SMCA cluster, the area of source water being drawn into the plant likely overlaps with the MPA boundaries and has the potential to withdraw marine life out of the protected area.

As the increase of local stressors are likely to strain resources in the Vandenberg and Point Buchon MPAs, a new MPA at Point Sal could help to protect similar habitat not subject to these

<sup>&</sup>lt;sup>38</sup> Douglas J. McCauley et al., "Marine Defaunation: Animal Loss in the Global Ocean," Science 347, no. 6219 (January 16, 2015): 1255641, https://doi.org/10.1126/science.1255641.

 <sup>&</sup>lt;sup>39</sup> NOAA Fisheries, "Offshore Wind Energy: Protecting Marine Life," Protecting Marine Life, National, accessed November 20, 2023, https://www.fisheries.noaa.gov/topic/offshore-wind-energy/protecting-marine-life.
 <sup>40</sup> Mackenzie Shuman, "How California's Last Remaining Nuclear Power Plant Transformed Marine Life off the Coast," San Luis Obispo Tribune, March 25, 2022,

https://www.sanluisobispo.com/news/local/environment/article258804173.html.

local stressors, adding a helpful replicate MPA to serve as an insurance policy for the region's MPA network.

#### Climate resilient MPA networks

Changing ocean conditions, such as warming temperatures, acidification, and reduced oxygen, combined with increasing crowding, and pressure on our ecosystems, will compound local stressors mentioned above – putting California's spectacular marine biodiversity at elevated risk. MPAs are increasingly recognized as an important ocean-climate solution. Fully protected MPAs can allow for disturbed and degraded areas to recover, and also promote and retain complex, intact food webs and ecosystems that are better at resisting future stressors.<sup>42</sup> A recent meta-analysis of more than 22,000 peer-reviewed studies spanning more than 200 MPAs around the world demonstrated that marine reserves can significantly enhance carbon sequestration, coastal protection, biodiversity, and the reproductive capacity of marine organisms as well as fishers' catch and income.<sup>43</sup>

Further, when designed with climate resilience in mind, MPA networks can provide greater resilience than single MPAs on their own.<sup>44</sup> A new analysis focused on the California Bight has identified 21 actionable guidelines for the design of climate-smart MPA networks across large geographies and international boundaries.<sup>45</sup> The designation of a new MPA at Point Sal would meet or help to advance at least 11 of these climate-smart MPA design guidelines (<u>Appendix A</u>). Specifically, a new MPA at Point Sal would help to increase habitat representation and replication; protect critical and unique areas relevant to the life histories of important California species; incorporate and enhance connectivity across the broader MPA network; provide permanent protections better suited for the maintenance of ecosystem function and resilience at relevant timescales for climate resilience, and; enhance the MPA network's protections for healthy and relatively undisturbed habitats (<u>Appendix A</u>). In the face of increasing impacts related to climate change, it is critical that the state adaptively manage its MPA network with climate resilience in mind.

#### Relevance to MLPA Goals and DMR Recommendations

This proposed Point Sal S<u>MCAMR</u> contributes directly to MLPA Goals 1, 2, 3, and 6 (<u>California</u> <u>Marine Life Protection Act</u>). Protecting the rich biodiversity, relatively undisturbed habitats, and important larval retention zone found in the relatively undisturbed waters around Point Sal would

<sup>&</sup>lt;sup>42</sup> Lewis A.K. Barnett, Marissa L. Baskett, and Louis W. Botsford, "Quantifying the Potential for Marine Reserves or Harvest Reductions to Buffer Temporal Mismatches Caused by Climate Change," *Canadian Journal of Fisheries and Aquatic Sciences* 72, no. 3 (March 2015): 376–89, https://doi.org/10.1139/cjfas-2014-0243; Lewis A. K. Barnett and Marissa L. Baskett, "Marine Reserves Can Enhance Ecological Resilience," ed. Peter Mumby, *Ecology Letters* 18, no. 12 (December 2015): 1301–10, https://doi.org/10.1111/ele.12524; Callum M. Roberts et al., "Marine Reserves Can Mitigate and Promote Adaptation to Climate Change," *Proceedings of the National Academy of Sciences* 114, no. 24 (June 13, 2017): 6167–75, https://doi.org/10.1073/pnas.1701262114.

<sup>&</sup>lt;sup>43</sup> Juliette Jacquemont et al., "Ocean Conservation Boosts Climate Change Mitigation and Adaptation," One Earth 5, no. 10 (October 2022): 1126–38, https://doi.org/10.1016/j.oneear.2022.09.002.

<sup>&</sup>lt;sup>44</sup> Roberts et al., "Marine Reserves Can Mitigate and Promote Adaptation to Climate Change."

<sup>&</sup>lt;sup>45</sup> Arafeh-Dalmau et al., "Integrating Climate Adaptation and Transboundary Management."

help to protect the state's marine life and habitats, marine ecosystems, and marine natural heritage, as well as improve recreational, educational and study opportunities provided by marine ecosystems subject to minimal human disturbance.

In addition, this petition helps to advance DMR Recommendation 4.b.) "Identify and utilize best science-based approaches to inform potential changes to the MPA Network in order to enhance Network performance." New and groundbreaking peer-reviewed guidelines for the design of climate-smart MPA networks have recently been developed, and the proposed MPA at Point Sal aligns strongly with these guidelines.<sup>46</sup> We recommend the state consider these guidelines for the review and implementation of additional proposals to enhance and expand California's MPA network.

We must pass on a healthier ocean for future generations to experience, benefit from, and enjoy. California has the opportunity now to protect the conservation legacy of our iconic coastal state, including its rich and diverse marine wildlife. We urge the state to designate a new MPA at Point Sal to enhance the protection and climate resilience of our coastal and ocean resources, for the benefit of current and future generations of Californians.

46 Ibid.



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 1 of 4

Tracking Number: (2023-28MPA-AM1)

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).

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### **SECTION I: Required Information.**

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

- 1. Person or organization requesting the change (Required) Name of primary contact person: Lisa Suatoni, National Resources Defense Council Address: 111 Sutter St 21st floor, San Francisco, CA 94104 Telephone number: Email address:
- 2. Rulemaking Authority (Required) 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) We propose the designation of a new State Marine Reserve Conservation Area (SMCA) in the waters around Point Sal, Central California to 1) protect this the rich and productive ecosystem and biodiversity found within, 2) protect an important larval retention zone and enhance the connectivity dynamics within the region, and 3) enhance the climate resilience of the broader state MPA network.

The proposed area aligns with state MPA design and feasibility guidelines provided by CDFW, and is bounded by the mean high tide line, the 3 nm state waters boundary, and straight lines connecting the following points in the order listed:

- 34.880667518 N lat. 120.726433061 W long. (SW corner)
- 34.929894739 N lat. 120.727488272 W long. (NW corner)
- 34.930008197 N lat. 120.666597401 W long. (NE corner)
- 34.880979714 N lat. 120.639473286 W long. (SE corner)

The proposed SMCA would prohibit the injury, damage, take, or possession of all living, geological, or cultural marine resources with the exception of recreational take of finfish from shore using hook and line. This permitted activity would allow for fishing access to the



State of California – Fish and Game Commission **PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE** FGC 1 (Rev 06/19) Page 2 of 4

shoreline and marine resources for recreational, traditional, ceremonial, cultural, and subsistence purposes for the public including, the Chumash people and other members of federally -and non-federally recognized tribes.

However, We recommend that the state consult with local Indigenous communities and Tribes to explore co-management options for the Point, Sal SMCA before designation, to determine whether a State Marine Conservation Area withexemptions for cultural and subsistence use of relevant Indigenous communities and Tribes in the area is warranted.

4. Rationale (Required) - Located in Santa Barbara County, Point Sal is an ecologically rich and relatively remote promontory along the coastline that supports a diverse marine ecosystem and provides critical habitat for seabirds and marine mammals alike. The nutrient-rich waters found at this site allow for a diversity of ocean life to thrive here, with kelp beds, rich tidepools, and productive waters that support humpback whales, gray whales, a variety of sea lions and seals, sea otters, and a biologically important feeding area for endangered blue whales nearby. Offshore, Lion Rock is a significant roosting site for seabirds like the Brown pelican and Brandt's cormorant, and also acts as a relatively undisturbed haul-out for sea lions, seals. and other pinnipeds, underlining the area's conservation value for these animals as the California coastline becomes increasingly developed. In addition, the leeward waters of Point Sal act as a larval retention zone. Larval retention zones, which are known to be highly beneficial areas for the recruitment of fish and invertebrate larvae in wind-driven upwelling zones while promoting the biodiversity of the surrounding ecosystem. Historically, Point Sal also holds cultural significance for the Chumash people, with evidence of their occupation as recently as 250 years ago and as far back as 4,800 years ago; Chumash artifacts are visible throughout Point Sal, and analyses of burial sites from the area demonstrate the rich cultural ties to the traditional stewards of this land. Furthermore, Point Sal is still of importance to the Chumash people who visit and use the area today.

Protecting the waters of Point Sal aligns strongly with the goals set by the California Marine Life Protection Act (MLPA), especially with regards to the protection of natural biodiversity found in relatively undisturbed marine ecosystems. Given the remote nature of Point Sal, its relative lack of human disturbance, and increasing potential for increased threats to the California MPAs found nearby, there is value inan urgent need to protect the ecological merits and-maximizinge the ecological and biological benefits that Point Sal provides to the marine species that inhabit the area and to the broader Central California region. As development of the state's coastline and seascape progresses, protecting these-relatively undisturbed areas will add to the resilience of the MPA network by providing refugia for marine life from encroaching threats. Furthermore, designating an MPA in the proposed area will improve recreational, educational, and study opportunities at Point Sal and support equitable access to coastal resources moving forward into the future.

See Petition Narrative for full rationale.

**SECTION II: Optional Information** 

5. Date of Petition: 11/30/2023 AMENDED 3/14/2025

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State of California – Fish and Game Commission PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE FGC 1 (Rev 06/19) Page 3 of 4

## 6. Category of Proposed Change

- Sport Fishing
  - □ Commercial Fishing
  - □ Hunting
- X Other, please specify: MPAs, Section 632.
- 7. The proposal is to: (To determine section number(s), see current year regulation booklet or <u>https://govt.westlaw.com/calregs</u>)
  - Amend Title 14 Section(s):<u>Westlaw regulations</u>.
  - $\Box$  Add New Title 14 Section(s): Click here to enter text.
  - □ Repeal Title 14 Section(s): Click here to enter text.
- If the proposal is related to a previously submitted petition that was rejected, specify the tracking number of the previously submitted petition Or X 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:
- **10. Supporting documentation:** Identify and attach to the petition any information supporting the proposal including data, reports and other documents:
  - a. Proposed Point Sal SMR petition narrative
  - b. Figure 1 Proposed Point Sal SMR habitat map
  - c. Appendix A Climate-smart MPA design guidelines met by proposed Point Sal SMR
  - d. Appendix B Proposed Point Sal SMR letter of support
- 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:

Current fishing in the proposed area is limited, likely due to its considerable distance from the nearest port areas of Morro Bay and Santa Barbara. The proposed Point Sal MPA overlaps with 14% of California fishing block 631, and 11% of California fishing block 632. According to the Marine Fisheries Data Explorer, annual landings reported from these blocks over a 10-ten year period from 2012 to 2022 were an average of 231,460 lbs by weight and \$678,632 by value per year. This represents just 0.11% of the landings by weight, and 1.1% of landings by value, reported for the Central Coast region over the same 10-year period. For this reason, and due to the relatively small proposed size of the MPA, we believe the establishment of an SMR in this area would have minimal economic impact to commercial fisheries.

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.



State of California – Fish and Game Commission PETITION TO THE CALIFORNIA FISH AND GAME COMMISSION FOR REGULATION CHANGE FGC 1 (Rev 06/19) Page 4 of 4

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 by roc
Denied - same as petition
Tracking Number
Tracking Number □ Granted for consideration of regulation change March 14, 2025

Erika Zavaleta, President California Fish and Game Commission 715 P Street, 16th Floor Sacramento, CA 95817

Submitted electronically to fgc@fgc.ca.gov

## RE: Amendments to Petition 2023-28MPA: Point Sal State Marine Reserve

Dear President Zavaleta and Honorable Commissioners:

In November 2023, Natural Resources Defense Council (NRDC) submitted petition 2023-28MPA to the Fish and Game Commission (FGC) proposing a new marine protected area (MPA) off the coast of Point Sal, to be named Point Sal State Marine Reserve (SMR).

With the ecological significance of the area in mind, we proposed regulations for the Point Sal SMR that are aligned with current State Marine Reserves: *"It is unlawful to injure, damage, take, or possess any living, geological, or cultural marine resource."* Given the historic and contemporary importance of the region to the Chumash people, we also recommended that the state consult with local Indigenous communities and Tribes before designation to determine whether a State Marine Conservation Area with exemptions for cultural and subsistence use of relevant Indigenous communities and Tribes in the area is warranted.

Since January 2024, we have conducted extensive outreach with community members and interested parties to discuss the proposal and gather additional insights and information. These conversations have improved our understanding of the Point Sal region and provided a greater appreciation of the historical and contemporary significance of the area for Chumash peoples. Our discussions with local communities, Tribal members, and Tribal organizations in particular, informed our decision to amend the original petition submitted to the FGC.

Our decision to amend Petition 2023-28MPA to allow recreational take of finfish by hook-and-line from shore is in recognition of: 1) the importance of this area for federally and non-federally recognized Chumash peoples, and 2) the importance of the area for shore-based subsistence and sport fishers. We support having the option to rename the Point Sal State Marine Conservation Area with a Chumash place name after further consultation with Chumash Tribes in the region. While we explored options for renaming the proposed SMCA, we were unable to affirmatively determine an appropriate Chumash name in time for the amendment deadline.

We hope this amendment, informed by the additional insight and information gathered through our outreach efforts with local communities and interested parties, encourages the Commission to support the proposed Point Sal SMCA.

Thank you for your consideration.

Sincerely,

Sandy Aylesworth Director, Pacific Initiative, Nature Natural Resources Defense Council

Bella Sullivan Next Wave Fellow Natural Resources Defense Council



Tracking Number: (2023-29MPA-AM1)

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).

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## **SECTION I: Required Information.**

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

## 1. Person or organization requesting the change (Required)

Name of primary contact person: Lisa Suatoni Address: Natural Resources Defense Council, Telephone number: Email address: Co-sponsors: Sam Cohen - Santa Ynez Band of Chumash Indians, Azsha Hudson - Environmental Defense Center

# **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):

The attached document describes a proposal for an additional California-Chumash co-management SMCA in the <u>S</u>-south <u>C</u>-eoast region to be named Mishopshno, <u>afterfollowing</u> the ancestral Chumash village located in the area<u>to</u> honor the cultural heritage of the Chumash people and their continued relationship to their ancestral lands and waters. The <u>Mishopshnoproposed SMCAMPA</u> would prohibit the injury, damage, take, or possession of all living, geological, or cultural marine resources with the exception of Tribal take using hand based equipment by the Santa Ynez Band of <u>Chumash Indians</u>, and <u>following exceptions</u>; recreational take of finfishfishing from shore using hook and line. These <u>permitted activities would</u>; and allow for enhanced access to the shoreline and marine resources for traditional, ceremonial, cultural, and subsistence purposes for the <u>public including</u>, federally recognized tribe of the the <u>Santa Ynez</u> Band of Chumash Indians (SYBCI) <u>, and for</u> who will work to extend access to other non federally recognized Chumash people.

The proposed area aligns with state MPA Master Plan design and feasibility guidelines provided by CDFW, and is bounded by the mean high tide line, <u>the tip of Salt Point</u>the 3 nm state waters boundary,

and straight lines connecting the following points in the order listed:

SE: 119.53589W long. 34.366106N lat.
 NE: 119.53589W long. 34.395977N lat.
 NW: 119.587711W long. 34.416944N lat.
 SW: 119.587711W long. 34.366106N lat.

# 4. Rationale (Required) - Describe the problem and the reason for the proposed change:

The intent of the SMCA is to 1) help meet the Master Plan's size and spacing guidelines for spacing between protected habitats, promoting connectivity in the network and representation of habitat types, 2) protect habitat attractive to marine wildlife, such as juvenile white sharks, and 3) <u>honor the nearby historical</u> <u>Mishopshno village and cultural heritage of the Chumash in the area and restore management to the SYBCI of this portion of coastal waters. This petition calls for a co-management agreement between the State of California and the SYBCI through continued access to the shoreline and marine resources for traditional, ceremonial, cultural, and subsistence purposes for all Chumash people. allow enhanced access to the shoreline and marine resources for the federally recognized tribe of the Santa Ynez Band of Chumash Indians, who will work to extend access to other non-federally recognized Chumash people. See attached documentation for further details.</u>

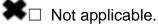
# **SECTION II: Optional Information**

**5. Date of Petition:** 11/30/2023 AMENDED 3/26/2025

# 6. Category of Proposed Change

- □ Sport Fishing
- □ Commercial Fishing
- □ Hunting
- **C** Other, please specify: MPAs, Section 632
- 7. The proposal is to: (To determine section number(s), see current year regulation booklet or <u>https://govt.westlaw.com/calregs)</u>
  - 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



- 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: At the discretion of the Commission.
- 10. **Supporting documentation:** Identify and attach to the petition any information supporting the proposal including data, reports and other documents: See attached.

a. Proposed Mishopshno SMCA petition narrative (updated as of 3/26/2025)

b. Appendix A – Expanded synthesis of juvenile white shark aggregation at proposed Mishopshno SMCA c. Appendix B – Proposed Mishopshno SMCA letter of support

**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:

Some commercial fishing and fishing by commercial passenger fishing vessels (CPFVs) occurs in this area. The proposed Mishopshno SMCA is located in California fishing block number 652, which provides a very small proportion of landings for the Santa Barbara Port Area by weight and value (see petition narrative for more detailed data). The proposed SMCA would close 18% of this fishing block to fishing. Furthermore, the regulations and boundaries for the SMCA have been amended following extensive outreach and discussions with local Tribes and fishers, in order to limit direct, near-term impacts to extractive activities to the greatest extent possible while still adhering to the MLPA's science-based size criteria and guidance around high levels of protection (see petition narrative for more detail). Considering the relatively low proportion of landings and value coming from this fishing block, the small size of the proposed SMCA within the fishing block, and the amended boundaries that allow continued access to a locally important fishing areas, we anticipate that establishing this SMCA would have limited impact on commercial fishing vessels and CPFVs in the area.

Further, previous designations of local MPAs have resulted in benefits for the commercial CA spiny lobster fishery.

Unknown. However, tThis region is a popular fishing spot for spiny lobster in particular and preventing take in the region may not be welcomed by recreational fishers in the area. Yet, research has shown an increase in lobster populations within local MPAs and a resulting increase in lobster catch in neighboring zones. Recent work found that a 35% reduction in fishing area was compensated for by a 225% increase in total catch after 6\_-years, demonstrating local scale trade-offs provided benefits to fisheries. The designation of this MPA is likely to have a similarly positive impact on this fishery in the medium- to long-term.

Finally, enhanced ocean protections can also benefit our economy, as millions of visitors travel to California's iconic coastline each year to recreate and enjoy a healthy ocean, supporting our state's blue economy. This area holds special importance for visitors and residents alike engaging in ocean and coastal recreation, as well as for local Chumash people engaging in cultural and subsistence practices and for recreational fishers. The proposed SMCA would support these activities, allowing public access and all non-consumptive activities, allowing fishing from shore using hook-and-line, and granting a Tribal take exemption for the federally recognized Santa Ynez Band of Chumash Indians to fish with the use of traditional hand-based equipment. While there are concerns among recreational and commercial fishers about the fiscal impacts of the proposed SMCA, many businesses assert that the creation of the Mishopshno SMCA would bolster their business through indirect tourism and recreation impacts. By making the ocean healthier and more resilient to climate change, marine protections help safeguard everyone's ability to enjoy these areas through a variety of recreational activities, far into the future.

12. Forms: If applicable, list any forms to be created, amended or repealed: Click here to enter text.

# **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

March 26, 2025

Erika Zavaleta, President California Fish and Game Commission 715 P Street, 16th Floor Sacramento, CA 95817

Submitted electronically to <u>fgc@fgc.ca.gov</u>

## RE: Amendments to Petition 2023-29MPA: Mishopshno State Marine Conservation Area

Dear President Zavaleta and Honorable Commissioners:

In 2023, the Santa Ynez Band of Chumash Indians (SYBCI), Environmental Defense Center (EDC), and Natural Resources Defense Council (NRDC) submitted petition 2023-29MPA to the Fish and Game Commission (FGC) proposing a California-Chumash co-managed marine protected area (MPA) off the coast of Carpinteria, to be named Mishopshno State Marine Conservation Area (SMCA) after the ancestral Chumash village located in the area.

Given the significance of the area to the Chumash people and the important scientific research and monitoring being conducted within the proposed boundary, the original petition proposed the following suggested regulations:

Take of all living, geological, or cultural marine resources is prohibited except:
1. The following federally recognized tribe is exempt from the area and take regulations found in subsection 632(b)(9) of these regulations and shall comply with all other existing regulations and statutes: The federally recognized tribe of the Santa Ynez Band of Chumash Indians. Within the proposed SMCA, the Chumash would be allowed to fish with the use of hand-based equipment. The proposed exemptions would be consistent with allowing tribal take exemptions as currently defined in Title 14, §632(a)(11), which identify how a member of a federally recognized tribe may be authorized to take living marine resources from an MPA with site-specific take restrictions. Members taking living marine resources under this provision are subject to current seasonal, bag, possession, gear and size limits in existing Fish and Game Code statutes and regulations of the Commission, except otherwise provided for in Title 14, §632(b).
2. Scientific research pursuant to the MLPA regulations for SMCAs. (14 C.F.R. section 632(a)(1)(C).

Since January 2024, our Tribal Nation and our two organizations have conducted over 100 in-person, video and phone meetings with community members and interested parties to discuss the Mishopshno SMCA proposal. These conversations have improved our understanding of the Carpinteria area, highlighted community support for protecting the coastal waters, and shaped our supplemental site-specific research. Our discussions with local Tribes, Tribal organizations, and fishers in particular have informed our decision to amend the original petition submitted to the FGC.

We developed the amendments to Petition 2023-29MPA to ensure non-federally recognized Tribes retain shore fishing access, and to limit direct, near-term impacts to extractive activities to the greatest extent possible, while still adhering to the Master Plan science-based design criteria and guidance around high levels of protection. Our amended proposed regulations are:

- Allow for the recreational take of finfish from shore using hook-and-line, promoting access to certain important marine and cultural resources for all Chumash people including non-federally recognized Tribes;
- Allow for recreational take of finfish from shore using hook-and-line for the public;
- Reduce the SMCA in size to 9 square miles, with boundaries that leave Armpit Reef, the easternmost edge of Carpinteria Reef, and the eastern portion of the kelp forest associated with Carpinteria Reef outside of the MPA's boundaries, to allow for continued recreational and commercial fishing access to certain important local fishing grounds.

These amendments are supplemental to the amendment submitted on February 9, 2024, which excluded the Carpinteria Salt Marsh Reserve from the proposed Mishopshno SMCA boundaries given its existing protection and management under the UC Natural Reserve System.

We hope these amendments, which are informed by the additional insight and information gathered through our outreach efforts with local communities and interested parties, encourage the Commission to approve the Mishopshno SMCA.

Thank you for your consideration.

Sincerely,

Sam Cohen Government Affairs and Legal Officer Santa Ynez Band of Chumash Indians

Azsha Hudson Marine Conservation Analyst & Program Manager Environmental Defense Center

Sandy Aylesworth Director, Pacific Initiative, Nature Natural Resources Defense Council

## **Overview**

The intent of this marine protected area (MPA) is to 1) help meet the Master Plan design guidelines for spacing between protected habitats, promoting connectivity in the network and representation of habitat types, 2) protect habitat important to marine wildlife, such as juvenile white sharks (JWS), and 3) restore management to the Santa Ynez Band of Chumash Indians (SYBCI) of this portion of coastal waters. This petition calls for a co-management agreement between the State of California and the SYBCI and continued access to the shoreline and marine resources for traditional, ceremonial, cultural, and subsistence purposes for all Chumash people.

We propose a new SMCA named Mishopshno for a prominent Chumash coastal village that was proximate to the marine area to be protected. Mishopshno village was an important coastal site in the ancestral lands of the diverse Chumash people because of its use for boatbuilding and its close proximity to the ocean. It was described by members of the Portolá expedition who encountered the town on August 17, 1769 as "...at the very edge of the sea a large village or very regular town here at this point, appearing at a distance as though it were a shipyard, because at the moment they were building a canoe that still had its topmost plank lacking from it (dubbed by soldiers La Carpinteria, the Carpenter Shop)."<sup>1</sup> The canoes described here were tomol, Chumash watercraft built using sophisticated techniques for production of wooden planks and waterproofing with specialized local clay.<sup>2</sup> Chumash tomol paddlers still use the area to practice for their annual crossing to Limuw, also known as Santa Cruz Island.

Designation of a new Tribal MPA supports California and Biden era federal initiatives to enhance tribal co-management.<sup>3</sup> The Mishopshno SMCA would provide an additional Tribal comanagement MPA for the South Coast and is an example of two of the four coastal 30x30 "key strategies:" 1) adaptive management of the MPAs network, and 2) advancing Tribally led conservation.<sup>4</sup> Further, it would help advance Recommendation 2 of the CDFW DMR Report, "Create a Pathway to Tribal Co-Management."<sup>5</sup> *This petition is co-sponsored by the federally recognized Santa Ynez Band of Chumash Indians, the Natural Resources Defense Council, and Environmental Defense Center.* 

## Rationale

<sup>3</sup> California Department of Fish and Wildlife, *California's Marine Protected Area Network Decadal Management Review*, 2022, <u>https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=209209&&inline</u>.; State of California, *Pathways to 30x30: Accelerating Conservation of California's Nature*, April 2022,

https://resources.ca.gov/-/media/CNRA-Website/Files/Initiatives/30-by-30/Final\_Pathwaysto30x30\_042022\_508.pdf; AB-1284 Tribal ancestral lands and waters: cogovernance and comanagement agreements. (2023-2024) https://leginfo.legislature.ca.gov/faces/billStatusClient.xhtml?bill\_id=202320240AB1284; U.S. Secretary Of Agriculture, Secretary Of Interior, and Secretary Of Commerce, "Joint Secretarial Order on Fulfilling the Trust Responsibility to Indian Tribes in the Stewardship of Federal Lands and Waters," 2021, https://www.doi.gov/sites/doi.gov/files/elips/documents/joint-so-3403-a1\_0.pdf.

<sup>&</sup>lt;sup>1</sup> Lynn H. Gamble, "Historic Chumash Settlements on the Mainland Coast," in *The Chumash World at European Contact: Power, Trade, and Feasting Among Complex Hunter-Gatherers* (University of California Press, 2011). <sup>2</sup> John Peabody Harrington et al., *TOMOL: Chumash Watercraft as Described in the Ethnographic Notes of John P. Harrington*, Ballena Press Anthropological Papers ; No. 9 (Socorro, N.M.: Ballena Press, 1978).

<sup>&</sup>lt;sup>4</sup>Wishtoyo Foundation, *Tribal Marine Protected Areas: Protecting Maritime Ways and Practice,* 2004, <u>https://static1.squarespace.com/static/5459dd35e4b0eb18b9b5599b/t/56bb76be859fd0422da8978d/1455126215937/</u> <u>TribalMPAsWhitePaper.pdf</u>

<sup>&</sup>lt;sup>5</sup> CDFW, California's Marine Protected Area Network Decadal Management Review, 2022

## 1. Habitat, Spacing, & Connectivity

The MPA Network was designed to function as an ecological network to ensure the protection of California's diverse coastal ecosystems.<sup>6</sup> During the design and planning phase, a science advisory team (SAT) identified the key metrics needed to achieve network connectivity, including MPA size, spacing, and key habitat representation and replication.<sup>7</sup> Currently, mainland coastal MPAs in the Santa Barbara region, Campus Point and Point Dume, are approximately 74 miles apart, 12 miles further than the recommended maximum MPA spacing distance of 62 miles to ensure ecological connectivity (Figure 1).<sup>8</sup> This proposal aims to address that gap by adding a protected area around what is now called Carpinteria, CA (the ancestral home of the SYBCI).

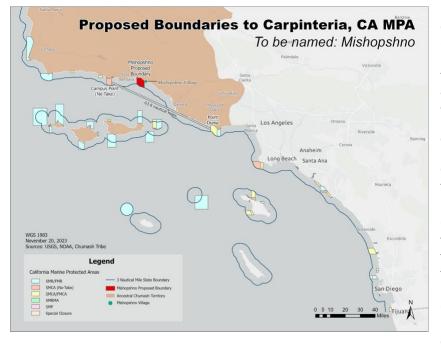


Figure 1: Map of southern California MPAs with the proposed SMCA near Carpinteria shown in red. The 64 nm distance between two existing MPAs at Campus Point and Point Dume is indicated. This distance is greater than the maximum suggested spacing to ensure ecological connectivity. Mishopshno was one of the many Chumash villages in the region at the time of European colonization.

Carpinteria, initially proposed to be the site for an MPA in the original planning stages for the network, lies on the mainland coast north of the Channel Islands.<sup>9</sup> Within a relatively small area, a diversity of habitat types exist

including rocky reef, rocky intertidal, sandy habitats, sandy beaches, kelp forests, and surfgrass beds. Associated with these habitat features are higher trophic level species including halibut, lobster, nearshore sharks and rays, and multiple harbor seal haulouts. Research shows that MPAs with a diversity of habitat types and depths facilitate increased connectivity among habitats.<sup>10</sup>

<sup>10</sup> Carr, Mark H., et al., 2017. "The Central Importance of Ecological Spatial Connectivity to Effective Coastal Marine Protected Areas and to Meeting the Challenges of Climate Change in the Marine Environment." Aquatic Conservation: Marine and Freshwater Ecosystems 27 (S1): 6–29. <u>https://doi.org/10.1002/aqc.2800</u>; Hopkins, Charlotte R., et al., 2020. "Evaluating Whether MPA Management Measures Meet Ecological Principles for Effective Biodiversity Protection." Acta Oecologica 108 (October):103625. <u>https://doi.org/10.1016/j.actao.2020.103625</u>.

 <sup>&</sup>lt;sup>6</sup> CDFW, California's Marine Protected Area Network Decadal Management Review, 2022
 <sup>7</sup> California Department of Fish and Wildlife, Master Plan for Marine Protected Areas, 2016
 <u>https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=112487&inline</u>.; Saarman, Emily, et al., 2013. "The Role of Science in Supporting Marine Protected Area Network Planning and Design in California." Ocean & Coastal Management, Special Issue on California's Marine Protected Area Network Planning Process, 74 (March):45–56. <a href="https://doi.org/10.1016/j.ocecoaman.2012.08.021">https://doi.org/10.1016/j.ocecoaman.2012.08.021</a>.

<sup>&</sup>lt;sup>8</sup> CDFW Master Plan for Marine Protected Areas 2016, Appendix A, page A-35.

<sup>&</sup>lt;sup>9</sup> California MLPA South Coast Study Region, Description of Marine Protected Areas (MPAs) in Revised External MPA Proposal C (Round 2) Created May 14, 2009.

The proposed SMCA would protect the marine waters adjacent to Carpinteria Salt Marsh Reserve, which protects a critically important Southern California estuary. The marsh lies adjacent to a sandy beach, subtidal rocky reef, and kelp beds, enabling the exchange of nutrients. The marsh also provides a regional nursery for halibut and other marine and estuarine fish, which supports a productive nearshore marine ecosystem.<sup>11</sup> Carpinteria Reef, part of which would be within the SMCA's boundaries, is a large rocky reef with kelp beds. The reef supports one of the more abundant marine life communities and persistent kelp beds in Santa Barbara County.<sup>12</sup> The proposed SMCA encompasses 90% of local biodiversity and counts as a "replicate." as determined from biological surveys, for the following habitat types: kelp forest (2.2 mile length), beaches (3.6 mile length), and nearshore (0-30m) soft bottom substrate (3.2 mile length).<sup>13</sup> The proposed SMCA also contains the following habitat types: hardened shores (1.7 mile length), tidal flats (0.1 mile length), nearshore hard-bottomed substrate (0.34 square mile area and 0.2 mile length at 0-30m depth), deeper hard-bottomed substrate (0.02 square mile area at 30-100m depth), and deeper soft-bottom substrate (2.94 square mile area at 30-100m depth).<sup>14</sup> Furthermore, the South Coast MLPA Planning region protects a lower proportion of nearshore hard-bottomed habitat than other regions.<sup>15</sup> Incorporation of the Mishopshno SMCA would increase the representation of these habitat types for the region.

Ecological connectivity modeling has advanced since the initial network design process. Recent studies have confirmed that the system is generally functioning as an effective network, and that MPAs are well-connected both demographically and environmentally.<sup>16</sup> In addition, modeling results suggest that the positive effect of MPAs on the size and abundance of species within their boundaries also enhances their contribution to larval connectivity outside their boundaries.<sup>17</sup> The proposed Mishopshno SMCA may further this beneficial contribution, by providing an additional MPA in the network with increased larval and reproductive output.

In the coming decades, ocean temperature thresholds will be exceeded more often because of the combination of marine heatwaves and long-term warming.<sup>18</sup> The inclusion of a diversity of upwelling regimes and habitat types in California's MPA network, such as those in the mainland and Channel Island MPAs, is thought to offer additional insurance against changing conditions.<sup>19</sup> As a general matter, ensuring proper spacing, placement, and consequently connectivity of southern mainland MPAs is increasingly important in light of climate change.<sup>20</sup>

<sup>&</sup>lt;sup>11</sup> University of California Natural Reserve System, "Carpinteria Salt Marsh," accessed September 2023. https://ucnrs.org/reserves/carpinteria-salt-marsh-reserve/. <sup>12</sup> Levenbach, Stuart. 2008. "Community-Wide Ramifications of an Associational Refuge on Shallow Rocky Reefs."

Ecology 89 (10): 2819–28. <u>https://doi.org/10.1890/07-0656.1</u>. <sup>13</sup> SeaSketch, "California MPA Petitions," <u>https://www.seasketch.org/california/app</u>. Accessed March 11, 2025.

<sup>&</sup>lt;sup>14</sup> SeaSketch, "California MPA Petitions," https://www.seasketch.org/california/app. Accessed March 11, 2025.

<sup>&</sup>lt;sup>15</sup> Jennifer E. Caselle, et al., "A Synthesis of Ecological and Social Outcomes from the California Marine Protected Area (MPA) Network", 2023, https://opc.ca.gov/wp-content/uploads/2023/01/NCEAS\_MPA\_Report\_Final.pdf.

<sup>&</sup>lt;sup>16</sup> CDFW Decadal Management Review 2022; Yeager ME, et al., Assessing connectivity across the California Marine Protected Area Network, 2023, https://opc.ca.gov/wp-content/uploads/2024/10/MPA-Connectivity-Final-Report-508.pdf.

<sup>&</sup>lt;sup>17</sup> Yeager et al. 2023.

<sup>&</sup>lt;sup>18</sup> Frölicher, Thomas L., Erich M. Fischer, and Nicolas Gruber. 2018. "Marine Heatwaves under Global Warming." Nature 560 (7718): 360–64. https://doi.org/10.1038/s41586-018-0383-9; Laufkötter, Charlotte, Jakob Zscheischler, and Thomas L. Frölicher. 2020. "High-Impact Marine Heatwaves Attributable to Human-Induced Global Warming." Science 369 (6511): 1621-25. https://doi.org/10.1126/science.aba0690.

<sup>&</sup>lt;sup>19</sup> Shelby L. Ziegler et al. 2023, "Marine Protected Areas, Marine Heatwaves, and the Resilience of Nearshore Fish Communities," Scientific Reports 13, no. 1 (January 25, 2023): 1405, https://doi.org/10.1038/s41598-023-28507-1. 20 Carr et al. 2017

## 2. Habitat attractive to White Sharks (see Appendix A for further detail)

The habitat distribution for the northeast Pacific population of white sharks is broad, spanning from Baja California to a point northwest in the Bering Sea off the Aleutian Islands.<sup>21</sup> However, research suggests that juveniles of this population are utilizing a narrower band of coastal waters for nursery habitat, stretching from the Southern California Bight to Baja.<sup>22</sup> Spatial data of white shark movements show that in areas off Carpinteria, JWS form aggregations for periods of weeks to months.<sup>23</sup> These spatial patterns suggest that this habitat attracts JWS, and that the area serves as an important white shark nursery.

White sharks are listed under Appendix II of the Convention on International Trade of Endangered Species of Wild Fauna and Flora (CITES).<sup>24</sup> The species is slow to reach reproductive maturity and produces only a small number of young each year, making it vulnerable to human stressors.<sup>25</sup> Research conducted in the Southern California Bight has found that fisheries bycatch is likely the main source of mortality for JWS.<sup>26</sup> Another factor threatening white sharks is a warming climate and ocean that has led to many species' historic distribution changing.

Juvenile white sharks inhabit a narrow habitat range, choosing shallow habitats (< 1000 m deep) close to land (< 30 km of the shoreline) in waters ranging from 14 to 24°C.<sup>27</sup> They can form aggregations at these ideal locations and display a high degree of residency.<sup>28</sup> Historically, Southern California was a suitable habitat eight months of the year, while coastal habitats in Baja California were suitable year-round.<sup>29</sup> Recent research shows that the average observed white shark density in Carpinteria increased significantly across three years beginning in 2019.<sup>30</sup> Utilizing detection data, a study found a JWS hot spot at Padaro Beach in Carpinteria in the months from May to December in 2020.<sup>31</sup> In this study, the tagged individuals were observed across a stretch of coastline from Loon Point south to Carpinteria State Beach.<sup>32</sup> Padaro Beach was classified as an ideal JWS aggregation spot due to its sandy beach with a rocky reef adjacent to an estuary inlet and low wave energy compared to many of the other nursery habitats available.<sup>33</sup> Although it was previously believed that JWS do not show site fidelity, there is growing evidence that the Southern California Bight is a region of primary nursery habitat,

<sup>31</sup> Spurgeon et al. 2022.

<sup>&</sup>lt;sup>21</sup> Office of National Marine Sanctuary, "White Shark Conservation, White Shark Stewardship Project," Government Website, Greater Farallones National Marine Sanctuary, accessed November 17, 2023, https://farallones.noaa.gov/eco/sharks/sharks\_conservation.html.

<sup>&</sup>lt;sup>22</sup> Anderson, James M., et al., 2021. "Interannual Nearshore Habitat Use of Young of the Year White Sharks Off Southern California." Frontiers in Marine Science 8 (March). <u>https://doi.org/10.3389/fmars.2021.645142</u>.

 <sup>&</sup>lt;sup>23</sup> Anderson et al. 2021; Spurgeon, Emily, et al., 2022. "Quantifying Thermal Cues That Initiate Mass Emigrations in Juvenile White Sharks." Scientific Reports 12 (1): 19874. <u>https://doi.org/10.1038/s41598-022-24377-1</u>.
 <sup>24</sup> Office of National Marine Sanctuary 2023.

<sup>&</sup>lt;sup>25</sup> Ibid.

 <sup>&</sup>lt;sup>26</sup> Benson, John F., et al., 2018. "Juvenile Survival, Competing Risks, and Spatial Variation in Mortality Risk of a Marine Apex Predator." Journal of Applied Ecology 55 (6): 2888–97. <u>https://doi.org/10.1111/1365-2664.13158</u>.
 <sup>27</sup> White, Connor F. et al., 2019. "Quantifying Habitat Selection and Variability in Habitat Suitability for Juvenile White Sharks." PLOS ONE 14 (5): e0214642. <u>https://doi.org/10.1371/journal.pone.0214642</u>.

<sup>&</sup>lt;sup>28</sup> Lyons, Kady, et al., 2013. "The Degree and Result of Gillnet Fishery Interactions with Juvenile White Sharks in Southern California Assessed by Fishery-Independent and -Dependent Methods." Fisheries Research 147 (October):370–80. <u>https://doi.org/10.1016/j.fishres.2013.07.009</u>.

<sup>&</sup>lt;sup>29</sup> Ibid.

<sup>&</sup>lt;sup>30</sup> John K. Parsons, "Using Unoccupied Aerial Vehicles to Uncover Patterns of Density, Size Structure, and Distribution of White Sharks (Carcharodon Carcharias) at a Southern California Coastal Aggregation Site" (UC Santa Barbara, 2022), https://escholarship.org/uc/item/2f74m5fz.

<sup>&</sup>lt;sup>32</sup> Ibid.

<sup>&</sup>lt;sup>33</sup> Ibid.

with specific "hotspots" like Carpinteria attracting fairly stable aggregations, and that the suitability of the habitat has been increasing relative to areas further south as a result of climate change.

## 3. The Importance of Tribally led Marine Stewardship and Tribal Co-Management

The Marine Life Protection Act (MLPA) did not direct how state agencies were to engage or consult with Tribes during the establishment process of California's MPA network, and does not acknowledge coastal Indigenous peoples' long-standing relationships to, dependence on, and stewardship of marine resources.<sup>34</sup> During the MLPA implementation process, there were opportunities for Tribes to engage in stakeholder groups through the Blue Ribbon Task Force and regional stakeholder process. However, Tribes are sovereign nations and require government-to-government consultation. These factors resulted in California Tribes' initial opposition to the creation of the MPA network – many Tribes were fearful the MLPA could restrict Indigenous cultures and ways of life.

By the time the MLPA planning process came to the fourth and final coastal region, the North Coast, Tribes in the North were raising concerns about the lack of an official consultation with Tribal Nations on MPA designations in their ancestral waters. This resulted in state agencies implementing a consultation process that included Tribes as sovereigns and creating the exemption of "Tribal take," to ensure that Tribes would retain access to their cultural and subsistence resources.<sup>35</sup> In the years following the MPA network's implementation, Tribes, state agencies, and policymakers have made extensive progress to encourage and facilitate Tribal marine co-management and access in MPAs.<sup>36</sup>

Now, as California is conducting its first-ever adaptive management process, there is an opportunity to more thoroughly include the groups that were underrepresented during the initial implementation of the network, both Tribal and non-Tribal entities. This petition and Petition 2023-19MPA for the Chitqawi SMCA are the first Tribally proposed state MPAs in California. Designating this MPA would strengthen the role and authority of California Tribes in the state's ocean and marine life protection efforts. With co-management, the Mishopshno MPA would also contribute to the integration of Tribes in California's marine monitoring and management initiatives. Furthermore, this proposal aligns with the state's goal of supporting Tribally led conservation.<sup>37</sup>

## Socioeconomic Considerations

This area holds special importance for residents and visitors engaging in ocean and coastal recreation, for local Chumash people engaging in cultural and subsistence practices, and for commercial and recreational fishers.

<sup>&</sup>lt;sup>34</sup> Curtis G. Berkey & Scott W. Williams, 2019, "California Indian Tribes and the Marine Life Protection Act: The Seeds of a Partnership to Preserve Natural Resources," 43 AM. INDIAN L. REV. 307, <u>https://digitalcommons.law.ou.edu/ailr/vol43/iss2/2;</u> California Marine Life Protection Act.

https://leginfo.legislature.ca.gov/faces/codes\_displayText.xhtml?lawCode=FGC&division=3.&title=&part=&chapter=10 .5.&article=

<sup>&</sup>lt;sup>35</sup> Berkey and Williams 2019

<sup>&</sup>lt;sup>36</sup> McGinnis 2022

<sup>&</sup>lt;sup>37</sup> "30x30: Conserving 30% of California's Coastal Waters by 2030 - California Ocean Protection Council." California Ocean Protection Council, 7 Jan. 2025, opc.ca.gov/30x30/.

Carpinteria is a popular area for surfers, swimmers, kayakers, birdwatchers, beach walkers, freedivers, shore fishers, and more. For instance, there are multiple surf schools in the area, and vessels cluster along the shore during the summer to observe JWS.<sup>38</sup> By making the ocean healthier and more resilient to climate change, strong marine protections help safeguard everyone's ability to enjoy these areas through a variety of recreational activities, far into the future. Enhanced ocean protections can also benefit our economy, as millions of visitors travel to California's iconic coastline each year to recreate and enjoy a healthy ocean, supporting our state's blue economy. In 2023, ocean tourism brought just over \$2 billion in travel-related spending to Santa Barbara County and supported more than 20,000 jobs.<sup>39</sup>

One of the primary goals of this SMCA is to honor the Chumash people's cultural heritage and continued relationship with their ancestral lands and waters. Many culturally significant species for the Chumash are found in Carpinteria and the area proposed for protection, including but not limited to: sheep and kelp crab, Giant keyhole limpet, California mussel, Pacific sand dollar, several octopus species, wavy turban snail, California cone snail, harbor seal, leopard shark, brown pelican, Heerman's gull, Brandt's cormorant, double-crested cormorant, and more.<sup>40</sup> As mentioned previously, Chumash tomol paddlers use the beaches and waters of the Carpinteria area to practice for their annual crossing to Limuw, also known as Santa Cruz Island. Local Chumash people also fish from shore for cultural, recreational, and subsistence purposes, typically using hook-and-line gear.

This is a popular area for recreational fishing as well. The sandy shores of Santa Claus and Padaro Beaches are known as particularly desirable surf fishing locations. Carpinteria Reef and its associated kelp forest provide critical habitat for many marine species, including several targeted by recreational fishers.<sup>41</sup> The nearby sandy beaches provide a safe entry point for people entering the water in California's often challenging coastal ocean conditions (e.g. large surf or swell), making this area a popular spearfishing and freediving location. Spearfishing can have a substantial negative effect on populations of marine fishes with small home ranges due to the targeted selection of larger individuals, which have the highest reproductive output. Some popular spearfishing and freediving targets, such as California spiny lobster, have small home ranges and have been shown to benefit from the protections of California MPAs.<sup>42</sup>

Commercial fishing and fishing by commercial passenger fishing vessels (CPFVs) also occurs in this area. The proposed Mishopshno SMCA makes up 18% of California fishing block number 652. According to publicly available data accessed via the Marine Fisheries Data Explorer (MFDE), commercial fishing in this block represents an extremely small proportion of landings for the Santa Barbara Port Area, both by weight and value. In 2023, landings from fishing block 652 represented 0.22% of total landings by weight, and 1.1% of total landings by value, reported

<sup>&</sup>lt;sup>38</sup> Personal communications to local businesses and residents, February – March 2025.

<sup>&</sup>lt;sup>39</sup> Visit California, 2024. The Economic Impact of Travel in California. https://industry.visitcalifornia.com/research/economic-impact.

 <sup>&</sup>lt;sup>40</sup> Wishtoyo Foundation 2004; Santa Barbara Coastal LTER Data Catalog, <u>https://sbclter.msi.ucsb.edu/data/catalog/</u>, accessed September 2023.

<sup>&</sup>lt;sup>41</sup> While our request to CDFW for recreational lobster fishing data from this area was being processed at time of submission, several conversations with local fishers confirm that Carpinteria Reef is a popular area for recreational lobster fishing by hand.

<sup>&</sup>lt;sup>42</sup> California MPA Long Term Monitoring Program Final Reports: 1) Carr et al. 2021, Monitoring and Evaluation of Kelp Forest Ecosystems in the MLPA Marine Protected Area Network, <u>https://caseagrant.ucsd.edu/system/files/2022-06/Kelp%20Forest%20Technical%20Report%20Narrative\_v2.pdf</u> 2) Hamilton et al. California Collaborative Fisheries Research Program (CCFRP) – Monitoring and Evaluation of California Marine Protected Areas. <u>https://caseagrant.ucsd.edu/sites/default/files/CCFRP\_Final\_Report.pdf</u>.

for the Santa Barbara Port Area from Southern California waters.<sup>43</sup> Over the previous ten-year period from 2013-2023, fisheries landings from fishing block 652 represented 0.16% of total landings by weight, and 0.63% of total landings by value, reported for the Santa Barbara Port Area from Southern California waters.

The MDFE data shows fishing block 652 represents a very small percentage of landings for halibut and California spiny lobster as well, which are both important commercial fisheries in the area. In 2023, halibut landings from block 652 represented 0.5% of total halibut landings by weight, and 0.6% of total halibut landings by value for the Santa Barbara Port Area. <sup>44</sup> Over the previous ten-year period from 2013-2023, halibut landings from this block represented 4.3% of total halibut landings by weight, and 3.9% of total halibut landings by value for the Santa Barbara Port Area. In 2023, California spiny lobster landings from block 652 represented 2.2% of total lobster landings by weight, and 2.2% of total lobster landings by value for the Santa Barbara Port Area. Over the previous ten-year period from 2013-2023, California spiny lobster landings by value for the Santa Barbara Port Area. Over the previous ten-year period from 2013-2023, California spiny lobster landings by value for the Santa Barbara Port Area. Over the previous ten-year period from 2013-2023, California spiny lobster landings by value for the Santa Barbara Port Area. Over the previous ten-year period from 2013-2023, California spiny lobster landings by value for the Santa Barbara Port Area. Over the previous ten-year period from 2013-2023, California spiny lobster landings by weight, and 1.9% of total lobster landings by weight, and 1.9% of total lobster landings by value for the Santa Barbara Port Area from Southern California waters.

Considering the above data and the size of the proposed Mishopshno SMCA, which makes up 18% of fishing block 652, we anticipate that closing this area to commercial fishing would have limited impact on overall commercial fisheries landings for the Santa Barbara Port Area. Overall, regional and statewide fishery landings and values were not negatively impacted by California's MPAs.<sup>45</sup> The commercial California spiny lobster fishery in the Santa Barbara region has seen significant benefits from MPAs – commercial landings more than doubled in the six years after local MPAs were established, with fishermen able to "fish the line" to intercept mature lobster leaving the MPAs.<sup>46</sup> A 35% reduction in fishing area resulted in a 225% increase in total catch, "indicating at a local scale that the trade-off of fishing ground for no-fishing zones benefitted the fishery."<sup>47</sup>

However, we are sensitive to the fact that the proposed MPA would limit some fishing access in the Carpinteria area and understand that these data above do not necessarily mean an MPA designation would not have an impact on individual fishers and businesses. In 2023, the latest year with data available, a total of 15 fishers, 19 businesses, and 16 vessels reported landings from fishing block 652. With this in mind, discussions with local fishers and fishing representatives have helped to further characterize the nature and spatial distribution of fishing in the area proposed for protection. We have amended the proposed SMCA's size and boundaries to exclude some of the preferred fishing areas and reduced the proposal as much as the Master Plan's scientifically informed size guidelines allow (see "Boundary Description" below).<sup>48</sup>

<sup>&</sup>lt;sup>43</sup> Southern California waters defined as all fishing blocks from Point Conception to the US-Mexico border (blocks 652-2035):

https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=227793&inline.

<sup>&</sup>lt;sup>44</sup> Including California halibut, Pacific halibut, and "Unspecified halibut" as reported in the MFDE

<sup>&</sup>lt;sup>45</sup> Murray, Samantha, and Tyler T. Hee. 2019. "A Rising Tide: California's Ongoing Commitment to Monitoring, Managing and Enforcing Its Marine Protected Areas." Ocean & Coastal Management 182 (December):104920. https://doi.org/10.1016/j.ocecoaman.2019.104920.

<sup>&</sup>lt;sup>46</sup> Lenihan, Hunter S., et al., 2021. "Evidence That Spillover from Marine Protected Areas Benefits the Spiny Lobster (Panulirus Interruptus) Fishery in Southern California." Scientific Reports 11 (1): 2663.

https://doi.org/10.1038/s41598-021-82371-5.

<sup>&</sup>lt;sup>47</sup> Lenihan et al. 2021

<sup>&</sup>lt;sup>48</sup> CDFW Master Plan for Marine Protected Areas 2016, Appendix A, page A-35.

Private conversations and publicly available data from MFDE show that commercial and recreational vessels in the Santa Barbara port area 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. According to several fishers with knowledge of the area, fishing near Carpinteria Reef is often considered dangerous for vessels due to its shallow depth. Navigational charts and observations of breaking waves on the reef structure during certain conditions substantiate these accounts. Several commercial and recreational fishers noted that Armpit Reef, a hard-bottom structure located offshore of Carpinteria Reef, is a desirable and productive fishing location in the area that is fished when the islands are otherwise inaccessible. To preserve this option, we changed the southern boundary of the proposed Mishopshno SMCA so that Armpit Reef lies outside of the MPA boundaries, thereby maintaining locally accessible and frequented fishing locations for individual commercial and recreational vessels fishing in the area.

As stated in the original Mishopshno SMCA proposal, this MPA would allow for public access, all non-consumptive activities, and a Tribal take exemption for the SYBCI to fish with the use of hand-based equipment. After subsequent discussions with local stakeholders and Tribal members related to the consumptive activities noted above, we are proposing the below amendments to the original petition. These amendments will help limit direct, near-term impacts to extractive activities to the greatest extent possible, while still adhering to the Master Plan science-based size criteria and guidance around high levels of protection:

- Allow for the recreational take of finfish from shore using hook-and-line, promoting access to certain important marine and cultural resources for all Chumash people – including non-federally recognized Tribes
- Allow for recreational take of finfish from shore using hook-and-line for the public.
- Establish boundaries for the SMCA that leave Armpit Reef, the easternmost edge of Carpinteria Reef, and the associated kelp forest outside of the MPA's boundaries to allow for continued recreational and commercial fishing access to certain important local fishing grounds.

See "Boundary Description" and "Proposed Regulations" for more detail.

# **Conclusion**

The proposed MPA would address a physical gap in the MPA network and increase the proportion of rocky reef habitat in the southern portion of the MPA network. Research focused on JWS has shown the waters off Carpinteria are a frequent hotspot for juvenile white sharks, offering specific habitat features that support this critical life stage. The proposed MPA would allow some forms of recreational fishing within its boundaries, and its boundaries are designed to allow fishing access to a popular offshore rocky reef area while still meeting the MLPA Science Advisory Team criteria and having a high level of protection. Finally, designation of the proposed MPA would add a new Tribal MPA in the region, strengthening the role of the Tribes in co-management, monitoring, and marine education activities.

## **Boundary Description**

The proposed boundaries of the SMCA were informed by extensive outreach and discussions with local Tribes and fishers. The proposed boundaries meet a difficult-to-achieve compromise between upholding science-based size and area criteria,<sup>49</sup> protecting critical habitat and

<sup>&</sup>lt;sup>49</sup> CDFW Master Plan for Marine Protected Areas 2016, Appendix A, page A-35.

promoting connectivity for the broader network, while allowing continued fishing access to important local fishing areas.



The western boundary is located at 119.54W, extending from the shore at Summerland to 34.37N. The eastern boundary is located at 119.58W, extending from the coast at Franklin Creek (also known as Santa Monica Creek) to 34.37N.

Area: 9.05 square miles

Shore adjacent distance: 3.63 miles

MPA coordinates:

- 1. SE: 119.53589W long. 34.366106N lat.
- 2. NE: 119.53589W long. 34.395977N lat.
- 3. NW: 119.587711W long. 34.416944N lat.
- 4. SW: 119.587711W long. 34.366106N lat.

The eastern boundary, located at the eastern shore of Santa Monica Creek at Salt Point, would ensure the protection of important habitat and food sources for JWS at the mouth of the Carpinteria Salt Marsh. This eastern boundary would allow for continued fishing access to the eastern edge of Carpinteria Reef and the eastern portion of its associated kelp forest. This eastern portion of the reef is a known popular fishing area for recreational fishers, especially

those who access the reef and kelp bed from the downshore sandy beach using public parking areas nearby. This placement would also provide a known, easily recognizable landmark and shoreline feature as the starting point for the eastern boundary of this MPA, allowing for a common, easily referenced understanding of this boundary per CDFW guidelines.<sup>50</sup>

The southern boundary would ensure protection of the ecologically important nearshore rocky reef and kelp habitat of Carpinteria Reef while allowing access to the popular fishing area offshore called Armpit Reef.

The western boundary, located just west of Loon Point, would ensure the protection of important sandy-bottom habitat for JWS off Padaro Beach and additional hard-bottom substrate and kelp forest cover around Loon Point. In addition to conserving these important habitats, the revised western boundary at this location would ensure the SMCA meets the Master Plan minimum size and spacing guidelines while allowing continued fishing opportunities in the areas west of Loon Point.

As described above, the proposed SMCA boundaries adhere to the Master Plan design guidelines. The designation of an SMCA that is smaller than these minimum size guidelines would hinder the area's ability to meet the design objectives and MLPA goals for which they were developed: protect adult populations; protect the diversity of species that live at different depths; and accommodate the movements of individuals across depth zones (MLPA goals 2 & 6).<sup>51</sup> It is therefore imperative that the SMCA be no smaller than these recommended minimum size guidelines.

## **Proposed Regulations**

This petition proposes the following regulations for an SMCA for the region outlined above:

Take of all living, geological, or cultural marine resources is prohibited except:

1. The following federally recognized tribe is exempt from the area and take regulations found in subsection 632(b)(9) of these regulations and shall comply with all other existing regulations and statutes:

The federally recognized tribe of the Santa Ynez Band of Chumash Indians. Within the proposed SMCA, the Chumash would be allowed to fish with the use of handbased equipment. The proposed exemptions would be consistent with allowing Tribal take exemptions as currently defined in Title 14, §632(a)(11), which identify how a member of a federally recognized Tribe may be authorized to take living marine resources from an MPA with site-specific take restrictions. Members taking living marine resources under this provision are subject to current seasonal, bag, possession, gear and size limits in existing Fish and Game Code statutes and regulations of the Commission, except otherwise provided for in Title 14, §632(b).

- 2. Scientific research pursuant to the MLPA regulations for SMCAs (14 C.F.R. section 632(a)(1)(C) is allowed.
- 3. Recreational take of finfish by hook-and-line from shore is allowed.

<sup>&</sup>lt;sup>50</sup> CDFW Master Plan for Marine Protected Areas 2016; Saarman et al. 2013

<sup>&</sup>lt;sup>51</sup> CDFW Master Plan for Marine Protected Areas 2016, Appendix A.

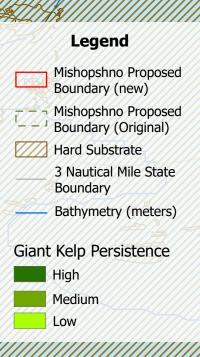
These regulations would allow access to the area for scientific research and allow some recreational take using a low-impact gear type.<sup>52</sup> The regulations would allow use of shoreline and marine resources for traditional, ceremonial, cultural, and subsistence purposes for the SYBCI and for non-federally recognized Chumash people. The state should consult with the SYBCI to formalize a co-management agreement for the SMCA. The SYBCI will work to include non-federally recognized Tribal members in the management of the area. With the regulations detailed above, the Mishopshno SMCA would qualify as a "highly protected" MPA according to science-based criteria set forth by The MPA Guide.<sup>53</sup> Research shows that fully and highly protected MPAs are more likely to benefit populations of targeted species, protect high levels of biodiversity, and promote ecosystem resilience.<sup>54</sup>

<sup>&</sup>lt;sup>52</sup> Single lines (hooks, pole and line, rod, troll) and low-impact traditional extraction are identified by The MPA Guide as small-scale, selective gear with low impact and therefore compatible with highly protected MPAs. Grorud-Colvert, Kirsten, et al. 2021. "The MPA Guide: A Framework to Achieve Global Goals for the Ocean." Science, September. <u>https://doi.org/10.1126/science.abf0861</u>.

<sup>53</sup> Grorud-Colvert et al. 2021

<sup>54</sup> Grorud-Colvert et al. 2021

# Proposed Boundaries of Mishopshno State Marine Conservation Area



NAD 1983 California (Teale) Albers March 26, 2025 Sources: USGS, NOAA, King, (1975), PSMFC, CDFW, Arafeh-Dalmau et al., (2021)

Carpinteria

Mishopshno Village sheon Me

March 26, 2025

Erika Zavaleta, President California Fish and Game Commission 715 P Street, 16th Floor Sacramento, CA 95817

Submitted electronically to <u>fgc@fgc.ca.gov</u>

#### RE: Amendments to Petition 2023-29MPA: Mishopshno State Marine Conservation Area

Dear President Zavaleta and Honorable Commissioners:

In 2023, the Santa Ynez Band of Chumash Indians (SYBCI), Environmental Defense Center (EDC), and Natural Resources Defense Council (NRDC) submitted petition 2023-29MPA to the Fish and Game Commission (FGC) proposing a California-Chumash co-managed marine protected area (MPA) off the coast of Carpinteria, to be named Mishopshno State Marine Conservation Area (SMCA) after the ancestral Chumash village located in the area.

Given the significance of the area to the Chumash people and the important scientific research and monitoring being conducted within the proposed boundary, the original petition proposed the following suggested regulations:

Take of all living, geological, or cultural marine resources is prohibited except:
1. The following federally recognized tribe is exempt from the area and take regulations found in subsection 632(b)(9) of these regulations and shall comply with all other existing regulations and statutes: The federally recognized tribe of the Santa Ynez Band of Chumash Indians. Within the proposed SMCA, the Chumash would be allowed to fish with the use of hand-based equipment. The proposed exemptions would be consistent with allowing tribal take exemptions as currently defined in Title 14, §632(a)(11), which identify how a member of a federally recognized tribe may be authorized to take living marine resources from an MPA with site-specific take restrictions. Members taking living marine resources under this provision are subject to current seasonal, bag, possession, gear and size limits in existing Fish and Game Code statutes and regulations of the Commission, except otherwise provided for in Title 14, §632(b).
2. Scientific research pursuant to the MLPA regulations for SMCAs. (14 C.F.R. section 632(a)(1)(C).

Since January 2024, our Tribal Nation and our two organizations have conducted over 100 in-person, video and phone meetings with community members and interested parties to discuss the Mishopshno SMCA proposal. These conversations have improved our understanding of the Carpinteria area, highlighted community support for protecting the coastal waters, and shaped our supplemental site-specific research. Our discussions with local Tribes, Tribal organizations, and fishers in particular have informed our decision to amend the original petition submitted to the FGC.

We developed the amendments to Petition 2023-29MPA to ensure non-federally recognized Tribes retain shore fishing access, and to limit direct, near-term impacts to extractive activities to the greatest extent possible, while still adhering to the Master Plan science-based design criteria and guidance around high levels of protection. Our amended proposed regulations are:

- Allow for the recreational take of finfish from shore using hook-and-line, promoting access to certain important marine and cultural resources for all Chumash people including non-federally recognized Tribes;
- Allow for recreational take of finfish from shore using hook-and-line for the public;
- Reduce the SMCA in size to 9 square miles, with boundaries that leave Armpit Reef, the easternmost edge of Carpinteria Reef, and the eastern portion of the kelp forest associated with Carpinteria Reef outside of the MPA's boundaries, to allow for continued recreational and commercial fishing access to certain important local fishing grounds.

These amendments are supplemental to the amendment submitted on February 9, 2024, which excluded the Carpinteria Salt Marsh Reserve from the proposed Mishopshno SMCA boundaries given its existing protection and management under the UC Natural Reserve System.

We hope these amendments, which are informed by the additional insight and information gathered through our outreach efforts with local communities and interested parties, encourage the Commission to approve the Mishopshno SMCA.

Thank you for your consideration.

Sincerely,

Sam Cohen Government Affairs and Legal Officer Santa Ynez Band of Chumash Indians

Azsha Hudson Marine Conservation Analyst & Program Manager Environmental Defense Center

Sandy Aylesworth Director, Pacific Initiative, Nature Natural Resources Defense Council



## Tracking Number: (2023-33MPA\_AM1)

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: \_\_\_\_\_\_ Email address: \_\_\_\_\_\_

 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



FGC 1 (Rev 06/19) Page 2 of 4

vi. Natural Bridges SMR - expand southward by <del>13.7 sq mi</del>, <u>eastward to the edge of Natural</u> Bridges State Beach by ~14.5 sq mi vii. Pleasure Point, Santa Cruz - designate 3.2 sq mi as a new State Marine <del>Reserve</del>

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 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, Marcela Gutiérrez-Graudiņš, Azul,

## **SECTION II: Optional Information**

5. Date of Petition: 11/29/23 AMENDED 3/14/2025

## 6. Category of Proposed Change

- □ Sport Fishing
- □ Commercial Fishing



□ Other, please specify: MPAs, Section 632.

- **7. The proposal is to:** (*To determine section number(s), see current year regulation booklet or* <u>https://govt.westlaw.com/calregs)</u>
  - □ Amend Title 14 Section(s):<u>Westlaw regulations.</u>
  - 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.



FGC 1 (Rev 06/19) Page 3 of 4

- 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:
    - <u>• Petition signed by over 10,000 members of the public, collected in 2024</u>
    - Petition signed by 6,000 members of the public, collected by CALPIRG Students
    - Updated letters (2) from 52 scientists
    - Updated letter from 17 businesses
    - $\circ$  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
    - $\circ$  Joint letter from 27 scientists, researchers, and educators
    - $\circ$  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
    - $\circ$  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:



FGC 1 (Rev 06/19) Page 4 of 4

# **SECTION 3: FGC Staff Only**

Date received: 11/30/2023	AMENDED 3/14/2025
FGC staff action:	
	FGC authority Tracking Number eipt of petition and pending action:
Meeting date for FGC consideration	on:
FGC action: □ Denied by FGC □ Denied - same as petitior	ו Tracking Number
Granted for consideration	5

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 <u>red underline</u> and <u>black strikethrough</u>. 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

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	2023-33MP A	2023-33MP A_1	Cabrillo State Marine Reserve (SMR)	Modify	Boundari es	Boundary change- expansion	Expand westward and northward by <del>15.2 sq mi</del> ~9.99 sq mi	Stakeholder feedbackcommer cial fishers (see Table 2)
Laura Deehan, Environment California Research and Policy Center and Azul	2023-33MP A	2023-33MP A_2	Point Dume SMCA	Modify	Boundari es, <u>Regulatio</u> <u>ns</u>	Boundary change- expansion, <u>regulatory</u> <u>change</u>	Expand westward by 4.6 sq mi	Stakeholder feedbackrecreatio nal fishers (see Table 2)
Laura Deehan, Environment California Research and Policy Center and Azul	2023-33MP A	2023-33MP A_6	Natural Bridges SMR	Modify	Boundari es	Boundary change-expansio n	Expand southward by <del>13.7</del> <del>sq mi</del> <u>14.5 sq mi</u>	Stakeholder feedbackMPA collaborative (see Table 2)
Laura Deehan, Environment California Research and Policy Center and Azul	2023-33MP A	2023-33MP A_7	N/A	Establish	Establish new MPA	Establish new MPA	Designate 3.2 sq mi as a new SMR SMCA near Pleasure Point	Stakeholder feedbackrecreatio nal fishers (see Table 2)

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

#### 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**

#### <u>Overview</u>

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 benefits to California 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 guality 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.

#### Identifying resilient kelp forests in California

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 <u>MPA Collaborative Network's Vetted Regulation Recommendations</u>), 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.

<u>As noted in our original petitions</u>, Finally, it should be noted that, while the general location and specific boundaries for proposed areas are listed in Table 1, we <u>continue to be</u> 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 (<u>Crowfoot et al. Objective 3.2</u>).

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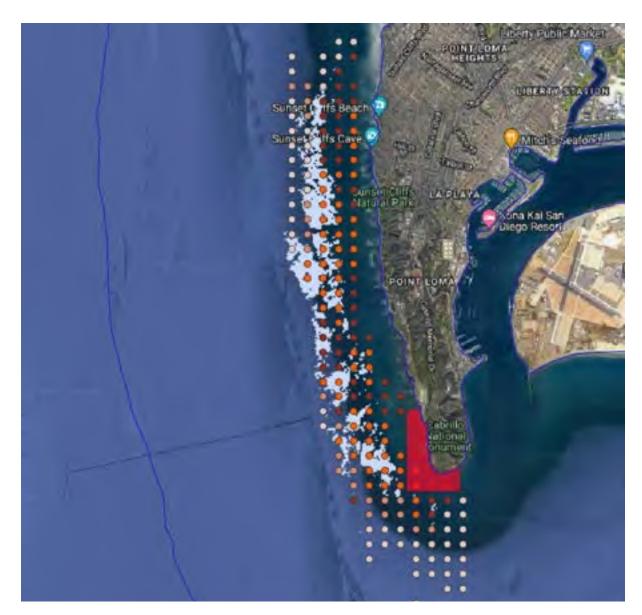
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#### Appendix A Distribution of Highly Persistent Kelp Beds Near State MPAs Proposed for Expansion

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.



## Cabrillo SMR

## Point Dume SMCA



## Gull Island SMR



## South Point SMR



## Point Conception SMR



## Natural Bridges SMR



## Pleasure Point, Santa Cruz

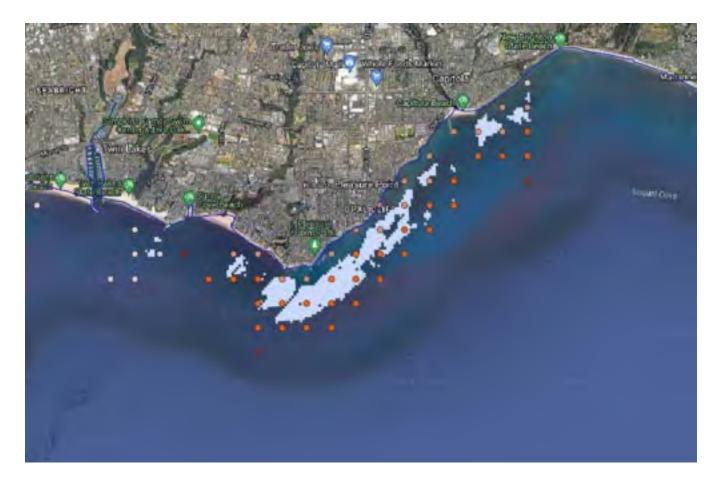


TABLE 1 - Petition to Modify the CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kell	o Forests
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TABLE 1 - Petition to Modify the CA Marine Protected Area Network to Enhance Protections for California's Most Resilient 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 Lorma 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 a new SMCA alongside the existing SMR that allows for recreational hook-and-line fishi and spearfishing.		
Point Dume State Marine Conservation Area (SMCA)		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 EI 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			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	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	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,	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	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	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	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: " <i>It is unlawful to injure, damage, take, or possess any living, geological, or cultural marine resource.</i> " 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.		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
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Name	Proposed action	Brief description	Proposed regulations and boundary change	Historical context	Notes/Justification			
Cabrillo State Marine Reserve (SMR)	Expand by 1 <del>5.2 sq.</del> miles- <u>~9.9</u> 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.	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 Peint to bring resilient kelp beds along the western shore of Point	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, surgrass 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 <u>2</u> - <u>Amendments to</u> Petition to I	Nodify the CA Marine Protected Area Network to Enhance Protections for Cali	fornia's Most Resilient Kelp Forests	
Point Conception SMR		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	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.	The remoteness of its location makes it one of the least-visited mainland marine
Natural Bridges SMR	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 boundary, <u>shift</u> 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 ( <u>Arafeh-Dalmau et al. 2023</u> ).	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. <u>We would consider a</u> southern boundary that is closer to shore, like near the continental sheft. 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	~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 <u>State Marine Conservation Area no take SMR-</u> to protect this large kelp forest from all- <u>most</u> 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.<sup>1</sup> 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.<sup>2</sup> 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.<sup>3</sup>

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

<sup>3</sup>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.)].;

<sup>&</sup>lt;sup>1</sup> 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

<sup>&</sup>lt;sup>2</sup> 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.

resilience, and mitigating the impacts of climate change on our oceans.<sup>4</sup> 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.<sup>5</sup>

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.<sup>6</sup> 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.<sup>7</sup> 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.<sup>8</sup>

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.

<sup>&</sup>lt;sup>4</sup> 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

<sup>&</sup>lt;sup>5</sup> 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

<sup>&</sup>lt;sup>6</sup> California Department of Fish and Wildlife. (2022). California's Marine Protected Area Network Decadal Management Review.;

 <sup>&</sup>lt;sup>7</sup> 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.
 <sup>8</sup> Eger, A.M., Marzinelli, E.M., Christie, H., Fagerli, C.W., Fujita, D., Gonzalez, A.P., Hong, S.W., Kim, J.H., Lee,

<sup>&</sup>lt;sup>o</sup> 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.<sup>9</sup> 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.<sup>10</sup> 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%.<sup>11</sup> 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.<sup>12</sup>

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.<sup>13</sup> 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.

 <sup>&</sup>lt;sup>9</sup> 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
 <sup>10</sup> Smith et al., "Conservation benefits of a large marine protected area network that spans multiple ecosystems", Society for

<sup>&</sup>lt;sup>10</sup> Smith et al., "Conservation benefits of a large marine protected area network that spans multiple ecosystems", Society for Conservation Biology, doi: <u>doi.org/10.1111/cobi.14435</u>, January 2025

<sup>&</sup>lt;sup>11</sup> 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

 <sup>&</sup>lt;sup>12</sup> 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 <u>https://www.nature.com/articles/s41598-021-82371-5</u>
 <sup>13</sup> *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

Dr. Elijah Catalan PhD Candidate, Institute of the Environment and Sustainability at UCLA

Dr. Tina Treude Professor for Marine Geomicrobiology, UCLA

Dr. Justin Dunnavant Assistant Professor of Archaeology, UCLA Trustee of the National Marine Sanctuary Foundation

Dr. Brian Kennedy Chief Scientist, Ocean Discovery League

Dr. Win Cowger Research Director, Moore Institute for Plastic Pollution Research

Dr. Francis Chan Associate Professor, Oregon State University

Dr. Kira Homol Dr. of Oceanography, ULCA

Dr. Gabriela Carr, Graduate student researcher, Institute of the Environment and Sustainability at University of California Los Angeles

Dr. Laura Edwards Marine Operations Program Manager, University of California Los Angeles

Dr. Michael Akresh Faculty, Antioch University Dr. Alice Alldredge Professor Emeritus, University of California, Santa Barbara

Dr. Steven Allison Professor, University of California, Irvine

Dr. Peter Auster Research Professor Emeritus, University of Connecticut

Dr. Nevé Baker PhD Candidate, University of California Santa Cruz

Dr. Leocadio Blanco Bercial Assistant Professor, Bermuda Institute of Ocean Sciences at Arizona State University

Dr. Bailey Drechsler Professor, Cuesta College

Dr. Michelle María Early Capistrán Postdoctoral Scholar, Stanford University

Dr. Rikki Eriksen Director Marine Spatial Ecology, California Marine Sanctuary Foundation

Dr. Paul Faulstich Emeritus Professor of Environmental Analysis, Pitzer College

Dr. Sarah Hameed Blue Parks Director & Senior Scientist, Marine Conservation Institute

Dr. Brett Holland Faculty, California State University, Sacramento

Dr. Flora Lu Professor of Environmental Studies, University of California, Santa Cruz

Dr. Kathy Ann Miller Curator of Algae, Herbarium, University of California Dr. Dawn Murray Professor, Antioch University

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Dr. Erin Naegle STEM Dean of Instruction, Cuesta College

Dr. Hannahrose Nevins Seabird Ecologist, Seabird Consultant

Dr. Gretchen North Professor of Biology, Occidental College

Dr. Carolina Olguin Jacobson Postdoctoral fellow, Hopkins Marine Station of Stanford University

Dr. Gorka Sancho Professor, College of Charleston

Joanna Tang PhD Candidate, University of California Santa Barbara

Dr. Robert Voeks Professor, Department of Geography & the Environment at California State University, Fullerton

Dr. Charles Zender Professor of Earth System Science, University of California, Irvine California Fish and Game Commission P.O. Box 944209 Sacramento, CA 94244-2090

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.<sup>14</sup> 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.<sup>15</sup>

More than one-fifth of the world's coral reefs have been effectively destroyed, and many of those that remain face imminent collapse<sup>16</sup>. 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<sup>17</sup>. 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<sup>18</sup>. 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.<sup>19</sup> At this critical juncture, the marine conservation path that

<sup>17</sup> NOAA, "Ocean Acidification", Resources, February 2025

<sup>&</sup>lt;sup>14</sup> Meredith McPherson et. al, <u>Large-scale shift in the structure of a kelp forest ecosystem co-occurs with an epizootic and marine heatwave</u>, Communications Biology, March 5, 2021

 <sup>&</sup>lt;sup>15</sup> García-Reyes, Marisol, Andrew Leising, Rebecca Asch, Steven Bograd, and Tessa M Hill. Rep. Indicators of Climate Change in California, <u>"Coastal Ocean Temperature"</u>, *California Office of Environmental Health Hazard Assessment*, 2022.
 <sup>16</sup>Daniel Dickinson, "*Bringing the coral reefs back to life*", UN News, United Nations, June 2020

<sup>&</sup>lt;sup>18</sup> Mukhisa Kituyi and Peter Thomson, "<u>90% of fish stocks are used up – fisheries subsidies must stop emptying the ocean</u>," World Economic Forum, July 13, 2018.

<sup>&</sup>lt;sup>19</sup> 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<sup>20</sup> 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.<sup>21</sup> 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.<sup>22</sup>

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<sup>23</sup>. 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%<sup>24</sup>. These benefits can extend beyond MPAs through positive spillover effects, increasing fish populations in surrounding waters<sup>25</sup>. 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<sup>26</sup>. 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

10.1126/science.1132294, November 2006, 789, archived at

<sup>&</sup>lt;sup>20</sup>California Marine Protected Areas "California State MPAs".

<sup>&</sup>lt;sup>21</sup> Corryn Wetzel, "Kelp forests capture nearly 5 million tonnes of CO2 annually", New Scientist, April 2023

<sup>&</sup>lt;sup>22</sup> CA Department of Fish and Wildlife "About California's Marine Protected Areas", 2025

<sup>&</sup>lt;sup>23</sup> Smith et al., "Conservation benefits of a large marine protected area network that spans multiple ecosystems", Society for Conservation Biology, doi: <u>doi.org/10.1111/cobi.14435</u>, January 2025

 <sup>&</sup>lt;sup>24</sup> 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
 <sup>25</sup> Boris Worm et al., "Impacts of Biodiversity Loss on Ocean Ecosystem Services," Science, 314, 787-790, doi:

https://web.archive.org/web/20200707013658/https://www3.epa.gov/region1/npdes/schillerstation/pdfs/AR-024.pdf <sup>26</sup> 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.<sup>27</sup> 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<sup>28</sup>. 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.<sup>29</sup> 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,

<sup>&</sup>lt;sup>27</sup> 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. <sup>28</sup> Ibid Kirsten Grorud-Colvert et al., The MPA Guide: A framework to achieve global goals for the ocean. Science 373

<sup>,</sup>eabf0861(2021). DOI:10.1126/science.abf0861

<sup>&</sup>lt;sup>29</sup> "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.<sup>30</sup> 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.<sup>31</sup>

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

Science-Policy Platform on Biodiversity and Ecosystem Services," Zenodo, May 4, 2019. <sup>34</sup> Mukhisa Kituyi and Peter Thomson, "<u>90% of fish stocks are used up – fisheries subsidies must stop emptying the ocean</u>,"

<sup>&</sup>lt;sup>30</sup> 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.

 <sup>&</sup>lt;sup>31</sup> García-Reyes, Marisol, Andrew Leising, Rebecca Asch, Steven Bograd, and Tessa M Hill. Rep. Indicators of Climate Change in California, <u>"Coastal Ocean Temperature"</u>, *California Office of Environmental Health Hazard Assessment*, 2022.
 <sup>32</sup> California Coastal Commission, <u>"The Problem with Marine Debris</u>," April, 2023

 <sup>&</sup>lt;sup>33</sup> Eduardo Brondizio et al., "<u>Global assessment report on biodiversity and ecosystem services of the Intergovernmental</u>

<sup>&</sup>lt;sup>34</sup> Mukhisa Kituyi and Peter Thomson, "<u>90% of fish stocks are used up – fisheries subsidies must stop emptying the ocean</u>," World Economic Forum, July 13, 2018.

overfishing list.<sup>35</sup> 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.<sup>36</sup> 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<sup>37</sup>.

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%<sup>38</sup>.

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<sup>39</sup>, 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.<sup>40</sup> 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.

<sup>&</sup>lt;sup>35</sup> NOAA Fisheries, "Status of Stocks 2023," Sustainable Fisheries, February 10, 2025.

<sup>&</sup>lt;sup>36</sup> UNFCCC, "<u>How overfishing harms the climate</u>", Plenty of Fish? June 10, 2022.

<sup>&</sup>lt;sup>37</sup> 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

 <sup>&</sup>lt;sup>38</sup> 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
 <sup>39</sup> U.S. National Science Foundation, "<u>Collapse of Northern California kelp forests will be hard to reverse</u>. NSF Stories, March 17, 2021.

<sup>&</sup>lt;sup>40</sup> Los Angeles County Economic Development Corporation, "<u>Ocean Economy</u>," 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





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!





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 <u>https://tinyurl.com/calpirgoceans</u> 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!





## **UC Davis Students**

UCD Kate Stoneham UCD Manua Maeem UCD Alexander Liesequin UCD Evan Byram UCD Rama Parasar UCD Eric Chen UCD Nadine Olidan UCD Jordan Clark UCD Lola Jung UCD Ashley Tran UCD Olivia Patsch UCD Jacob Charles UCD Jennie Do UCD Asia Engel **UCD** Cristalia Torres UCD Kendal Holck UCD Heidi Anzaldo Ovando UCD Benicio Orsua UCD Millie Naranjo UCD Audrey Youngblood UCD Tristan McDermott **UCD** Peaches Kulik **UCD** Natalie Schermer UCD Jaylen Joyce-Taplin UCD Myra Emili Sin UCD Kattie Lopez-Jantaella UCD Grace Contrehas UCD Josefina De Melo UCD Eileen Salinas Garcia UCD Ansh Datel UCD Catherine Baldocchi UCD Brandon Fong UCD Isabella Merrera UCD Alexa Baben UCD Francisco Munive UCD Courtney Tai UCD Hannah Ovozco UCD Julia Headley

UCD Andy Ramos UCD Edwin Anica UCD Mihika Deshdande UCD Mahnoor Rizwan UCD Jiya Dhillon UCD Naima Bukhari UCD Charlie Miller UCD Nandini Datta UCD Christina Martinez UCD Lexi Allyson Sario UCD Dessya Delgado **UCD Seneca Patchen** UCD Qirui Yuan UCD Isabella Serna **UCD Nolan Page** UCD Sabrina To UCD Dianne Soliven UCD Jada Henriques UCD Caleb Wu UCD Kendrick Ly UCD Lucas Huang UCD Lucas Huang UCD Isabella Sarissian UCD Celeste Summers UCD Venessa Cuevas UCD Theodore Kayser UCD Marcus Vasanharo UCD Yihan Ren UCD Yasmine Garcia UCD Daniela Zuragoza UCD Humberto Marquez UCD Ramses Marquez UCD Razbin Karuidoli UCD Esmerald Figueroa-Gaspar UCD Quitze Resuerin-plaza UCD Ruby Mendoza **UCD Samuel Steiner** UCD Sara Berman UCD Tia Hoang UCD Robbie Valdes



UCD Jayden Johnson UCD Mohammad Mendahahi UCD Ty Norvell UCD Jayce Bradley UCD Jacob Weller UCD Naseem Faridnia **UCD** Taylor Jones UCD Itzel Mendez Serrano UCD Carolina Garcia Arguellaes UCD Xinrui Wang UCD Trina Vo UCD Joseph Bly **UCD** Kenneth Jerome UCD Isabella Savangsy UCD Miles Jacobsen UCD Summer Black UCD Triston Boyer UCD Fiona McCluskie UCD William Duffield UCD Razaan Abelsalam UCD Saloni Gajola UCD Leslie Lodas UCD Squami Saka-Shenayon UCD Elliott Appleton-Sackett UCD Selena Lu UCD Logan Ley UCD Marlana Hernandez UCD Antonio Arala UCD Jesus Cuevas UCD Yonting Lai UCD Zaira Muro UCD HauiJun Zhang UCD Mikayla Molnar UCD Charleen Bajarano UCD Bertrand Lai **UCD** Rashelle Ramirez-Wurts UCD Bee Smith UCD Angelica Mendez UCD Moonolow De Clarin UCD Anthony Nguyen

UCD David Li UCD Alejandra Ortega UCD Ben Giordano UCD Stephanie Regalado--Chia UCD William Chen UCD Samuel Cervantes UCD Alexander Speidel UCD Saflah Nemr UCD Estrella Lopez Zavala UCD Bella Huang UCD Haiyuan Liu UCD Malak Odehy UCD Arvind Sravanakomar UCD Alexander Renard UCD Alexa Murillo-umanzor UCD Naveed Jones UCD Emma Shigekane-Kraft UCD Ashanti Gonzalez UCD Mario Morales UCD Anndiya Kiburi UCD Rossana Diaz-Vlgil UCD Nathalie Cortes UCD Jocelyn VUrbina-Diaz UCD Nicholas Wallis UCD Ash Henderson UCD Xinyi Cen UCD Nicholas Petersen UCD Julia Gutierrez UCD Gabriela Gatica-Lizola UCD Sabina Sanchez UCD Vanessa Vega UCD Mia Fisher UCD Nathaniel Liu UCD Hannah Cui UCD Natalie Kalman UCD Hayden Gutierrez UCD Elijah Hung UCD Melanie Gordon UCD Ariana Alba UCD Erendiro Medrano



**UCD** James Cruz UCD Alexa Winston UCD Patri Murphy UCD Molly Boyle UCD Sydney Rau-Kim UCD Maya Medina UCD Maxwell Franzblau UCD Helena Demessle UCD Miles Bardin UCD Advait Sanjay UCD Mingjing Zhong UCD Maddox Seibert UCD Parker Clymer-Ergelhart UCD Xinyu Chen UCD Jen Lir Wu UCD Gabriella Rodriguez UCD Joy Klier UCD Alexander Valasco UCD Leora Thendriawan UCD Noel Zheng UCD Nicole Mlaullerena UCD Tiana Rivas UCD Michael Tanaputra UCD Kaci Yip UCD Phoebe Randois UCD Angel Tran **UCD Katherine Ruiz** UCD Alejandro Cabrera UCD Katherine Avila-Diaz UCD Alexa Gomez UCD Angel Preet Thino UCD Artemis Shatalova UCD Wesley Yu UCD Barah Albuhwailah UCD Ava Amos UCD Lily Soucek UCD Ann Carney UCD Ayinor Su UCD Elizabeth Farias-Mendoza UCD Kathy Tran

UCD Jian Da Zhuang UCD Maleeha Lateef UCD Narumi Sekiya UCD Sharick Merchan Gomez UCD Jole Sanchez UCD Sofia Ruelas UCD Edgar Duckworth UCD Gia Truong UCD Chloe Chen UCD Jennifer Gonzales-Calderon UCD Elvis Sandoval UCD Julio Orendain UCD Jonathan Wu UCD Caroline SIlva Snachez UCD Bethany Masum UCD Harashini Anand UCD Gabe Malpas UCD Hanfu Zhang UCD Sarah Lopez UCD Madison Smith UCD Tianen Wu Liu UCD Sarah Siu UCD Ojas Mishra UCD Gemma Ahern UCD Ian Muller UCD Insha Syed UCD August Procter **UCD** Taylor Harrison UCD Tianna Le UCD Franklin Cartagena UCD Logan Kingsland UCD Dena Puam UCD Kaitlyn Menjivar-Esquivel UCD Diego Murguia UCD Alexander Sumner UCD Jack Newman UCD Sam Papp UCD Pedro Zapara **UCD Sarah Barnes** UCD Fernando Vega



UCD Juan Sanchez UCD Sylvie Thompson UCD Ziqing Yu UCD Eva Liu **UCD Seth Esteves** UCD Lavanya Gowthaman UCD Delilah Belerra UCD Melanie Dawameno UCD Heidi Aleman-Jimenez UCD Timothy Corcoran UCD Carmen Jimenez UCD Emelyn Macedo UCD Johnathan Ouest UCD Aarya Kalisetri UCD Sade Adams UCD Emma Eidson UCD Alyssa Bathke UCD Ruby Aguilar UCD Christina Aquila UCD Quynh Le UCD Sofia Soto UCD Stephanie Castro De Leon UCD Sahaar Tukhi UCD Ethan Sainz **UCD** Aethan Santos UCD Jonah Kalmar UCD Gabriela Barriga Tapia UCD Kevin Ramos UCD Jauaan Bhakta UCD Rithika Oumapathy UCD Sabrina Speckman UCD Mikayla Bailey UCD Freva Robinson UCD Brian Dao UCD Kevin Chaires-Manrique UCD Katelyn Kennedy UCD Maryssa Olvera UCD Michelle Espinoza Lopez UCD Khalid Al Ghamdi UCD Jocelyn Back

UCD Gretzel Lopez Garcia UCD Liu Keona UCD Sherwin Li UCD Michelle Nauven UCD Michaela Glover UCD Jasmin Mccollum UCD Diego Rodriguez Ruiz UCD Alexander Hoffman UCD Aditi Anand UCD Leo Berahovich UCD Vanessa Cruz Perez UCD Juny Gow-Smith UCD Brandon Gonzalez Arenos UCD abena osei-bonsu UCD Anthony Santa Ana UCD Taylor Pham UCD Dioso Barbosa UCD Itzel Herrera Mejia UCD Ved Jamadagni UCD Indio Alvardao UCD Dongyang Xuanyuan UCD Angelo Tumonong UCD Ivan Cervantes UCD Stephanie Castanon UCD Warren Jacobson UCD Madison Burns UCD Gilbert Galran UCD Jordan Gaspar UCD Stormi Alejandre UCD Dorado Barrios UCD Larisa Castellanos UCD Stephanie Cabrera UCD Jesse Reason UCD Abbey Connolley UCD Devin Shah UCD Elise Meza UCD Emery Hansa-Beavers UCD Alyssa Riordan UCD Irene Park UCD Addison Gilbert



UCD Annabelle Aarts Coley UCD Iztli Quinones UCD Madeline Lazarus UCD Jalini Kumar UCD Benjamin Thomas UCD Mia Fajardo UCD William Jacobs **UCD** Natalie Dennis UCD Alexandra Hoshino UCD William Gov UCD Emma Sarty UCD Ferdinand Kuanda UCD Jinpeng Li UCD Danni Wang UCD Jon Nathan Alberto UCD Jahi Miller UCD Qi Quan UCD Rohan Rao UCD Niva Gonzales UCD Brian Antczak UCD Brenlyn Green UCD Maximilian Schmidt UCD Timothy Austin UCD Danielle Rasmussen **UCD Wade Dennis UCD William Holley** UCD William Holley **UCD** Cadince Allen **UCD** Ashley Arellanes UCD Henry Xu UCD Banyen Holladay-McCarthy UCD Messina Ponce UCD Liam Giger UCD Jayda Young UCD Sia Puri UCD Andrea Fernandez Cordova UCD Raihana Latifzada UCD Hammad Mehmood **UCD Sanjar Atmar** UCD Jamillah Key

UCD Amy Vazquez UCD Cory Ryan UCD Normay Arriola UCD Evan Feldman UCD Anthony Nguyen UCD Juliana Betanzos UCD Nicholas Aparicio-Arrue UCD Neeharika Janz UCD Aarzoo Patel UCD Dustin Tran UCD Arman Mirza UCD Selena De La Cruz UCD Diana Nguyen UCD Andrea Luna UCD Joshua Ekstrom UCD Joey Lee UCD Diya Murthy UCD Christian Ledesma Villa UCD Norvin Sevilla UCD Koby Guzman UCD Mariana Ortega-Nunez UCD Iselle Alejandra Ponce-Villanueva UCD Freya Welliams UCD Olivia Bella UCD Kent Patey UCD Aura Khare UCD Sofia Wright UCD Sarah Shaw UCD Florence Chnlant UCD Xochitl Ramirez UCD Justine Nguyen UCD Cinthia Majano UCD Emmy Macrae **UCD Kailee Suess** UCD Martin Alvarez UCD Karley Markar UCD Tegan Leong UCD Simone Kane UCD Elsa Cespedes Romano UCD Angelina Phan



UCD Jessica Grimaldo UCD Marissa Galvan **UCD Evalisa Encinas** UCD Bianca Tomat UCD Melani Ruan UCD Milagros Vasquez Morales UCD Mary Cabrera UCD Stella Winn UCD Irie Odom UCD Alejandro Godoy Soria UCD Omar Campos **UCD Raamis Malik** UCD Diego Salgado UCD Jiacheng Wu UCD Summer Woodward UCD Maritza Ortega UCD Shunhua Hsu UCD Tammy Wang UCD Hayden MacDougall UCD Nihal Prabhu UCD Allison Arnott **UCD Michael Tucker** UCD Harjot Gill UCD Emily Villegas UCD Kimberly Gonzalez-Cardenas UCD Monica Nader UCD Joseph Rueff UCD Miranda Jaramillo UCD Victoria Diaz Gonzalez UCD Hailey Gentry **UCD Robert Bowers** UCD Hannah Villanueva UCD Laurence Alizodeh-Fakori UCD Simon Ellison UCD Ryan Taylor UCD Monica Shieh **UCD** Ashley Fenical UCD Tristan Najarro **UCD** Reilee Handlin UCD Eliot Ticer-Wurr

UCD Aarish Adams UCD Xuexuan Liu UCD Curren Millsap UCD Alexandra Gryevstov UCD Jerusalen Castaneda UCD Jason Ward UCD Jason Ward UCD Jiatong Duan UCD Logan Craycraft UCD Sarah Miyamoto UCD Karansher Sidhu UCD Ashley Carroll UCD Ashley Han UCD Vallerie Morones UCD Mandy Situ UCD Katelyn Eproson UCD Kevin Mortin UCD Rogelio Martinez-Lopez UCD Nova Camacho UCD Alexandra Teese UCD Karol Cash-Tapia UCD Jalissa Bautista UCD Ricardo Guzman-Miranda UCD Joshua Puckettt UCD Emily Thai UCD Megan Owen UCD Sandra Xiong UCD Mckenzie Mova UCD Eva Xochitl Barricklow UCD Jane Rosenthal UCD Matthew Friedenthal UCD Noria Hui UCD Madison Kernahan Kenney UCD Emma Schaden UCD Vickie Bach UCD Sydney Zeigler UCD Nicholas Pooley UCD Rudy Navarro **UCD Summer Santich** UCD Jennifer Peng



UCD Justin Esguerra UCD Ruby Hernandez UCD Paris Rai UCD Esmaullah Qarabaghai UCD Anna Burt UCD Prachi Sharma UCD Emily Cuenca UCD Rupneet Mann UCD Sandhya Pfile UCD David Wu UCD Lauren Ramras UCD Matheu Pool UCD Bailey Hoffman UCD Alex Dang UCD Esmeralda Gonzalez UCD Riley Gonzalez UCD Sameer Goswami UCD Ryan Hill UCD Emily Le UCD Zoe Romine **UCD Delaney Holmes** UCD Krishna Ram UCD Donghao Wang UCD Nikole Gin UCD Ifeoluwa Tavo UCD Delfin Kirsch UCD Aracely Ramirez Sanchez UCD Weikai Shao UCD Serena Sargent UCD Brian Le UCD Mickey De La Torre UCD Kevin Duffy UCD Nico Ortega UCD Langston Wu UCD Gabriel Fonstantin **UCD** Jaena Fontillas UCD Lindsay Hum UCD Jacob Reddy UCD Thomas Cordova UCD Laure Devry

UCD Muyang Li UCD Ashley Ramirez UCD Jack Perrin UCD Nitish Ramani UCD Harrison Guo-Albright UCD Charlie Johnston UCD James Luony UCD Zainab Almualem UCD Joshua Wellman UCD Astziri Jimenez UCD Ridge Rivera UCD Gabrielle Pacquette UCD Kamie Lam UCD Adna Banjic UCD Nisha Sahota UCD Haley Hunt UCD Ashlyn Sharma UCD Emiey Cordero UCD Lara Taylor UCD Jane Sossaman UCD Zilin Liu UCD Diego Rimando UCD Isabella Clifton UCD Vivek Handebagh UCD Lein Elbgal UCD Manreet Sidhu UCD Hardy Hernandez UCD Lily Markson UCD Nathan Ngyuen UCD Yuxing Cai UCD Logan Redfern UCD Ria Gangwar UCD Minerva Ghosh UCD Arshee Gill UCD Yixvan Chen UCD Sanriago Hernandez UCD jennoh Rhee UCD Charles Anderson UCD Dalia Escobar UCD Ana Muller



## **UC Berkeley Students**

UCB Eli Bresler UCB Manasaa Meenakshi UCB Sophia Panigrani **UCB Monica Schneck** UCB Sam Grotenstein **UCB** Anais Roatta **UCB** Iglesias UCB Julia Linney UCB Aiden Basilio Herna **UCB Miles Hoogner** UCB Selena Perez **UCB** Ashley Gong UCB Arushi Maheshwar **UCB** Calvin Lee UCB Ashley Puchkova UCB Jenifer Cheng UCB Rika Patricia Pinto **UCB Busk Delacun** UCB Jacob McLure UCB Sia Dihenia UCB Garry Faison UCB Maryam Ghazzali UCB Kyle Nelson UCB Xochitl Montalvo-Macuixtle **UCB** Ingrid Morals UCB Dushanti Patterson UCB Ethan Hersey UCB Harshini Pulivarthi UCB Andrew Guzman **UCB Marissa Ribein** UCB Alexander Crisafulli UCB Gianna Hynson UCB Huan Nguyen UCB Mariah Gutierez **UCB Kyle Cheng** UCB Zara Brandt **UCB** Annie Foo **UCB** Luke Cassiano

UCB Julia Schwichtenberg UCB Vincent Hsu UCB Astrid Nymo-young UCB Cady Winuk UCB Phoebe Shen UCB Sofia Garnica Aguilar **UCB Henry Hayes** UCB Soph Padua UCB Fiona Gaffney UCB Ella Thompson UCB adrian Jacobs UCB Aaron Xu UCB Beatriz Ramirez UCB Esteban Soria UCB Sara Warford-Crowe UCB Anthony Jin UCB Anushka Bhagavathula UCB Noah Sakkour UCB Sarabaesh Srikumar **UCB Hailey Strayer UCB Harrison Andrews** UCB David Cease UCB Lu He UCB Rohan Sontakke **UCB** Tomas Luque UCB Noelani Vernon UCB Melvin Estrada Gonzalez UCB Abdullah Almatrafi **UCB Dwight Flores** UCB Abdulrahman Alsaegh UCB Ayden Reading UCB Ganesh Kalakheti UCB Margo Rebone UCB Maya Rosette UCB Cameron Cox UCB Leo Hong Johnson UCB Milo Mechem-Miller UCB Lesly Contrevas UCB Abby Grace UCB Tiago Eckstein



**UCB** Nika Ziper UCB Kaitlyn Morales **UCB Emily Nguyen** UCB Annie Johng UCB Francis Waligora **UCB** James Bowers UCB Ai Mizokami **UCB** Dominic Bankovitch UCB Maya Shafshak UCB Sophie Johnson UCB natasha Tiwari UCB Ashley Figueroa **UCB** Zitlaly Fuentes **UCB Max Geiger UCB** Olivia Snider UCB Piyusha Kaur UCB Joshua Chen **UCB** Jordan Jones **UCB Vanessa Remsey UCB Mark Picard** UCB Sofia Hernandez UCB Grace Dallarda **UCB Ella Akin UCB** Dylan Clark UCB Yumeng Zhang UCB Antonio Corrales UCB Izzie Zuromski UCB Mariana Lopez **UCB** Mara Partida **UCB** Caspian Campbell **UCB** Alan Morrison UCB Lucia Stankovic **UCB** Jaiden Bareng UCB Katarina Blandon UCB Jordan Coby **UCB** Ammon Obrien UCB Yingzhe Du **UCB** Lena Ramos UCB Nada Ibrahim UCB Athena Bernheim

UCB Kira Holman UCB Ashley Campbell UCB Madison Lee UCB Lauren Yam UCB Eli Leal-Schuman UCB Cara Wong UCB Leon Akhavan UCB Ranma Rovabah UCB Joann Zhang UCB Kai Matera UCB Anastacia Briviesca UCB Karena Rawles UCB Dylan Miller UCB Saidy Reyes-Mazariegos UCB Simran Lakhani UCB Milo Bernini UCB Quentina Simenz UCB Maram Alhomidi UCB Sylvia Wu UCB Bhavya Anand UCB Khari Lester UCB Sophia Limoncelli UCB Mariana Hernandez UCB Ivy Yan UCB Anushka Manuaz UCB Kathy Phan UCB Ziannie Rivera UCB Jack Bunch UCB Hakim Owen UCB Emma Young UCB Sarah Goody UCB Israel Gonzalez UCB Bridget Byrne UCB Ryan Luftman UCB Declan Smith UCB Erica Bennet UCB Yuwei Fong UCB Tristan Cifuentes UCB Ethan Gallucci UCB Charmi Buddaluru



**UCB** Jamie Guitron UCB Cristo Barragan UCB Heidy Gonzalez **UCB** Valeria Jimenez Beltran **UCB** Darian Murillo **UCB Matthew Dacanay UCB Elise Stimson** UCB Alexa Murillo Cuevas UCB Malia Campagna UCB Shkila Movass Aghi UCB Iwalani Martinson UCB Harsh Kumbhat UCB Stacy Kim UCB Victoria Ko UCB Leila Winn **UCB** Marianne Schelvis UCB Karol M Hernandez UCB Yesenia Ochoa UCB Kaela Beltran UCB Iris Mang **UCB Hayden Moelter** UCB Jeremy Benin-Yap **UCB** Tali McPeters UCB Leila Khan UCB Marisol Garibaldi UCB Charlotte Gerner UCB Liliana Vasquez-Herrera UCB Ava Bassirat **UCB** Justin Wong UCB Jesenia Yanez-Hernandez **UCB Gabriel McNulty-Port UCB** Florance Zhang UCB Devon Christensen UCB Salvador Leon Gonzalez UCB Leann Le UCB Celia Botelho UCB Zino Xarios **UCB** Julia Thomson UCB Noa Margalith UCB Missy Jin

UCB Cielo Aguirre UCB Ana Curtis UCB Ethan Cohen UCB Hazel Xie UCB Elise Won UCB Vanessa Castillo UCB Nayeli Glaude **UCB Rory Hinkle** UCB Samuel Brown UCB Erika Sun UCB Amanda Zhang UCB Sarah Forsytne UCB Juliana Mashni UCB Myla Pitzer UCB Katelyn Medina UCB Sophia Ma UCB Eva Abdul-Rahim UCB Grace Zheng UCB Andrea Mateo UCB Chloe Ortiz UCB Hilary Wong UCB Zuniya Zapeta-Huggans UCB Ariela Lara UCB Evan Grant UCB Anahi Araiza UCB Nick Godbehere **UCB** David Jarolimek UCB Dustin Damwyk **UCB** Michela Maher UCB Marcus Wang UCB Sherlyn Lopez UCB Brendi Belasquez UCB Grace-May Hansen UCB Capucine Taglioni UCB Janette Orozco UCB Candace Wong UCB Aubrey Peterson UCB Simon Glaza UCB Shreya Gunasekar UCB Jeremy Ramirez



UCB Liam McEvoy UCB Andrew Qin UCB Makenna Naoe **UCB Maria Olivares** UCB Athina Vrosgou **UCB Beatriz Ramirez** UCB Marissa Cuevas UCB Ethan Escat **UCB Hudson Schuchmann** UCB Emma Nathanson **UCB** Fabian Perez **UCB** Caroline Xian UCB Kimberly Duong UCB Yousef Abubakr UCB Jose Alfredo Salcedo UCB Joyce Vang **UCB** Natalie Guerrero UCB Brandon Clue **UCB** Natalie Greene **UCB** Camilla Fonoberov UCB Faris Khandagii UCB Oscar Olivarez UCB Gil Laderzky **UCB** Callan Mitchell **UCB** Serigne Tonnkara UCB Brayan Chamorro **UCB** Brian Speicher UCB Jonah Wounai UCB Donavan Fanella UCB Norina Xu UCB Milly McKenzie UCB Jaylen Marshall UCB Erika Alfaro **UCB** Dexter Camara **UCB Hannah Cook UCB Kimberly Coleman** UCB Priya Shah-Allen UCB Gobind Thind **UCB** Juan Martinez UCB Alexa Hua

UCB Maia Dimas UCB Lyria Zhu UCB Cristian Ramirez UCB Sanjieh Muehukumarhn UCB Fatima Montanu UCB Arshia Zacgarani UCB Sophia Sebbag **UCB** Tibet Yakut **UCB** Andrea Cervantes UCB Surya Krishnapillai UCB Jay Jorge UCB Lana Chao UCB Leo Nagel UCB Abigail Keller UCB Theodore Lysek UCB Jokunrakjar Chhun **UCB Bella Sonew** UCB Justin Shaw UCB Afton Okwu **UCB Emmeline Clougherty UCB** Chase Envart UCB Alexander Call UCB Sasha Neyra **UCB** Preston Peeler UCB David Cho UCB Lynda Otero UCB Jashanpreet Nagra **UCB Lukas Harris UCB Henry Williams** UCB Lianna Ursua UCB Samuel Gonzalez Morales UCB Kayla Chang UCB Oliviona Nou UCB Tara Yasmin Akin UCB May Thu Lin UCB Luke Pavelchik **UCB** James Mayer UCB Daniel Samony UCB Magali Ramirez UCB Kruna Masic



UCB Ivy Childers-Nuelle **UCB** Charlotte Beckner UCB Daniel Gutierrez **UCB** Jeffrey Lin **UCB Riley Starks UCB** Chance Quarry **UCB** Talal Ayoub UCB Alondra Garcia UCB Jimé Fajardo UCB Riley Keany **UCB Nevaeh Carr** UCB Luca Havnes **UCB Emily Telles UCB Madeleine Duchesne** UCB Haili Skoviak UCB Sara Faiyaz UCB Issac Hwang UCB Siena Buri UCB Primo Pelczynski UCB Ona Aschie **UCB Maya Sofer UCB** Jeremy Dupras UCB Tiffelyn Kurniawan **UCB** Connie Lin UCB Jaden Hocutt UCB Kolby Caban UCB Simon Campbell UCB Samirah Jackson UCB Emily Barcala UCB Ethan Nguyen UCB Imahni King **UCB** Clara Jensen UCB Jason Campbell UCB Leah Cederborg UCB Nivedita Rao Muralidhar **UCB Hannah Hodges UCB Kristen Fu** UCB Stella Manning **UCB** Alexandra Matthews **UCB** Velize King

**UCB** Stephen Park UCB Joanna Bai UCB Dalia Canseco UCB Elaine Pimentel UCB Olivia Lee UCB Tenzin Dechen UCB Cy Khaldi **UCB Eliot Cummings UCB** Rafine Som UCB Satwik Panigrahi **UCB** John Vincent UCB Alexandra McClintock UCB Calvin Carter UCB Gianni Pina UCB Vian Hwang UCB Gustavo Damian Danemann UCB Henry Bei UCB Sriva Vedartham UCB Natalia Sandoval UCB Uchechi Mbakogu UCB Dina Herrera UCB Edora Roeil UCB Finn Finneran UCB Joshua Manduriao UCB Daniella Gutierrez UCB Lizet Cervantes UCB Erin McDonald UCB Zoe Keenan UCB Braelyn Carroll UCB Evan Dean UCB Nicholas Goodin **UCB Edward Pierpont** UCB Massa Coulibaly UCB Ava Povrasgari UCB Declan Fitzgerald UCB Theodore Hibbard **UCB Grace Basom** UCB Lily Wang UCB Vanesa Cruz UCB Alexis Sasser



UCB Briseyda Olivares UCB Sofia Orense UCB Bruce Suwvannasane UCB Hannah Fielder **UCB Evangeline Lim** UCB Tanmay Neema UCB Luca Vicisano UCB Jakob Gundersen **UCB Brooke Laur UCB** Natalie Reel **UCB** Julia Hunt-Davis UCB Saranya Anandakumar **UCB** Daniel Grover UCB Neha Ravikumar UCB Eesha Santosh UCB Sebastian Renteria UCB Isabella Adame UCB Aryan Gupta **UCB Madison Dingee UCB Elena Tambito** UCB Thijmen Dejong UCB Kiara Chapman **UCB** Abigail Lin UCB Adriana Vasquez UCB Audrey Ryder UCB Ailiah Ruthven **UCB** Robert Gao **UCB** Ros Herling **UCB** Annabella Adams **UCB** Jennifer Flores UCB Avi London-Wynne UCB Cate Menotti UCB Aiden Trudeau UCB Ayanna Navarro **UCB** Tyler Lafayette UCB Suhayb Mirza **UCB** Lauren Meull **UCB** Naomi Villescas UCB Bebby Liu UCB Andie Yi

UCB Mia Ochoa UCB Allison Kuan UCB Cole Kellison UCB Danielle Gomez UCB Milo Jhun UCB Anisa Chacon UCB Emma Hernandez UCB Selina Tran UCB Dean Elia UCB Jay Husson UCB Lila Portis UCB Wang Houkun UCB Leah Grossman UCB Lena Pham **UCB** Taylor Wolf UCB Luc Rathbun UCB Sam Clay UCB Gianni Shaw UCB Ava Cooper UCB Britney Doan UCB Maddy Black UCB Kayla Won UCB Jack Connell UCB Stephanie Zavala UCB Isabel Yrungaray **UCB Matthew Corbo** UCB Wesley Ishida **UCB** Ato Aliping UCB Yuma Raux-Moriwaki UCB Edvin C. UCB Francisco Rodriguez UCB Tacy Tran UCB Avery Key **UCB Ellery Benedict** UCB Tatiana Solano **UCB Willow Lewis** UCB Ami Miyoko UCB Addisyn Nebeker UCB Felix Zhang UCB Gina Hua



**UCB** Chelsea Cao **UCB** Dayanara Flores **UCB** Alexandra Fiske UCB Lorissa Zhou **UCB** Siying Chen **UCB** Michael Judson **UCB** Christian Lucas **UCB** Grace Isaac **UCB** Jaylacristene Hall UCB Eedo Isaac Gabbai UCB Artyom Yuzupov UCB Alberto Gomez UCB Madeline jannes **UCB Rosemary Gomes** UCB Marc Tutwiler UCB Genevieve Giotta **UCB** Julius Weisberg UCB DJ Nunley UCB Lynn Nunley UCB Vishnu Rajeen UCB Alondra Castillo UCB Lexi Barrera UCB Sofia Arranaga UCB Jalissa Ontiveros **UCB** Mavrin Ceia UCB Natalie Bravo **UCB Hsinling Yu** UCB Griffin Joseph **UCB** Sabrina Banuelos UCB Dasha Yurkevich UCB Francescano Ravian UCB Karissa Lin UCB Isabella Chiesa **UCB** Ryan Little **UCB** Elizabeth Varghese UCB Lola Ravenel **UCB** Clara Tae UCB Kelly Loc UCB junn brooms UCB karly jones

UCB john shaw UCB christian figueroa UCB sheeva pham UCB blake palmer UCB sophia durand UCB alex diaz UCB valeria velazquez UCB ethan liu UCB amver castillo UCB diego pineda UCB Hannah kleiger UCB lucia greenland UCB esha banerjee UCB tiarra wu UCB sadie greenberg UCB Joyce Hu UCB Ben Waldher UCB Sophie Shumilov UCB Isabelle Huxley UCB Rowan Fitzgerald UCB Takaki Ito UCB Lola Herry UCB Elizabeth Hung UCB Marissa Cuevas UCB Emilio Mendoza-Barda UCB Amelia Khor UCB Joselene Lafontant **UCB Matthew Lee** UCB Julian Rayford UCB Leandro Lopez **UCB Sarah Arcelo** UCB Charlotte Zhang UCB Esbeidy Camos UCB Angelina Moreno UCB aidan stecher UCB anna mcgarry UCB landon gerry UCB oluwatamilore balogun UCB Kei Miyanishi UCB Sienna Shille



## **UC Santa Cruz Students**

**UCB** Sihan Cheng UCB Nathan Mills **UCB Jing Mingqiu UCB Ellie Choi UCB** Chantell Tapia **UCB** Ray Williams **UCB** Daniela Adler UCB Cindy Xin UCB Tara Kumar UCB Mariel Zeltzer UCB Harmonia Kim **UCB Sebastian Betts** UCB Heidi Garcilazo UCB Satvika Iyer UCB Pahel Tandel UCB Nataliah Cornejo-Ayers UCB Teresa Huang **UCB** Olivia Bennett **UCB** Paris Carr UCB Alyssa Zlaket UCB Victoria Phyra UCB max hepperlin UCB Betsabe Acosta Ramos **UCB Audrey Pollack** 

UCSC Yudi Feng UCSC Benjamin A UCSC Emily Yee UCSC Lila Owen UCSC Liam Treat UCSC Sujin Lee UCSC Yunan Wang UCSC Kendra Knieger **UCSC Felix Boulton** UCSC Lewis Thompson **UCSC William Bulfin UCSC Mara Mesic** UCSC Sangwon Hyun UCSC Aaja Ouellette **UCSC Gabriel Specht** UCSC Aidan Kim UCSC Kara Frances UCSC Lou Acevedo UCSC Selma Snagic UCSC Stephen Rainbury UCSC Travis Fung UCSC Marco Torre UCSC Diana Zhu UCSC Liam Seidenglanz UCSC Samantha Candelaria **UCSC** Isalel Waste UCSC Farihu Letel UCSC Celestina Calero UCSC Alice Gerchanousky UCSC Shoto Morosaki UCSC Jaime Maillard UCSC Rhayu Hu UCSC Kane Rosbough UCSC Serena Marchesi UCSC Sophia Robinette UCSC Gabriel Wyatt UCSC Matthew Savage UCSC Naomi Mhamunkar



UCSC Lam Cardana UCSC Owen Geer **UCSC** Aaron Jeffries UCSC Ignacio Wallington UCSC Malachi Nguyen **UCSC** Jordan Forman **UCSC Ahson Momin** UCSC Jacob Taranayo UCSC Legend Mall UCSC Joshua Wing UCSC Sora Feeney UCSC Lucy Gong UCSC Katelyn Duran UCSC Samantha Montejano UCSC Muhammad Raz **UCSC** Victoria Rimmey **UCSC** Arkhur Vasseur UCSC Jennifer Valencia **UCSC Luna Shaw** UCSC Roxana Rodriguez UCSC Sam Benarron UCSC Kylie DeAlba **UCSC Drake Griffin UCSC Yael Gutierrez** UCSC laweku Mensan UCSC ninsune yang UCSC Kelly Leighton UCSC Mia Yee UCSC Max Mondragon **UCSC Emily Gomez** UCSC Vday Patel UCSC Tewodros Berry UCSC Parisa Oftadeh UCSC Monav Choudhary **UCSC** Paulo Conta UCSC Nicholas Wadsworth **UCSC Riley Gervans** UCSC Tanmay Garg **UCSC Mayte Flores** UCSC Matthew Hamilton

UCSC Sofia Lindsay UCSC Zaeem Niazi UCSC Dannica Zamora UCSC Audrey Eldredge UCSC Myra Pittman UCSC Emily Smith UCSC Limar Gad UCSC Jolea Moes **UCSC Rachel Tanis** UCSC Anna Owyoung UCSC Sana Rao UCSC Jaslyn Klein UCSC Anushri Das UCSC Natalie Clifford UCSC Elle De Lyons UCSC Selia Martinez **UCSC Jessica Soto** UCSC Claire Galbo UCSC Zoe Mccall **UCSC Amelie Laser** UCSC Quinn Bartsch UCSC Ethan Rudy UCSC Nishad Chavan UCSC Xavier Grow UCSC Srishta Hazra UCSC Chris Garcia **UCSC** Isaiah Jamerson UCSC Javier Santos UCSC Gavin Turner UCSC Chris Lam UCSC Christophe Moll UCSC Yiting Lin **UCSC Matthew Barcenas** UCSC Adam Enriquez UCSC Skye Dameron UCSC Erin Eagleson UCSC Lauren Fraser UCSC Zachary Lyne **UCSC Logan Wells** UCSC Michael Magsino



UCSC Leo Santo Battaglia UCSC Margot Anne Katzman-Tranah UCSC Claude Kaplow-Healy UCSC Tewodros Kasa Berry UCSC Gwnwvieve Rene Barton-Mattos UCSC Alex Ryan Castilla UCSC Kayla Mihyun Geddis UCSC Natalia Anais Cornejo UCSC Ayanna Mays **UCSC Jennifer Guadalupe Flores** UCSC Tatum Phyllis Darlington UCSC Bianca Noemi Haro Galvan UCSC Osvaldo Delgado UCSC Amra Sirak Brook UCSC Yvette Kadi Avugwi UCSC Serene Su UCSC Tuesday Stern UCSC Nicholas Christopher Timbers UCSC Quincy Ambrose Strange UCSC Ari Kai Aarons UCSC Mateo Monteiro **UCSC Ketter Kruse UCSC Carly Pavlin UCSC Shannon Wiltshire UCSC Rylee Birtia** UCSC Piper Eglim **UCSC Sean Leehane UCSC** Catherine Jones UCSC Samantha Andrade UCSC Anna Pitkin UCSC Nelson Li UCSC Deep Sekhon UCSC Alexis Gold UCSC Sarah Qazi UCSC Maddy Arnold UCSC Fia Campos Layne UCSC Ayla Baptiste **UCSC Daniel Ward UCSC Laila Cisneros UCSC Claudia Gutierrez** 

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UCSC Faran Ahmad UCSC Oskar Brady **UCSC** Jose Fausto UCSC Jasmine Maung UCSC Joanna Torralba UCSC Natalie Pile UCSC Zomaya Boggeri UCSC Lawrence Wong **UCSC Finn Sparlowe** UCSC Kian Hamzei UCSC Sharad Luna UCSC Lucille Shakman UCSC Jocelyn Starr UCSC Angelica Matehuala UCSC Sofia Lizaranzu UCSC Matthew Fusscas **UCSC Carter Bostwick** UCSC Aidan Meek UCSC Simrit Sekhon **UCSC** Thomas Milner **UCSC** Justin Kuo UCSC Kylah Camel UCSC Carlos Menjivar UCSC Jasper Lusson **UCSC Justice Moore** UCSC Basma Almandil UCSC Liam Rosakranse **UCSC Meryt Roantree UCSC Jack Farris** UCSC Lucas Mccann UCSC Crystal Fan UCSC Lucy Reese **UCSC** Ivar Flores UCSC Hailie Lopez UCSC Lydia Cayer UCSC Finn Thwaite Turunc **UCSC** Leilah Hodges UCSC Matisse Marguez **UCSC Feem Niak** UCSC Kasandra Bui



UCSC Joseph Dimarco UCSC Andrew Collazo UCSC Alexander Yu UCSC Sahil Chada **UCSC** Veronica Houghton UCSC Bella Pinzini **UCSC Reina Sanchez** UCSC Guadalupe Aguilar UCSC Grace Winkelman UCSC Ryan Shantz **UCSC** Avalon Neal **UCSC Fern Chambers UCSC Ananya Patel** UCSC Ailany Rodriguez UCSC Abigail Thao UCSC Linda Quintanilla UCSC Jacob Abraham UCSC Kavin Suresh Kumar UCSC Ian Hudwut UCSC Jocelyn Gutierrez UCSC Savannah Strongman **UCSC Saanvi Pathare UCSC** Ramon Villarreal **UCSC Baron Egaran** UCSC Kirsten De Guzman UCSC Cesar Gerardo Hernandez Espinoza UCSC Shavna Das **UCSC Naomi Jimenez** UCSC Jessica Zhen UCSC Milana Janabayeva UCSC Kailey Manzo **UCSC Ruben Camarena** UCSC Salvador Zavala UCSC Angela Jimenez **UCSC Anthony Furman** UCSC Maya Diaz UCSC Tommy Vu UCSC Kai Sarti Guerrero **UCSC Katherine Velasquez** UCSC Archisha Akinchan

UCSC Tselha Khando UCSC Cameron Kelly UCSC Maggie Spalding UCSC Vivian Johnson UCSC Bella Velasquez UCSC Angel Villasenor **UCSC Mackenzie Hespelt UCSC Charles Lesser UCSC Jasmin Torres** UCSC Max Mondragon UCSC Emma Kayne UCSC Kartikeya Kumaria UCSC Trey Guzman **UCSC Kaiden Compton** UCSC Fatima Alvarado UCSC Katrina Bui **UCSC Sahil Ghatora** UCSC Jimena Natera UCSC Abril Saldivar UCSC Zoe Dufner **UCSC** Trevor Keller UCSC Sean Lydon UCSC Nathasya Hardijanto UCSC Hyab Isayas UCSC Rune Norderhaug UCSC Consuelo Mendoza **UCSC Vishal Sajeev** UCSC Caeleb Cooley **UCSC Abel Garcia** UCSC Carly Iversen UCSC Quan Doan UCSC Isaac Blanco UCSC Ethan Huynh UCSC Jasmine Chau UCSC Sam Poulton UCSC Maxwell Guerrero UCSC Ginger Williamson **UCSC** Josephine Pottier **UCSC Rachel Wright UCSC Christopher Kiess** 



UCSC Kai Westergaard UCSC Sophie Zenn UCSC Nyx Ford UCSC Ella Montalbo **UCSC Cesar Cuevas UCSC** Atticus Drake UCSC Odalys Martinez UCSC Shreya Sil UCSC Ava Kuhn **UCSC Britney Johnson UCSC Annamarie Chavez** UCSC Vincent Chau UCSC Jayla Ducre UCSC Shivank Virdi UCSC Mckenna Kolarik UCSC Arnav Jaykumar **UCSC Sienna Williams** UCSC Victoria Vallin UCSC Kaden Calder **UCSC Manuel Vasquez** UCSC Allison Labucay **UCSC Mauricio Sierra** UCSC Aneesha Sharma UCSC Michael Lieu UCSC Stella Totland UCSC Jacqie Gordon UCSC Alejandra Huizar UCSC Nareck Havluciyan UCSC Videh Jain UCSC Valeria Navarro **UCSC King Barretto** UCSC Madison Silva UCSC Alan Beltran UCSC Emilio Mendoza UCSC Toranosuke Matsuda UCSC Jessica Davis **UCSC** Averey Conklin UCSC Karissa McDowell **UCSC Evan Evans** UCSC Zaira Gonzalez

UCSC Tyler Nagaguchi UCSC Gianna Roza **UCSC Rachel Benavento** UCSC Cesar Sanchez Padilla UCSC Vinoth Gopikrishnan UCSC Lucas Peterson UCSC Ezra Hurst **UCSC** Aylien Garcia **UCSC Melanie Hernandez** UCSC Sierra Nelson UCSC Roger Aquilar UCSC Kaysie Perez UCSC Andrea Vazquez UCSC Kevin Leach UCSC Roisin McElarney UCSC Laira Sequeida **UCSC Delaynie Martin** UCSC Emily Swint UCSC Chia-en Chiang UCSC Ani Villalba UCSC Navaneeth Dontuboyina UCSC Tarun Yendrapati **UCSC Kiara Amaya** UCSC Estefany Morales Duarte **UCSC** Pacific Porter **UCSC** Paisley Porter UCSC Enzo Sapojnikoff UCSC Alexis Raymundo UCSC Shayda Roshdieh UCSC Jack Powell UCSC Jonas Nykamp UCSC Animesh Andhare **UCSC Madison Enochs** UCSC Montana Sanchez UCSC Lokesh Kodam UCSC Noah Sherod UCSC Angelo Franso **UCSC Ella Aquilino** UCSC Kennedy Thomas UCSC Aidan Thomaes



UCSC Melody Stanger **UCSC Josephine Prendergast UCSC Jackson Gamble** UCSC Josue Aguilar Mejia **UCSC Bennett Sherman** UCSC Anna Mauer UCSC Madeline Ramsdell UCSC Trianna Jordan UCSC Charlise Gonzalez UCSC Ashton Adams **UCSC Claire Rite** UCSC Dayra Ruiz Corrales **UCSC Avery Page** UCSC Brooke Moorhead UCSC Jonas Nyramp UCSC Monica Ruiz UCSC Jacob Montiel UCSC Melody Williams UCSC Katherine Karanicolas **UCSC** Arleth Lobato UCSC Celeste Smith UCSC Jared Nussbaum **UCSC Saira Hamid** UCSC Sophia Coffing UCSC Reagan Shonkwiler UCSC Julia Aldaz UCSC Richard Duarte UCSC Isaiah Castro UCSC April Ibarra UCSC Erin Lee **UCSC Clint Xavier UCSC** Valerie Yelluas **UCSC Michaela Marion UCSC Lea Schott** UCSC Shawn Mechery UCSC Davi Goldman **UCSC Martha Martin UCSC Ruby Smylie** UCSC Anna Fedorova UCSC Carli Jensen

UCSC Paola Embarcadero UCSC Jimena Alcantar UCSC Isabel Choi UCSC Joel Lee UCSC Sunny Gong UCSC Stephanie Morrish UCSC Sathya Kumaraguru UCSC Helen Yao UCSC Jonatan Shatzmiller UCSC Grayson Schabert UCSC Kai Skoloff UCSC Luke Gerthoffer UCSC Gongjue Sun UCSC Jiya Sawarkar UCSC Tarun Chandra Nagaraju UCSC Avery Sheu **UCSC MJ Fernandes** UCSC Olivia Zuni Ruth UCSC Beth Macdougall **UCSC** Joleen Ruiz **UCSC Jackie Sanchez** UCSC Christina Panoff UCSC Rithychey Yun UCSC Bryan Badway UCSC David Caamano UCSC Kushagra Paliwal UCSC Bela Tanner UCSC Sebastian Guerra UCSC Irving Morelos UCSC Pranav Mulakala UCSC Julia Demopoulos UCSC Rebekah Westgate UCSC Saleh Khan **UCSC** Alex Aguilar UCSC Diego Gutierrez **UCSC Michael Tobin UCSC Alexander Freeman** UCSC Gabriel Flamerich UCSC Mia Lopez **UCSC Rachel Tanis** 



UCSC Madison Navarro UCSC Dale Clark UCSC Joceline Ortega-Garcia UCSC Joseph Coulson UCSC Anthony Monday UCSC Enrique Paz Gonzalez UCSC Nicolas Vasquez-Ochoa UCSC Pihu Sharma UCSC Edgar Robles UCSC Ella Lehavi **UCSC William Safranek** UCSC Natalya Bautista UCSC Alexander Kohr **UCSC Maraea Hicks** UCSC Michael Arroyo UCSC Sameem Wani **UCSC Marisela Puentes** UCSC Mateo Frey UCSC Margo Melgoza **UCSC Jack Mason UCSC** Philip Chien UCSC Aidan Ion UCSC Madeline Trilling UCSC Sofi Paulk UCSC Rvder Johnson UCSC Shelby McCleary **UCSC Robin Harned** UCSC Emily Clayson UCSC Skye Hammond UCSC lain Dow **UCSC Andres Ricardez** UCSC Aditya Kanteti **UCSC Celeste Barrett UCSC Gabe Martinez** UCSC Kamalika De UCSC Julian Swensen UCSC Lou Acevedo UCSC Jakob Ball UCSC Audra Kinser UCSC Alex Kanyuka

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UCSC Kim Vachoz UCSC Richard Flintham **UCSC Chantal Webber** UCSC Jose Ruano UCSC Arthur Webber Flintham UCSC Hannah Magee UCSC Bohdan Hughes UCSC Iris Khatra UCSC Jonah Ryan UCSC April Zilber **UCSC** Peyton Stringer UCSC Hannah Benveniste UCSC Mia Gold Collins UCSC Colin Posat UCSC Emily Reigh UCSC Diego Carranco UCSC Jacob Gillbert UCSC Amanda Archer **UCSC Nancy Ortiz** UCSC Roxanna Villalobos **UCSC Ryan Paragas** UCSC Nigel Ruz



## **UC Santa Barbara Students**

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UCSB Zurisaray Segundo UCSB Ada Albright UCSB Isabella Buelna UCSB Maya Rivera **UCSB** Greg Icoutires UCSB Myla Igoe UCSB Jimmy Mattaden UCSB Muskaan Schievink **UCSB Malea Braswell** UCSB Amaya Davis UCSB Audrey Juneman UCSB Katherine Jacobson UCSB Abril Carpio **UCSB Selene Cervantes UCSB** Natalie Richards UCSB Paulina Guijosa UCSB Kavya Thiagarajan UCSB Zohar Dvory UCSB Carmen Kang UCSB Stephanie Coghlan UCSB Maya Lee UCSB Claire Moody UCSB Anthony UCSB Fernanda Perez UCSB Olivia Jonsson UCSB Yasmin Henderson UCSB Diana Ruiz **UCSB Margaret O'Brien** UCSB Cierra Lujan **UCSB** Kate Saxea UCSB Nathan Nguyen UCSB Jin Kim UCSB Kathryn Chan UCSB Arielle Volfre Zaydenman UCSB Vanessa Castro **UCSB Emilie Carrere** UCSB Voang? Dang UCSB Annika Damstedt UCSB Nikki Dorostkar UCSB Diego Navarro



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UCSB Hasvita Obulapuram UCSB William Gan UCSB Madeline Madrid Chavez UCSB Sierra Wilson UCSB Katherine Le UCSB Amalia Motomura UCSB Ekam Madra UCSB Andrew Dunham **UCSB Sarah Walker** UCSB Maximo Perez UCSB Emilio Ozemann UCSB Isabella Farias UCSB Eric Morgan UCSB Kevin Lucio UCSB Miranda Guzman-Shrake UCSB Christopher Garcia **UCSB** Christopher Garcia UCSB Christopher Garcia UCSB Alicia Rangel UCSB Anna Moncrieff UCSB Sarasvati Satyanarayana UCSB Diego Ledezma Salvador UCSB Caroline Muller UCSB Sophia Grabher UCSB Kiran Khagan UCSB Sophia Berger **UCSB** Anna Rowe UCSB Willow Shaffer UCSB Olivia Washecka UCSB Laura Ballard-Arellan **UCSB** Yancy Matthew **UCSB Jameson D'Amico** UCSB Anusha Sood UCSB Miles Hoang UCSB Isa Soto UCSB Sadie Pena UCSB Koa Papandrew UCSB Angelee Araujo UCSB Jingyi Huang UCSB Logan Mcclosky



UCSB Mckay Harris UCSB Xiaohui Wu **UCSB Lilly Bennett UCSB** Julia Gibbons UCSB Cristela Cohen **UCSB Skyler Lee UCSB** Taylor Cusimano UCSB Ernesto Lopez Arroyo UCSB Alina Ashby UCSB Timothy Hager **UCSB** Chloe Norton UCSB Lizbeth Moreno UCSB Leo Harjanto UCSB Nick DeFranchi UCSB Nick DeFranchi **UCSB William Mccann** UCSB Oleksandra Nikanova UCSB Estrella Cabrera **UCSB Emily Dinn** UCSB Sophia Aguilar **UCSB** Gerianne Wong **UCSB** Jewel Sutter UCSB Augrim Hoysal UCSB Mariah Vaiza UCSB Josephine Yi UCSB Genevieve Heal **UCSB** Olivia Chen UCSB Abigail Sainsbury **UCSB** Justin Ealand **UCSB** Ashley Corleto UCSB Mina Nazari **UCSB Lucas Sun** UCSB Django Barnett UCSB Dylan Pollard UCSB Alex Ostergaard UCSB Daniel Duggar **UCSB Madison Mohun UCSB** Francisco Duarte UCSB Maya Indelicato **UCSB** Yanie Apostol

**UCSB Sofia Arias** UCSB Mackenzie Raffety UCSB Gabriella Hogan UCSB Aidan White UCSB Kaleigha Ferguson UCSB Taralynn Kang UCSB Oleta Jamieson **UCSB Elias Veran** UCSB Stevens Ordanez UCSB Naseabai Jahangard **UCSB Hassan Hendrix** UCSB Serenity Llorin UCSB James Chong UCSB Josue Olachea UCSB Naia Smithley UCSB Elliana Jennings UCSB Avani Ryan UCSB Shahar Segal UCSB Manuel Ortiz UCSB Isabella Brillantes UCSB Emily Luna UCSB Ashton Molendyk **UCSB** Isabelle Alvarez UCSB Derev Kalaygi UCSB Kassandra Rodriguez UCSB Alex Argov UCSB Joelle Wesely UCSB Lily Nunn UCSB Anna Vayser UCSB Laird Olsen UCSB Matthew Etheridge UCSB Julio Bermudez UCSB Mauricio Garcia UCSB Angela Velasquez UCSB Jey Jerue UCSB Finn Harrlman **UCSB** Christine Haynes UCSB Justin Pendrey UCSB Ann Dong UCSB Masayo Maohii



UCSB Amy Nguyen UCSB Adrian Gallardo **UCSB** Irina Nguyen **UCSB** Jasmin Viveros UCSB Alex Ewing **UCSB** Wiley Carver **UCSB Elliot Simandle** UCSB Roger Aldaco **UCSB Shea Ellingson** UCSB Trinity Pedroza **UCSB Kaiya Hayes** UCSB Faith Johnson **UCSB Jamall Brown** UCSB Hazel McIntosh UCSB Julianna Alas-Castillo UCSB Claire Tilley **UCSB** Theo Prestwich UCSB Josue Juarez Carreno UCSB David Cheung **UCSB Kai Barker** UCSB Katelyn Saxen **UCSB** Liam Gilson UCSB Tazzy Imbabi **UCSB** Riley Melton **UCSB** Marie Ndulue UCSB Ricardo Santana **UCSB** Lauryn Cummins UCSB Kylie Espinoza **UCSB** Charles Kulick UCSB Christina Li **UCSB** Jackie Ramos **UCSB** Juan Munoz UCSB Griffin Soelberg UCSB Sophie Serruya **UCSB** Andrew Hobbs UCSB Analaura Pizano Guzman **UCSB Ellie Berlin** UCSB Hailley Lyong UCSB Owen Souza UCSB Anish Ehowdary

UCSB Nesella Yashawsi Venkat UCSB Mia Ogi UCSB Sydney Sher UCSB Jocelyn Aguilar UCSB Ren Zdrall UCSB Aubrey Gilman UCSB Leripse Ruiz UCSB Rushabh Taneja UCSB Dora Ung UCSB Meadows Stevens UCSB Charlotte Thorton UCSB Charles Faurot UCSB Andersen Hoffmeyer UCSB Yuxuan Li UCSB Jayle Luu UCSB Austin Gessini UCSB Akhila Johny UCSB Buauya Owiyal UCSB Maria Ratu UCSB Glanna Salazar UCSB Itai Solomon UCSB Lucas Alvarez UCSB Catrina Sada **UCSB Benjamin Ammer UCSB** Lindamarie Herrera UCSB Nina Padar UCSB Brenda Delgado UCSB Yaati Sureka UCSB Indhu Chandra UCSB Kaavya Saini **UCSB Sarah Canton** UCSB Alexander Romero **UCSB** Paola Campos



## **UCLA Students**

UCLA Alice Alverez UCLA Candy Arnold UCLA Defne Tanyildiz **UCLA Desirel Plascencia** UCLA Emma Riedel UCLA Julianne Khoury UCLA Karla Martinez UCLA Katy Nicholas UCLA Mitch De Guzman UCLA Monique Gomez UCLA Natalia Hernandez UCLA Neo Sola UCLA Tianjiao Zhang UCLA Alina Marinshar UCLA Genelle Abella UCLA Hatif Syed UCLA Kevin Molkara **UCLA Noah Scheets** UCLA Srivatsan Balaji UCLA Thuy Nguyen UCLA Aneesa Holiday **UCLA Gabriel Schroer UCLA Joanna Carcinas** UCLA Lainey Keefauver UCLA Mustafa Agha UCLA Sylvia Ansley UCLA Colum Slattery UCLA Joshua Villanova UCLA Savannah Zhang UCLA Aly Yang UCLA Diandian Shi UCLA Priya Ravi UCLA Alejandra Flores UCLA Ashanti Starks UCLA Allison Kinsey UCLA Arya Darvish **UCLA Camila Barajas** UCLA Eduardo Toscano

UCLA Kaydee Garcia UCLA Sophie Zhou UCLA Tiffany Arellano UCLA Trinity Rivero UCLA Anna Lopez UCLA matt Samarghachian UCLA Sascha Nikolai UCLA Madison Fuji **UCLA Sofia Peters** UCLA Benjamin Moon UCLA Coco Dobard UCLA Jackson Bakey UCLA Megan bushman UCLA Nax Mendiola UCLA Peter Hernandez UCLA POaula Danemann soto UCLA Rosalyn Sotelo UCLA Mehetabel Frimpong UCLA Noelle Kimotsuki UCLA Risa Sun UCLA Julissa Mendoza UCLA elyssa tapia **UCLA Jasmine Aner** UCLA walker nelson UCLA Caleb Uirkstis UCLA Kira Sarriegui-Simon UCLA Shea Townley UCLA Christa Shibayama UCLA Kaitlyn McKibben UCLA Marie Zhang UCLA Lucas Goulart UCLA diamond exactlytramkim UCLA Isabella Castillo UCLA Abdoul Samad Bholat UCLA Casey Seon UCLA Leslie Nega Acosta UCLA Maggie Benson UCLA Maya Allen UCLA Roza Papikyan UCLA Keegan Boyes



UCLA Marielle Cruz UCLA Maya Ceia **UCLA Albion Bodle** UCLA Samantha Miranda UCLA Suhas yarra UCLA Lily Rivas UCLA Jacky Luo **UCLA Simone Horowitz** UCLA Meith Naularha UCLA Yugi Feng UCLA kayla zanelli **UCLA Miguel Palma** UCLA William J Smith III UCLA Woyu Wang UCLA Gabrielle White UCLA Jingjie Lin UCLA Maya Gheewala UCLA Isabelle Greunke UCLA Mia Burzminski UCLA Amy Chen UCLA Yue Gu UCLA Joy Jweid UCLA Ryan Dam UCLA Nicolas Lee UCLA Shaolin Lee UCLA Hudson Fox **UCLA Alex Clayton** UCLA claire reinke UCLA Daisy Garcia UCLA ella tierney UCLA Jordyn Nishimara UCLA katherine jobrumbaugh UCLA Logan Giralt de Spelder UCLA Vedant Janapaty **UCLA Viva Corless** UCLA Navreet Ghumman **UCLA Brett Berndt** UCLA Isabella Guerrero **UCLA Luke Schwuchow** UCLA Elena Griffiths

UCLA Gwenyth Nickolenko UCLA Kanak Modi UCLA Maximillian Bohannan UCLA Sydney Olofe UCLA Kristy Yfunn UCLA Reshman Amin UCLA Christopher Sinanian UCLA Jaden Nguyen UCLA Sofia Riazi UCLA Isabella Guerra UCLA michael jarcia UCLA Alexander Hoffman UCLA Britney Castanedacama UCLA Hina Ricardo UCLA Marcella Marcelino UCLA Samantha Brown UCLA Sharada Gopalakrishnan UCLA Virgil Ortiz UCLA Alyssa Caraenas UCLA Charlie Schmidt **UCLA Lauren Hutchings** UCLA Satviki Chaturvedi UCLA Tallis Arnold UCLA Tyler Tautai **UCLA Andrew** UCLA Mingyu Lee UCLA Mariam Saab UCLA alix ospina UCLA An-di Duong UCLA Andrea Adams UCLA ansley riddell UCLA Carolyn Preston UCLA david pilik **UCLA Grace Crabtree** UCLA greta gillmor UCLA Haris Waleed Nadeem UCLA India Bowles UCLA Jesille Jackson UCLA Jillian Capul UCLA Joselyn nateras



UCLA keaton flynn UCLA laura truono UCLA Lin Yamamoto UCLA Maribella Kase UCLA Molly Gurland UCLA Natasha Cosgrove UCLA Roman Aguiree UCLA ruby lopez UCLA Ryan Lee UCLA Sheraz Fayyaz **UCLA Soel Solis** UCLA Vicky Lin UCLA victor kryshak UCLA Vyas Koduvayur UCLA Zhengwo Han UCLA El Yang UCLA Genavieve Berti UCLA Tucker Park UCLA Adina Givens UCLA Alexandra Sanabria UCLA Allyson Kang UCLA Alondra Carrillo UCLA Antonella Del Toro UCLA Bella Witt UCLA benjamin sperow UCLA Brinn Wallim UCLA Cathy Chuong **UCLA Chris Bailey** UCLA Crystal Mendoza **UCLA Emily Wiggins** UCLA Emma Ashworth UCLA emmoni preciado UCLA Fatima Muniz UCLA Geonu Park **UCLA George Contreras** UCLA Giavanna Foster UCLA Hannah Finkbeiner UCLA Hazel Veteto UCLA Isabella Reina UCLA izaiah anaya

UCLA Jacqueline Ambriz UCLA Jaiden Gengo UCLA Jane Shohdy UCLA jennifer garibay UCLA Jocelyn Molina UCLA Julianna Wolf UCLA Kai Simonsen UCLA Kate Kresser UCLA Kenia Hidalgo UCLA Lance Stroud UCLA Lucia Yanez UCLA Luke Graham UCLA makenna grewal UCLA Marbella Zelayu UCLA Mario Sanchez UCLA Mariya Stehnitska UCLA mathew kc-jordan UCLA Mayar Totounji UCLA Megan Palmer UCLA Meilin Huang UCLA Mikaila Schmellenberg UCLA Oliver Garcia UCLA Raiki Nishida UCLA Rebecca Robles Ramirez UCLA Sabrina Robles UCLA Yoojin Lee **UCLA Zion Paulino** UCLA Ana Martinez UCLA Anette Magno **UCLA Douglas Vermeer** UCLA Dycan Mayhue UCLA Elizabeth Shay UCLA Emma Teng UCLA Gary Voigt UCLA Iris Wang UCLA Iris Arias UCLA Jaidyn McKinnie UCLA Jasmin Portillo UCLA Jimena Lora UCLA Jonathan Choi



UCLA Kayla Fullerton UCLA Lulu Sigouin UCLA Oliver Lawrence UCLA Petunia Rizo **UCLA Samuel Torres** UCLA Abhimanyu Borthakur **UCLA Alexander Clare** UCLA Ava Tam UCLA Grace Shoemaker UCLA Grace Driscoll **UCLA Hunter Akins** UCLA Jeronimo Martine UCLA Karesly Corona UCLA Kathleen Vo UCLA Mariko Hashimoto UCLA Max Mendoza UCLA Mimi Xue UCLA Peter Laurin **UCLA Riley Jackson** UCLA Shania Chelsea Mancol UCLA Theodore Young UCLA Timothy Pring UCLA Uma Ram UCLA Maximilian Kremser UCLA Amira Salazar UCLA Anastasia Delance UCLA Brianna Yi **UCLA Charlie Kratus** UCLA Christian Huang **UCLA Daniela Rios** UCLA Deisy Garcia UCLA Divya Rao UCLA Karina Wong UCLA Kaylee McAllister **UCLA Lily Haylett** UCLA Lorena Aguilar UCLA Mariam Baghdasarian UCLA Mia Nitsa Hermosillo **UCLA Natalie Han UCLA Nicholen Vicencio** 

UCLA Nicolette Geoola UCLA Nikki Akhtari UCLA Pilar Taylor UCLA Ricardo De La Cruz UCLA Stephen Ochoa UCLA Zhou Zijun UCLA Alexandra Rios UCLA B'Elanna Vela UCLA Bradley Raveh UCLA Daniel Dominguez UCLA David Xu UCLA Dylan Zov-Schupp UCLA Jenna Cameron **UCLA Jennifer Cervantes** UCLA Joelle Ngai UCLA Joshua Odiase **UCLA Karina Ramirez** UCLA Melissa Villanueva UCLA Michael Cano UCLA Rosa Olmedo UCLA Ada Jack UCLA Addison Cross UCLA Adella Kraski UCLA alexander klauss UCLA Ben Padan UCLA Bianca Higa UCLA Bulky Smith UCLA Darcy Wawy UCLA Dustin Frye UCLA Emily munoz UCLA Emily Perez UCLA Gabrielle Trevino UCLA Jade Blair UCLA jeehynn hwang UCLA Mason Ng UCLA Natalie Kevorkian UCLA raul Aguilera UCLA Sofiya Buchko UCLA yuna song UCLA Zach Borazyani



**UCLA Aaron Tan** UCLA Alana Smith UCLA Alana Milanese UCLA Alexa Medina UCLA Andy Alcazar UCLA Anoushka Bhat UCLA Audrey Bizzle UCLA Ava Thao UCLA Ayesha Syed UCLA Ayla Saruhan UCLA Charlotte Yao UCLA Claire Ji UCLA Daniel Gutierez UCLA Denise Chavez **UCLA Grace Timan** UCLA Leslie Martinez UCLA Lesly Ramirez UCLA Luis Ramirez UCLA Madison Mcintyre UCLA Marlin Bradley UCLA Natalie Li UCLA Nina Reino UCLA Owen Penry **UCLA Ria Sribar** UCLA Rosario Castillo-Rol UCLA Sarah Khan UCLA Sophia Dufour UCLA Zhen Wang UCLA Zoe Klein UCLA Akemi Webster **UCLA Alice Chiang** UCLA Alicia Valinski UCLA Aran Denis **UCLA Armando Solares** UCLA Artemis Yang UCLA Avyay Toprani UCLA Baljot Randhawa UCLA Benjamin Hudnut **UCLA Briana Fowler** UCLA Catherine Day

**UCLA** Chretianne Isabelle UCLA Christiana Downing UCLA Colin Muaphy UCLA Connor Davidson UCLA Damon Ruiz UCLA Daniel Zuzarte UCLA Devyn Fulohum UCLA Dilasha Patel UCLA Drew Stackpoola UCLA Elisa Chin UCLA Eunwoo Kim UCLA Evan Shen UCLA Felicia Chen UCLA Fiamma Lesky UCLA Gizel Boonegra Lopez UCLA Grace Wang **UCLA Helen Sanders** UCLA Ismael Amrtinez UCLA Jazzlin Ong UCLA Jesus Mejia UCLA Jillian Aspan-Martin UCLA John UCLA Kainath Kamil UCLA Kay Clement UCLA Khalif Kamil UCLA Kyra Sunil UCLA Leah Acosta UCLA Mia Pustrana UCLA Mia Nagai UCLA Milo Ryder UCLA Nancy Rios UCLA Nicholas Mobley **UCLA Patrick Cruz** UCLA Rana Miyagaki UCLA Richa Thakre UCLA Ronit Barman UCLA Sarah Jeung UCLA Sasha Zimet UCLA Siofra Linden UCLA Sirena Sandu



UCLA Valarie Wong UCLA Valery Garcia UCLA Vera Irber **UCLA Victor Lee** UCLA Zining Qiao **UCLA Jules Nunez** UCLA Kailyn Nguyen **UCLA Earl Park** UCLA Audrey Finch UCLA Carson Nims UCLA Catilleja Albert UCLA Charlotte UCLA Chloe Rodriguez UCLA Dax Corcoran UCLA Disha Nayak UCLA Dylan Danmg **UCLA Elias Haskins** UCLA Fiath Alm-Clark UCLA Gideon Dutnam UCLA Helena Spydell UCLA Jackson Bockian UCLA Jaren-James Rubio **UCLA Javier Traver** UCLA Jennifer Lopez **UCLA Jeremy Reyes** UCLA Joselyn Sandoval UCLA Joshua Thrift UCLA LeiliRose Maohammadi UCLA Lianel Salinton UCLA Lily Cam UCLA Luciaceleste garcia UCLA Marissa Cobar UCLA Meena Attota UCLA Mehrnaz Bastani UCLA miya yamamoto UCLA Natalia UCLA Neil Dasgupta UCLA Peter Sun UCLA Pranay Sashihhanth UCLA rebecca nolasoo

UCLA Ricardo UCLA Robert Cruz UCLA Roy Teter UCLA Samantha Fong UCLA samy Benhirane UCLA Soham Ghag UCLA Sophia Garcia UCLA Sophia Emens UCLA Sydney Reimer UCLA Tiffany Nguyen **UCLA Tobias Burgett** UCLA Tyker Dickenson **UCLA Wilmer Henriquez** UCLA Maya UCLA Donna UCLA Jayna Buhs Jachson **UCLA Nicole Peterson** UCLA Brian Choi UCLA Avrey Tokuyama UCLA emma kalb UCLA Tomasso Abramsonward UCLA Alberto Avdioj UCLA Ananya Bhardwaj UCLA Brandon Lazard UCLA Charlotte Kelly UCLA Elizabeth Williams UCLA Eric Viramontes UCLA Gobund Chink UCLA Jeff Tang UCLA L Siswanto UCLA Luke Bourgeois UCLA Natalia Capote **UCLA Nicole Holmes** UCLA Sage Swartz UCLA Alexandra Flores UCLA Quentin Gaudio UCLA Setareh Kargahi UCLA Dylan Choppin **UCLA Serena Watkins** UCLA Lillian Wonhardt



UCLA Lucas Goulart UCLA Weslen Nunley UCLA Alan Cruz UCLA Raymond Ge UCLA Christopher Borgen **UCLA Lexie Minvielle** UCLA Alisha Hassanali UCLA Jordan Lombardi UCLA Judit Chaclan UCLA Daniela Alvarez UCLA James Woolevy UCLA Lucy Wong Ryniejski **UCLA Myles Gardiner** UCLA Leo Katz Facher UCLA Charldrin Castro UCLA Mikala Romanak UCLA Aden Awad UCLA Wyatt Brandt UCLA Teizo Nakoyama UCLA Leo Wall UCLA Henry Dang UCLA Mckenna Kaiser UCLA Rachel Lei UCLA Charles Kuang UCLA Solomon Sang UCLA Raela Jayasekara **UCLA Mack Harrison** UCLA Gianna Medina UCLA Cassandra Campos UCLA Michael Apan UCLA Charlie Snyder UCLA Toby Gajar UCLA Kai Wallace UCLA Samantha Shon UCLA Rahul Jogadhenn UCLA Leila Salam UCLA Shoko Nagami UCLA Panithi Kachinthorn **UCLA Savannah Alanis** UCLA Green Guo

UCLA Betty Mogollon UCLA Lynnett Tryong UCLA Nutpisa Mangkeo UCLA Dean Mac UCLA Allise Gao UCLA Sasilio Cerdan Jr



## **UC Riverside Students**

UCR Micheal Rasmussen UCR Leonardo Robledo UCR Heoyon Wang **UCR Mitchell Wei UCR Andrew Viramontes UCR Bobbie Granillo** UCR Chelsea Nguyen UCR Aleva Dinh UCR Jaahad Shana UCR Malvika Seth UCR Dayton Albery UCR Kevin Saad UCR Eric Fawcett-Ramirez UCR Jaclzya Guzman UCR Gabriel Dial UCR Alondra Alavez UCR Amy Purecual UCR Tristan Mulahusejnovic UCR Jonthan Lam UCR Lia Chae UCR Micala Maxwell UCR Ulices Ramirez UCR Baniel Immanuel UCR Jose Balderas UCR Rochelle Revnoso-Gonzalez UCR Gianmarco Navarro UCR Aaron Lee UCR Angel Bocanegra UCR Vanessa Villegas UCR Monaz Arshad UCR Alexa Zelaya UCR Arlette Ugalde UCR Juan Perez UCR Ivan Nguyen UCR Ashley Wong UCR Nathan Dhan **UCR Benedict Ignacio** UCR Dajany Martinez

UCR Jasmine Lia UCR Carlos Serrato UCR Nikita Raj UCR Taylor Wong UCR Amisha Shiman UCR Adonai Reyes Portillo UCR Maisie UCR Edgar Cervantes Gonzalez **UCR Jamie Costellon** UCR Kayla Macavinita UCR Marilyn Lopez UCR Hanry Ganohbi UCR Genalyn Guerrero UCR Jacob Gonzalez UCR Anggita Survadwei UCR Marilyn Gonzalez UCR Fardin Zaman UCR Vishmu Shukla UCR Kayla Nguyen UCR Kaia Jackson UCR Xuanmai Nguyen UCR Valeria Esquivel UCR Danielle Arteana-Duarte UCR Ivan Gonzaga Aviles UCR Nkaamdka Bruee UCR Xinru Jiang UCR Karla Vargas UCR Anthony Daniel Cruz UCR Tramoiya Mitchell UCR Ana Gonzalez UCR Micheal Nguyen UCR Samantha Navarrete UCR Kailev San UCR Hamza Abdallah UCR Grace Chrisopoulos UCR Nic Lau UCR Auleen Sekhon UCR Rhoda Yeddu UCR Enze Cui UCR Nabeena Shavekat



UCR Jenna Hernandez UCR Erica Jwa UCR Angela Del Mundo UCR Kaustan Pal UCR David Jacinto UCR Aayusha Regimi UCR Randal Alvarado UCR Saiana Kalidindi UCR Ruthri Madani UCR Alondra Rojo UCR Audrey Dunnning UCR Nehaa Suresh UCR Estrella Mendez UCR Roshni Chitturi UCR Jaleyssy BarriosYague UCR Andy Li UCR Jasmine Khan UCR Victoria Avina UCR Manstserrat Duarte UCR Kayla Pulce UCR Fernanda Bazuca UCR Katherine Perez UCR Lily Ilous UCR Sohana Ali **UCR Katherine Frías** UCR Kaliah Serna UCR Rebecca Ramirez UCR Srinija Attaluri UCR Charlotte Sinclair UCR Diya Dabni **UCR Valerie Haro** UCR Hazel Hora UCR Naomi Mendel UCR Stephanie Sandoval UCR Cynthia De Leon UCR Jacquelyn Clay UCR Asma Kassar UCR Isabel Maldonado **UCR Kayla Macias** UCR Christian Aguilera

UCR Nicholas Chaney UCR Ty Mandel UCR Dylan Constanza UCR Angelina Valtierra UCR Delawn Antonia Crawford UCR Anureet Barr UCR Sophia Breeze UCR Jordan Marguez UCR Zoey Clark UCR Clara Manzo Gamino UCR Kathren Helo UCR Elisa Lottrell UCR Biana Xitamul UCR Rubaita Iqbal **UCR Lleyton Javier** UCR Garett Hammerele UCR Tyler Omega UCR Raul Flores UCR Samantha Morales UCR Damen Li UCR Samantha Devevadiga UCR Caleb Gebreas UCR Aarnyiah Williams UCR Adryann Aguilar UCR Arun Wetzel UCR Jacqueline Marenco UCR Julia Velasco UCR Patrick Sam UCR Karen Santana UCR Blanca Xitamul UCR Angelika Tsai UCR Tiana Reisner UCR Esmeralda Camarena UCR Haley Urohn UCR Brenda Alvarado UCR Juan Ortega UCR Charlotte Valeria UCR Sunset Samano UCR Vijay Sriramineni UCR Athena Ibarra



UCR Jonathan Garcia Lopez **UCR Angel Emele** UCR Yamile Lara **UCR Daisy Franco** UCR Jemaaima Roie Geralde UCR Hunter Palatini UCR Aryan Shanra UCR Alyssa Guo UCR Vanessa Del Rosario UCR Elisa Zhang UCR Efren Guerra **UCR Jocelyn Barnes** UCR Julissa Arellano-Gomez UCR Subed Lamichhane UCR Mia Chen UCR Kurtis Frost UCR Alang Allen UCR Derick Nguyen UCR Jafar Muradi UCR Alex Totan **UCR** Giselle UCR Philo Labih UCR Sean Oropeza **UCR Norma Martinez UCR** Christopher Crieghton UCR Anvi Chavbal UCR Vanessa Perez UCR Veronica Ramirez **UCR Preston Chu** UCR Victoria Vdo **UCR Shelly Park** UCR Mirih Vu **UCR Shellby Park** UCR Victoria Vasquez UCR Sara Hameza **UCR Miguel Melendez** UCR Katrina Nguyen UCR Morgan Darrash UCR Caren Rangel UCR Katlyn Parvisto

UCR Alex Manjarrez` UCR Milan Momhamed UCR Kelsey Jonkey UCR Patrick Guau UCR Ría William UCR Sachi Padilla UCR Yvonne Royzca UCR Derek De Garcia **UCR Nathaniel Morales** UCR Alana Phan **UCR Wesley Bui** UCR Hasta John UCR Yahir Quezada UCR Z Wong **UCR Rachel Infante Cuevas** UCR Maria Carrillo UCR Asha Gutierrez UCR Micheal Belintona **UCR Maya Pierce** UCR Malia Muraoka UCR Leonardo Gori UCR Serenity Blancarte UCR Yuon Kim UCR Emily Richmond UCR Destiny Gonzalez **UCR** Alees Carrizales UCR Ash murugen UCR Ethan Lomibao UCR Victoria Cunningham UCR Aimee Diaz UCR Emma Giu UCR Melissa Gonzalez UCR Jules Stei UCR Jyothi Kumar UCR Doan Nguyen UCR Amiya Aguilar UCR Vremee Khan UCR Angel Esperanza UCR Kenny Jimenez UCR Damian Orozco



UCR Zuleydi Garcia UCR Krystal Ordaz **UCR Nia Barstow** UCR Mayghan Grome UCR Christian Thompson UCR Daniel Gutierrez UCR Alise Dela-Paul UCR Julia Kim UCR Alex Barca UCR Seher Khan UCR Alexander Ehriman UCR Veronica Rubio UCR Jasmine Savessa Rodriguez UCR Anna Meihan-Chen **UCR** Jessica Vicante UCR Maiya Wooliver UCR Judy Mendoza UCR Monica Ruvalacaba **UCR Hayley Chai UCR Connor Sennings** UCR Amy UCR Chrisina Mora-gaspar UCR Jonathan Villoa UCR Jorden Viramontes UCR Nina Havwood UCR Winston Vu UCR Ricardo Moran UCR Aaron Nissanka **UCR Nicole Chen** UCR Tanaire Johnson **UCR** Melaniel Heredia UCR Erin Alcaraz UCR Victoria Cruz Martinez UCR Ruoxi Zheng UCR Dulce Ortiz UCR Sachman Panny UCR Rose Wang **UCR Andrew Kim** UCR Ariel Lazo UCR Betheny Rangel

UCR Melissa Mendez UCR Alessandro Gutierrez UCR Jacqueline Armenta UCR Bailey Dizon UCR Aislinn Cole UCR Magdalena Urzua UCR Enoch Wang UCR Aleshanee Perez UCR Michelle Zatarian UCR Rahul Muthauarapu UCR Ethan Chai UCR Mia Mendez UCR Julietta Sedrakyan UCR Tran Nguyen UCR Seeva Dhanawat UCR Peri Parsons UCR Vkaaamaka Bruce UCR Diana Herrera UCR Evangeline De Leon UCR Aanya Sanan UCR Samantha Berry UCR Angelina Currie **UCR** Alberto Macias UCR Unique Mckelevey **UCR Amaree Thomas** UCR Praem Kumar UCR Arely MedIna UCR Samuel Lin UCR Arya Gardouni UCR Anshah Khan UCR Dalia Mokdad UCR Kimberly Perez UCR Ernesto Mora UCR Alex Huffstedtler UCR Sally San Juan UCR Chinasa Nnamani UCR Terralyn Ta UCR Dylan Danyleyko UCR Xin Mar UCR Hannah Ahamed



UCR Alex Lai UCR Ava Rai UCR Alexandra Arroyo UCR Mailyn Nguyen UCR Marializ Valiente UCR Vivian Chacon UCR Henya Dadem UCR Ramanthan Valliappan UCR Erin Da la Atorre UCR Amy Mukui UCR Pinkstar Mendez UCR William Uribe UCR Joshua Orosco UCR Rohan Tripathi UCR Lilia Moghaddas UCR Jamila Bawahab **UCR Peter Milenknov** UCR Jared Ondo UCR Shawn Ng UCR Emilly Alvarez UCR Sanya Aul UCR Amalisa Cotez UCR Valerie Gonzalez UCR Kaegan Chee UCR Justin Wu UCR Simon Delgado UCR Gideonkay Molina UCR Camila Hernandez UCR Lyndsey Coleman UCR Helian May Manipon UCR Lauuren Schroeder UCR Siya Panchal UCR Beulah Han UCR Ethan Lim UCR Dulce Estrada UCR Tony Boylan UCR Michelle Alfaro-Romero UCR Yessenia Cardenas UCR Kaylee Luu **UCR Alexis Rojas** 

UCR Abhaydeep Singh UCR James Ford UCR Lusita Madera Gonzalez UCR Angelina Howl UCR Adriana Moran UCR Omar A. Lauviano UCR Melissa Chamorro UCR Alize Perez UCR Daniela Gomez UCR Kevin Dulanco UCR Fernando Hernandez UCR Owen Xu UCR Fanny Znang UCR Ashley Marmolejo UCR Samantha Navarrete UCR Mariana Fawaz UCR David Mayo UCR Nathan Gullien UCR Emily Ortega UCR Nick Johnson UCR Kendell Li UCR UCR Jacob Lopeo UCR Samantha Vargas UCR Catherine Aguilar UCR Jasmine Mendez UCR Jasmine Khan UCR Navya Batra **UCR** Christine Harris UCR Hannah Pak UCR Leslie Ramirez UCR Ashley Alavadez UCR Elena Woolsey UCR Alondra Aguado UCR Ariannis Rios-Vaal UCR Leonardo Altafini UCR Idalee Micheal UCR Tina Haeri UCR Rohan Wickramasinghe UCR Elisa Ruiz



UCR Hana Lee UCR Isatu N'Diaye UCR David Mercer **UCR Salman Habib** UCR Jessica Vargas Gallegos UCR Derrian Benoit UCR Natalia Jacobos Santos UCR David Ruiz-Martinez UCR Paula Olea UCR Corey Tran UCR Misaki Matsuda UCR Shae Quince Brown UCR Emery Wood UCR Valeria Esquivel UCR Jocelyn Roman UCR Grace Zhang UCR Chiamaka Ileon UCR Miguelang Ecomaamo UCR Vincent Rael UCR Adrianne-e Mendoza UCR Lawrence Li UCR Amlan Hota UCR Abdul Alktaifi **UCR Lillian Fees** UCR Melissa Mendez UCR Brayden Nguyen UCR Thu Tran UCR Lauren Ortega UCR Omar Poossani UCR Venkata Saiman Manogna Karnati UCR Jolie Buyson UCR Jaroiya Dathorne UCR Jules Goeken UCR Jancrizto Ruidas UCR Jabpreet Kaur UCR Ethan Ballada **UCR Katie Martinez** UCR Alex Wong UCR Emily Rodriguez UCR Chase Clements

UCR Eterfania Juarez **UCR** Christine Valleio UCR Jonthan Martinez UCR Anna Gonzales UCR Aayusha Regmi UCR Sophia Dalibs **UCR Daniel Brees** UCR Vishruth Sriram UCR Joseph White Jr UCR Ruben Magana UCR Isaiah Mendoza UCR Joshua Mendoea UCR Joshua Scheel UCR Brisa Rojas UCR Kaitylin Levenson-Cupp UCR Nathan Pena UCR Lenny Thai UCR Breanna Hurveta UCR Guido Potesta UCR Roxanna Ly UCR Joanna Martinez UCR Steen Joseph UCR Josh Gutierrez UCR JeeYu Lim UCR Victor Cuchilla UCR Shaquan Shine UCR Giselle Carlos UCR Antonio Vidal UCR Francis Cristobal UCR Crystal Sun UCR Brandon Williams UCR Carlos Serrano UCR Victor Rossi UCR Krista Manalo UCR Lesley Gonzalez UCR Rain Calabro UCR Pablo Avendado UCR Nerida Gonzalez UCR Maxla Shikari UCR Analie Payan



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UCI Rayana Huq UCI Yingxuan Cheu UCI Lily Dorval UCI Ananya Prakash UCI David Salinas UCI Aniruoh Mandala UCI Allan De La Cruz UCI Sasha Hernandez **UCI** Chelsea Yuen UCI Bailey Michaelian Marks UCI Sylvia Huang UCI NAtalie Nguyen UCI Cristopher Olvera UCI Ashley Ramos UCI Stephanie Garcia UCI Isaac Mitchell **UCI Derek Barker** UCI Morgan Carter UCI Brianna Kallie UCI Aysel Franco UCI Sophia Ellis UCI Deeksha Cirigadi UCI Sanskriti Singh UCI Ai Huynh UCI Lia Rosas UCI Reyna Borillo UCI Amari Katagiri **UCI Kinsey Nelson UCI Pedro Betto UCI** Chareles Navarro UCI Stefany Ruan UCI Chuyue Jiang UCI Solana Leonard **UCI** Anthony Agnen UCI Paige Shepler UCI Sophia Cheung UCI Gabriel Lucero UCI Aiden Worthington UCI Rachel Ho UCI Saige Frausto



UCI Mia Natividad UCI Palwasha Hasan **UCI Sebastian Frye** UCI Viviana Maravilla UCI Yuhan Jia **UCI Jonas Caver** UCI Jeremiah Dominguez **UCI Lillian Tann** UCI Angel Hernandez UCI Yahaira Valdovinos UCI Audrey Nguyen UCI Jose Bravo UCI Yen Hang UCI Thao Tran UCI Sophia Castro UCI Cameron Baker UCI Miles Gardin UCI Daniela Estevez **UCI** Desiree Lopez UCI Cassandra Hervas **UCI** Gretchen Paek UCI Jamie Lee **UCI Chataine Ramos** UCI Tracy Sandoval **UCI Karen Gerges** UCI Anastasia Malaspina UCI Ivy Che **UCI Jesus Flores** UCI Alicia Lee UCI Kenneth Phan UCI Naomi Miranda **UCI Darid Mattle** UCI Vincent Bui UCI Jessica Hh UCI Rosaxu UCI Samantha Soltero UCI Alison Nguyen **UCI** Daniel Jackson **UCI Brigitte Medina** UCI Audreanna An San

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UCSD Salma Hetwally UCSD Pranav Kulkarni UCSD Mhone Bogonko UCSD Abigail Kapur UCSD Kaylin Chan UCSD Emma Naca UCSD Caterina Ranieri **UCSD** Joshua Morales UCSD Stephanie Cesena UCSD Michelle Smith UCSD Somak Maitra UCSD Keshav Gupta UCSD Xiangwei Huang UCSD Surn Jones UCSD Ishita Chawla UCSD Ashley (Ningjia) Xu UCSD June Akpata UCSD Qiurui Tian UCSD Shayan Boghani UCSD Caroline Zhang UCSD Krista Vear UCSD Haemanth Velmurugan UCSD Parinaz Asareh UCSD Zixiao Yan UCSD Feennette Navarro UCSD Kaiya MacLeod



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	Michael Brandt, Sebastopol,CA,95472
Andrew Cook, Sebastopol,CA,95472	David Banks, Sebastopol,CA,95472
Tyson Dickinson, Sebastopol, CA,95472	James Brown, Sebastopol,CA,95472
Gary Pace, Sebastopol,CA,95472	Stephen Lebbert, Sebastopol,CA,95472
Raleigh Elliott, Sebastopol,CA,95472	Ed Bauman, Sebastopol,CA,95472
Mark Allen, Sebastopol,CA,95472	Nick Stewart, Sebastopol,CA,95472
Jacob Paradise, Sebastopol,CA,95472	William Offermann, Sebastopol,CA,95472
Darryl Bush, Sebastopol,CA,95472	Samson Geller, Santa Rosa,CA,95404
Wilbert Brown, Sebastopol,CA,95472	Robert Hartman, Santa Rosa,CA,95404
Tom Moore, Sebastopol,CA,95472	Jon Stong, Santa Rosa,CA,95404

Ellen Hanson-Harris, Sebastopol,CA,95472 Amy Waterman, Santa Rosa, CA, 95404 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 Sabrina Kniffin, Sebastopol, CA, 95472 Monique Rubin, Sebastopol, CA, 95472 Wendy Martin, Sebastopol, CA, 95472 Janet Weinberger, Sebastopol,CA,95472 Jennifer Prowell, Sebastopol, CA, 95472 Karri Haven, Sebastopol, CA, 95472 Linda Inman, Sebastopol, CA, 95472 Janet Vail, Sebastopol, CA, 95472 Diane Whitney, Sebastopol, CA, 95472 Pamela Hill, Sebastopol, CA, 95472 Sheila Reilly, Sebastopol, CA, 95472 Teresa Baumgardner, Sebastopol, CA, 95472 Theresa Dintino, Sebastopol, CA, 95472 Carmen Ferraz, Sebastopol, CA, 95472

Kay Gordy, Sebastopol,CA,95472 Keri Kaminskey, Sebastopol,CA,95472 Karin Holsinger, Sebastopol,CA,95472 Barbara Buchignani, Sebastopol,CA,95472

Victoria MacDonald, Sebastopol,CA,95472 Virginia Matthews, Sebastopol,CA,95472 Victoria Van Tassell, Sebastopol,CA,95472

RebeccaKostyal Keyser, Sebastopol, CA, 95472 Sunny Galbraith, Sebastopol, CA, 95472 Irene Griggs, Sebastopol,CA,95472 Kimberly Mccormick, Sebastopol,CA,95472 Beverly Bertaina, Sebastopol, CA, 95472 Elizabeth Phegan, Sebastopol,CA,95472 Marcia Robb, Sebastopol, CA, 95472 Alissa Coenen, Sebastopol, CA, 95472 Stephanie Forsythe, Sebastopol, CA, 95472 Kalima Rose, Sebastopol, CA, 95472 Johnathan Greenburg, Sebastopol, CA, 95472 Sally Lambert, Sebastopol,CA,95472 Brenna Adams, Sebastopol,CA,95472 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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Chris Pedersen, Sonoma, CA, 95476 Douglas Bates, Sonoma, CA, 95476 Richard Phoenix, Napa, CA, 94558 Mary Devine, Napa, CA, 94558 Sarah Fernald Loft, Napa, CA, 94558 Cristina Young, Napa, CA, 94558 Sharyn Barthes, Napa, CA, 94559 Julie Bloomberg, Napa, CA, 94559 Dianne Weyna, Napa, CA, 94559 Ann Iverson, Sonoma, CA, 95476 Laurie Glover, Sonoma, CA, 95476 Claudine Sweeters, Sonoma, CA, 95476 JoAnn Consiglieri, Sonoma, CA, 95476 Patricia Bongiovanni, Sonoma, CA, 95476

Susan Fitzgerald, Sonoma,CA,95476 Amy Gallagher, Sonoma,CA,95476 Patty Mohar, Sonoma,CA,95476 Aimee Bruederle, Sonoma,CA,95476 Bill Clark, Santa Rosa,CA,95404 Jon Martinez, Santa Rosa,CA,95404 Brooke Banks, Chico,CA,95928 Cameron Tuttle, Sonoma,CA,95476 Josh Atkins, Sonoma,CA,95476 Constanitae Petros, Sonoma,CA,95476 William Rivera, Napa,CA,94558

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Maureen Campbell, Sacramento, CA, 95818

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Philip Milazo, San Anselmo, CA, 94960

Richard Hymns, San Anselmo, CA, 94960

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Randy Springstead, San Rafael, CA, 94901

Daniel Zemelman, San Rafael, CA, 94901

Matt Grimshaw, San Rafael,CA,94901 Patrick Lewis, San Rafael,CA,94901 Vivek Bhaskar, San Rafael,CA,94901 Ryan Graff, San Rafael,CA,94901 William Berryhill, San Rafael,CA,94903 Bryan Ackrell, San Rafael,CA,94903 Stephen Shaw, San Rafael,CA,94903 Chuck Runkel, San Rafael,CA,94903 Larry Hoki, San Rafael,CA,94903 Joseph Cresalia, San Rafael,CA,94903 Fred Abrams, San Rafael,CA,94903 Ronnie Feldman, San Rafael,CA,94903 Preston McCoy, San Rafael,CA,94903 Phillip Ziegler, San Rafael,CA,94903 Federico Brocero, San Rafael,CA,94903 Jeffrey Durham, San Rafael,CA,94903 Konrad Collins, San Rafael,CA,94903 Collin Breakstone, San Rafael,CA,94903

Peter Roodhuyzen, San Rafael, CA, 94903

Vivan Larson, San Rafael, CA, 94903 Scot Wagner, San Rafael, CA, 94903 Kyle Payne, San Rafael, CA, 94903 Walt Weiskopf, San Rafael, CA, 94903 Matthew Sullivan, San Rafael, CA, 94903 Jonathan Lyons, San Rafael, CA, 94903 John Farman, San Rafael, CA, 94903 Andy Falk, San Rafael, CA, 94903 Patrick Obrien, San Rafael, CA, 94903 Nathan Dunn, San Rafael, CA, 94903 Trent Chamberlin, San Rafael, CA, 94903 Josh Alwitt, San Rafael, CA, 94903 Robert Schaff, San Rafael, CA, 94903 Joshua Archer, San Rafael, CA.94903 Thomas Gable, San Rafael, CA, 94903

Douglas Neecke, San Rafael, CA, 94903 Jon Hutchins, San Rafael, CA, 94903 Frank Solomon, San Rafael, CA.94903 Bill Bockwoldt, Petaluma, CA, 94952 Dan Capozzi, Petaluma, CA, 94952 Andre Ribeiro, San Rafael, CA, 94901 Darrell St.Blaine, San Rafael, CA, 94901 Matthew Drucker, San Rafael, CA, 94901 William Disbrow, San Rafael, CA, 94901 Gene Mcginnis, San Rafael, CA, 94901 William Mckenzie, San Rafael, CA, 94901 Scott De Turk, San Rafael, CA, 94901 Mark Maier, San Rafael, CA, 94901 Jake Hunerberg, San Rafael, CA, 94901 Peter Nocchiero, San Rafael, CA, 94901 John Reitano, San Rafael, CA, 94901 Ron Peters, San Rafael, CA, 94901 Mark Carbone, San Rafael, CA, 94901 Dennis Myers, San Rafael, CA, 94901 Benjamin Porter, San Rafael, CA, 94901 Gerald Sax, San Rafael, CA, 94901 Tim Jones, San Rafael, CA, 94901 Walter Tanner, San Rafael, CA, 94901

Jeanne Ross, San Rafael, CA, 94901 Michael Kelly, San Rafael, CA, 94901 Mat Dalpino, San Rafael, CA, 94901 Michael Dolan, San Rafael, CA, 94901 Dean Fukushima, San Rafael, CA, 94901 Robert Breslow, San Rafael, CA, 94901 Alex Thoemmes, San Rafael, CA, 94901 Darrin Schultz, San Rafael, CA, 94901 Michael Damiani, San Rafael, CA, 94901 Tod Hunter, San Rafael, CA, 94901 Cory Hoeferlin, San Rafael, CA, 94901 Thomas Scheidig, San Rafael, CA, 94901 Fabrice Florin, Mill Valley, CA, 94941 Tom Dorris, Mill Valley, CA, 94941 Joe Ching, Mill Valley, CA, 94941 Morrow Otis, Mill Valley, CA, 94941 Steven Gordman, Mill Valley, CA, 94941 Leland Durkee, Mill Valley, CA, 94941 Christopher Womack, Mill Valley, CA,94941

Laurie Johnson, Mill Valley,CA,94941 Andrew Johns, Mill Valley,CA,94941 Jerome Rossen, Mill Valley,CA,94941 Paul Lundgren, Mill Valley,CA,94941

Grant Jarrett, Mill Valley, CA, 94941 Harry Seraydarian, Mill Valley, CA, 94941 Sean Norton, Mill Valley, CA, 94941 Josh Andresen, Mill Valley, CA, 94941 David Simerly, Mill Valley, CA, 94941 David Boehle, Mill Valley, CA, 94941 Tom Redmond, Mill Valley, CA, 94941 Adam Hawkey, Mill Valley, CA, 94941 Corey Vitale, Mill Valley, CA, 94941 Michael Lopez, Mill Valley, CA, 94941 Wolfgang Huelse, Mill Valley, CA, 94941 Eric Montizambert, Mill Valley, CA, 94941 Bob Perry, Mill Valley, CA, 94941 Don Cohon, Mill Valley, CA, 94941 Larry Anderson, Mill Valley, CA, 94941 John Buchta, Mill Valley, CA, 94941 Grant Palmer, Mill Valley, CA, 94941 Dan St John, Mill Valley, CA, 94941 Olivier Morin, Mill Valley, CA, 94941 Robert Reddick, Mill Valley, CA, 94941 James Begley, Mill Valley, CA, 94941 Edward Denebeim, Mill Valley, CA, 94941 Gareth Butler, Mill Valley, CA, 94941

Pieter Bogaards, Mill Valley, CA, 94941 Brian Dayton, Mill Valley, CA, 94941 Gilbert Williams, Mill Valley, CA, 94941 Vic Herrmann, Mill Valley, CA, 94941 Mike Roberts, Petaluma, CA, 94952 Palricn Odowd, Petaluma, CA, 94952 Luigi Petrigh-Dove, Petaluma, CA, 94952 Patrick O'dowd, Petaluma, CA, 94952 Thomas Bradley, Petaluma, CA, 94952 Todd Blank, Petaluma, CA, 94952 Todd Gracyk, Petaluma, CA, 94952 Kim Schott, Petaluma, CA, 94952 Frank Bermudes, Petaluma, CA, 94952 Brett Millar, Petaluma, CA, 94952 Lee Keyzer, Petaluma, CA, 94952 Ed Porto, Petaluma, CA, 94952 Stephen Mori, Petaluma, CA, 94952 Michael Kraus, Petaluma, CA, 94952 Gilbert Dias, Petaluma, CA, 94952 Zachary Stanley, Petaluma, CA, 94952 David Lebow, Petaluma, CA, 94952 Jerome Cleland, Petaluma, CA, 94952 Steve Newell, Petaluma, CA, 94952

James Wheeler, Petaluma, CA, 94952 Mark Wicker, Petaluma, CA, 94952 David Royall, Petaluma, CA, 94952 Gregory Reisinger, Petaluma, CA, 94952 Hans Barnaal, Petaluma, CA, 94952 Michael Arrow, Larkspur, CA, 94939 Chad Solter, Larkspur, CA, 94939 Paul Smith, Larkspur, CA, 94939 John Kane, Larkspur, CA, 94939 Corey Stodolnic, Larkspur, CA, 94939 Mark Edelen, Larkspur, CA, 94939 Albert Wood, Larkspur, CA, 94939 Michael McDermott, Larkspur, CA, 94939 Richard Boyer, Larkspur, CA, 94939 Jeremy Gray, Larkspur, CA, 94939 Steve Lewczyk, Larkspur, CA, 94939 Ryan Abbe, Larkspur, CA, 94939 Daniel Matso, Larkspur, CA, 94939 Miles McConnell, Larkspur, CA, 94939 Bill Webb, Larkspur, CA, 94939 Jim Garcia, Larkspur, CA, 94939 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 Stephen Minus, Mill Valley, CA, 94941 James Workman, Mill Valley, CA, 94941 Bruce Barnett, 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 Stephen Kent, Mill Valley, CA, 94941 Michael Ina, Mill Valley, CA, 94941 Joe Kennedy, Mill Valley, CA, 94941 Ryan Fedoroff, Mill Valley, CA, 94941 Matt Coan, Mill Valley, CA, 94941 William Berger, Mill Valley, CA, 94941 Steve Meyer, Mill Valley, CA, 94941 Philip Mickelson, Mill Valley, CA, 94941 Paul Stanger, Mill Valley, CA, 94941 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 Randy Briggs, Fairfax, CA, 94930

Aron Knickerbocker, Mill Valley, CA, 94941

Allan Kratche, Fairfax, CA, 94930 William Keene, Fairfax, CA, 94930 Billy Carmassi, Fairfax, CA, 94930 Glenn Steiner, Fairfax, CA, 94930 Thomas Asher, Fairfax, CA, 94930 Charles Theobald, Fairfax, CA, 94930 Hal Mosher, Fairfax, CA, 94930 James Serafimides, Fairfax, CA, 94930 Marc Raymond, Fairfax, CA, 94930 Richard Foley, Fairfax, CA, 94930 Adam Barnum, Fairfax, CA, 94930 Richard Gossett, Fairfax, CA, 94930 Tom Thur, Fairfax, CA, 94930 William Hughes, Fairfax, CA, 94930 Enrico Petri, Fairfax, CA, 94930 Richard Doores, Fairfax, CA, 94930 Joshua Lance, Fairfax, CA, 94930 John Beattie, Fairfax, CA, 94930 Roy Murrin, Fairfax, CA, 94930 David Sinaiko, Fairfax, CA, 94930 Steve Berg-Smith, Fairfax, CA, 94930 Charles Wehr, Fairfax, CA, 94930 Ryan Giesen, Fairfax, CA, 94930

Dylan Hosey, Fairfax, CA, 94930 Kathleen Thomas, Fairfax, CA, 94930 Julien Pearl, Fairfax, CA.94930 Daniel Neal, Fairfax, CA, 94930 Brian Auger, Fairfax, CA, 94930 Rob Short, Fairfax, CA, 94930 Jim Murphy, Fairfax, CA, 94930 Michael Robinson, Fairfax, CA, 94930 Ben Soccorsy, Larkspur, CA, 94939 Jon Rossi, Sausalito, CA, 94965 Carroll Covey, Sausalito, CA, 94965 Evan Jane Kriss, Sausalito, CA, 94965 Robert Edwards, Sausalito, CA, 94965 Mark Kriss, Sausalito, CA, 94965 Jonathan Block, Sausalito, CA, 94965 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 Anke Bucher, Sausalito,CA,94965 Lauren De Remer, Sausalito,CA,94965 Cindy Smith, Novato,CA,94945 Marianne Griffeth, San Anselmo,CA,94960

Ellen Lerner, San Anselmo,CA,94960 Robyn Donsly, San Anselmo,CA,94960 Elsa Latini, San Anselmo,CA,94960 Joan Heblack, San Rafael,CA,94903 Karen Shaw, San Rafael,CA,94903 Sharon Jean Navratil, San Rafael,CA,94903

Andrea Ravas, San Rafael,CA,94903 Rhea Brown, San Rafael,CA,94901 Dixie Uhl, San Rafael,CA,94901 Darcelle Curtis, San Rafael,CA,94901 Linda Rames, Mill Valley,CA,94941 Susan Barbour, Mill Valley,CA,94941 Sheri Coles, Larkspur,CA,94939 Aileen Murphy, Larkspur,CA,94939 Elisa Johnson, Larkspur,CA,94939 Melissa Polick, Mill Valley,CA,94941 Katherine Edwinson, Mill Valley,CA,94941 Catherine Kane, Fairfax, CA, 94930 Jennifer Doores, Fairfax, CA, 94930 Marina Ames, Fairfax, CA, 94930 Pat Rice, Larkspur, CA, 94939 Sylvia Donati, Corte Madera, CA, 94925 Barbara Kristoff, Corte Madera, CA, 94925 Shelley Mitchell, Corte Madera, CA, 94925 Suzanne Herrero, Corte Madera, CA, 94925 Chance Claxton, Corte Madera, CA, 94925 Jill Kauffman-Johnson. Corte Madera, CA, 94925 Patti Embert, Sausalito, CA, 94965 Nelly Spieler, Sausalito, CA, 94965 Rowena Finegan, Sausalito, CA, 94965 Kirsten Malone, Sausalito, CA, 94965 Natasha Kimmell, Sausalito, CA, 94965 Helga Fleishman, Sausalito,CA,94965 Mary Thomson, Sausalito, CA, 94965 Sue Frank, Sausalito, CA, 94965 Jennifer Dipasquale, Sausalito, CA, 94965

Laurel Wessler, Sausalito, CA, 94965

Carole Ormiston, Sausalito, CA, 94965 NIna Greeley, Sausalito, CA, 94965 Rebecca Drake, Sausalito, CA, 94965 Jennifer Jackson, Fairfax, CA, 94930 Karen Lucas, Fairfax, CA, 94930 Liza Guastucci, Fairfax, CA, 94930 Erica Kalve, Fairfax, CA, 94930 Elizabeth Harris, Fairfax, CA, 94930 Jean Carlson, Fairfax, CA, 94930 Margie McGuire, Fairfax, CA, 94930 Mireya Quirie, Fairfax, CA, 94930 Sarah Dempsey, Fairfax, CA, 94930 Tara Hernandez, Fairfax, CA, 94930 Melissa Merz, Fairfax, CA, 94930 Denise Mondot, Fairfax, CA, 94930 Lucie Smith, Fairfax, CA, 94930 Sam Alexander, Fairfax, CA, 94930 Wendy Lee, Fairfax, CA, 94930 Madeleine Wood, Fairfax, CA, 94930 Ashley Meis, Fairfax, CA, 94930 Jacqueline Stove, Fairfax, CA, 94930 Eugenia Ives, Fairfax, CA, 94930 Jacqueline Kiesewetter, Fairfax, CA, 94930

Miki Marelich, Fairfax, CA, 94930 Golda Michelson, Fairfax, CA, 94930 Kendra Scott, Fairfax, CA, 94930 Jona Scovill, Fairfax, CA, 94930 Natalie Zimmerman, Fairfax, CA, 94930 Helen Cooluris, Fairfax, CA, 94930 Gina Longo, Fairfax, CA, 94930 Phoebe Richardson, Fairfax, CA, 94930 Ellie Boldrick, Fairfax, CA, 94930 Amanda Mathson, Fairfax, CA, 94930 Jennifer Hibbitts, Fairfax, CA, 94930 Cindi Darling, Fairfax, CA, 94930 Dawn Steiner, Fairfax, CA, 94930 Toni Zandol, Fairfax, CA, 94930 Patricia Taylor, Fairfax, CA, 94930 Karen Lynn, Fairfax, CA, 94930 Jana Vance, Fairfax, CA, 94930 Ruth Ann Binder, Fairfax, CA, 94930 Mary Donovan, Larkspur, CA, 94939 Linda Walsh, Larkspur, CA, 94939 Edie Yamamura, Larkspur, CA, 94939 Barbara Alexander, Larkspur, CA, 94939 Diana Fitzpatrick, Larkspur, CA, 94939

Laura Anderson, Larkspur, CA, 94939 Jennifer Harrison, Larkspur, CA, 94939 Barbara Kuehler, Larkspur, CA, 94939 Margaret Reis, Larkspur, CA, 94939 Nikki Meredith, Larkspur,CA,94939 Susan Lange, Larkspur, CA, 94939 Sara Esslinger, Larkspur, CA, 94939 Katherine Jones, Larkspur, CA, 94939 Jessica Hall, Larkspur, CA, 94939 Martha Schwarz, Larkspur, CA, 94939 Ellen Greenwald, Larkspur, CA, 94939 Deborah Dean, Larkspur, CA, 94939 Brooke Passano, Larkspur, CA, 94939 Jacqueline Gilman, Larkspur, CA, 94939 Donna Crawford, Larkspur, CA, 94939 Karen Mae, Larkspur, CA, 94939 Sharon Henning, Larkspur, CA, 94939 Fiona Gilmartin, Larkspur, CA, 94939 Mary Wagstaff, Larkspur, CA, 94939 Brenda Bercun, Larkspur, CA, 94939 Amanda Whitney, Mill Valley, CA, 94941 Claudia Hampe, Mill Valley, CA, 94941 Shelley Richardson, Mill Valley, CA, 94941

Claire Thorp, Mill Valley, CA, 94941 Jennifer Dodge, Mill Valley, CA, 94941 Kathy Piombo, Mill Valley, CA, 94941 Kat Karacozoff, Mill Valley, CA, 94941 Helen Anawalt, Mill Valley, CA, 94941 Victoria Vogel, Mill Valley, CA, 94941 Sarah Tabbutt, Mill Valley, CA, 94941 Lynnette Walsh, Mill Valley, CA, 94941 Tracy Haughton, Mill Valley, CA, 94941 Aimee Levin, Mill Valley, CA, 94941 Lorna Anderson, Mill Valley, CA, 94941 Krista Gallucci, Mill Valley, CA, 94941 Michelle Sims, Mill Valley, CA, 94941 Robyn Geissler, Mill Valley, CA, 94941 Geraldine Jennings, Mill Valley, CA, 94941

Nona Dennis, Mill Valley,CA,94941 Esther Vermeer, Mill Valley,CA,94941 Maureen Labro, Mill Valley,CA,94941 Mia Michel, Mill Valley,CA,94941 Mara Meisner, Mill Valley,CA,94941 Judith Maas, Mill Valley,CA,94941 Lynne Barnard, Mill Valley,CA,94941 Nanea Meyer, Mill Valley,CA,94941 Mary Noble, Mill Valley,CA,94941 Val Westen, Mill Valley,CA,94941 Dorothy Bray, Mill Valley,CA,94941 Deborah Meagher, Mill Valley,CA,94941 Kelli Cruz, Mill Valley,CA,94941 Kathryn Hughes, Mill Valley,CA,94941 Alexandra Boersma, Mill Valley,CA,94941

Jutta Reichert, Mill Valley, CA, 94941 Arlene Helfrich, Mill Valley, CA, 94941 Kirstin Schmidt, Mill Valley, CA, 94941 Alison Quoyeser, Mill Valley, CA, 94941 Judy Kimmel, Mill Valley, CA, 94941 Noelle Poncelet, Mill Valley, CA, 94941 Christine Zuardo, Mill Valley, CA, 94941 Beverlee Bentley, Mill Valley, CA, 94941 Valerie Wynn, Mill Valley, CA, 94941 Meredith Burns, Mill Valley, CA, 94941 Ruth Hirner, Mill Valley, CA, 94941 Susan Stanger, Mill Valley, CA, 94941 Elaine Hoover, Mill Valley, CA, 94941 Aness Pogni, Mill Valley, CA, 94941 Darel Thompson, Mill Valley, CA, 94941 Julie Bremer, Mill Valley, CA, 94941

Andrea Windom, Mill Valley, CA, 94941 Kelly Horner, Mill Valley, CA, 94941 Melanie Stoll, Mill Valley, CA, 94941 Suzana Sawyer, Mill Valley, CA, 94941 Patricia Barry, Mill Valley, CA, 94941 Tamara Shearer, Mill Valley, CA, 94941 Christina de Zafra, Mill Valley, CA, 94941 Mary Herr, Mill Valley, CA, 94941 Meghan Rowan, Mill Valley, CA, 94941 Naomi Peterkin, Mill Valley, CA, 94941 Lisa Fisher, Mill Valley, CA, 94941 Florence Mcclain, Mill Valley, CA, 94941 Heather Whelan, Mill Valley, CA, 94941 Lindsay lavarone, Mill Valley, CA, 94941 Nancy Jancar, Mill Valley, CA, 94941 Marilyn Barrett, Mill Valley, CA, 94941 Catherine Cadloni, Mill Valley, CA, 94941 Sandra Hoben, Mill Valley, CA, 94941 Kim Stopak, Mill Valley, CA, 94941 Susan Lindstrom, Mill Valley, CA, 94941 Kate Harle, Mill Valley, CA, 94941 Frances Strychaz, Mill Valley, CA, 94941 Kress Jack, Mill Valley, CA, 94941

Jeanne Moe, Mill Valley, CA, 94941 Lisa Joss, Mill Valley, CA, 94941 Roberta Hubena, Mill Valley, CA, 94941 Maxine Attizahn, Mill Valley, CA, 94941 Kim Hobson, Mill Valley, CA, 94941 Judith Lichterman, Mill Valley, CA, 94941 Ivonne Vacce, Mill Valley, CA, 94941 Tricia Tanoury, Mill Valley, CA, 94941 Maria Troncoso, Mill Valley, CA, 94941 Michelle Dodd, Mill Valley, CA, 94941 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 Barbara Sullivan, San Rafael, CA, 94901 Linsey Sciutti, San Rafael, CA, 94901 Kamala Brown, San Rafael, CA, 94901 Suzanne Gilbert, San Rafael, CA, 94901 Cathy Schroeder, San Rafael, CA, 94901 Amy Gladin, San Rafael, CA, 94901 Susan Huffman, San Rafael, CA, 94901 Mimi Rysso, San Rafael, CA, 94901 Tina Lundh, San Rafael, CA, 94901 Elaine Mont-Eton, San Rafael, CA, 94901 Nathalie Costello, San Rafael, CA, 94901 Francoise Boucher, San Rafael, CA, 94901 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 Sharon Murphy, San Rafael,CA,94901

Linda Coffee, San Rafael, CA, 94901

Vikki Adams, San Rafael,CA,94901 Tom Schmidt, San Rafael,CA,94901 Cayla Coleman, San Rafael,CA,94901 Rachel Jensen, San Rafael,CA,94901 Susan Gatrill, San Rafael,CA,94901 Padma Rao, San Rafael,CA,94901 Mary Coyne, San Rafael,CA,94901 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 Carol Valls, San Rafael,CA,94901 Alezz Laielen, San Rafael,CA,94901 Rae Ann Gustafson, San Rafael,CA,94901 Kathy Marshall, San Rafael,CA,94901 Alison Prentice, San Rafael,CA,94901 Nicole Hediger, San Rafael,CA,94901 Maya Webb, San Rafael,CA,94901 Fran Halperin, San Rafael,CA,94901 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 Jane Chaudhuri, San Rafael, CA, 94901 Erin Frazier, San Rafael, CA, 94901 Grace Walker, San Rafael, CA, 94901 Anna Rogers, San Rafael, CA, 94901 Christine Godfrey, San Rafael, CA, 94901 Helen Jacobsen, San Rafael, CA, 94901 Hilary Perkins, San Rafael, CA, 94901 Patti McKay, San Rafael, CA, 94901 Tina Sampath, San Rafael, CA, 94901 Nancy Otto, San Rafael, CA, 94901 Laura Yoklanich, San Rafael, CA, 94901 Ann Summerlin, San Rafael, CA, 94901 Alisha Ferrone, San Rafael, CA, 94901

Brenda Evans, San Rafael, CA, 94901 Karen Lang, San Rafael, CA, 94901 Judith Stambolis, San Rafael, CA, 94903 Kathleen Vanoni, San Rafael, CA, 94903 Sandy Mixsell, San Rafael, CA, 94903 Terri Delangis, San Rafael, CA, 94903 Margaret Hoopongarner, San Rafael, CA, 94903 Katie Martin, San Rafael, CA, 94903 Mia Andrew, San Rafael, CA, 94903 Margaret Lord, San Rafael, CA, 94903 Nancy Spellman, San Rafael, CA, 94903 Nada Grkinich, San Rafael, CA, 94903 Jane Alaimo, San Rafael, CA, 94903 Nancy Fox, San Rafael, CA, 94903 Eddie Shine, San Rafael, CA, 94903 Laurie Peckhan, San Rafael, CA, 94903 Amy Poirier, San Rafael, CA, 94903 Wendy Kirk-Scalise, San Rafael, CA, 94903 Heidi Brunette, San Rafael, CA, 94903 Angelique Clark, San Rafael, CA, 94903

Conde Freeman, San Rafael,CA,94903 Diana Van Doren, San Rafael,CA,94903 Kate Powers, San Rafael,CA,94903 Andrea Hansen, San Rafael,CA,94903 Kimberly Kenley-Salarpi, San Rafael,CA,94903

Denise Albertini, San Rafael,CA,94903 Lisa Cooper, San Rafael,CA,94903 Laurie Steese, San Rafael,CA,94903 Kimberlee Walden, San Rafael,CA,94903

Lucy Garrett, San Rafael,CA,94903 Alaina Yoakum, San Rafael,CA,94903 Nicole Kowalski, San Rafael,CA,94903 Julie Auslander, San Rafael,CA,94903 Nancy Mack, San Rafael,CA,94903 Jennifer Simmons, San Rafael,CA,94903

Michelle Fouts, San Rafael,CA,94903 Irene Cooper, San Rafael,CA,94903 Sharon Jones, San Rafael,CA,94903 Marla Krause, San Rafael,CA,94903 Michelle Wagner, San Rafael,CA,94903 Lynne Dixon, San Rafael,CA,94903 Sarah Medeiros, San Rafael,CA,94903 Annie Harding, San Rafael,CA,94903 Coleen Byrne, San Rafael,CA,94903

Igino Pellizzari, San Rafael, CA, 94903 Helen Brackley, San Rafael, CA, 94903 Kristina Doxon, San Rafael, CA, 94903 Donna Moser, San Rafael, CA, 94903 Joanne Conte, San Rafael, CA, 94903 Lauren Goodman, San Rafael, CA, 94903 Ellen Swanson, San Rafael, CA, 94903 Linda Hsu, San Rafael, CA, 94903 Alissa Robinow, San Rafael, CA, 94903 Margot Dietzer, Novato, CA, 94945 J P Perino, Novato, CA, 94945 Barbara Wein, Novato, CA, 94945 Angela DeSalvo, Novato, CA, 94945 Betty Matrui, Novato, CA, 94945 Karen Corral, Novato, CA, 94945 Smith Amy, Novato, CA, 94945 Ana Warner, Novato, CA, 94945 Maija Schaefer, Novato, CA, 94945 Susan Pollock, Novato, CA, 94945 Barbara Roddie, Novato, CA, 94945 Jen Magat, Novato, CA, 94945 Kimberly Smith, San Anselmo, CA, 94960 Kristi Epke, San Anselmo, CA, 94960

Karen Lopez, San Anselmo,CA,94960 Melanie Waite, San Anselmo,CA,94960 Laurean Nardone, San Anselmo,CA,94960

Jill Jarvie, San Anselmo,CA,94960 Ziba Sohaei, San Anselmo,CA,94960 Melinda Mahl, San Anselmo,CA,94960 Meredith Parnell, San Anselmo,CA,94960

Sandra Brady, San Anselmo,CA,94960 Ellen Caldwell, San Anselmo,CA,94960 Jerri Linn, San Anselmo,CA,94960 Phoebe Schraer, San Anselmo,CA,94960

Barbara Lind, San Anselmo,CA,94960 Jennifer Richard, San Anselmo,CA,94960

Carolyn Smith, San Anselmo,CA,94960 Kathleen Ames, San Anselmo,CA,94960

Michele Chouinard, San Anselmo, CA, 94960

Tomoko Ferguson, San Anselmo, CA, 94960

Lisa Travaglini, San Anselmo,CA,94960 Mindy Uhrlaub, San Anselmo,CA,94960

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Redge Martin, Oakland, CA, 94611 Michael Freund, Oakland, CA, 94611 Sean Dougan, Oakland, CA, 94611 Steven Siemers, Oakland, CA, 94611 Jason Draut, El Cerrito, CA, 94530 Damian Hayden, El Cerrito, CA, 94530 Paul Vaughns, El Cerrito, CA, 94530 David Concepcion, El Cerrito, CA, 94530 Jeffrey Lichtman, El Cerrito, CA, 94530 Marvin Vinik, El Cerrito, CA, 94530 Quintin Moore, El Cerrito, CA, 94530 Dirk Foermer, El Cerrito, CA, 94530 John Thompson, El Cerrito, CA, 94530 Don Smith, El Cerrito, CA, 94530 Norman La Force, El Cerrito, CA, 94530 Ken Jaffe, El Cerrito, CA, 94530 Neil Gross, El Cerrito, CA, 94530 Peter Bonde, El Cerrito, CA, 94530 David Hopkins, El Cerrito, CA, 94530 Sean Kellogg, El Cerrito, CA, 94530 Tim Laidman, El Cerrito, CA, 94530 Jeff Green, El Cerrito, CA, 94530 Isabelle Bernal, El Cerrito, CA, 94530

Michael Ricks, El Cerrito, CA, 94530 Dennis Kettler, El Cerrito, CA, 94530 Ray West, El Cerrito, CA, 94530 Stephen Mann, El Cerrito, CA, 94530 Robert MacDonald, El Cerrito, CA, 94530 Steven Clemens, El Cerrito, CA, 94530 John Bowman, El Cerrito, CA, 94530 Fredric Kaye, El Cerrito, CA, 94530 Thomas Insel, El Cerrito, CA, 94530 David Lingren, El Cerrito, CA, 94530 Ed Young, El Cerrito, CA, 94530 Nathan Fueeling, El Cerrito, CA, 94530 Eric Olsen, El Cerrito, CA, 94530 Kevin Shambrook, El Cerrito, CA, 94530 Rick Franco, Oakland, CA, 94611 Paul Lipkin, Oakland, CA, 94611 Paul Jahn, Piedmont, CA, 94611 Gregory Redmond, Oakland, CA, 94611 Dillon Tuckner, Oakland, CA, 94611 Vince Reeve, Oakland, CA, 94611 Gerard Green, Oakland, CA, 94611 Paul Trueblood, Oakland, CA, 94611 Michael Haddad, Oakland, CA, 94611

Craig Huntington, Oakland, CA, 94611 Michael Williams, Oakland, CA, 94611 Martin Putnam, Oakland, CA, 94611 Benjamin Worthen, Oakland, CA, 94611 Kevin Ma, Oakland, CA, 94611 Patrick Paulino, Oakland, CA, 94611 Nathan Shaw, Oakland, CA, 94611 Barry Shapiro, Oakland, CA, 94611 Mark Johnson, Oakland, CA, 94611 Tom Huffaker, Oakland, CA, 94611 Stephen Wong, Oakland, CA, 94611 Sunil Marangoly, Oakland, CA, 94611 Stephen Selkowitz, Piedmont, CA, 94611 Kurt Patzner, Oakland, CA, 94611 Rande Webster, Oakland, CA, 94611 Harland Chun, Oakland, CA, 94611 Daniel Worm, Oakland, CA, 94611 Jeff Hall, Oakland, CA, 94611 Paul Knowlton, Oakland, CA, 94611 Peter Towner, Oakland, CA, 94611 Colby Kilgore, Piedmont, CA, 94611 Bryan Mohany, Piedmont, CA, 94611 Donald Lee, Oakland, CA, 94611

Scott Koblitz, Oakland,CA,94611 William Wallace, Oakland,CA,94611 Lewis Finneberg, Oakland,CA,94611 Louis Jannace, Oakland,CA,94611 Tyson Schroeder, Oakland,CA,94611 Mark Wohlfarth, Oakland,CA,94611 John Calderwood, Oakland,CA,94611 Mary Woodrive, Oakland,CA,94611 Jonathan Ransohoff, Oakland,CA,94611 David McGhee, Oakland,CA,94611 Zach Murphy, Oakland,CA,94611 Nicolas Haralambides, Oakland,CA,94611

Fritz Wooster, Piedmont,CA,94611 Blaise Cumming, Oakland,CA,94611 Chad Ironside, Piedmont,CA,94611 Douglas Gorman, Oakland,CA,94611 Victor Ortiz, Oakland,CA,94611 John McClain, Oakland,CA,94611 Adam Bonner, Oakland,CA,94611 Brian Chrisman, Oakland,CA,94609 Julian James, Oakland,CA,94609 Michael Mechanic, Oakland, CA, 94609 Robert Kevess, Oakland, CA, 94609 Joseph Roll, Oakland, CA, 94610 Evan Seevak, Piedmont, CA, 94610 Mark Moss, Piedmont, CA, 94610 John Holmgren, Piedmont, CA, 94610 Grant Crossen, Piedmont, CA, 94610 Bruce Maximov, Oakland, CA, 94611 Bill Leahy, Piedmont, CA, 94611 Steven Mandros Bell, Oakland, CA, 94611 Henry Taylor, Piedmont, CA, 94611 Mike Kidd, Oakland, CA, 94611 James Stone, Oakland, CA, 94611 Martin Ros, Oakland, CA, 94611 Don Crum, Oakland, CA, 94611 George Faucher, Oakland, CA, 94611 Michael Pereira, Oakland, CA, 94611 John D Menke, Piedmont, CA, 94611 Robert Hartinger, Oakland, CA, 94611 Timothy Ranahan, Oakland, CA, 94609 Max Langert, Oakland, CA, 94609 Liam Mullan, Oakland, CA, 94609 Bernard Baltaxe, Oakland, CA, 94609

Brian Yosef Schachter-Brooks. Oakland.CA.94609 Jim Broadstreet, Oakland, CA, 94609 Cynthia Abramov, El Cerrito, CA, 94530 Andia Rasmussen, El Cerrito, CA, 94530 Amy Bruckmeier, El Cerrito, CA, 94530 Terri Ashton, Oakland, CA, 94611 Catherine Johnson, Oakland, CA, 94611 Carel Bertram, Oakland, CA, 94611 Hope Salzer, Piedmont, CA, 94611 Renee Cameto, Oakland, CA, 94611 Jacqueline Van Lang, Piedmont, CA, 94610 Lauren Phillips, Piedmont, CA, 94611 Elizabeth Patelke, Oakland, CA, 94618 Jean Rains, Oakland, CA, 94618 Catherine Leonard, Kensington, CA, 94708 Anya Davis, Berkeley, CA, 94708 Pat Ungern, Berkeley, CA, 94709 Chris Goldin, Berkeley, CA, 94709 Lynn Quirolo, Albany,CA,94706 Dagmar Friedman, Berkeley, CA, 94707 Stefanie Guynn, Berkeley, CA, 94707 Emily Nozick, Berkeley, CA, 94707

Patricia Phillips, Berkeley, CA, 94705 Jan Volz-Kelly, Berkeley, CA, 94705 Denise Lyons, Berkeley, CA, 94702 Lois Smith, Berkeley, CA, 94702 Pam Fisher, Berkeley, CA, 94702 Deborah Sommers, Berkeley, CA, 94702 Jan Probst, Berkeley, CA, 94702 Judith Collier, Berkeley, CA, 94702 Korina Florenz, Berkeley, CA, 94702 Nadine Gerdes, Berkeley, CA, 94702 Melanie Green, Berkeley, CA, 94703 Dolores Taller, Berkeley, CA, 94703 Leslie Moorjani, El Cerrito, CA, 94530 Swee Quek, El Cerrito, CA, 94530 Elizabeth Reimer, Richmond, CA, 94805 Miriam Mangini, Oakland, CA, 94611 Ysh Schwartz, Oakland, CA, 94609 Kathleen Leslie, Oakland, CA, 94609 Scotia Miller, Oakland, CA, 94609 Adele Leporati, Oakland, CA, 94609 Nicole Magnuson, Oakland, CA, 94609 Holly Gundolfi, Oakland, CA, 94609 Shana Sturm, Oakland, CA, 94609

Deborah Fong, Oakland, CA, 94609 Terri Walker, Oakland, CA, 94609 Phyllis Plotkin, Oakland, CA, 94609 Phyllis Plotkin, Oakland, CA, 94609 June Anzai, Oakland, CA, 94609 Adrianne Borgia, Oakland, CA, 94609 Heather Ashcroft, Oakland, CA, 94609 Marcia Vastine, Oakland, CA, 94610 Lilly Krenn, Piedmont, CA, 94610 Laura Przetak, Piedmont, CA, 94610 Nancy Lenahan, Oakland, CA, 94610 Elizabeth King, Piedmont, CA, 94610 Cecelia Silva, Oakland, CA, 94611 Marie Hogan, Oakland, CA, 94611 Evangeline Brown, Oakland, CA, 94611 Gail Truman, Oakland, CA, 94611 Amy Buzick, Oakland, CA, 94611 Karen Bixby, Piedmont, CA, 94611 Judy Okolie, Oakland, CA, 94611 Andrea Faber, Oakland, CA, 94611 Joan Vanhorn, Oakland, CA, 94611 Maria Cavallo, Oakland, CA, 94611 Alexis Lavine, Oakland, CA, 94611

Jane Klein, Oakland,CA,94611 Marianne Wagner, Oakland,CA,94611 Amy Smith, Oakland,CA,94611 Dorothy Black, Oakland,CA,94611 Linda Propert Sanford, Oakland,CA,94611

Susan JunFish, Oakland, CA, 94611 Teri Jasman, Oakland, CA, 94611 Amy Farnstrom, Oakland, CA, 94611 Barbette Murphy, Oakland, CA, 94611 Mary Norcross, Oakland, CA, 94611 Deborah Parker, Oakland, CA, 94611 Marian Baldwin, Oakland, CA, 94611 Susan Troy, Oakland, CA, 94611 Rebecca Hill, Oakland, CA, 94611 June Monach, Piedmont, CA, 94611 Susan Stephenson, Oakland, CA, 94611 Barbara Koshkin, Oakland, CA, 94611 Pamela Mercer, Piedmont, CA, 94611 Anne Berry, Oakland, CA, 94611 Kara Mirmelstein, Oakland, CA, 94611 Victoria Shoemaker, Oakland, CA, 94611 Lauren Thor, Oakland, CA, 94611 Janis Falco, Oakland, CA, 94611

Colleen Lang, Oakland, CA, 94611 Jean Hansen, Piedmont, CA, 94611 Helaine Pleet, Oakland, CA, 94611 Evangeline Dee, Oakland, CA, 94611 Autumn McDonald, Oakland, CA, 94611 Suzanne Mcguado, Oakland, CA, 94611 Frances Aubrey, Oakland, CA, 94611 Angie Tadeo, Oakland, CA, 94611 Victoria Robinsom, Oakland, CA, 94611 Kathy Koshgarian, Oakland, CA, 94611 Deborah Miller, Oakland, CA, 94611 Marilyn Szabo, Oakland, CA, 94611 Lara Hata, Oakland, CA, 94611 Mary Clare Cawley, Oakland, CA, 94611 Jennifer Wilson, Oakland, CA, 94611 Patricia Leicher, Oakland, CA, 94611 Clare Ludouina, Oakland, CA, 94611 Sarah Puckett, Piedmont, CA, 94611 Bridget Schreiber, Oakland, CA, 94611 Debbie Mitchell, Oakland, CA, 94611 Kathy Ennix, Oakland, CA, 94611 Erin Forquer, Oakland, CA, 94611 Lynne Rice, Piedmont, CA, 94611

Sandra Stumbagh, Oakland,CA,94611 Michele Leavy, Oakland,CA,94611 Lisa Neville, Oakland,CA,94611 Margaret Shelleda, Oakland,CA,94611 Joyce Benna, Oakland,CA,94611 Sharon Pilmer, Oakland,CA,94611 Linda Permaul, Oakland,CA,94611 Kimberley Gilles, Oakland,CA,94611 Mimi Lou, Oakland,CA,94611 Danielle Wong Hookins, Oakland,CA,94611

Amy Hansen, Oakland,CA,94611 Josie Scruggs, Oakland,CA,94611 Jane Margold, Oakland,CA,94611 Marcia Gerrard, Piedmont,CA,94611 Jessica Strick, Oakland,CA,94611 Richard Granberg, Oakland,CA,94611 Valerie Villanueva, Piedmont,CA,94611 Sally Guzdar, Piedmont,CA,94611 Alexandra Charney, Oakland,CA,94611 Mary Sue Meads, Oakland,CA,94611 Edith Mills, Oakland,CA,94611 Annie Kersting, Piedmont,CA,94611 Sally Rubin, Oakland,CA,94611

Susan Chadwick, Oakland, CA, 94611 Jennifer Hugenberger, Oakland, CA, 94611 Roxanne Newman, Oakland, CA, 94611 Eileen Tutt, Oakland, CA, 94611 Dawn Pieper, Oakland, CA, 94611 Cheryl Davis, Piedmont, CA, 94611 Louise Corson, Oakland, CA, 94611 Judith Valladao, El Cerrito, CA, 94530 Lucy Smith, El Cerrito, CA, 94530 Lisa Lease, El Cerrito, CA, 94530 Linda Cain, El Cerrito, CA, 94530 Barbara Beatrice, El Cerrito, CA, 94530 Diane Davies, El Cerrito, CA, 94530 Pam Singer, El Cerrito, CA, 94530 Vivian Cheung, El Cerrito, CA, 94530 Jeanne Frost, El Cerrito, CA, 94530 Ada Fung, El Cerrito, CA, 94530 Erin Reiche, El Cerrito, CA, 94530 Ola Nordstrom, El Cerrito, CA, 94530 Nathalie Babazaden, El Cerrito, CA, 94530 Lisa Sterling, El Cerrito, CA, 94530 Maureen Zuerner, El Cerrito, CA, 94530

Erin Shuster, El Cerrito,CA,94530 Maryam Shapland, El Cerrito,CA,94530 Stephanie Oshiri, El Cerrito,CA,94530 Sue Akiyoshi, El Cerrito,CA,94530 Rhiannon Campbell, El Cerrito,CA,94530

Rory Craig, El Cerrito, CA, 94530 Anna Salnikova, El Cerrito, CA, 94530 Sabra Stepak, El Cerrito, CA, 94530 Shana Walt, El Cerrito, CA, 94530 Nancy Goolsby, El Cerrito, CA, 94530 Rebecca Hoag, El Cerrito, CA, 94530 Peggy Jones, El Cerrito, CA, 94530 Elizabeth Carty, El Cerrito, CA, 94530 Margaret Cohea, El Cerrito, CA, 94530 Robin Stewart, El Cerrito, CA.94530 Toby Halpern, El Cerrito, CA, 94530 Helen Dickey, El Cerrito, CA, 94530 Tamara Williams, El Cerrito, CA, 94530 Marie Muscardini, El Cerrito, CA, 94530 Rosemary Blaylock, El Cerrito, CA, 94530

Mimi Van Kirk, El Cerrito,CA,94530 Victoria Milnes, El Cerrito,CA,94530 Sarah Katten, El Cerrito,CA,94530 Sophia Owens, El Cerrito,CA,94530 Katie Rabinowitz, El Cerrito,CA,94530 Amber Richter, El Cerrito,CA,94530 Amanda Morrison, El Cerrito,CA,94530 Jennifer Gordon, El Cerrito,CA,94530 Debra Saunders, El Cerrito,CA,94530 Gina Barnes, El Cerrito,CA,94530 Sarah Sirchuk, El Cerrito,CA,94530 Elizabeth Nakahara, El Cerrito,CA,94530

Melinda Alagos, El Cerrito,CA,94530 Carol Katz, El Cerrito,CA,94530 Alice Towey, El Cerrito,CA,94530 Sandra Mulhearn, El Sobrante,CA,94803

Ariel Makow, El Sobrante,CA,94803 Deby Plaza, El Sobrante,CA,94803 Sara Theiss, Richmond,CA,94803 Mary Downs, El Sobrante,CA,94803 Ruth Block-Smith, Richmond,CA,94804 Yasmin Navarro, Richmond,CA,94804 Barbara Glendenning, Richmond,CA,94804

Cynthia Moe-Lobeda, Richmond, CA, 94805

Janette Russey, Richmond,CA,94805 Madelyn Covey, Richmond,CA,94805 Mary Lou Van Deventer, Richmond,CA,94805

Karin Fisher-Golton, Richmond, CA, 94805

Christine Hult-Lewis, Richmond, CA, 94805

Audrey Webb, Richmond, CA, 94805 Julia Goerlitz, Richmond, CA, 94805 Susan Brand, Richmond, CA, 94805 Andrea Burnett, Richmond, CA, 94805 Rosalind Scott, Richmond, CA, 94805 Jeanette Casarez, Richmond, CA, 94805 Helen Clifton, Richmond, CA, 94805 Susan Briston, Richmond, CA, 94805 Constance Stasinopoulos, Richmond, CA, 94805 Sahib Amar K Khalsa, Richmond, CA, 94805 Petra Daal, Richmond, CA, 94805 Debbie Tenenbaum, Berkeley, CA, 94703 Julia Danekas, Berkeley, CA, 94703 Ruth Henrich, Berkeley, CA, 94703

Hilary Goldman, Berkeley, CA, 94703 Sandra Bishop, Berkeley, CA, 94703 Pamela Belchamber, Berkeley, CA, 94703 Heather Kostrezewa, Berkeley, CA, 94703 Mimi Torres, Berkeley,CA,94703 Linda Arnold, Berkeley, CA, 94703 Jeannie Witkin, Berkeley, CA, 94703 Geraldine Nathan, Berkeley, CA, 94703 Zoe Kalkanis, Berkeley, CA, 94703 Teri Goodman, Berkeley, CA, 94703 Hilda Johnston, Berkeley, CA, 94703 Janine Johnson, Berkeley, CA, 94703 Heather Ball, Berkeley, CA, 94703 Jo Anne Welsch, Berkeley, CA, 94703 Maria Skabardonis, Berkeley, CA, 94703 Pamela Haenke-Clark, Berkeley, CA, 94703

Ligia Giese, Berkeley,CA,94703 Kristin Primus, Berkeley,CA,94703 Elsie Phillips, Berkeley,CA,94703 Julianna Dickey, Berkeley,CA,94703 Melissa Lee, Ber,CA,94703 Fran Maris, Berkeley,CA,94703 Marian Berges, Berkeley,CA,94703 Jaqueline Beth, Berkeley,CA,94703 Kathleen Castillo, Berkeley,CA,94703 Cynthia Papermaster, Berkeley,CA,94703

Cecilia Bowman, Berkeley, CA, 94703 Kathrine Randolph, Berkeley, CA, 94703 Jane Maxwell, Berkeley, CA, 94703 Anna Weidman, Berkeley, CA, 94703 Beverly Allphin, Berkeley, CA, 94703 Tamara Beliak, Berkeley, CA, 94703 Rianne Lovett, Berkeley, CA, 94703 Isabel Ribeiro, Berkeley, CA, 94703 Deborah Lloyd, Berkeley, CA, 94703 Gizzi Shoshana, Berkeley, CA, 94703 Chloe Chaudhry, Berkeley, CA, 94703 Sheila Jordan, Berkeley, CA, 94703 Serina Garst, Berkeley, CA, 94703 Claire Schoen, Berkeley, CA, 94703 Lisa Esherick, Berkeley, CA, 94703 Stephanie Piper, Berkeley, CA, 94701 Emily Castelli, Berkeley, CA, 94702 Sarah Matsumoto, Berkeley, CA, 94702 Kimberly Livingston, Berkeley, CA, 94702

Frances Lai, Berkeley, CA, 94702 Mary Ann Wight, Berkeley, CA, 94702 Gradiva Couzin, Berkeley, CA, 94702 Susan Sherk, Berkeley, CA, 94702 Catherine Lewis, Berkeley, CA, 94702 Ellen Rigsby, Berkeley, CA, 94702 Lisa London, Berkeley,CA,94702 Annemarie Miller, Berkeley, CA, 94702 Dorothy Miao, Berkeley, CA, 94702 Sheila Himmel, Berkeley, CA, 94702 Anne Richards, Berkeley, CA, 94702 Jasper Starbow, Berkeley, CA, 94702 Deanna Mason, Berkeley, CA, 94702 Jill Detweiler, Berkeley, CA, 94702 Kellie Stoddart, Berkeley, CA, 94702 Erika Larsson-Hall, Berkeley, CA, 94702 Candice Schott, Berkeley, CA, 94702 Beth Rockmill, Berkeley, CA, 94702 Nancy Dills, Berkeley, CA, 94702 Norma Myero, Berkeley,CA,94702 Bonnie Chan, Berkeley, CA, 94702 Roya Arasteh, Berkeley, CA, 94702 Peggy Radel, Berkeley, CA, 94702

Barbara Tassielli, Berkeley,CA,94702 Judy Chadwick, Berkeley,CA,94702 Laura Garciamoreno, Berkeley,CA,94702

Norma J F Harrison, Berkeley,CA,94702 Sana Saleem, Berkeley,CA,94702 Andrea Jones, Berkeley,CA,94702 Patricia Narell, Berkeley,CA,94702 Asano Fertig, Berkeley,CA,94702 Kathryn Cherbini, Berkeley,CA,94702 Janet Madden, Berkeley,CA,94702 Liz Varnhagen, Berkeley,CA,94702 Patricia Maud Engel, Berkeley,CA,94702

Angela Bottum, Berkeley,CA,94702 Mary Lou Watson, Berkeley,CA,94702 Jessica Wheelis, Berkeley,CA,94702 Janice Ruchlis, Berkeley,CA,94702 Susan Kopman, Berkeley,CA,94702 Hannah Neff, Berkeley,CA,94702 Rachelle Reindl, Berkeley,CA,94702 Jill Jin, Berkeley,CA,94702 Patricia Williams, Berkeley,CA,94702 Silvia Korchumova, Berkeley,CA,94702

Bridgett Bernhard, Berkeley, CA, 94702 Judy Daar, Berkeley, CA, 94702 Sharon Peeples, Berkeley, CA, 94702 Susan Sheftel, Berkeley, CA, 94702 Julie Dickerson, Berkeley, CA, 94702 Heather Wood, Berkeley, CA, 94702 Stephanie Greer, Berkeley, CA, 94702 Jennifer Love, Berkeley, CA, 94702 Kristen Hopper, Berkeley, CA, 94702 Charles Monroe, Berkeley, CA, 94702 Susana Witte, Berkeley, CA, 94702 Corinne Carlson, Berkeley, CA, 94702 Margaret Allen, Berkeley, CA, 94702 Carrie Hibbs, Berkeley, CA, 94704 Cheryl Greenway, Berkeley, CA, 94704 Pamela Jackson, Berkeley, CA, 94704 Carla Woodworth, Berkeley, CA, 94704 Kathryn Singh, Berkeley, CA, 94704 Michelle Segre-Bergtraun, Berkeley, CA, 94705 Julie Tippett, Berkeley, CA, 94705

Laura Johnson, Berkeley,CA,94705 Lauren Jenson, Berkeley,CA,94705 Crystal Brunzell, Berkeley,CA,94705 Emily Dybwad, Berkeley, CA, 94705 Esther Schroeder, Berkeley, CA, 94705 Daria Nikolaeva, Berkeley, CA, 94705 Donna Mickleson, Berkeley, CA, 94705 Suzanna Cortes, Berkeley, CA, 94705 Laura Cohen, Berkeley, CA, 94705 Julia Rickers, Berkeley, CA, 94705 Karen Smith, Berkeley, CA, 94705 Gail Weinheimer, Berkeley, CA, 94705 Melinda Marrchi, Berkeley, CA, 94705 Linda Schacht, Berkeley, CA, 94705 Kathryn Frank, Berkeley, CA, 94705 Marcia Donahue, Berkeley, CA, 94705 Lynn Zamarra, Berkeley, CA, 94705 Barbara Perry, Berkeley, CA, 94705 Laurie Soman, Berkeley, CA, 94705 Maureen Mitzhellwise, Berkeley, CA, 94705

Angela Jacobson, Berkeley,CA,94705 Margaret Ritchey, Berkeley,CA,94705 Nathalie Marie, Berkeley,CA,94705 Cindy Haag, Berkeley,CA,94705 Sally Hughes, Berkeley,CA,94705 Allegra Thompson, Berkeley,CA,94705

Nancy Salz, Berkeley, CA, 94705 Kristin Luker, Berkeley, CA, 94705 Orli Cotel, Berkeley, CA, 94705 Catherine McNelley, Berkeley, CA, 94705 Adam Harris, Berkeley, CA, 94705 Chrissy Hoffman, Berkeley, CA, 94705 Laura Marlin, Berkeley, CA, 94705 Dori Rutkevitz, Berkeley, CA, 94705 Tara Ellman, Berkeley, CA, 94705 Elise Kneram, Berkeley, CA, 94705 Marilyn Potter, Berkeley, CA, 94705 Marguerite Conrad, Berkeley, CA, 94705 Marcia Mcgaugh, Berkeley, CA, 94705 Catherine Jordan, Berkeley, CA, 94705 Susie Fazlollahi, Berkeley, CA, 94705 Nina Katz, Berkeley, CA, 94705 Erinn Nahid, Berkeley, CA, 94705 Jeannie Yip, Berkeley,CA,94705 Susan Lilly, Berkeley, CA, 94705 Rachel Antell, Berkeley, CA, 94705 Gail Stewart, Berkeley, CA, 94705 Ruth Bossieux, Berkeley, CA, 94705 Donna Mandel, Berkeley, CA, 94705

Michael Kong, Berkeley,CA,94705 Megan Garner, Berkeley,CA,94705 Helen Apthorp, Berkeley,CA,94705 Margaretta Mitchell, Berkeley,CA,94705 Holly Cole, Berkeley,CA,94705 Rani Marx, Berkeley,CA,94705 Martha Cain, Berkeley,CA,94705 Lindsay Mugglestone, Berkeley,CA,94705

Julia Tate, Berkeley,CA,94705 Maya Glenn, Berkeley,CA,94705 Joanna Macy, Berkeley,CA,94705 Thalia De Wolf, Berkeley,CA,94705 Barbara Thompson, Berkeley,CA,94705 Carol Ekberg, Berkeley,CA,94705 Tanya Spanier, Berkeley,CA,94705 Jean Ishimaru, Berkeley,CA,94705 Leanne Wydick, Albany,CA,94706 Diane Savage, Albany,CA,94706 Louise Berhau, Albany,CA,94706 Daisy Wu, Albany,CA,94706 Lisa De Elizalde Botha, Albany,CA,94706

Nancy Johnson, Albany, CA, 94706

Carol Swann, Albany, CA, 94706 Orca Starbuck, Albany, CA, 94706 Deborah Godner, Albany, CA, 94706 Amanda Goksel, Berkeley, CA, 94706 Trina Rymland, Albany, CA, 94706 Katherine Castro, Albany, CA, 94706 Marilyn Hall, Albany, CA, 94706 Lorraine Petti, Albany,CA,94706 Clementina Duron, Albany, CA, 94706 Chris Luppino, Albany, CA, 94706 Karen Carkhuff, Albany, CA, 94706 Ann Higgins, Albany, CA, 94706 Marie Monrad, Albany, CA, 94706 Helene Class, Albany, CA, 94706 Patrick Leonard, Albany, CA, 94706 Adriana Macias, Albany, CA, 94706 Janet Stock, Albany, CA, 94706 Mariette Shin, Albany, CA, 94706 Esther Dane, Albany, CA, 94706 Becky Leyser, Albany, CA, 94706 Joyce Rybandt, Albany, CA, 94706 Alesia Alonso, Albany, CA, 94706 Marion Russell, Albany, CA, 94706

Elsie De Laere, Albany, CA, 94706 Elena Czubiak, Albany, CA, 94706 Ann Chaney, Albany, CA, 94706 Diane Garcia, Albany, CA, 94706 Peggy Harris, Albany, CA, 94706 Deborah Georges, Berkeley, CA, 94706 Marisa Beltrao, Albany, CA, 94706 Jane Hara, Albany, CA, 94706 Cheryl Cheu, Kensington, CA, 94706 JoAnne Winter, Albany, CA, 94706 Deborah Smith, Albany, CA, 94706 Sarah Armstrong, Albany, CA, 94706 Nancy Togami, Berkeley, CA, 94706 Sandra Reid, Albany, CA, 94706 Barbara Mann, Albany, CA, 94706 Kendra Luck, Albany, CA, 94706 Anitra Mehl, Albany, CA, 94706 Katja Brose, Albany, CA, 94706 Linda Berkowitz, Albany,CA,94706 Steven Lehman, Albany, CA, 94706 Alice Mead, Albany, CA, 94706 Maureen Burchert, Albany, CA, 94706 Christine Seman, Albany, CA, 94706

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Patricia Zambryski, Berkeley, CA, 94707 Lisa Miner, Berkeley, CA, 94707 Susan Harris, Berkeley, CA, 94707 Karen Barker, Kensington, CA, 94707 Madge Gahagan, Berkeley, CA, 94707 Susanna Marshland, Berkeley, CA, 94707 Kathleen King, Berkeley, CA, 94707 Dayna Macy, Berkeley, CA, 94707 Trang Robinson, Berkeley, CA, 94707 Sheila Beeman, Berkeley, CA, 94707 Patty Harper, Berkeley, CA, 94707 Antonia Smith, Berkeley, CA, 94707 Elyce Klein, Berkeley, CA, 94707 Suzan Lundquist, Berkeley, CA, 94707 Cynthia Hecker, Berkeley, CA, 94707 Joyce Jackson, Albany, CA, 94707 Bridget Clarke, Berkeley, CA, 94707 Amy Easton, Berkeley, CA, 94707 Amy Dominguez-Arms, Berkeley, CA, 94707 Renee Jansen, Berkeley, CA, 94707 Karen BorstRothe, Berkeley, CA, 94707

Jane Anderson, Berkeley, CA, 94707

Lewis Williams, Berkeley, CA, 94707

Laura Howells, Berkeley, CA, 94707 Phyllis Dolhinow, Berkeley, CA, 94707 Stephanie Koester, Berkeley, CA, 94707 Lory Stevenson, Berkeley, CA, 94707 Paula Black, Berkeley, CA, 94707 Carmen Cook, Kensington, CA, 94707 Keren Stronach, Berkeley, CA, 94707 Glennis Briggs, Berkeley, CA, 94707 Ivy Sandz, Berkeley, CA, 94707 Wendy Swiggett, Berkeley, CA, 94707 Margaret Walker, Berkeley, CA, 94707 Sylvia Townsend, Kensington, CA, 94707 Joan Hollinger, Berkeley, CA, 94707 Catherine Willis, Berkeley, CA, 94707 Ann Shrieve, Berkeley, CA, 94707 Rita Geary, Berkeley, CA, 94707 Beth Katz, Berkeley, CA, 94707 Sheila Duignan, Berkeley, CA, 94707 Jessica Jones, Berkeley, CA, 94707 Carol Strand, Berkeley, CA, 94707 Amy Shen, Kensington, CA, 94707 Nancy Nielson, Berkeley, CA, 94707 Barbara Dilts, Kensington, CA, 94707

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Tara Rodarte, Pleasanton, CA, 94566 Rennie Tomley, Pleasanton ,CA ,94566 Linda Allison, Pleasanton, CA, 94566 Ida Hirst, Pleasanton, CA, 94566 Mary Rottice, Orinda ,CA ,94563 Kathy Sylvester, Orinda ,CA ,94563 Ilana Fontes, Orinda ,CA ,94563 Gloria Schiller, Orinda ,CA ,94563 Grace Shandalov, Orinda ,CA ,94563 Nancy Peterson, Orinda ,CA ,94563 Rola Innis, Orinda ,CA ,94563 Karen Triest, Orinda ,CA ,94563 Leona Anderson, Orinda, CA, 94563 Judith Marks, Orinda ,CA ,94563 Vicky Cheng, Orinda ,CA ,94563 Heather Kaeachi, Orinda ,CA ,94563 Laurie Heath, Orinda ,CA ,94563 Brandi Pearce, Orinda, CA, 94563 Betty Whitlatch, Orinda ,CA ,94563 Cassandra Forth, Orinda ,CA ,94563 Julie Hoffman, Orinda ,CA ,94563

Gretchen Latimer, Orinda ,CA ,94563 Jane Hyde, Orinda ,CA ,94563 Nancy Shaw, Orinda ,CA ,94563 Genevieve Smith, Orinda ,CA ,94563 Maureen Shindle, Orinda ,CA ,94563 Michelle Jun, Orinda ,CA ,94563 Barbara Leslie, Orinda ,CA ,94563 Jillian Lundstrom, Orinda ,CA ,94563 Renee Dahms, Orinda ,CA ,94563 Johanna Trickovic, Orinda ,CA ,94563 Janice Fong, Orinda ,CA ,94563 Kathy Stuart-Hill, Walnut Creek, CA, 94595 June Sardella, Walnut Creek, CA, 94595 Janet Iwanaga, Walnut Creek, CA, 94595 Sue Mason, Walnut Creek, CA, 94596 Rosemary Simoncini, Walnut Creek ,CA ,94596 Kate Loftus, Walnut Creek, CA, 94596 Cynthia Steiner, Walnut Creek, CA, 94596 Jeri Aylward, Walnut Creek ,CA ,94596 Barb Erickson, Walnut Creek ,CA ,94596

Janet Rogers, Walnut Creek ,CA ,94596

Robyn Hetland, Walnut Creek ,CA ,94596

Donna Pilcher, Walnut Creek ,CA ,94596

Allison Mathews, Walnut Creek ,CA ,94596

Anna Liolgin, Walnut Creek ,CA ,94596

Elizabeth Winkelman, Walnut Creek ,CA ,94596

Jen Kokko, Walnut Creek ,CA ,94596

Cheryl Wolff, Walnut Creek ,CA ,94596

Lee Ann Sosa, Walnut Creek ,CA ,94596

Roxanne Holm, Walnut Creek ,CA ,94596

Eva Leung, Walnut Creek ,CA ,94596

Patrice Jensen, Walnut Creek ,CA ,94596

Marsha Sato, Walnut Creek ,CA ,94596

Alice Felix, Walnut Creek ,CA ,94597

Traute Greene, Walnut Creek ,CA ,94597

Sarah Pohl, Walnut Creek ,CA ,94597 Arlene Ferguson, Walnut Creek ,CA ,94597

Meredyth Young, Walnut Creek ,CA ,94597

Ara Minasian, Walnut Creek ,CA ,94598

Mary Kastner, Walnut Creek ,CA ,94598

Moira Chanese, Walnut Creek ,CA ,94598

Mary Ann Wittenberg, Walnut Creek ,CA ,94598

Kathleen Dillwood, Walnut Creek ,CA ,94598

Joan Friedman, Walnut Creek ,CA ,94598

Glenda Dugan, Walnut Creek ,CA ,94598

Fredi Foye-Helms, Walnut Creek ,CA ,94598

Karin Waggener, Walnut Creek ,CA ,94598

Cynthia Mataraso, Walnut Creek ,CA ,94598

Chelsea Bourell, Walnut Creek, CA, 94595

Lesley Smith, Walnut Creek ,CA ,94595

Kathleen Ottaviano, Walnut Creek ,CA ,94596

Lu Einer, Walnut Creek ,CA ,94596 Anonymous Donor, Walnut Creek ,CA ,94596 Kamran Rassouli, Walnut Creek ,CA ,94596 Aaron Costa, Walnut Creek ,CA ,94596 Stacey Alexeeff, Walnut Creek ,CA ,94596

Stacy Hogue, Walnut Creek ,CA ,94596 Carston Niemeyer, Walnut Creek ,CA ,94596

Rob Johnson, Walnut Creek ,CA ,94596 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 Patrick Graney, Walnut Creek ,CA ,94596 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

David Franco, Walnut Creek ,CA ,94598

Corey Topper, Walnut Creek ,CA ,94598

Sj Mccann, Walnut Creek ,CA ,94598

Kelly Brown, Walnut Creek ,CA ,94598

Jon Garces, Walnut Creek ,CA ,94598

Matthew Rosenthal, Walnut Creek ,CA ,94598

Noel Berleman, Orinda ,CA ,94563

Bo Espinosa-Setchko, Orinda ,CA ,94563

Denise O'Shea, Orinda ,CA ,94563

Vanmai Tran, Orinda ,CA ,94563

David McGanney, Orinda ,CA ,94563

Julie Whitsitt, Orinda ,CA ,94563

Donna Mahoney, Orinda ,CA ,94563

Rosie Chester, Orinda ,CA ,94563

Cathlaine McGowan, Orinda ,CA ,94563

Reetta Raag, Orinda ,CA ,94563

Gavin Zylstra, Orinda ,CA ,94563

Lynn Barney, Orinda ,CA ,94563

Mary Rotticci, Orinda ,CA ,94563

MLiss Greenlee, Orinda ,CA ,94563

Bruce Schearer, Orinda ,CA ,94563 Shannon Pedroni, Orinda ,CA ,94563 Brett Hyden, Orinda ,CA ,94563 Kelly Tuggle, Orinda ,CA ,94563 Sean Munding, Orinda ,CA ,94563 Vidyaranya Devigere, Orinda ,CA ,94563

Dave Wright, Pleasanton ,CA ,94566 Spencer Ott, Pleasanton, CA, 94566 Chris Beatty, Pleasanton ,CA ,94566 Yuh Ling Yasui, Pleasanton ,CA ,94566 Keller Strother, Moraga ,CA ,94556 Ruperf Dusauzay, Moraga, CA, 94556 Scott Taylor, Moraga, CA, 94556 Mark Rivera, Danville ,CA ,94526 Simon Calloway, Danville ,CA ,94526 Lee Halverson, Danville ,CA ,94526 A Edwards, Danville ,CA ,94526 Lorey Konieczny, Lafayette ,CA ,94549 Jory Dille, Lafayette ,CA ,94549 Laura-Kate Rurka, Lafayette ,CA ,94549 Jeffa Thomas, Lafayette ,CA ,94549 Adelmira Banuelos, Lafayette, CA, 9454 Jennifer Kung, Lafayette, CA, 94549

Devon Walton, Lafayette, CA, 94549 Ronit Jorgensen, Lafayette, CA, 94549 Jan Moreno, Lafayette ,CA ,94549 Eva Handlers, Lafayette ,CA ,94549 Garrett Wong, Lafayette, CA, 94549 Jackie Marshall, Lafayette, CA, 94549 Meighan Abolins, Lafayette, CA, 94549 **Assembly District 18** Victoria Hamman, San Francisco, CA, 94114 Robert Gould, San Francisco, CA, 94114 David Bogdanoff, San Francisco ,CA ,94131 Wayne De Jong, San Francisco, CA, 94131 Michael Monley, San Francisco, CA, 94131 Douglas Konecky, San Francisco ,CA ,94131 Warren Saunders, San Francisco, CA, 94131 Robert Hinkson, San Francisco, CA, 94131 Jason Mass, San Francisco, CA, 94131 Michael Henchen, San Francisco, CA, 94131

Sean Cafferty, San Francisco ,CA ,94131 Daniel Steiger, San Francisco, CA, 94110 Joseph Taylor, San Francisco, CA, 94110 Dennis Haves, San Francisco, CA.94110 Marcus Keller, San Francisco ,CA ,94110 Paul McElvoy, San Francisco .CA .94110 Daniel Mason, San Francisco ,CA ,94110 William White, San Francisco, CA, 94110 Mark Reynolds, San Francisco, CA, 94110 Carlos Egar Jr, San Francisco ,CA ,94110 Owen Whitmare, San Francisco, CA.94110 David Wolf, San Francisco ,CA ,94110 Steven Braunstein, San Francisco, CA, 94114 Jacob Smolowe, San Francisco, CA, 94110 Andrew Gescheidt, San Francisco ,CA ,94114 Tracy Wymer, San Francisco, CA, 94110 Haldon Morgan, San Francisco ,CA ,94110 Paul Reeberg, San Francisco .CA .94114 Tony Iluccy, San Francisco, CA, 94110 Anthony Falzone, San Francisco, CA, 94114 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

Peter Harris, San Francisco, CA, 94114 Robert Dellaporte, San Francisco, CA, 94114 William Ehardt, San Francisco ,CA ,94114 Joseph Schmitz, San Francisco, CA, 94114 Thomas Leahy, San Francisco ,CA ,94114 Richard Sides, San Francisco, CA, 94114

Jiro Yamamoto, San Francisco ,CA ,94114 James Hicks, San Francisco, CA, 94114 Ron Clark, San Francisco ,CA ,94114 Al Crowell, San Francisco, CA, 94114 Colin Partridge, San Francisco, CA, 94114 Matthew Schwartz, San Francisco, CA, 94114 Kirby Counts, San Francisco, CA, 94114 Jeffrey Manese, San Francisco, CA, 94117 Jonelle Gausman, San Francisco, CA, 94117 Karen Stradford, San Francisco ,CA ,94117 Tim Debenedictis, San Francisco, CA, 94117 David Kelegian, San Francisco, CA, 94107 Gregory Lynch, San Francisco, CA, 94107 John Schwenger, San Francisco ,CA ,94107 Matt Brennan, San Francisco, CA, 94107 Roberto Bonilla, San Francisco, CA, 94107

Robert Miller, San Francisco, CA, 94107 Donald Schell, San Francisco, CA, 94107 Karrie Saehen, San Francisco, CA, 94131 Linda Leonard, San Francisco, CA, 94131 Shannon Latta, San Francisco ,CA ,94110 Karen Sutherlin, San Francisco, CA, 94110 Elisabeth Peters, San Francisco, CA, 94158 Erika Delacorte, San Francisco, CA, 94107 Caren Funke, San Francisco, CA, 94107 Laurel Rhoads, San Francisco, CA, 94107 Grace Huenemann, San Francisco, CA, 94107 Brittany Browning, San Francisco, CA, 94107 Kimberly Floren, San Francisco, CA, 94107 Gina Orofino, San Francisco, CA, 94107 Emily Oinen, San Francisco, CA, 94107

Linda Edelstein, San Francisco ,CA ,94107

Melinda Hall, San Francisco ,CA ,94107

Caroline Pulmer, San Francisco ,CA ,94107

Michele Hangee-Bauer, San Francisco ,CA ,94107

Laurie Herraiz, San Francisco ,CA ,94107

Victoria Cooke, San Francisco ,CA ,94107

Beth Garvey, San Francisco ,CA ,94110

Tanya Wischerath, San Francisco ,CA ,94110

Simmy Cover, San Francisco ,CA ,94110

Elia Meza, San Francisco ,CA ,94110

Kit Robberson, San Francisco ,CA ,94110

Catherine Art, San Francisco ,CA ,94110

Linda Weiner, San Francisco ,CA ,94110

Pauline Scott, San Francisco ,CA ,94110

Josephine Ramos, San Francisco ,CA ,94110

Sara Schaer, San Francisco ,CA ,94110 Gina Solomon, San Francisco ,CA ,94110 Barbara Barnes, San Francisco ,CA ,94110

Catherine Merrill, San Francisco ,CA ,94110

Jenifer Sims, San Francisco ,CA ,94110 Debra Murov, San Francisco ,CA ,94110

Maura Duggan, San Francisco, CA, 94110

Susan Lamagna, San Francisco, CA, 94110

Gwen Sidley, San Francisco ,CA ,94110

Margaret Weis, San Francisco ,CA ,94110

Lillian Reidy, San Francisco ,CA ,94110 Helen Norris, San Francisco ,CA ,94110

Barbara Attard, San Francisco ,CA ,94110

Karen Curtiss, San Francisco ,CA ,94110

Traci Boyle, San Francisco ,CA ,94110 Joanne Churchill, San Francisco ,CA ,94110

Susan Wong, San Francisco ,CA ,94110 Doris Flaherty, San Francisco ,CA ,94110

Mary McManamon, San Francisco ,CA ,94114

Edward Davidson, San Francisco ,CA ,94114

Sarah Nuernberger, San Francisco ,CA ,94114

Rhona O'Leary, San Francisco ,CA ,94114

Nina Krietzman, San Francisco, CA, 94114

Melody Knight, San Francisco ,CA ,94114

Jessie Howell, San Francisco ,CA ,94114

Michelle Pampin, San Francisco, CA, 94114

Ann Zuppann, San Francisco ,CA ,94114

Karen Klein, San Francisco ,CA ,94114 Alison Kelman, San Francisco ,CA ,94114

Susan Torres, San Francisco ,CA ,94114

Elaine Bitzel, San Francisco ,CA ,94114 Susan Green, San Francisco ,CA ,94114

Lisa Matthews, San Francisco ,CA ,94114

Rochelle Gottlieb, San Francisco ,CA ,94114

Linda Gorham, San Francisco ,CA ,94114

Lois Feller, San Francisco ,CA ,94114

Angie Zarikos, San Francisco ,CA ,94114

Constance Ferris Meyer, San Francisco ,CA ,94114

Donna Calame, San Francisco ,CA ,94114

Linda Marchi, San Francisco, CA, 94114

Siri Margerin, San Francisco, CA, 94117

Karen Ulring, San Francisco ,CA ,94117

Chloe A Milne, San Francisco ,CA ,94117

Carolynn Martin, San Francisco ,CA ,94117

Mary T Zablotny, San Francisco ,CA ,94117

Rene Yung, San Francisco ,CA ,94131

Norma Chew, San Francisco ,CA ,94131

Carol Savary, San Francisco ,CA ,94131

Patricia Caplan, San Francisco ,CA ,94131

Diana Rothermel, San Francisco ,CA ,94131

Kathleen Pabst, San Francisco ,CA ,94131

Mary Pitts, San Francisco ,CA ,94131

Pamela Koe, San Francisco ,CA ,94131

Elizabeth Erdos, San Francisco, CA, 94131

Lorraine Aiken, San Francisco ,CA ,94131

Marilee Hearn, San Francisco ,CA ,94131

Barbara Coffey, San Francisco ,CA ,94131

Patricia Busk, San Francisco ,CA ,94131

Adam Felling, San Francisco ,CA ,94131

Jake Saliba, San Francisco ,CA ,94131 Robin Smith, San Francisco ,CA ,94131 Tom Bodenheimer, San Francisco ,CA ,94131

Abra Williams, San Francisco, CA, 94131

Matt Forman, San Francisco ,CA ,94131 Johnson Livingston, San Francisco ,CA ,94110

Elias Colfax, San Francisco ,CA ,94110 Dina Martin, San Francisco ,CA ,94110 Yann Kerherve, San Francisco ,CA ,94110

Ron Longinotti, San Francisco ,CA ,94110

Cam Crary, San Francisco ,CA ,94110 Keli Wong, San Francisco ,CA ,94110 Nick Scheer, San Francisco ,CA ,94110 Torsten Christian, San Francisco ,CA ,94110

Leah Procopi, San Francisco ,CA ,94110

Kim McGee, San Francisco ,CA ,94110

Joseph Saginaw, San Francisco ,CA ,94110

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

Georrge Owyang, San Francisco ,CA ,94110

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

Richard Bonomi, San Francisco ,CA ,94110

Warren Gasper, San Francisco ,CA ,94114

Owen Christoph, San Francisco ,CA ,94114

Anonymous Donor, San Francisco ,CA ,94114

Peter Golbetz, San Francisco ,CA ,94114

Joshua Caron, San Francisco ,CA ,94114

Jan Boichel, San Francisco ,CA ,94114

Ninive Calegari, San Francisco ,CA ,94114

Sisse Leegaard, San Francisco ,CA ,94114

Anonymous Donor, San Francisco, CA 94114

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

Daniel Padilla, San Francisco ,CA ,94107

Jeff Sand, San Francisco,CA 94107

Stephanie Arend, San Francisco ,CA 94107

Daniel Gill, San Francisco ,CA ,94107 Assembly District 19

Greg Dunham, San Francisco ,CA 94117

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 Mike Gomez Jr, San Leandro, CA 94577 **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

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 Scott Mullin, San Leandro ,CA 94577 Rienie Bartolini, San Leandro ,CA 94577 Ken Harris, Redwood City ,CA 94061

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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

## **Assembly District 21**

Michael Pickett, Menlo Park, CA 94025 Glen Bethel, Palo Alto ,CA 94303 Ron Garbez, Menlo Park, CA 94025 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

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 Annie Walker, Redwood City ,CA 94062 Sydney Graham, Redwood City ,CA 94062

Stephanie Choi-Freeman, Menlo Park ,CA 94025

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

Cheryl L Perman, Redwood City, CA 94061

Yolanda Rosado, Redwood City ,CA 94061

Toni Summers, Redwood City ,CA 94061

Stacy Emory, Redwood City ,CA 94061

Meena Tahiliani, Redwood City, CA 94061

Michelle Discher, Redwood City ,CA 94061

Marcia Granucci, Redwood City, CA 94062

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

Catherine Moyer, Redwood City ,CA 94062

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 Kimberly Wiefling, Redwood City, CA 94062 Mary Campbell, Redwood City, CA 94062 Catherine Taylor, Redwood City, CA 94062 Gloria Maldonado, Redwood City, CA 94062 Alene Kremer, Redwood City, CA 94062 Betsey Taft, Redwood City, CA 94062 Jacqueline Rogers, Redwood City, CA 94062 Lori Beasley, Redwood City, CA 94062 Heather Sutherland, Redwood City, CA 94062

Judith Sullivan, Redwood City ,CA 94062

Shelly Hayes, Redwood City ,CA 94062 Sue Mitchell, Redwood City ,CA 94062

Deborah Henken, Redwood City ,CA 94062

Kathryn Morrison, Redwood City ,CA 94062

Marsha Lee Berkman, Redwood City ,CA 94062

Maryann Gonzales, Redwood City ,CA 94062

Margie Austin, Emerald Hills ,CA 94062

Laurie Nusser, Redwood City ,CA 94062

Cheryl Powell, Redwood City ,CA 94062

Camille Johnson, Redwood City ,CA 94062

Sandra Lyon, Emerald Hills ,CA 94062 Diane Leeds, Emerald Hills ,CA 94062 Ruth Gurney, Menlo Park ,CA 94025 Patricia Baile, Menlo Park ,CA 94025 Lisa Conrad, Menlo Park ,CA 94025 Donatella Rossignoli, Menlo Park ,CA 94025

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Hamza Derbas, Menlo Park ,CA 94025

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Ann Bilodeau, Menlo Park ,CA 94025

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Eleni Hopkins, San Jose ,CA 95125

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Paula Carr, San Luis Obispo ,CA 93401

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Mayenne Donkervoort, Santa Cruz ,CA 95062

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Lynda Graciany, Soquel, CA 95073 Thang Nguyen, Soquel, CA 95073 Anonymous Donor, Soquel ,CA 95073 Karina Nehrer, Soquel, CA 95073 Callan Carnenburgh, Soquel, CA 95073 Kasey Milligan, Soquel ,CA 95073 Barbra Hueber, Soquel ,CA 95073 Zach Dillon, Soquel ,CA 95073 Bernie Gomez, Soquel ,CA 95073 Leighan Novina, Soquel, CA 95073 Jme W, Soquel ,CA 95073 Jamie Nyland, Soquel ,CA 95073 Lee Loewy, Soquel ,CA 95073 Adam McKeon, Soquel, CA 95073 Mai Bui, Soquel, CA 95073 Lynn Bregman, Soquel ,CA 95073 Rendon Holloway, San Luis Obispo, CA 93401 Chris Stalp, San Luis Obispo, CA 93401 Courtney Marter, San Luis Obispo, CA 93401 Jameson Ritchie, San Luis Obispo, CA 93401 Richard Parsons, Pacific Grove, CA 93950

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John Dannenbaum, Santa Barbara ,CA 93105

Adam Kanold, Santa Barbara ,CA 93105

Matthew Pettit, Santa Barbara ,CA 93105

Robert Sowers, Santa Barbara ,CA 93105

Daniel Angel, Santa Barbara ,CA 93105 Samuel Pellicori, Santa Barbara ,CA 93105

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Belinda White, Santa Barbara ,CA 93105

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Henry Wildenborg, Santa Barbara ,CA 93105

Andrei Boudreau, Santa Barbara ,CA 93105

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Derek Rapp, Santa Barbara ,CA 93105

Alex Tuttle, Santa Barbara ,CA 93105

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Sean Mcclure, Santa Barbara ,CA 93101

Marshall Thomas, Santa Barbara ,CA 93101

Teddy Gasser, Santa Barbara ,CA 93101

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Shaw Mcfarlan, Santa Barbara ,CA 93103

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Arran Harvey, Santa Barbara ,CA 93103 Charles Barry, Santa Barbara ,CA 93103

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Collin Mcgrath, Santa Barbara ,CA 93103

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Jon Dillard, Santa Barbara ,CA 93103 Guillermo Gonzalez, Santa Barbara ,CA 93103 Darroch Greer, Santa Barbara, CA 93103 John McKinney, Santa Barbara, CA 93103 Jim Klingshirn, Santa Barbara, CA 93103 Jon Andersen, Santa Barbara, CA 93103 Corv Brabon, Santa Barbara, CA 93103 John Abraham, Santa Barbara, CA 93103 Robert Kershaw, Santa Barbara, CA 93103 Bill Thomas, Santa Barbara, CA 93101 Ken Yamamoto, Santa Barbara, CA 93101 Rob Cavaness, Santa Barbara, CA 93101 Doug McFarling, Santa Barbara, CA 93101 Alan Irwin, Santa Barbara, CA 93101 Michael Downey, Santa Barbara, CA 93101 Doug Hyland, Santa Barbara, CA 93101 Pablo Jimenez, Santa Barbara, CA 93101

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Otis Calef, Santa Barbara ,CA 93109 Tom Waterfall, Santa Barbara ,CA 93109

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Fe Mae, Ventura ,CA 93003 Susan Schulfer, Ventura, CA 93003 Karen McWorter, Ventura ,CA 93003 Erin Fraser, Ventura, CA 93003 Della Work, Ventura ,CA 93003 Vanessa Diaz, Ventura ,CA 93003 Victoria Sajonia, Ventura, CA 93003 Shelley Cassulo, Ventura, CA 93003 Sydney Harris, Ventura, CA 93003 Alma Smith, Ventura, CA 93003 Robyn Cromie, Ventura, CA 93003 Anna Soberanis, Ventura, CA 93003 Karen Davidson, Ventura, CA 93003 Jo Bowers, Ventura ,CA 93003 Carolyn Borchard, Ventura .CA 93003 Gabrielle Moes, Ventura, CA 93003 Kellie Love, Ventura ,CA 93003 Deborah Dawson, Ventura ,CA 93003 Laurel Schwartzkopf, Ventura ,CA 93003 Nancy Talley, Ventura ,CA 93003

Katy Montecino, Ventura ,CA 93003 Karen Sullivan, Ventura ,CA 93003 Marlene Frabasilio, Ventura ,CA 93003 Kathy Julian, Ventura ,CA 93003 Michelle Azimov, Ventura ,CA 93003 Kathryn Murillo, Ventura ,CA 93003 Lois Mccampbell, Ventura ,CA 93003 Christina Sisk, Ventura ,CA 93003 Holly Coggins, Ventura ,CA 93003 Rocio Zaragoza, Ventura ,CA 93003 Angelique Mahan, Ventura ,CA 93003 Janice McDonald, Ventura ,CA 93003 Kathleen Good, Ventura ,CA 93003

Janis McCann, Ventura ,CA 93003 Heather Casanave, Ventura ,CA 93003 Judy Scott, Ventura ,CA 93003 Wendy Ullrich, Ventura ,CA 93003 Kate Ramos, Ventura ,CA 93003 Christine Oneill, Ventura ,CA 93003 Kate Larsen, Ventura ,CA 93003 Kylee Autotte, Ventura ,CA 93003 Rory Locke, Ventura ,CA 93003 Mark Kirwin, Ventura ,CA 93003 Adrian Lopez, Ventura ,CA 93003 Dylan Freeman, Ventura ,CA 93003

Lorraine Lory, Ventura ,CA 93003 Franklin Dichter, Ventura, CA 93003 Fiorella Grava, Ventura ,CA 93003 Andres Moraza, Ventura, CA 93003 Melisa Chamberlain, Ventura, CA 93003 Kay Probasco, Ventura, CA 93003 Victor Ugarte, Ventura ,CA 93003 Alphie Siekiel-Zdzienicki, Ventura ,CA 93003 Henry Reily, Ventura ,CA 93003 Anaphe Chimarusti, Ventura ,CA 93003 Pamela Taylor, Ventura ,CA 93003 Brooke Shindelus, Ventura, CA 93003 Mary Rae, Ventura, CA 93003 Ernest Dragan, Ventura, CA 93003 Len Edward Burge, Ventura, CA 93003 Jimmy Young, Ventura, CA 93003 Arianna Freeman, Ventura, CA 93003 Grey Maple, Ventura, CA 93003 Keegan Cole, Ventura, CA 93003 Peter Sanchez, Ventura ,CA 93003 Benjamin Wilson, Ventura, CA 93003

Hayley Smith, Ventura ,CA 93003

Baliey Estrada, Ventura ,CA 93003

Vonise Friedman, Ventura ,CA 93003 Anonymous Donor, Ventura ,CA 93003 Payam Minoofar, Ventura ,CA 93003 Elided Trujillo, Ventura ,CA 93003 Daniel Deblase, Ventura ,CA 93003 Marion Holzwarth, Ventura ,CA 93003 Dana Armstrong, Ventura ,CA 93003 Michelle Rosenblum, Ventura ,CA 93003

Maiya Mclean, Ventura, CA 93003 Maria Tejeda, Ventura ,CA 93003 Carl Rhoads, Ventura, CA 93003 Aubrey Jacobs, Ojai ,CA 93023 Zayra Lopez, Ojai ,CA 93023 Michal Mitchell, Ojai ,CA 93023 Sydney Robertson, Ojai ,CA 93023 Oceane Mccord, Ojai ,CA 93023 Nichia Huxtable, Ojai ,CA 93023 Toni Nicholson, Ojai ,CA 93023 Dana Thompson, Ojai ,CA 93023 Kim Rapholz, Ojai ,CA 93023 Myrym Slosberg, Ojai ,CA 93023 Stephen Ehret, Ventura, CA 93001 Micheal Sheilds, Ventura, CA 93001

Marie-Lynne Gleeson, Ventura, CA 93001 Kenneth Pennington, Ventura, CA 93001 Matt Alan, Ventura, CA 93001 Jessie MacLeod, Ventura ,CA 93001 Cathy Kreigstein, Ventura, CA 93001 Tina Broccoli, Ventura, CA 93001 Torane Phelps, Ventura, CA 93001 Casey Jeon, Ventura, CA 93001 Anonymous Donor, Ventura, CA 93001 George Wickham, Ventura, CA 93001 Azura Naubuen, Ventura ,CA 93001 Christian Morris, Ventura, CA 93001 Jamie Hartley, Ventura ,CA 93001 Ulises Salgado, Ventura, CA 93001 Lee Gotwals, Ventura, CA 93001 Lynn Romero, Ventura, CA 93001 Maura O'Connor, Ventura, CA 93001 Courtney Yuan, Ventura, CA 93001 Sarah Hodson, Ventura, CA 93001 Madeline Frey, Ventura ,CA 93001 Robert Hunter, Ventura, CA 93001 Amanda Holte, Ventura, CA 93001

Noah Wholden Thomas, Ventura ,CA 93001

George Good, Ventura ,CA 93001

Baby Grace, Ventura ,CA 93001

Lily Cook, Ventura ,CA 93001

Nissa Gay, Ventura ,CA 93001

Ronnie Meyers, Ventura ,CA 93001

Fleeta Bair, Ventura ,CA 93001

Shannon Prentice, Ventura ,CA 93001

Fern Rose, Ventura ,CA 93001

Jerry Beckwith, Ventura ,CA 93001

Kim Fairchild, Ventura ,CA 93001

Denia Garfias, Ventura ,CA 93001

Margaret Adcock, Ventura ,CA 93001

### **Assembly District 42**

Andrew Grove, Pacific Palisades ,CA 90272 Dale Kiefer, Pacific Palisades ,CA 90272

Peter Greenwald, Pacific Palisades ,CA 90272

Mark Seymour, Leverett ,MA 1054

Jordan Harris, Pacific Palisades ,CA 90272

Christopher Dunn, Pacific Palisades ,CA 90272

Judith Freed, Pacific Palisades ,CA 90272

Diana Gould, Pacific Palisades ,CA 90272

Bernice Bell, Pacific Palisades ,CA 90272

Charlene Lawrence, Pacific Palisades ,CA 90272

Tanya Evtuhov, Pacific Palisades ,CA 90272

Jennifer McGaughey, Pacific Palisades ,CA 90272

Naomi Saucier, Pacific Palisades ,CA 90272

Kavita Srinivasan, Pacific Palisades ,CA 90272

Assembly District 46

Ron Arnold, Woodland Hills ,CA 91364

Jon Auchterlonie, Woodland Hills ,CA 91364

Kurt Alexander, Woodland Hills ,CA 91364

Joseph La Barbera, Woodland Hills ,CA 91364

Jim Doherty, Woodland Hills ,CA 91364

Gene Kovelman, Woodland Hills ,CA 91364

Thomas McGah, Woodland Hills ,CA 91364

Helen McBride, Woodland Hills ,CA 91364

Madeline Taylor, Woodland Hills ,CA 91364

Mary Killmond, Woodland Hills ,CA 91364

Carol Godsey, Woodland Hills ,CA 91364

Eloise Porter, Woodland Hills ,CA 91364 Jessica Ballard, Woodland Hills ,CA 91364

Linda De Witt, Woodland Hills ,CA 91364

Laura Letchinger, Woodland Hills ,CA 91364

Rhonda Plank-Richard, Woodland Hills ,CA 91364

Iryna Karsanova, Woodland Hls ,CA 91364

Ed Lucks, Woodland Hills ,CA 91364

**Assembly District 51** 

Bruce Rothschild, Santa Monica ,CA 90405

Doug Thomas, Santa Monica ,CA 90405 Matthew Peterson, Santa Monica ,CA 90405

Mike Waterhouse, Santa Monica ,CA 90405

Matt Perry, Santa Monica ,CA 90405 Hal Bogotch, Santa Monica ,CA 90405 Paul Salvo, Santa Monica ,CA 90405 Dorothy Chapman, Santa Monica ,CA 90405

Darlene Vogel, Santa Monica ,CA 90405 Betty Darlins, Santa Monica ,CA 90405

Laurel Joe, Santa Monica ,CA 90405

Kimberly Nieto, Santa Monica ,CA 90405

Elizabeth Ostrom, Santa Monica ,CA 90405

Margo Abbott, Santa Monica ,CA 90405

Daniel Ramirez, Santa Monica ,CA 90405

Casey Wilson, Santa Monica ,CA 90405

Andre Bruno, Santa Monica ,CA 90405

Matthew Bach-Lombardo, Santa Monica ,CA 90405

Assembly District 52

Jason Silver, Los Angeles ,CA 90026

Harvey Lane, Los Angeles ,CA 90026

Joe Geraci, Los Angeles ,CA 90026

Paul Dye, Los Angeles ,CA 90027

James Dillon, Los Angeles ,CA 90027

Steve Hanna, Los Angeles ,CA 90027 Gary Kaplan, Los Angeles ,CA 90027 Tyler Savage, Los Angeles ,CA 90027 Chelsea Bell, Los Angeles ,CA 90026 Jennifer Viola, Los Angeles ,CA 90026 Amy Shorr, Los Angeles ,CA 90027 Liz Cohen, Los Angeles ,CA 90027 Karyl Rapport, Los Angeles ,CA 90027 Amalia Alva, Los Angeles ,CA 90027 Roxanne Stys, Los Angeles ,CA 90027 Christian Szymczak, Los Angeles ,CA 90027

Roland Giedraitis, Los Angeles ,CA 90027

## **Assembly District 55**

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Jim Merlis, Culver City, CA 90230 Dennis Briggs, Culver City, CA 90230 Bryant Horowitz, Culver City, CA 90230 Ron Foster, Culver City, CA 90230 Dave Zakin, Culver City ,CA 90230 Alison Gifford, Culver City, CA 90230 Elizabeth Cowgill, Culver City, CA 90230 Ashleigh Matthias, Culver City, CA 90230 Carolina Chamecki, Culver City, CA 90230 Christine Marshall, Culver City, CA 90230 Susan Rosales, Culver City, CA 90230 Rebecca Stephenson, Culver City, CA 90230 Ronnie Kass, Culver City, CA 90230 Heidi Behforouz, Culver City ,CA 90230 Diana Zaslove, Culver City, CA 90230 Ashleigh Morales, Culver City, CA 90230 Josette Trux, Culver City, CA 90230 Jenn Engstrom, Culver City ,CA 90230 Bridgitte Langeneckert, Culver City, CA 90230 Anonymous Donor, Culver City ,CA 90230

**Assembly District 66** 

David Monahan, Manhattan Bch ,CA 90266

Brendan Fisher, Manhattan Beach ,CA 90266

Darren Kamjnoto, Manhattan Beach ,CA 90266

Andrew Spielberger, Manhattan Beach ,CA 90266

Walter Shaw, Manhattan Beach ,CA 90266

Christopher Simpson, Manhattan Beach ,CA 90266

Blum Conant, Manhattan Beach ,CA 90266

Sander Shipper, Manhattan Beach ,CA 90266

Mark Heaney, Manhattan Beach ,CA 90266

Dennis White, Manhattan Beach ,CA 90266

Richard Tedesco, Manhattan Beach ,CA 90266

John Corrales, Manhattan Beach ,CA 90266

Andy Moore, Manhattan Beach ,CA 90266

Craig Blum, Manhattan Bch ,CA 90266

Margaret Toberman, Manhattan Beach ,CA 90266

Samantha Buchanan, Manhattan Beach ,CA 90266

Elizabeth Coppedge, Manhattan Beach ,CA 90266

Patricia Monahan, Manhattan Beach ,CA 90266

Catherine Nall, Manhattan Beach ,CA 90266

Susan Carnan, Manhattan Beach ,CA 90266

Virginia Moore, Manhattan Beach ,CA 90266

Christine Starczak, Manhattan Beach ,CA 90266

Nicole Rodriguez Gasperov, Manhattan Beach ,CA 90266

Cathleen Dominguez, Manhattan Beach ,CA 90266

Liz Donahue, Manhattan Beach ,CA 90266

Tami Shalvarjian, Manhattan Beach ,CA 90266

Patricia Haught, Manhattan Beach ,CA 90266

Summer Sheets, Manhattan Beach ,CA 90266

Cami Wedbush, Manhattan Beach ,CA 90266

Pamela Nemzer, Manhattan Beach ,CA 90266

Annie Allen, Manhattan Beach ,CA 90266

Liz Donahue, Manhattan Beach ,CA 90266

Andi Zbojniewicz, Manhattan Beach ,CA 90266

Scott Beck, Manhattan Beach ,CA 90266

Camille Chittenden, Manhattan Beach ,CA 90266

Taylor Herron, Manhattan Beach ,CA 90266

Adriana Dworak, Manhattan Beach ,CA 90266

Mindala Wilcox, Manhattan Bch ,CA 90266

Laurie Content, Manhattan Beach ,CA 90266

Kelton Durham, Manhattan Beach ,CA 90266

Anneisabel Brousseau, Manhattan Beach ,CA 90266

Bert Donahue, Manhattan Beach ,CA 90266

#### Assembly District 69

Ray Mullio, Long Beach ,CA 90803 Tony Correa, Long Beach ,CA 90803 Gary Cote, Long Beach, ,CA 90803 Gil Cabble, Long Beach ,CA 90803 David Ickler, Long Beach ,CA 90803 Larry Monahan, Long Beach ,CA 90803 Matt Davidson, Long Beach ,CA 90803 James Ostach, Long Beach ,CA 90803 Laurence Sharma, Long Beach ,CA 90803

Karl Draney, Long Beach ,CA 90803 Carol Goldman, Long Beach ,CA 90803 Penny Hill, Long Beach ,CA 90803 Ericka Koester, Long Beach ,CA 90803 Andrea Spilsbury, Long Beach ,CA 90803

Kathleen Volchko Gallis, Long Beach ,CA 90803 Summer Rathswohl, Long Beach ,CA 90803 Nancy Mullio, Long Beach ,CA 90803 Kirstie Gaskey, Long Beach ,CA 90803 Tina Bowman, Long Beach ,CA 90803 Kristine Kelly, Long Beach ,CA 90803 Laurie Manzo, Long Beach ,CA 90803 Margaret Meloni, Long Beach ,CA 90803 Anonymous Donor, Long Beach ,CA 90803

Gordana Kajer, Long Beach ,CA 90803

Lee Mayer, Long Beach ,CA 90803

Lyn Diras, Long Beach ,CA 90803

Lynn Malis, Long Beach ,CA 90803

Amara Phelps, Long Beach ,CA 90803

Cris White, Long Beach ,CA 90803

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.<sup>1,2</sup> 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

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

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



## Tom W. Bell

Assistant Scientist

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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.

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. 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 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,

Tom Bell

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<sup>1</sup>. 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<sup>2</sup>, Henkel 2006<sup>3</sup>, Neuman et al. 2008<sup>4</sup>). 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

<sup>&</sup>lt;sup>1</sup> Graham and Largier 1997. <u>Upwelling shadows as nearshore retention sites: the example of northern</u> <u>Monterey Bay</u>. Continental Shelf Research, 1997

<sup>&</sup>lt;sup>2</sup>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.

<sup>&</sup>lt;sup>3</sup> Henkel 2004. <u>Seasonal Abundance of Marine Birds in Monterey Bay, California</u>. Western Birds: 126-146.

<sup>&</sup>lt;sup>4</sup> Neuman, Henkel, and Page. 2008. <u>Shorebird use of sandy beaches in central California</u> Waterbirds.

northern bight of the Bay (Figure 2) (Adams et al. 2012<sup>5</sup>). 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,<sup>6</sup> pelicans, and gulls.

An "Oasis Effect" has been described for these nearshore areas in California<sup>7</sup> 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<sup>8</sup>. The connection between nearshore and offshore forage fish dynamics figures importantly in the future conservation of these globally connected migratory species<sup>9</sup>.

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<sup>10</sup> 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,<sup>11</sup> often increasing the chances for harmful interactions with fisheries and other human activities. In the Monterey Bay, warming waters have led to habitat

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

<sup>&</sup>lt;sup>6</sup> [video] <u>Sooty Shearwaters on Monterey Bay feeding with Humpback Whales</u> (MB Whale Watch)

<sup>&</sup>lt;sup>7</sup>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.

<sup>&</sup>lt;sup>8</sup> 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.

<sup>&</sup>lt;sup>9</sup> <u>International Agreement on the Conservation of Albatrosses and Petrels</u> (Conservation of Migratory <u>Species</u>).

<sup>&</sup>lt;sup>10</sup> 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]

<sup>&</sup>lt;sup>11</sup>Pecl, Araju et al. 2017. <u>Biodiversity redistribution under climate change: Impacts on ecosystems and human well-being</u>. 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.<sup>12</sup> Other species such as Common Murre, Rhinoceros Auklets and Brandt's Cormorant engage in prey switching as a strategy to buffer prey availability<sup>13</sup>, 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,<sup>14</sup> 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<sup>15</sup>. Further, a global review by Cury et al. 2011 suggested a precautionary approach of leaving one third of the fish biomass for the seabirds<sup>16</sup>. 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<sup>17</sup>, Reef Check California) and beach monitoring (BeachCOMBERS, Nevins et al. 2011<sup>18</sup>). Since 1997, citizen scientists have been monitoring

<sup>&</sup>lt;sup>12</sup>Santora, Mantua et al. 2020. <u>Habitat compression and ecosystem shifts as potential links between</u> <u>marine heatwave and record whale entanglements</u>. Nature

<sup>&</sup>lt;sup>13</sup> Warzybok et al. 2018 <u>Prey switching and consumption by seabirds in the central California Current</u> upwelling ecosystem: Implications for forage fish management. J Marine Systems

<sup>&</sup>lt;sup>14</sup> Pichegru et al. 2012. <u>Industrial fishing, no-take zones and endangered penguins</u>. Biol. Cons. 156:117-125.

<sup>&</sup>lt;sup>15</sup>Ainley, Adams, Jahncke (eds). 2014 <u>Towards ecosystem-based fishery management in the California</u> <u>Current system-predators and the preyscape: a workshop.</u>

<sup>&</sup>lt;sup>16</sup>Cury et al. 2011. <u>Global Seabird Response to Forage Fish Depletion—One-Third for the Birds. Science</u>

<sup>&</sup>lt;sup>17</sup> 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.

<sup>&</sup>lt;sup>18</sup>Nevins, Benson, Phillips, de Marignac, DeVogelaere, Ames and Harvey. 2011. <u>Coastal Ocean Mammal</u> 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,

Spinh m. Menins

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)

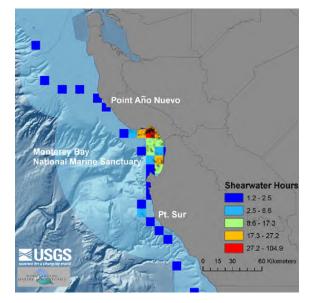


Figure 2. Satellite tracking of migratory Sooty Shearwaters indicate the valuable feeding area in northern Monterey Bay (red area). Northern area is proposed is for greater protection of forage fish important to migratory seabirds and sharks. (Data: USGS/MLML)



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.<sup>1</sup> 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.<sup>2</sup> 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.<sup>3</sup>

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

<sup>&</sup>lt;sup>1</sup> Meredith McPherson et. al, <u>Large-scale shift in the structure of a kelp forest ecosystem co-occurs with an epizootic</u> and marine heatwave, Communications Biology, March 5, 2021

<sup>&</sup>lt;sup>2</sup> 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.

<sup>&</sup>lt;sup>3</sup> 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.<sup>4</sup> 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.<sup>5</sup>

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.<sup>6</sup> 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.<sup>7</sup> 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. <sup>8</sup>

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.<sup>9</sup> The

<sup>&</sup>lt;sup>4</sup> James Horrox, Kelsey Lamp and Steve Blackledge. <u>New Life for the Ocean: How Marine Protections Keep Our</u> <u>Waters Wild</u>. Environment America Research & Policy Center & Frontier Group, February 3, 2021

<sup>&</sup>lt;sup>5</sup> Kirsten Grorud-Colvert *et al.*, <u>The MPA Guide: A framework to achieve global goals for the ocean</u>. *Science* **373**, eabf0861(2021). DOI:10.1126/science.abf0861

<sup>&</sup>lt;sup>6</sup> California Department of Fish and Wildlife. (2022). California's Marine Protected Area Network Decadal Management Review.;

<sup>&</sup>lt;sup>7</sup> Arafeh-Dalmau et al., <u>Integrating climate adaptation and transboundary management</u>: <u>Guidelines for designing climate smart marine protected areas</u>, One Earth 6, 1–19 November 17, 2023 <sup>a</sup> 2023 Published by Elsevier Inc.

<sup>&</sup>lt;sup>8</sup> 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.

<sup>&</sup>lt;sup>9</sup> Kirsten Grorud-Colvert *et al.*, <u>The MPA Guide: A framework to achieve global goals for the ocean</u>. *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.<sup>10</sup> 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

<sup>&</sup>lt;sup>10</sup> Kirsten Grorud-Colvert *et al.*, <u>The MPA Guide: A framework to achieve global goals for the ocean</u>. *Science* **373** ,0861(2021). DOI:10.1126/science.abf0861

Michelle María Early Capistrán Postdoctoral Scholar Stanford University

Paul Faulstich Emeritus Professor of Environmental Analysis Pitzer College

Brett Holland Faculty CSUS

Kathy Ann Miller Curator of Algae Herbarium, University of California

Dawn Murray Professor Antioch University

Erin Naegle STEM Dean of Instruction Cuesta College

Gretchen North Professor of Biology Occidental College

Gorka Sancho Professor College of Charleston

Robert Voeks Professor Cal State University, Fullerton, Department of Geography & the Environment Rikki Eriksen Director Marine Spatial Ecology California Marine Sanctuary Foundation

Sarah Hameed Blue Parks Director & Senior Scientist Marine Conservation Institute

Flora Lu Professor of Environmental Studies University of California, Santa Cruz

Lisa Murphy co-founder, primary researcher and educator Gold Country Bat Project

Jacquelin Mutter National One Water Planning Lead HDR

Hannahrose Nevins Seabird Ecologist Seabird Consultant

Carolina Olguin Jacobson Postdoctoral fellow Hopkins Marine Station of Stanford University

Joanna Tang PhD Candidate UCSB

Charles Zender Professor of Earth System Science University of California, Irvine STATE CAPITOL P.O. BOX 942849 SACRAMENTO, CA 94249-0030 (916) 319-2030 DISTRUCT OFFICES 857 SANTA ROSA STREET SAN LUIS 08(5PC), CA 83401

(805) 549 3001 99 PACIFIC STREET, SUITE 575G MONTEREY, CA 93540 (831) 649-2832 Assembly California Legislature DAWN ADDIS

COMMITTEES HIGHER EDUCATION MILITARY AND VETERANS AFFAIRS NATURAL RESOURCES PUBLIC EMPLOYMENT AND RETIREMENT RULES

SELECT COMMITTEES CHUR OFFSHORE WIND ENERGY IN CALIFORNIA CHUR SERVING STUDENTS WITH DISABILITIES

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.<sup>1</sup> 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.<sup>2</sup><sup>3</sup>

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).

<sup>&</sup>lt;sup>1</sup> Meredith McPherson et. al, <u>Large-scale shift in the structure of a kelp forest ecosystem co-occurs with</u> <u>an epizootic and marine heatwave</u>, Communications Biology, March 5, 2021

<sup>&</sup>lt;sup>2</sup> James Horrox, Steve Blackledge and Kelsey Lamp, "<u>New Life for the Ocean: How marine protections</u> <u>keep our waters wild</u>," Environment America Research and Policy Center & Frontier Group, February 2021.

<sup>&</sup>lt;sup>3</sup> Arafeh-Dalmau et al., <u>Integrating climate adaptation and transboundary management: Guidelines for</u> <u>designing climate smart marine protected areas</u>, One Earth 6, 1–19 November 17, 2023 <sup>a</sup> 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.<sup>4</sup> 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.<sup>5</sup> 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, 30<sup>th</sup> District

<sup>4</sup> James Horrox, Steve Blackledge and Kelsey Lamp, "<u>New Life for the Ocean: How marine protections</u> <u>keep our waters wild</u>," Environment America Research and Policy Center & Frontier Group, February 2021.

<sup>5</sup> California Department of Fish and Wildlife. <u>California's Marine Protected Area Network Decadal</u> <u>Management Review</u>. 2022.



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.<sup>1</sup> 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.<sup>2</sup> <sup>3</sup>

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.<sup>4</sup>

<sup>&</sup>lt;sup>1</sup> Meredith McPherson et. al, <u>escare shift in the surthaure of citeb</u> forest ecosystem co-occurs with an epizootic and <u>marine heatway</u>, Communications Biology, March 5, 2021.

<sup>&</sup>lt;sup>2</sup> James Horrox, Steve Blackledge and Kelsey Lamp, "<u>Now Life to the Ocean: How marine protections keep our waters</u> wild," Environment America Research and Policy Center & Frontier Group, February 2021.

<sup>&</sup>lt;sup>3</sup> Arafeh-Dalmau et al., <u>tracessing cointate adeptation and transhoundary management</u>: Guidelines for designing climate smart mario <u>proversionate</u>, One Earth 6, 1–19 November 17, 2023 <sup>a</sup> 2023 Published by Elsevier Inc.

<sup>&</sup>lt;sup>4</sup> James Horrox, Steve Blackledge and Kelsey Lamp, "<u>How Life to the Geean: How marine protections keep our waters</u> wild," Environment America Research and Policy Center & Frontier Group, February 2021.

California Fish and Game Commission November 30, 2023 Page 2

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.<sup>5</sup>

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,

7-

Fred Keeley Mayor

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<sup>&</sup>lt;sup>5</sup> California Department of Fish and Wildlife, <u>California's Marine Protected Area Ne work Decadal Management Review</u>, 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.<sup>1</sup> 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

<sup>&</sup>lt;sup>1</sup> Meredith McPherson et. al, <u>Large-scale shift in the structure of a kelp forest ecosystem co-occurs with an epizootic</u> 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.<sup>2</sup>

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.<sup>3</sup> 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.<sup>4</sup>

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.<sup>5</sup> By expanding protections for

<sup>&</sup>lt;sup>2</sup> García-Reyes, Marisol, Andrew Leising, Rebecca Asch, Steven Bograd, and Tessa M Hill. Rep. Indicators of Climate Change in California, <u>"Coastal Ocean Temperature"</u>, *California Office of Environmental Health Hazard Assessment*, 2022.

<sup>&</sup>lt;sup>3</sup> Arafeh-Dalmau et al., <u>Integrating climate adaptation and transboundary management: Guidelines for designing</u> climate smart marine protected areas, One Earth 6, 1–19 November 17, 2023 <sup>a</sup> 2023 Published by Elsevier Inc. <sup>4</sup> Jankowska, Emilia, et al. "<u>Climate Benefits from Establishing Marine Protected Areas Targeted at Blue Carbon</u>

Solutions." Proceedings of the National Academy of Sciences, vol. 119, no. 23, 2022.

<sup>&</sup>lt;sup>5</sup> 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. <sup>6</sup> 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

<sup>&</sup>lt;sup>6</sup> "Marine Life Protection Act." CDFW. https://wildlife.ca.gov/Conservation/Marine/MPAs/MLPA.

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

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



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



Cathy Crum, Agoura Hills, CA Roger Ewing, Agoura Hills, CA Debra Lichstein, Agoura Hills, CA Brian Jeffery, Aguanga, CA Geralyn Gulseth, Alameda, CA David Howard, Alameda, CA Mike Kehl, Alameda, CA Jamie Le, Alameda, CA Andrew Mueckenberger, Alameda, CA Donna Pedroza, Alameda, CA Mana-Jean Wagnon, Alameda, CA Michael Grant White, Alameda, CA Joseph Woodard, Alameda, CA Connie Diernisse, Alamo, CA Ehren Mierau, Alamo, CA Ana Black, Albany, CA Llll D, Albany, CA Christopher Hamilton, Albany, CA Michael Sullivan, Albany, CA Lisa Wenzel, Albany, CA Barbara Williamson, Albany, CA Dobby Sommer, Albion, CA Annemarie Weibel, Albion, CA Tom Atha, Alhambra, CA Araceli Aviles, Alhambra, CA Anjanette Caron, Alhambra, CA David Gallardo, Alhambra, CA Angel Orona, Alhambra, CA Christine Sirias, Alhambra, CA Laurie Barre, Altadena, CA

Vic Bostock, Altadena, CA Timothy Callahan, Altadena, CA G Devine, Altadena, CA Beth Herndobler, Altadena, CA Jennifer Herstein, Altadena, CA Venetia Large, Altadena, CA Annamarie Jones, Alturas, CA Thomas Mccombs, American Canyon, CA Robert Raven, American Canyon, CA Nora Coyle, Anaheim, CA Shauna Gonzalez, Anaheim, CA Penelope Harms, Anaheim, CA Jane Iacovetti, Anaheim, CA Karen Malley, Anaheim, CA Tim Maurer, Anaheim, CA Natalie Blasco, Anderson, CA Sharon Lieberman, Annapolis, CA Melissa Brooks, Antelope, CA Jessica Mitchell-Shihabi, Antelope, CA John Nadolski, Antelope, CA Leslie Clement, Antioch, CA Lindsey Kalfsbeek, Antioch, CA Dennis Cajas, Apple Valley, CA Julia Deasley, Apple Valley, CA Val Wren, Apple Valley, CA Carol Easton, Aptos, CA Michele Faia, Aptos, CA Bonnie Gessler, Aptos, CA Blaise Brockman, Arcadia, CA Jana Harker, Arcadia, CA



Penn Patton, Arcadia, CA Richard Wightman, Arcadia, CA Jeannie Gunn, Arcata, CA Connie Lindgren, Arcata, CA Rudy Ramp, Arcata, CA Sophie Rocheleau, Arcata, CA Jane Spini, Arcata, CA Kimberly Tays, Arcata, CA Mary Finch, Aromas, CA Barbara Frances, Aromas, CA Paul Lapidus, Aromas, CA Sherry Pennell, Aromas, CA Mary Orcutt, Arroyo Grande, CA Verona Rebow, Arroyo Grande, CA Mary Simmons, Arroyo Grande, CA Mitchell Falkenstern, Atascadero, CA Tara Gonzales, Atascadero, CA Helena Hernandez, Atascadero, CA Kathleen Van Every, Atascadero, CA Gabriele Miatkowski, Athens, CA Marilyn Barthelow, Auburn, CA Jana Boccalon, Auburn, CA Kermit Carraway, Auburn, CA Denise Redden, Auburn, CA Shawn Jones, Avila Beach, CA Jere Wilkerson, Avila Beach, CA Silvia Rocha, Azusa, CA Linda Alvarado, Bakersfield, CA Jim Carnal, Bakersfield, CA Jennifer Cartwright, Bakersfield, CA

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Lisa McGurrin, Cambria, CA Katherine Bossange, Campbell, CA Barbara Mason, Campbell, CA Louise Perry, Campbell, CA Anne Swanson, Campbell, CA Judy Wang, Campbell, CA George Steinitz, Campo, CA Mark Giordani, Canoga Park, CA Alan Johnson, Canoga Park, CA Sheila Winston, Canoga Park, CA Lynda Cook, Canyon Country, CA Ramona Agin, Canyonville, CA Tim Ryan, Capistrano Beach, CA Matt Bender, Cardiff by the Sea, CA Mercedes Benet, Carlsbad, CA Angie G., Carlsbad, CA Lois Ingber, Carlsbad, CA Phyllis Lackey, Carlsbad, CA Erica Murray, Carlsbad, CA Alexa Pallas, Carlsbad, CA Michael Parry, Carlsbad, CA Avi Shaprut, Carlsbad, CA Peter Brickey, Carmel, CA Alyce Foster, Carmel, CA Diana North, Carmel, CA Lonni Trykowski, Carmel, CA Julie Dalton, Carmel by the Sea, CA Elizabeth Adan, Carmichael, CA Nancy Bukowski, Carmichael, CA Warren Hageman, Carmichael, CA

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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,

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



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,

(Ah-A-

Clara Castronovo State Board Chair CALPIRG Students

Camellia Cartland, Alhambra, CA Mary Ann Gutierrez, Alhambra, CA Jaylene Madrid, Apple Valley, CA Ainsley Wilkin, Apple Valley, CA TREINA LE, Baldwin Park, CA Erika Alfaro, Berkeley, CA Erik Beahrs, Berkeley, CA Sophia Brodie-Weisberg, Berkeley, CA Julissa Esparza, Berkeley, CA Ellen Franzen, Berkeley, CA Olivia Hom, Berkeley, CA Kaki Li, Berkeley, CA Ryan Montis, Berkeley, CA Stachi Thockchom, Berkeley, CA Mingi Wang, Berkeley, CA Caroline Yee, Berkeley, CA Erinne Yoo, Berkeley, CA Erik Hart, Bonny Doon, CA Kofi Addo, Buena Park, CA Taylor Keppel, Burbank, CA Monica Wiesener, Calabasas, CA Radha Jujare, Campbell, CA Adrian Contreras, Capitola, CA Jane Giza, Carmichael, CA Eduardo Angel Hurtado, Chula Vista, CA Roxanna Braganca, Chula Vista, CA Rachel Burnett, Concord, CA Alexis Hammond, Coronado, CA

Mark Danilak, Cupertino, CA Marea Avala, Davis, CA Aster Basnick, Davis, CA Harriet Chilton, Davis, CA ReJenai Cloy, Davis, CA Rena Cohen, Davis, CA Olivia Lim, Davis, CA Seth Marshall, Davis, CA An Nguyen, Davis, CA Trevor Ottoson, Davis, CA Madelyn Parker, Davis, CA Caitlin Perea, Davis, CA Emmalie Perez, Davis, CA Aaron Saint John, Davis, CA Samuel Saxe-Taller, Davis, CA Percival Singson, Davis, CA Avery Thau, Davis, CA Josue Velasquez, Davis, CA Mackenna Weems, Davis, CA hilary wang, Diamond Bar, CA Ariadne meza-lopez, Diamond Springs, CA Ria Dadia, Dublin, CA Aziz Abdulahad, El Cajon, CA Claire Wang, El Cajon, CA Eythana Miller, Emeryville, CA Rosina Miranda, Fair Oaks, CA Michael Assmus, Fairfax, CA julie park, Fountain Valley, CA

Jasmine Avila Soria, Fremont, CA Baotran Nguyen, Fremont, CA Alex Sanchez, Fresno, CA Kelalani Luong-Kha, Garden Grove, CA Toby Ngo, Garden Grove, CA Ariaeli Hernandez, Gilroy, CA Nathan Carbajal, Goleta, CA Ana Cardenas Gasca, Goleta, CA Kittamet Chanchaiworawit, Goleta, CA Lizzie Harding, Goleta, CA Lluvia Medina, Goleta, CA Mariana Morton, Goleta, CA Joanna Tang, Goleta, CA joanna tang, Goleta, CA Bradley Thomas, Goleta, CA Henry Lindhurst, Granite Bay, CA Peter Le, Hawthorne, CA adriana zapotitla, Indio, CA Kimberly Torres, Industry, CA Andy Fleischer, Irvine, CA Rhianna Heaster, Irvine, CA Anisa Johnson, Irvine, CA Nathaniel Jordan, Irvine, CA Hudson Lee, Irvine, CA Henson Ning, Irvine, CA Ash Quan, Irvine, CA Lucie Villata, Irvine, CA Karen Yan, La Jolla, CA

Charlee Marlinga, La Quinta, CA Gianna Wright, La Ouinta, CA Nathaniel Friedman, Lafavette, CA Emma Contreras, Lemon Grove, CA Samikshaya Auanthakrisknan, Lincoln, CA Elina Dern, Lincoln, CA Jennifer Gonzalez-Espinoza, Lindsay, CA Kristi Copeland, Long Beach, CA Liam Williams, Long Beach, CA Lexi Crilley, Los Altos Hills, CA Hoque Akter, Los Angeles, CA Kimberly Barrueta, Los Angeles, CA Gabby Ebrahimi, Los Angeles, CA Bahar Farzaneh, Los Angeles, CA Janine Fischer, Los Angeles, CA Tyler Holmes, Los Angeles, CA Kieran Johnson, Los Angeles, CA Lucy Kaff, Los Angeles, CA Daniel Lamas Sanchez, Los Angeles, CA Dean Lewis, Los Angeles, CA Kainoa MacDonald, Los Angeles, CA Darla Marie Duffy, Los Angeles, CA Alayah Marshall, Los Angeles, CA Mireya Mondragon, Los Angeles, CA Lilia Naylor, Los Angeles, CA Alina Orendain-Calderon, Los Angeles, CA Shannon Park, Los Angeles, CA Owen Pogue, Los Angeles, CA

Lizbeth Rivera, Los Angeles, CA Alondra Roque, Los Angeles, CA Jonas Shladovsky, Los Angeles, CA madelyn spence, Los Angeles, CA Anita Theng, Los Angeles, CA Nataly Villasenor, Los Angeles, CA Rujin Yu, Los Angeles, CA Jonathan Giang, Monterey Park, CA Sam Strieter, Moreno Valley, CA Samantha Strieter, Moreno Valley, CA Lizzie Su, Mountain House, CA Angel Parra, Murrieta, CA Eleanor Vo, Oakland, CA Alonzo Canete, Ontario, CA Lori Shen, Ontario, CA Jacqueline Barnes, Palo Alto, CA Alicia Acevedo, Perris, CA Morgen Guzman, Petaluma, CA Ruth Simon, Placentia, CA Danae Delgado-Diaz, Pomona, CA Rachel Lucine, Rancho Cucamonga, CA Kurubel Tesfay, Rancho Palos Verdes, CA Cassidy Creighton, Redwood City, CA Ren Romero, Redwood City, CA Nicole Castillo, Richmond, CA Lida Halilovic, Riverside, CA Ryan LaCasse, Riverside, CA Hannah Kae Monson, Riverside, CA

Katharine Pan, Riverside, CA Paige Smith, Riverside, CA Laurel Tennant, Riverside, CA Esteban Torres, Riverside, CA Jennifer Vo, Riverside, CA Sage Prudente, Rocklin, CA Olivia Teich, Rohnert Park, CA Panka Kernacs, Sacramento, CA Megyn Horton, San Anselmo, CA Nox Keel, San Clemente, CA Yingqi Cao, San Diego, CA Mekayli Claros, San Diego, CA Avamarie Fromm, San Diego, CA Camila Gonzalez, San Diego, CA Benjamin Greenstein, San Diego, CA Xiaoyu Gui, San Diego, CA Anne Huynh, San Diego, CA Michael Iter, San Diego, CA Katrina Mai, San Diego, CA Lizard Merrick, San Diego, CA Ava Ramirez-Brown, San Diego, CA Dhruv Sehgal, San Diego, CA Sarah Song, San Diego, CA Isabella Wagner, San Diego, CA Lucy Yang, San Diego, CA Rachel, San Diego, CA Nadia Nehme, San Francisco, CA Caroline Sykes, San Francisco, CA

Tatiana Aguilera, San Leandro, CA Anjuli Oey, San Leandro, CA Lilly Wolf-Hoy, San Marcos, CA Elise Won, San Mateo, CA Yahir Alexis Leal, Santa Ana, CA Belen Cordova, Santa Cruz, CA Chaitan Butte, Santa Monica, CA Nikolas Brandt, Sebastopol, CA Natalie Bai, Stanford, CA Sofia Perez, Temecula, CA Elena Picinich, Temecula, CA Jiovanni Esteveec, Temple City, CA Brent Pitts, Torrance, CA Eva Pullen, Truckee, CA Audrey Robertson, Tustin, CA samael yang, Union City, CA Emily Arana, Vacaville, CA melissa fryar, Vacaville, CA Taylor Arrington, Vallejo, CA Natalie Rodriguez, West Covina, CA

Sara Morris, Whittier, CA Claire Griffiths, Yorba Linda, CA Neilyn Alvarez-Rodriguez, CA Diana Cardova, CA Anna Chuang, CA Dharma Gutierrez Romero, CA Wafaa Lawai, CA Markus Mantyvaara, CA Nayeli Orozco, CA Kenya Santamaria, CA Maia Boell, Carroll, IA Charlie Cronenwett, Leawood, KS Michael Basmajian, Somerville, MA Miranda Sih, Minneapolis, MN Julianna Evinski, Linwood, NJ John Dunn, Morristown, NJ Benito Morales, , WA Ava Png, Weston, WI Shashank Uma Deepak Titouan Faure,

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.<sup>1</sup> 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.<sup>2</sup> 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.<sup>3</sup>

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).

<sup>&</sup>lt;sup>1</sup> Meredith McPherson et. al, <u>Large-scale shift in the structure of a kelp forest ecosystem co-occurs with an epizootic</u> and marine heatwave, Communications Biology, March 5, 2021

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

<sup>&</sup>lt;sup>3</sup> García-Reyes, Marisol, Andrew Leising, Rebecca Asch, Steven Bograd, and Tessa M Hill. Rep. Indicators of Climate Change in California, <u>"Coastal Ocean Temperature"</u>, *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.<sup>4</sup> 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.<sup>5</sup>

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.<sup>6</sup> 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.<sup>7</sup> 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.<sup>8</sup>

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

<sup>&</sup>lt;sup>4</sup> Arafeh-Dalmau et al., <u>Integrating climate adaptation and transboundary management</u>: <u>Guidelines for designing climate smart marine protected areas</u>, One Earth 6, 1–19 November 17, 2023 <sup>a</sup> 2023 Published by Elsevier Inc.

<sup>&</sup>lt;sup>5</sup> Jankowska, Emilia, et al. "<u>Climate Benefits from Establishing Marine Protected Areas Targeted at Blue Carbon</u> <u>Solutions</u>." *Proceedings of the National Academy of Sciences*, vol. 119, no. 23, 2022.

<sup>&</sup>lt;sup>6</sup> California Department of Fish and Wildlife. (2022). California's Marine Protected Area Network Decadal Management Review.

<sup>&</sup>lt;sup>7</sup> California Department of Fish and Wildlife. (2022). California's Marine Protected Area Network Decadal Management Review.

<sup>&</sup>lt;sup>8</sup>Ibid Kirsten Grorud-Colvert *et al.*, <u>The MPA Guide: A framework to achieve global goals for the ocean</u>. *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 President Davis College Democrats

Hannah HughesPresident5C Plant-Based Mission at the Claremont Colleges



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



Betty Canter, Agoura Hills, CA Cathy Crum, Agoura Hills, CA Diane King, Agoura Hills, CA Tamara Lesser, Agoura Hills, CA Brian Jeffery, Aguanga, CA Amber Bales, Alameda, CA John Brooks, Alameda, CA Barbara Cone, Alameda, CA Zachary Gray, Alameda, CA Mike Kehl, Alameda, CA Angie Klein, Alameda, CA Andre Kruglikov, Alameda, CA Brian J McGuire, Alameda, CA Andrew Mueckenberger, Alameda, CA Alexandra Mummery, Alameda, CA Jack Rafferty, Alameda, CA Gina Rivera, Alameda, CA Barbara Snethen@gmail.com, Alameda, CA James Stehr, Alameda, CA Joshua Summit, Alameda, CA Kathryn Warner, Alameda, CA Ehren Mierau, Alamo, CA Sandra Beckley, Albany, CA Linda Berkowitz, Albany, CA Susan Burr, Albany, CA Bart Grossman, Albany, CA Tami Jordan, Albany, CA Raymond Neutra, Albany, CA Paula Rini, Albany, CA Steven Schultz, Albany, CA

Kym Sterner, Albany, CA Michael Sullivan, Albany, CA Araceli Aviles, Alhambra, CA Cindy Coty, Alhambra, CA Lynda Harris, Alhambra, CA Joseph Manza, Alhambra, CA John Perez, Alhambra, CA Alec Taratula, Alhambra, CA Annetta Bettis, Aliso Viejo, CA Andrea Bonnett, Altadena, CA Jason Capell, Altadena, CA Patrick Ela, Altadena, CA Andre Ettinger, Altadena, CA Beth Herndobler, Altadena, CA Joan Kahn, Altadena, CA Althea Kennedy, Altadena, CA Carol Lachata, Altadena, CA Linda Nishio, Altadena, CA Julie Parker, Altadena, CA Allan Wasserman, Altadena, CA Christina Imhoof, An Diego, CA Bruce Bluestein, Anaheim, CA Drew Cartwright, Anaheim, CA Thuan Do, Anaheim, CA Robert Jansen, Anaheim, CA Charles Richmond, Anaheim, CA Michelle Smith, Anaheim, CA Natalie Blasco, Anderson, CA Donna Crane, Anderson, CA lynmari calabi, Angwin, CA



Sharon Lieberman, Annapolis, CA Jessica Mitchell-Shihabi, Antelope, CA Shirene Saunby, Antelope, CA Lindsey Kalfsbeek, Antioch, CA Bernadine Sequeira, Antioch, CA James Alfred Smith, Jr., Antioch, CA Stanley Hodge, Apple Valley, CA Norbert Benecke, Aptos, CA LeAnn Bjelle, Aptos, CA Katherine Doctor, Aptos, CA Michele Faia, Aptos, CA Jane Goddard, Aptos, CA Jeanne Lance, Aptos, CA Alan Schenck, Aptos, CA Edward Shapiro, Aptos, CA Denis Elliott, Arcadia, CA Jason Park, Arcadia, CA Jeanne Roberts, Arcadia, CA Mikal Baker, Arcata, CA Connie Lindgren, Arcata, CA Sophie Rocheleau, Arcata, CA Jerry McNamara, Arnold, CA Brian Harris, Arroyo Grande, CA Linda Kohler-Trott, Arroyo Grande, CA Landon Neustadt, Arroyo Grande, CA Joseph Read, Arroyo Grande, CA Gregory Ross, Arroyo Grande, CA Thomas Tucker, Arroyo Grande, CA Corinne Huckaby, Atascaderi, CA Scott Burgess, Atascadero, CA

Ellen Evans, Atascadero, CA John Farhar, Atascadero, CA Patti Frey, Atascadero, CA Kelly Martin, Atherton, CA James Neupert, Atherton, CA Jena Norton, Atwater, CA Marilyn Barthelow, Auburn, CA Caralee Clarke, Auburn, CA Roxanne Hill, Auburn, CA David Hooper, Azusa, CA Solomon Pulgar, Azusa, CA Roger Anderson, Bakersfield, CA Matthew Barajas, Bakersfield, CA Jim Carnal, Bakersfield, CA Caryn Cowin, Bakersfield, CA Richard Reed, Bakersfield, CA Yolanda Berumen, Baldwin Park, CA Jesse Calderon, Baldwin Park, CA Cherilyn Cibelli, Beaumont, CA Mohamed Chahine, Bell Gardens, CA Yazmin Gonzalez, Bellflower, CA Jason Nolasco, Bellflower, CA Shiela Cockshott, Belmont, CA Giovannina Fazio, Belmont, CA Valerie Gould, Belmont, CA Kimberly Knapp, Belmont, CA Tracy Molyneux, Belmont, CA Robert Sharp, Belmont, CA Angela Gantos, Belvedere Tiburon, CA Barbara Meislin, Belvedere Tiburon, CA



Sandra Wolfe, Belvedere Tiburon, CA Nancy Phillips, Ben Lomond, CA Dorothy Renaud, Ben Lomond, CA Raf Strudley, Ben Lomond, CA Colleen Walter, Ben Lomond, CA Judith Amlin, Benicia, CA Cathy Bennett, Benicia, CA Peter Bray, Benicia, CA Dannys Cody, Benicia, CA Joni Grisham, Benicia, CA Nancy Lund, Benicia, CA Twila Newey, Benicia, CA Marylee Parr, Benicia, CA Christian Phillips, Benicia, CA Annina Puccio, Benicia, CA Robert Quarrick, Benicia, CA Jessica Smith, Benicia, CA Mimi Abers, Berkeley, CA Inger Acking, Berkeley, CA Stephen Alpert, Berkeley, CA Pamela Baird, Berkeley, CA Robert Baird, Berkeley, CA Karl Battenbowman, Berkeley, CA James Blakly, Berkeley, CA Lois Brubeck, Berkeley, CA Nancy Carleton, Berkeley, CA Eileen Cohen, Berkeley, CA Craig Collins, Berkeley, CA Alexandra Crisafulli, Berkeley, CA Janis Dairiki, Berkeley, CA

Anya Davis, Berkeley, CA Richard Entenman, Berkeley, CA Christopher Evans, Berkeley, CA Hyacinth Fleming, Berkeley, CA Ellen Franzen, Berkeley, CA Rachel Gordon, Berkeley, CA Martha Griswold, Berkeley, CA Stefanie Guynn, Berkeley, CA Doug Hamilton, Berkeley, CA Mary Harte, Berkeley, CA Curran Honorah, Berkeley, CA Holly Howard, Berkeley, CA Marjory Keenan, Berkeley, CA Betsy Kelly, Berkeley, CA Morgan Lambert, Berkeley, CA Catherine Lerza, Berkeley, CA Alex Madonik, Berkeley, CA Robert Magarian, Berkeley, CA Rebecca Meyer, Berkeley, CA Ann Myers, Berkeley, CA Jaleh Niazi, Berkeley, CA Kaveh Niazi, Berkeley, CA Jonathan Packman, Berkeley, CA Kristine Panik, Berkeley, CA Heather Pierce, Berkeley, CA Janet Ramsay, Berkeley, CA Catherine Rauch, Berkeley, CA Janette Reid, Berkeley, CA Rachel Resnikoff, Berkeley, CA Anthony Rhodes, Berkeley, CA



Bob Schildgen, Berkeley, CA Sandra Smith, Berkeley, CA Lenore Sorensen, Berkeley, CA michael sullivan, Berkeley, CA Debbie Tenenbaum, Berkeley, CA Timothy Volz, Berkeley, CA Dandelo Waters, Berkeley, CA Jonathan Weinstock, Berkeley, CA Helene Whitson, Berkeley, CA John Wolfe, Berkeley, CA Sara Zimmerman, Berkeley, CA Lori Ginsburg, Beverly Hills, CA Beverly Harris, Beverly Hills, CA Ilene Proctor, Beverly Hills, CA Trudie Haven, Big Bear City, CA Valerie Hart, Big Pine, CA Marianne Brettell-Vaughn, Bishop, CA Michael Harris, Bodega Bay, CA Tina Ann, Bolinas, CA Betsyann Gallagher, Bolinas, CA Sean Thackrey, Bolinas, CA Vivian Sherrill, Bonita, CA Ed Atkins, Boulder Creek, CA Moira Bischoff, Boulder Creek, CA Trudi James, Boulder Creek, CA Ray Schwarz, Boulder Creek, CA Kathryn St. John, Boulder Creek, CA Jack Kline, Brentwood, CA Chris Zahnd, Brentwood, CA Stephanie Glatt, Buellton, CA

Jennifer Jerlstrom, Buena Park, CA Jessica Likens, Buena Park, CA Cathy Biermann, Burbank, CA Sandra Christopher, Burbank, CA Ryan Davis, Burbank, CA Katyana Farzanrad, Burbank, CA Jennifer Hurdle, Burbank, CA Tyson Martin, Burbank, CA Gina Richardson, Burbank, CA Rosalie Salvato, Burbank, CA Gilbert Saucedo, Burbank, CA Lucinda Walker, Burbank, CA Kenneth Aron, Burlingame, CA Jeffrey Krolik, Burlingame, CA Lara McDonald, Burlingame, CA Kathryn Morton, Burlingame, CA Laura Somers, Burlingame, CA Judy Boeken, Calabasas, CA Vivian Deutsch, Calabasas, CA Claude Duss, Calabasas, CA Veronica Pepe, Calabasas, CA Kalyna Snylyk, Calabasas, CA Terry Spellman, California City, CA David Burtis, Calistoga, CA Martha Casselman, Calistoga, CA Scott Hester, Calistoga, CA Susan Beil, Camarillo, CA Nancy Borelli, Camarillo, CA Catherine Burriss, Camarillo, CA Carol Cressy, Camarillo, CA



Cherie Garrett, Camarillo, CA Larry Gassan, Camarillo, CA Deidre Leonard, Camarillo, CA Carla Marting, Camarillo, CA Jerami Prendiville, Camarillo, CA Charlie Tetoni, Camarillo, CA Ann Walker, Camarillo, CA Ted Key, Cambria, CA Linda Kierce, Cambria, CA Richard Shepard, Cambria, CA Lena Fine, Campbell, CA Barbara Mason, Campbell, CA Anne Swanson, Campbell, CA Tony Vega, Campbell, CA Mark Giordani, Canoga Park, CA Debra Moss, Canoga Park, CA Barbara Dinius, Canyon Country, CA Yrineo Vasquez, Canyon Country, CA Ben Brucker, Capistrano Beach, CA John Glina, Capitola, CA Edith Leni, Capitola, CA Dana Herman, Cardiff, CA William Stern, Cardiff, CA Matt Bender, Cardiff by the Sea, CA Suzanne Mindlin, Cardiff By The Sea, CA Nance Robertson, Cardiff by the Sea, CA Lisa Adamson, Carlsbad, CA Shawna Bader, Carlsbad, CA Judy Burzell, Carlsbad, CA

Chihwu Chang, Carlsbad, CA

Gerald Good, Carlsbad, CA Kendra Haddock, Carlsbad, CA Matthew Huber, Carlsbad, CA Luis Jaramillo, Carlsbad, CA Kevin Krause, Carlsbad, CA Phyllis Lackey, Carlsbad, CA ben steen, Carlsbad, CA Greg Thomsen, Carlsbad, CA Catherine Valadez, Carlsbad, CA Damon Anderson, Carmel, CA John Hall, Carmel, CA Diana North, Carmel, CA Rosalie Pinkert, Carmel, CA judi zaches, Carmel, CA Sheila Sheppard, Carmel By The Sea, CA Herbert Aarons, Carmel Valley, CA Janis Wilson-Pavlik, Carmel Valley, CA Elizabeth Adan, Carmichael, CA William Rasmussen, Carmichael, CA Jo Souvignier, Carmichael, CA Karen Taylor, Carmichael, CA Jack Tolomei, Carmichael, CA Jill Vanneman, Carmichael, CA mary vollstedt, Carmichael, CA Roxanne Coke, Carpinteria, CA William Hornung, Carpinteria, CA Gail Marshall, Carpinteria, CA Amy Mcdonald, Carpinteria, CA Linda Reimel, Carpinteria, CA Scott Van Fossen, Carpinteria, CA



Glen Deardorff, Castro Valley, CA Julie Greenfield, Castro Valley, CA Sue Hall, Castro Valley, CA Pati Jio, Castro Valley, CA Harriet Skelly, Castro Valley, CA Arthur Squillante, Castro Valley, CA Barbara Harper, Castroville, CA John Hill, Castroville, CA Armando MacMillan, Castroville, CA Phillip Cripps, Cathedral City, CA Anne Gannon, Cathedral City, CA Janis Michaels, Cathedral City, CA Wallace Rhine, Cazadero, CA Eric Hironymous, Cedarville, CA Marie Perry, Ceres, CA Meredith Cox, Cerritos, CA James Lindgren, Cerritos, CA Patti Boniface, Chatsworth, CA Alejandra Castro, Chatsworth, CA Miguel Loavza, Chatsworth, CA Binh Tang, Chatsworth, CA Barbara Wasserman, Chatsworth, CA Mary Caulfield, Chicago Park, CA Garrett Alden, Chico, CA Valerie Fannin, Chico, CA Dee Randolph, Chico, CA Abigail Rizzo, Chico, CA Sonya Rose, Chico, CA Linda Sheppard, Chico, CA Kate Transchel, Chico, CA

Dale Beaver, Chula Vista, CA Denise Berrian, Chula Vista, CA John Brown, Chula Vista, CA Rita Clement, Chula Vista, CA Alfa Santos, Chula Vista, CA David Sorce, Chula Vista, CA John Teevan, Chula Vista, CA Susana Vega, Chula Vista, CA Cari Chenkin, Citrus Heights, CA Karen and Edward Osgood, Citrus Heights, CA Aaron Shoup, Citrus Heights, CA Robert Blackey, Claremont, CA Christopher Hayes, Claremont, CA Steven Hoelke, Claremont, CA John Maher, Claremont, CA Cheryllynne Ofstedahl, Claremont, CA Laurel Tucker, Claremont, CA Marsha Tudor, Claremont, CA Erica Tyron, Claremont, CA Victoria Verches, Claremont, CA Patricia Goodson, Clearlake Oaks, CA John Kwiatkowski, Cloverdale, CA Kim Peterson, Cloverdale, CA Dolores Amato, Clovis, CA Tara Hagen, Clovis, CA Thomas Kaschak, Clovis, CA Diane Hestich, Colton, CA Fred Wright, Colton, CA Mindy Alegra, Concord, CA Stephanie Clark, Concord, CA



Susan King, Concord, CA Sheri Kuticka, Concord, CA Robert Larsen, Concord, CA Paul Lowry, Concord, CA James R Monroe, Concord, CA Nancy Pratt, Concord, CA Cindy Sundberg, Concord, CA Anne Spesick, Cool, CA Jennifer Artunian, Corona, CA Lisa Laflame, Corona, CA Linda Oeth, Corona del Mar, CA Tad Sullivan, Corona del Mar, CA Sanja Dimitrijevic, Coronado, CA Elizabeth Luning, Corralitos, CA Ronald Gremban, Corte Madera, CA Jennifer Lawson, Corte Madera, CA Abigail Millikan States, Corte Madera, CA Rachelle Cox, Costa Mesa, CA Hieu Dang, Costa Mesa, CA Sharon Daniel, Costa Mesa, CA Victoria Gagniere, Costa Mesa, CA Kathlyn Grabenstein, Costa Mesa, CA Jennifer Greenwalt, Costa Mesa, CA Rickie Moore, Costa Mesa, CA Kim Nero, Costa Mesa, CA Lisa Piner, Costa Mesa, CA Lizzie Vierra, Costa Mesa, CA Janice Emery, Cotati, CA Jane Lyon, Cotati, CA R Brancheau, Covina, CA

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Evelyn Trevethan, Napa, CA Jacob Wolbert, Napa, CA Moana Moeller, National City, CA Micki Besancon, Nevada City, CA Michael Garitty, Nevada City, CA Scott Howard, Nevada City, CA Lester Milroy, Nevada City, CA Glenn Smith, Nevada City, CA Christine Fisher, Newark, CA Lyla Diaz, Newbury Park, CA Chantal Ferguson, Newbury Park, CA Audrey Greene, Newbury Park, CA Doug Kingery, Newbury Park, CA Sylvia Lewis Gunning, Newbury Park, CA Cindy Stein, Newbury Park, CA Steve Iverson, Newport Beach, CA Joyce Meyers, Newport Beach, CA Vic Paglia, Newport Beach, CA Dan Rossen, Newport Beach, CA Shala Shamardi, Newport Beach, CA Robin Williams, Nicasio, CA Stephanie Aston, North Hills, CA Christopher Geukens, North Hills, CA Natalie Aharonian, North Hollywood, CA Andrea Dundas, North Hollywood, CA Steven Meissner, North Hollywood, CA Fjaere Mooney, North Hollywood, CA Llyn Parker, North Hollywood, CA Dennis Brue, Northridge, CA Randy Harken, Northridge, CA



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Barbara Clark, Oakland, CA Karen Clayton, Oakland, CA Anne Corcos, Oakland, CA Devin Coyle, Oakland, CA Joseph Dashiell, Oakland, CA Kai Drekmeier, Oakland, CA Anya Dubin, Oakland, CA Judith Ennis, Oakland, CA Nancy Erb, Oakland, CA Jean Farooki, Oakland, CA Jemima Farwell, Oakland, CA Susan Flakus, Oakland, CA Marcia Flannery, Oakland, CA Jon Floyd, Oakland, CA Denise Forant, Oakland, CA Dr A G, Oakland, CA Kenneth Gibson, Oakland, CA John Golding, Oakland, CA Joan Gombos, Oakland, CA Doug Gwosdz, Oakland, CA Henry Harmon, Oakland, CA Ann Harvey, Oakland, CA Carol Haskell, Oakland, CA Karl Heins, Oakland, CA Nancy Huneke, Oakland, CA Amy Johnson, Oakland, CA Christine Kalb, Oakland, CA Laakea Laano, Oakland, CA Mark Lecker, Oakland, CA Cheryl Levin, Oakland, CA



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Matthew Owen, Pasadena, CA Jeremy Polgar, Pasadena, CA Charles Roth, Pasadena, CA Joseph Salinas, Pasadena, CA Erica Spier, Pasadena, CA Grayson Torgersen, Pasadena, CA Susan Walp, Pasadena, CA Eric Beaulieu, Paso Robles, CA Gaye Torjusen, Penn Valley, CA Tyrone Johnson, Perris, CA Rebecca Smith, Perris, CA Jeanne Martin, Pescadero, CA Elizabeth Ambrosi, Petaluma, CA Scott Andrews, Petaluma, CA Tom Bornheimer, Petaluma, CA Mary Fazekas, Petaluma, CA Patti Fink, Petaluma, CA Phoenix Giffen, Petaluma, CA David Keller, Petaluma, CA Rachel Lucine, Petaluma, CA Annette Raible, Petaluma, CA Wrenn Rittenhouse, Petaluma, CA M. Steere, Petaluma, CA Jane Vosburg, Petaluma, CA Barry Weinzveg, Petaluma, CA Justine Zang, Petaluma, CA Debra Valenzuela, Pico Rivera, CA James Chanin, Piedmont, CA John Hardgrove, Piedmont, CA Janice Foss, Pinole, CA



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Henry Rosenfeld, Riverside, CA Pam Schmitt, Riverside, CA James Toland, Riverside, CA Nisa Wallace, Riverside, CA Bernard Waltzer, Riverside, CA Reta Davis, Rocklin, CA Daniel McKeighen, Rocklin, CA Elaine Wander Leclaire, Rodeo, CA Alan Bosch, Rohnert Park, CA Denise Brown, Rohnert Park, CA Sandra Lee, Rohnert Park, CA Susan Ott, Rohnert Park, CA Lawrence Joe, Rosemead, CA Abigail Davis, Roseville, CA Natalie Grand, Roseville, CA Glenda Hay, Roseville, CA Jamie Smith, Roseville, CA Ann Wasgatt, Roseville, CA Stephanie Legras, Ross, CA Helen Hooper, Rumsey, CA Shalomar Loving, Running Springs, CA Henryk Flashner, S Pasadena, CA Anders Olsson, S Pasadena, CA Seth Ackerman, Sacramento, CA James Adams, Sacramento, CA Todd Bloom, Sacramento, CA Robert Boughton, Sacramento, CA Maureen Burness, Sacramento, CA Faylene Carter, Sacramento, CA Sandy Commons, Sacramento, CA

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Gayle Smith, Sacramento, CA Sylvia Star, Sacramento, CA Joan Stults, Sacramento, CA Theresa Taylor, Sacramento, CA Deborah Thomson, Sacramento, CA Erh-Yen To, Sacramento, CA Ian Turner, Sacramento, CA Jillian Unger, Sacramento, CA Cara Vallot, Sacramento, CA Betty Wright, Sacramento, CA Sandra Young, Sacramento, CA Elizabeth Novak Milliken, Saint Helena, CA Richard Allen, Salinas, CA Dale Hillard, Salinas, CA David Prina, Salinas, CA Catherine Uchiyama, Salinas, CA Roseann Dal Bello, San Anselmo, CA Sherry Freeman, San Anselmo, CA Zoe Harris, San Anselmo, CA Catherine Loudis, San Anselmo, CA Sheila Mcclear, San Anselmo, CA Julia Riboli, San Anselmo, CA Genevieve Richardson, San Anselmo, CA Paula Spencer, San Anselmo, CA Bret Walburg, San Anselmo, CA April Wolcott, San Anselmo, CA Kristin Womack, San Anselmo, CA Deborah Bayne, San Bernardino, CA Eileen Bordy, San Bruno, CA Daniel Carrillo, San Bruno, CA

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Michele Carrizalez, CA 90002 Julio Robledo, CA 90003 Vanessa Bayer, CA 90004 Shirley Hey, CA 90004 Glen Morgan, CA 90004 Grant Sloss, CA 90004 Jeremy Tague, CA 90004 Candy Kaiser, CA 90005 David Mack, CA 90005 Henry Muniz, CA 90005 Jorge Valle-Artiga, CA 90005 Michelle Rito, CA 90006 Tripthi Kamath, CA 90007 Beth Palkovic, CA 90007 Joshua Yeargain, CA 90007 Gail Gentry, CA 90008 Fred Mosbey, CA 90008 Scott Baird, CA 90010 Jessie Hahn, CA 90010 Barbara Hoke, CA 90010 Hector Arroyo, CA 90011 Bruce Stout, CA 90011 Lisa Callahan, CA 90012 Wendy Vinglinsky, CA 90012 Narda Zacchino, CA 90012 Drex Heikes, CA 90013 Jolie Krance, CA 90013 J Magnuson, CA 90013 Adam Miller, CA 90013 Sigmund Palasek, CA 90013

Michael Vizcarrondo, CA 90013 Linda Desola, CA 90014 Andrew Matson, CA 90014 Glicelia Avila, CA 90015 Chad Sarver, CA 90015 Ricky Shum, CA 90015 Gary Williams, CA 90015 Theodore Burton, CA 90016 Michael Damanskis, CA 90016 Victoria Kemsley, CA 90016 Joan Benjamin, CA 90017 Lisa Shinavier, CA 90018 Jo Trigo, CA 90018 Sarah Boldt, CA 90019 Dejarne Bourne, CA 90019 Sharron Craig, CA 90019 Brian Dent, CA 90019 Uri Fleming, CA 90019 Jennifer Griffin, CA 90019 Julia Hasen, CA 90019 Ksenia Koban, CA 90019 Jane Martin, CA 90019 Jaimie Mullens, CA 90019 Thuyvan Nguyen, CA 90019 Kevin Proulx, CA 90019 Daniel Shapiro, CA 90019 Melody Thornton, CA 90019 Karen Tillman, CA 90019 Daniel Yoo, CA 90019 James Jackson, CA 90020



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Lourdes Beltran, CA 90031 Nathana Schooler, CA 90031 Misty Arceneaux, CA 90032 Tony Beck, CA 90032 Zoely Biel, CA 90032 Raymond Dangelo, CA 90032 Arturo Jauregui, CA 90032 George Torres, CA 90032 Jazmin Ortega, CA 90033 Mitchell Roberts, CA 90033 Annie Wong, CA 90033 Victoria Brago, CA 90034 Gonzalez Cani, CA 90034 Stanley Coleite, CA 90034 Cristina Cruz, CA 90034 Claudia Garcia, CA 90034 David Hawthorne, CA 90034 Elisa Iovine, CA 90034 Delia Lopez, CA 90034 Annie Orange, CA 90034 Nicole Pina, CA 90034 Tucker Poindexter, CA 90034 Michael Raileanu, CA 90034 Collin Reynolds, CA 90034 Elizabeth Rose, CA 90034 Frank Sorkin, CA 90034 Bernestine Taylor, CA 90034 Brandon Vineyard, CA 90034 Florence Williams, CA 90034 Tricia Berman, CA 90035

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James Knudsen, CA 90042 Michele Lavecchia, CA 90042 Nancy Sharrett, CA 90042 Yolanda Duvernay, CA 90043 Carla Huckaby, CA 90043 Janice Kingcade, CA 90043 Emma Rivera, CA 90043 Larry Roberson, CA 90043 Teraesa Vinson, CA 90043 Monique Browne, CA 90044 Michael Hall, CA 90044 Vincent Marzullo, CA 90044 Diane Corbin, CA 90045 Michael Eberly, CA 90045 Shay Gipson, CA 90045 Sasha Kushner, CA 90045 Jason Phillips, CA 90045 Robyn Rhinehart, CA 90045 Lilian Salvatore, CA 90045 Eleanor Schwartz, CA 90045 Shannon Algeo, CA 90046 sharon barber, CA 90046 Nicholas Barlow, CA 90046 Rusty Buchanan, CA 90046 Peter Burns, CA 90046 Laniesha Butler, CA 90046 Monique Caulfield, CA 90046 Sukee Chew, CA 90046 Lisa Crilley, CA 90046 Jonathan Darr, CA 90046



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Judith Gordon, CA 90049 Andrea Green, CA 90049 Nicole Hillebrandt, CA 90049 Steven Hitter, CA 90049 Theresa Kvale, CA 90049 Laurel Newbound, CA 90049 Katie Ng, CA 90049 Arnold Platzker, CA 90049 Paul Puri, CA 90049 Rebecca Sperber, CA 90049 Matthew Tolchin, CA 90049 Marshall King, CA 90056 Richard Krelle, CA 90056 Cynthia Mason, CA 90056 Andreda Pruitt, CA 90056 Sylvia Swilley, CA 90056 Carmencita Solidum, CA 90057 Cynthia Hawkins, CA 90059 Daniel Zepeda, CA 90059 Dana Hubert, CA 90061 Yanscy Flores, CA 90063 Beatriz Higuera, CA 90063 Kathy Rose, CA 90063 Nicole Bergelson, CA 90064 Thomas Byrnes, CA 90064 Shellie Collier, CA 90064 Karin Diskin, CA 90064 Karen Edgerton, CA 90064 Matthew Fillman, CA 90064 Jody Frank, CA 90064



Robert Gage, CA 90064 Mark Hembree, CA 90064 Linda Levy, CA 90064 Jennie Maguen, CA 90064 Michael Mcintyre, CA 90064 Susan Montgomery, CA 90064 Barbara Satinover, CA 90064 Michael Schaffer, CA 90064 Cindy Sison, CA 90064 Ruth Strauss MD, CA 90064 Barbara Trelease, CA 90064 Jill Uhlenkott, CA 90064 Julie Ahlberg, CA 90065 Maria Borden, CA 90065 Lamar Damon, CA 90065 Sarah Soquel Morhaim, CA 90065 Arthur Shapiro, CA 90065 Carlos Tobar, CA 90065 Maria Warmoth, CA 90065 Kelly Aeolan, CA 90066 Ethan Arnold, CA 90066 Peter Basch, CA 90066 Barbara Berney, CA 90066 Faith Brewer, CA 90066 Stephanie Davis Don, CA 90066 Sarah Epperson, CA 90066 Timothy Groff, CA 90066 Gilbert Guerra, CA 90066 Akhil Gupta, CA 90066 Camille Harris, CA 90066

Luann Jaffe, CA 90066 Alex Kruglov, CA 90066 Danielle Loefflad, CA 90066 Sean Porter, CA 90066 Eileen Selogie, CA 90066 Sondra Yevette, CA 90066 Robert Zaugh, CA 90066 Morgan Chu, CA 90067 Laura Cordovano, CA 90067 Howard Fredman, CA 90067 Stephanie Marshall, CA 90067 Susan Rodriguez, CA 90067 Shelly Rothschild, CA 90067 Wesley Strick, CA 90067 Jason Wallach, CA 90067 Nancee Allen, CA 90068 Lynn Collings, CA 90068 Jodi Ehrlich, CA 90068 Brian Henson, CA 90068 Tim Long, CA 90068 Kay Morris, CA 90068 Shane Nguyen, CA 90068 Jimmy Wachtel, CA 90068 Wendy Alvarez, CA 90069 Frank Baquero, CA 90069 Daniel Cohen, CA 90069 Nicole Cutright, CA 90069 Wendy Lipin, CA 90069 Jennifer Martin, CA 90069 Kent McCallister, CA 90069



Jordan Rosenberg, CA 90069 Meir Shamy, CA 90069 Matthew Shields, CA 90069 Sara West, CA 90069 Tambi Yu, CA 90069 Robert Daly, CA 90077 Matthew Harrison, CA 90077 Richard Kipper, CA 90077 Francine Maisler, CA 90077 Stephen Sohmer, CA 90077 Amarjit Soni, CA 90077 Forrest Walsh, CA 90077 Jonathan Leahy, CA 90078 Kevin Chang, CA 90079 Jill Klein, CA 90093 Joan Shapiro, CA 90094 Laura Barajas, CA 90201 Juan Guerrero, CA 90201 Efrain Meda, CA 90201 Marie Sia, CA 90201 Lori Soto, CA 90201 Nestor Valencia, CA 90201 Sathara Duong, CA 90210 Jasmine Folden, CA 90210 Victoria Jahanmardi, CA 90210 Amir Kojoory, CA 90210 Eve Rodsky, CA 90210 Arnold Stiefel, CA 90210 Dawn Eliashiv, CA 90211 Alexandra Feldman, CA 90211

Marcie Alexander, CA 90212 Josh Millet, CA 90212 Shareef Aquil, CA 90220 Emily Ragobeer, CA 90220 Kelly Gardner, CA 90221 Stefanie Cleaver, CA 90222 Yolanda Melvinnelms, CA 90222 Brian Decato, CA 90230 Barbara Golbin, CA 90230 Patricia Hughes, CA 90230 Sharon Kerson, CA 90230 James Miller, CA 90230 Pat Nomura, CA 90230 Joanna Rowles, CA 90230 Glenn Stewart, CA 90230 Lilli Valtierra, CA 90230 Glenda Wina, CA 90230 Jeremy Zuniga, CA 90230 Bill Birdsall, CA 90232 Mark Galanty, CA 90232 Jonathan Glater, CA 90232 Jim Hornstein, CA 90232 Joy Kecken, CA 90232 Parisa Mirzadehgan, CA 90232 Helki Zeigler, CA 90239 Anita Boorman, CA 90240 Xavier Granados, CA 90240 Salvador Padill, CA 90240 Bernice Caan, CA 90241 Walter Connick, CA 90245



Rhonda Haley, CA 90245 Chris Miller, CA 90245 Sarah Mosseller, CA 90245 Judy Smith, CA 90245 Gloria Telles, CA 90245 Diane Trevizo, CA 90245 Josephine Baltazar, CA 90249 Marion Dwyer, CA 90250 Julio Gavio, CA 90250 Ellen King, CA 90250 Megan Klein, CA 90250 Maureen Kleinman, CA 90250 Viki Short, CA 90250 Carl Weibel, CA 90250 David Adler, CA 90254 Megan Bowers, CA 90254 Chas Costello, CA 90254 Caitlin Dahl, CA 90254 Martin Fogel, CA 90254 Ann Gotthoffer, CA 90254 Carol Horne, CA 90254 Alicia Jones, CA 90254 Kimberly Legrand, CA 90254 Rosanna Savone, CA 90254 Angel Alva, CA 90260 Anthony Owens, CA 90260 Zenaida Alfaro, CA 90262 Tabitha Dileo, CA 90264 Robert Adler, CA 90265 Maureen De Koff, CA 90265

Jeff Eisen, CA 90265 Marla Hosie, CA 90265 Constance Shafran, CA 90265 Georgia Cano, CA 90266 Bradley Dodge, CA 90266 Carol Dormer, CA 90266 Ralph Goldstein, CA 90266 Otto Gudiel, CA 90266 Brittany Hilgendorf, CA 90266 Lynn Smith, CA 90266 Lisa Taub, CA 90266 Sara Thaves, CA 90266 Lynn Werner, CA 90266 Irene White, CA 90266 Dorothy Yungman, CA 90266 Brooke Covington, CA 90272 Kimberly Michel, CA 90272 Weston Naef, CA 90272 Leo Perez, CA 90272 Nora Perricone, CA 90272 Peter Rogers, CA 90272 Ellie Ross, CA 90272 Patricia Sinclair, CA 90272 Paul Solomon, CA 90272 Christine Steele, CA 90272 Michael Chiado, CA 90274 Michael Eicher, CA 90274 Janis Fitzsimmons, CA 90274 Arthur Friedman, CA 90274 Yvonne Godfrey, CA 90274



Karen Govenar, CA 90274 Lawrence Maltz, CA 90274 Colleen Mullowney, CA 90274 Sandra Peck, CA 90274 Ellie Berkowitz, CA 90275 Virendra Kadakia, CA 90275 Louis Krouse, CA 90275 Mark Martinez, CA 90275 Teri Perez, CA 90275 Jason Rosenfeld, CA 90275 Sandra Brilliant, CA 90277 Christine Coffelt, CA 90277 Patrick Daley, CA 90277 Victoria DeFrank, CA 90277 Donna Haupt, CA 90277 Angelica Hurd, CA 90277 Carol Mckeown, CA 90277 Melanie Nelson, CA 90277 Pamela Popovich, CA 90277 Larry Styza, CA 90277 Marc Teitelbaum, CA 90277 Deborah Vaia, CA 90277 David Barnes, CA 90278 Nancy Bartolo, CA 90278 Juan Mansill, CA 90278 Nicole Smith, CA 90278 Daniel Wallace-Brewster, CA 90278 Sandra Flores, CA 90280 Marilyn Ball, CA 90290 Cynthia Hodnett, CA 90290

Angela Mogg, CA 90290 Coon Bruno, CA 90291 Naomi Saldana, CA 90291 Paula Silver, CA 90291 Donna Sylvester, CA 90291 Harbans Ahluwalia, CA 90292 Jason Bohrer, CA 90292 Kelli Cardiff, CA 90292 Jennifer Chiu, CA 90292 Kylie Clark, CA 90292 Courtney Nichols-Gould, CA 90292 Sanya Obsivac, CA 90292 Larry Otting, CA 90292 Michael Perry, CA 90292 Rainer Poertner, CA 90292 Scott Sewell, CA 90292 Nancy Wergeles, CA 90292 Richard Benzel, CA 90293 Louise Lance, CA 90293 Nicole Martinez, CA 90293 Bonnie Mishelevich, CA 90293 Michelle Ouellet, CA 90293 Bob Oyama, CA 90293 Jennifer Rice, CA 90293 Stanley Sharpe, CA 90293 Amy Bell, CA 90301 Debra Lockie, CA 90301 Dawn Sitahal, CA 90301 Annie Flowal, CA 90302 Maria Marchand, CA 90302



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Marlise Malkames, CA 90404 Mary Quinn, CA 90404 Sienna Sanders, CA 90404 Mary Vorasky, CA 90404 Bernard Alfs, CA 90405 Joe Alter, CA 90405 Toby Book, CA 90405 Barry Bunes, CA 90405 Peter Erskine, CA 90405 Linda Garrett, CA 90405 Dan Genetti, CA 90405 Jeffrey Hahn, CA 90405 PAMELA Lane, CA 90405 Erin Martin, CA 90405 Reid Mcglamery, CA 90405 Beverly Millson, CA 90405 Lisa Moseley, CA 90405 Lynn Peterson, CA 90405 Nancy Rosenblum, CA 90405 Mara Thompson, CA 90405 Ashley Wrobel, CA 90405 Tony Wu, CA 90405 Anne Yaple, CA 90405 Chris Hamayasu, CA 90501 Mitchell Hicks, CA 90501 Gregory Jacobs, CA 90501 Gail Nowak, CA 90501 Bryant Odega, CA 90501 Gloria Diaz, CA 90502 Rosemary Levenson, CA 90502



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Sara Hibbitts, CA 91362 Carl Josefsson, CA 91362 Maxine Raleigh, CA 91362 Paula Varblow, CA 91362 Jill Whitesides, CA 91362 Joey Dianda, CA 91364 John Edelston, CA 91364 Irene Escardo, CA 91364 Ardeshir Farah, CA 91364 Liz Golombek, CA 91364 Jeffry Pittman, CA 91364 Karen Spencer, CA 91364 Sharla Bridgett, CA 91367 Deborah Cohen, CA 91367 Angela Deluca, CA 91367 Robert Dyck, CA 91367 John Elder, CA 91367 Lisa Insana, CA 91367 Charles Lagola, CA 91367 John Liddy, CA 91367 Christopher Matted, CA 91367 Luz Rockey, CA 91367 Melinda Romeo, CA 91367 Daniel Zagayer, CA 91367 John Billesdon, CA 91377 Margaret Han, CA 91377 Jana Hand, CA 91377 Samantha Hart, CA 91377 Amy Keys, CA 91377 David Robinson, CA 91377



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Varun Dutt, CA 91765

Jean Garcia, CA 91765 Samuel Johnson, CA 91765 Greg Krayser, CA 91765 Hugh Lawrence, CA 91765 Mamie Lindsey, CA 91765 So Pak, CA 91765 Tammi Senzaki, CA 91765 Rosa Lara, CA 91766 Guillermo Monterroso, CA 91766 William Pospishil, CA 91766 Erlene Stevenson, CA 91766 John Valadez, CA 91766 Melissa Crowley, CA 91767 Bryn Pellegrino, CA 91767 Christianne Aurouze, CA 91768 Erlinda Fantauzzi, CA 91770 Jose Meji, CA 91770 Carol Bowe, CA 91773 Remedios Gan, CA 91773 Andrew Ortiz, CA 91773 Nosakhare Oyemade, CA 91773 Renee Taylor, CA 91773 Edward Aguirre, CA 91775 Brooks Atherton, CA 91776 Arlene Rios, CA 91776 Lynn Castro, CA 91780 Agustin Jimenez, CA 91780 Maria Skilbred, CA 91784 Jaymi Abusham, CA 91786 Socorro Garcia, CA 91786



Jeff Mccall, CA 91786 Marco Ramirez, CA 91786 Ed Clemensen, CA 91789 Vilma Takamine, CA 91789 Carol Tang, CA 91789 Gregory Newcomer, CA 91790 Mary Silverstein, CA 91791 Jeanne Ambriz, CA 91792 Ariadna Arambula, CA 91801 Daniella Cota, CA 91801 Richard Spindler, CA 91801 Erika Kao, CA 91802 Lothar Imbior, CA 91803 Tiffany Wardloveland, CA 91803 Eduardo Becerra, CA 91902 Richard Hanks, CA 91902 France Williams, CA 91902 Soledad Boucree, CA 91910 Osadolor Godwin, CA 91910 Blanca Lopez, CA 91910 Jose Puente, CA 91910 Elizabeth Verastigue, CA 91910 Debra Ashley, CA 91911 Maurice Gray, CA 91911 Alan Palmer, CA 91911 Wendy Shurelds, CA 91911 Keith Hammond, CA 91913 Seoul Holloway, CA 91913 Hung Nguyen, CA 91913 Vilma Clariza, CA 91915

Fernando Delgado, CA 91915 George Hurt, CA 91915 Linda Petty, CA 91915 Kimberly Williams Kee, CA 91915 Kevin Collier, CA 91935 Fred Gordon, CA 91941 Bebi Rosa, CA 91941 John Barrios, CA 91942 Mary Fay, CA 91942 Mark Forte, CA 91942 Chelsea Halpine Berger, CA 91942 Susan Kawar, CA 91942 Mimi Lev, CA 91942 Barbara Lueder, CA 91942 Marjorie Mclaughlin, CA 91942 Susan Mullaney, CA 91942 Patricia Cortez, CA 91945 Matt Niles, CA 91945 Caitlin Wion, CA 91945 Josefina Alvarado, CA 91950 Patricia Salazar, CA 91950 David Valladolid, CA 91950 Angello Carlin, CA 91977 Jason Heil, CA 91977 Carrie Lopez, CA 91977 Karen Simpson, CA 91977 Delores Threatt, CA 91977 Cheryl Carr, CA 91978 Shawn Hanna, CA 92007 Alana Howell, CA 92007



Laurel Howard, CA 92008 Megan Rounds, CA 92008 William Betts, CA 92009 Linda Brenner, CA 92009 Rene Brunold, CA 92009 Megan Dewitt, CA 92009 Christine Dicken, CA 92009 Amal Ghazi, CA 92009 Tiffany Karnig, CA 92009 Judith King, CA 92009 Phillip Nguyen, CA 92009 Gina Pisello, CA 92009 Faramarz Rassouli, CA 92009 Jacqui Schneider, CA 92009 John Detreville, CA 92010 Veronica Glaser, CA 92010 Linda Vancea, CA 92010 Elizabeth Hamelin, CA 92011 Brenna Hardman, CA 92011 Cheryl Bianchi, CA 92014 Samuel Engel, CA 92014 John Erick, CA 92014 Janet Harris, CA 92014 Kay Hoeprich, CA 92014 Candace Lowry, CA 92014 Deanna Lucci, CA 92014 Rand Steiger, CA 92014 Marie Teehan, CA 92014 Kyle Williams, CA 92014 Robert Brandenburg, CA 92019

Tracy Clingan, CA 92019 Veronica Atilano, CA 92020 Dvora Fajerman, CA 92020 Frank Ferrone, CA 92020 Janet Kaiser, CA 92020 Edward Matus, CA 92021 Joan Monkman, CA 92021 Woody Wilson, CA 92021 Cynthia Clark, CA 92023 Misty Andersen, CA 92024 Caroline Augustine, CA 92024 Stephen Baldini, CA 92024 Michele Haber, CA 92024 Richard Hauger, CA 92024 Ann Irwin, CA 92024 Anand Janaswamy, CA 92024 Maureen Kowba, CA 92024 Sarah Mason, CA 92024 Laura Metzinger, CA 92024 Meaghan Oleary, CA 92024 Mark Sonnenshein, CA 92024 Karen Sulger, CA 92024 Ellen Trester, CA 92024 Susan Giroux, CA 92025 Timothy Jarrett, CA 92025 Carmen Ivins, CA 92026 Kimberly Marin, CA 92026 Julie Choi, CA 92027 Mitchell Green, CA 92027 George Kliassov, CA 92027



Konstantin Sheverdyayev, CA 92027 Susan Beld, CA 92028 Patricia Eastman, CA 92028 Ernest Holburt, CA 92028 Richard Mannino, CA 92028 Diane Parker, CA 92028 Samuel Pietrofeso, CA 92028 Kenneth Samuels, CA 92028 Tom Simmons, CA 92028 Richard Beck, CA 92029 Thomas Hearn, CA 92029 Robert Knaier, CA 92029 Neal Henderson, CA 92030 Robert Blanchard, CA 92037 Barry Bloom, CA 92037 Elizabeth Boyer, CA 92037 Isabel Brown, CA 92037 Brian Campion, CA 92037 Gary Ferdman, CA 92037 Michelle Lerach, CA 92037 Megan Phelps, CA 92037 Oliver Polo, CA 92037 David Thompson, CA 92037 Christopher Jrfisher, CA 92038 Kirk Sword, CA 92040 Barbara Thompson, CA 92040 William Crawford, CA 92049 Thomas Gougherty, CA 92049 John Collins, CA 92052 Carolyn Boone, CA 92054

Susan Buckland, CA 92054 Joseph Calvino, CA 92054 Jason Edwards, CA 92054 John Engel, CA 92054 Patricia Hopper, CA 92054 Christopher Martin, CA 92054 Mark Minkler, CA 92054 Luke Tesluk, CA 92054 Rita Atkinson, CA 92056 William Boston, CA 92056 Rudy Carino, CA 92056 Thomas Labrot, CA 92056 Edward Mankowski, CA 92056 Julie Scott, CA 92056 Natalie Byler, CA 92057 Michael Caracappa, CA 92057 Mark Gillen, CA 92057 Eva Gonzalez, CA 92057 Frank Jacobs, CA 92057 Kelly Kissinger, CA 92057 Laurie Lister, CA 92057 Suzanne Schaefer, CA 92057 Michael Schwalbe, CA 92057 Beverly Stiles, CA 92057 Charlotte Turner, CA 92057 Victoria Volmer, CA 92057 Anna Hamrick, CA 92058 Adrienne Marraccini, CA 92058 Michele Engel, CA 92064 Tom Fahrnkopf, CA 92064



Belinda Haire, CA 92064 Sharon Hanson, CA 92064 Pamela Keyser, CA 92064 Christopher Nielsen, CA 92064 Maria Stravelakis, CA 92064 Deborah Supergan, CA 92064 April West, CA 92064 Andrea Whitehill, CA 92064 Connie Bley, CA 92065 Eileen Coppola, CA 92065 Paul Firth, CA 92065 Sandra Smith, CA 92065 Michael Gelfand, CA 92067 Nannette Davis, CA 92069 Mary Houle, CA 92069 Howard Motyl, CA 92069 Christina Baumgardner, CA 92071 Darlene Jenkins, CA 92071 Hugo Lepur, CA 92071 Phillip Panuco, CA 92071 Viki Wong, CA 92071 Cathryn Bolt, CA 92075 Jean-Louis Saillot, CA 92075 Tauna Andreoli, CA 92078 Melanie Bennetts, CA 92078 Susan Bowers, CA 92078 Jessica Lynn, CA 92079 Alex Alavi, CA 92081 Annette Berg, CA 92081 Peter Boutte, CA 92081

Bonita Lang, CA 92081 Matilda Mclaughlin, CA 92081 Michael Santucci, CA 92081 Rosemarie Bilandzija, CA 92082 Marcia Francis, CA 92083 Brenda Squires, CA 92083 Karen Eso, CA 92084 Marilyn Falsetti, CA 92084 Anne Ichord, CA 92084 Peter Jones, CA 92084 Shelley Markoscrivner, CA 92084 Julianne Howell, CA 92093 Steve Altman, CA 92101 Melissa Blackburn Joniaux, CA 92101 Christina Cole, CA 92101 Joe Cordileone, CA 92101 Drew Dunk, CA 92101 Joshua Gruenberg, CA 92101 Chana Grunvald, CA 92101 Ann Hart, CA 92101 Brad Herrin, CA 92101 Bruce Jaques, CA 92101 Jeff Jordan, CA 92101 Joshua Kuehler, CA 92101 Gregory Lockyer, CA 92101 Charley Myers, CA 92101 Henry Rosen, CA 92101 Jon Ruelle, CA 92101 Julie Smith, CA 92101 Kaylan Thornhill, CA 92101



Keith Vandellen, CA 92101 Kelly Vandenheuvel, CA 92101 Leonard Flagg, CA 92102 Christian Bulcao, CA 92103 Elise Curry, CA 92103 Bradley Foltz, CA 92103 Wayne Maxwell, CA 92103 Mary Padial, CA 92103 Jack Ray, CA 92103 Richard Thill, CA 92103 Judybeth Tropp, CA 92103 Viridiana Ayala, CA 92104 Sandrs Chambers, CA 92104 Amber Ferguson, CA 92104 Derek Floyd, CA 92104 Emily Greeno, CA 92104 Susan Groves, CA 92104 Janine Harty, CA 92104 Albert Orcino, CA 92104 Nancy Relaford, CA 92104 Robert Silbaugh, CA 92104 Todd Simpson, CA 92104 Michelle Sullivan, CA 92104 Lynne Graham, CA 92105 Eric Green, CA 92105 Margarita Jimenez, CA 92105 Christopher Rocha, CA 92105 Jennifer Boyd Mims, CA 92106 Kirsten Chrisman, CA 92106 Luther Lewis, CA 92106

John Silva, CA 92106 Tasha White, CA 92106 Cindy English, CA 92107 Alison Gang, CA 92107 Daniel Garcia, CA 92107 Zac Garripoli, CA 92107 Shanann Klaver, CA 92107 Amber Rabon, CA 92107 Jaime Bartholomew, CA 92108 Edward Billard, CA 92108 Sharon Brown, CA 92108 Helios Gonzalez, CA 92108 Lynn Jarman, CA 92108 Kim Myers, CA 92108 George Salcedo, CA 92108 Alejandra Bobadilla, CA 92109 Thomas Cooper, CA 92109 Hillary Cowan, CA 92109 Mary Oreilly, CA 92109 Rogelio Quesada, CA 92109 Arlina Whetstone, CA 92109 Joseph Atkinson, CA 92110 John Goodwin, CA 92110 Jennifer Latta, CA 92110 Jason Raymond, CA 92110 John Seymour, CA 92110 Barbara Thomas, CA 92110 Janis Cadwallader, CA 92111 John Comes, CA 92111 Carolyn Floyd, CA 92111



Debra Frischer, CA 92111 Virginia Holcomb, CA 92111 Yael Kosta, CA 92111 Ana Saucedo, CA 92111 Yolanda Peraza, CA 92113 Yolandra Thrash, CA 92113 **REBECCA CORREA, CA 92114** Vivian Griffin, CA 92114 Kelly Wallace, CA 92114 Forest Fischer, CA 92115 Kelly Gavin, CA 92115 Holly Hamilton, CA 92115 Jerry Mackenzie, CA 92115 Robert Snider, CA 92115 Drew Gingrich, CA 92116 Robert Hauer, CA 92116 Paul Hemmerling, CA 92116 Pfeiffer Ledjema, CA 92116 Herbert Schwab, CA 92116 Janeth Alvarez, CA 92117 Gisela Baranda, CA 92117 John Brady, CA 92117 Tim Caulder, CA 92117 David Fisher, CA 92117 Barbara Rolando, CA 92117 Greg Wong, CA 92117 Anneilynn Wright, CA 92117 Kevin Ashley, CA 92118 Shane Chase, CA 92118 Patti Flanagan, CA 92118

Ann Posthill, CA 92119 Evangelina Woo, CA 92119 Christopher Hall, CA 92120 Kristina Isberg, CA 92120 Kristin Anderson, CA 92121 Michael Buckley, CA 92121 John Ginn, CA 92121 Kim Bolivar, CA 92122 Anne Brinkman, CA 92122 Christine Esau, CA 92122 Paula Fitzgerald, CA 92122 Nancy Kern, CA 92122 Brandon Messerly, CA 92122 Marie Minnick, CA 92122 Rosemary Straley, CA 92122 Andrew Utley, CA 92122 Dina Beebe, CA 92123 Loretta Lowery, CA 92123 Martha Romero, CA 92123 Arash Yarpezeshkan, CA 92123 Glenn Buberl, CA 92124 Anne Nohelty, CA 92124 Margarita Badaraco, CA 92126 Jennifer Betancourt, CA 92126 Melissa Fraser, CA 92126 Alfredo Iglesias, CA 92126 Ann Rael, CA 92126 Shawn Romero, CA 92126 Debra Sigal, CA 92126 Charles Smith, CA 92126



Brenda Johnson, CA 92127 Kathleen Nahman, CA 92127 Nora Nido, CA 92127 Leslie Taylor, CA 92127 Anthony Franchino, CA 92128 Pat Lampasso, CA 92128 Mark Stutzman, CA 92128 Manisha Varaiya, CA 92128 Jacob Wheatley, CA 92128 Cynthia Fehrenbach, CA 92129 Nathalie Gill Podgorski, CA 92129 Katherine Holvoet, CA 92129 Taylor Israel, CA 92129 Courtney Kaull, CA 92129 Lindsay Moon, CA 92129 Debra Sammon, CA 92129 Sue Berard, CA 92130 Donna Durlak, CA 92130 Betty Garbutt, CA 92130 Genevieve Goldstone, CA 92130 Michael Hartogs, CA 92130 Charles Holland, CA 92130 Mario Petrocco, CA 92130 Deborah Wheeler, CA 92130 Matthew Hetrick, CA 92131 Ethan Marcus, CA 92131 Edlene Mckenzie, CA 92131 James Mullen, CA 92131 Robert Shull, CA 92131 Mayra Arellano, CA 92154

Valerie Haas, CA 92154 Kimberly Morgan, CA 92154 Andrea Stella, CA 92154 Larosa Watson, CA 92154 Carolyn Hollins, CA 92160 Susan Blum, CA 92166 Alex Munguia, CA 92193 Maria Eustice, CA 92201 Linda Harris, CA 92201 Patrick Knox, CA 92201 Jacqueline Lopez, CA 92201 Rhona Bader, CA 92203 Lori Dermer, CA 92203 Kathleen Murray, CA 92203 Francis Fashing, CA 92211 Norene Fremont-Bloom, CA 92211 Cheryl Matthews-Fullerton, CA 92211 Donna Mccloudy, CA 92211 Pam Parker, CA 92211 Frederick Schmidt, CA 92211 Earle Wolfe, CA 92211 Cheryl Hopkins, CA 92220 Lyn Johnson, CA 92220 Misty Lane, CA 92220 William Mccloud, CA 92220 Susan Bonner, CA 92223 Loui Cronholm, CA 92223 Anita Finkelstein, CA 92223 Janet Reed, CA 92223 Lori Robillard, CA 92223



Sylvia Diego, CA 92227 Chryssa Brazil, CA 92234 Heidi Holmes, CA 92234 Edith Lascola, CA 92234 Dale Meyer, CA 92234 Donald Moore, CA 92234 Scott Randall, CA 92234 Victor Rodriguez, CA 92234 Sydney Skosana, CA 92234 Kent Taylor, CA 92234 Sarah Vazquez, CA 92234 Lilian Velasquez, CA 92234 George Williamson, CA 92234 Zee Wong, CA 92234 Linda Bjornberg, CA 92240 Ronald Scheer, CA 92240 Victoria Escalante, CA 92243 Akbar Zadeh, CA 92243 Sandy Villa, CA 92251 Mary Hitchcock, CA 92252 Linda Perry, CA 92252 Thomas Burbank, CA 92253 Jackie Grenz, CA 92253 Emmett Lewis, CA 92253 Walter Nelson, CA 92253 Sharon Prentice, CA 92253 Jim Watson, CA 92253 Nancy Woodruff, CA 92253 Mark Chappell, CA 92256

Jayne Combs, CA 92256

Michael Foster, CA 92256 Gregory Bauer, CA 92260 Sharon Beckman, CA 92260 Frances Ferguson, CA 92260 Shirley Findlay, CA 92260 Genevieve Judge, CA 92260 Barbara Marx, CA 92260 Robert Nowie, CA 92260 Ilene Schimmel, CA 92260 Kimberly Valentine, CA 92260 Myriam Westendorf, CA 92260 Steven Bean, CA 92262 Clayton Blackburn, CA 92262 Robert Brandt, CA 92262 Justin Ceeko, CA 92262 Martin Foster, CA 92262 Brandon Hoskins, CA 92262 Brian Ingelson, CA 92262 John Mahoney, CA 92262 John Meyer, CA 92262 Victor Pellegrini, CA 92262 Vonne Ringle, CA 92262 Julian Smariga, CA 92262 David Wallace, CA 92262 Richard Witzel, CA 92262 Sally Goodman, CA 92263 Rosemarie Olecki, CA 92263 Jane Stampe, CA 92263 Deanne Anders, CA 92264 William Bodine, CA 92264



Mary Humfeld, CA 92264 Patricia Martin, CA 92264 Kathleen Mcelvarrgarrity, CA 92264 Philip Sacino, CA 92264 Mark Steffen, CA 92264 Leland Vandeventer, CA 92264 Abby Winston, CA 92264 Paul Addison, CA 92270 Shirelle Alexander, CA 92270 Judith Ankney, CA 92270 Bruce Flamenbaum, CA 92270 David Lacharite, CA 92270 Annamarie Viglizzo, CA 92270 Barbara Wiesen, CA 92270 Beth Windsor, CA 92270 Judy Wright, CA 92270 Susan Trexler, CA 92274 Lisa Ayres, CA 92276 Robert Hofmann, CA 92277 James Knight, CA 92277 Vanessa Souza, CA 92277 Laura Valentine, CA 92277 David Woods, CA 92277 Jace Ribblett, CA 92284 Ned Porter, CA 92308 Karen Proctor, CA 92313 Cindy Lalonde, CA 92315 Annette Johnson, CA 92316 Patricia Cuesta, CA 92317 Loretta Airaghi, CA 92321

Kofi Donkor, CA 92324 Megan Mescher, CA 92324 Kenneth Vandusen, CA 92325 Elsa Murdoch, CA 92333 Sunshyne Leyba, CA 92336 Franci Taylor, CA 92337 Margo Alexander, CA 92342 Holly Miller, CA 92345 Adriene Moore, CA 92345 Catherine Smith, CA 92345 Shelley Valadez, CA 92345 Nicholas Warino, CA 92345 Lynette Adelson, CA 92346 Barbara Leelhasuwan, CA 92346 Michela Ratto, CA 92346 Dean Sundquist, CA 92346 James Ferranti, CA 92352 David Bee, CA 92354 Richard Guth, CA 92354 Rivera Nivar, CA 92359 David Leonard, CA 92363 Urvashi Barua, CA 92373 Judith Whitehouse, CA 92373 Chris Clautice, CA 92374 Yolanda Garnicahickey, CA 92374 Keith Moore, CA 92374 Randy Morris, CA 92374 Alex Zhigimont, CA 92374 Toni Formby, CA 92376 Stephanie Gleason, CA 92376



Adeline Rosales, CA 92376 Cheryl Pirih, CA 92378 Rosalie Redmile, CA 92382 Sarah Hatchell, CA 92386 Connie Harris, CA 92392 Juanita Murray, CA 92392 Linda Neumaier, CA 92392 Michael Oliver, CA 92392 Eddie Smith, CA 92392 Lydia Burks, CA 92394 Roberto Cardenas, CA 92394 Evelia Gomez, CA 92394 Lee Arvinger, CA 92395 Ariene Bennett, CA 92395 Marsha Owens, CA 92395 Sharon Dougherty, CA 92397 Kathryn Boatman, CA 92399 Gay Hardy, CA 92399 Heather Longyear, CA 92399 Helen Reynaud, CA 92399 Severiana Jordan, CA 92404 Susan Fleming, CA 92501 Dianne Hughes, CA 92501 Shavon Shegog, CA 92501 Gabriel Flores, CA 92503 Sandra Neal, CA 92503 Kathy Sutherland, CA 92503 Paula Allbeck, CA 92504 Melissa Banda, CA 92504 Jason Hackman, CA 92504

Ladanta Heriman, CA 92504 Martin Martinez, CA 92504 Tiffany Farr, CA 92505 Juanita Mckenzie, CA 92505 Kathy Mcneilly, CA 92505 Kimberly Romero, CA 92505 Jonathan Green, CA 92506 Debra Rivera, CA 92506 Robin Sinkhorn, CA 92506 Stephanie Stolzenberg, CA 92506 Glenn Williams, CA 92506 Michael Esparza, CA 92507 Nora Moti, CA 92507 Natalie Ralston, CA 92507 Emma Wilson, CA 92507 Shihui Yang, CA 92507 Ruth Lumsdon, CA 92508 Ellen Schaub, CA 92508 Suzanne Ramirez, CA 92509 Lorena Torres, CA 92509 Marty Torres, CA 92509 Jayson Sandoval, CA 92517 Ana Cotton, CA 92521 George Rolla, CA 92530 Linda Taylor, CA 92530 Au Ngo, CA 92532 Richard Provencio, CA 92532 Sylvia Ross, CA 92532 Debra Person, CA 92543 Margaret Marsden, CA 92544



Anthony Moya, CA 92544 Lisa Ostrow, CA 92544 Mark Branyon, CA 92548 Charles Meece, CA 92549 Paul Martin, CA 92553 Lilia Salais, CA 92553 Monica Woodward, CA 92553 Timothy Cobos, CA 92555 Carola Fabiola Galvez, CA 92555 David Hyde, CA 92557 Renee Osburn, CA 92557 Carlos Morfin, CA 92561 Shawn Hug, CA 92562 Jan Principe, CA 92562 Marsha Burkhalter, CA 92563 Chanstay Corlew, CA 92563 Robert Decubellis, CA 92563 Dorothy Gerard, CA 92563 Wilbur Miller, CA 92563 Paul Smith, CA 92563 Billie Kelpin, CA 92567 Linda Adams, CA 92570 Johnny James, CA 92570 Valerie Jones, CA 92570 Fred Pedregon, CA 92570 Robert Gyngard, CA 92582 Angela Johnson, CA 92582 Chris Amestoy, CA 92584 Karen Marshall, CA 92584 Dolore Scorzo, CA 92584

Charlotte Shifflet, CA 92584 Laurie Stuart, CA 92585 Debra Hall, CA 92586 Carol Luevano, CA 92586 Sheila Monaghandavis, CA 92586 Shari Palmer, CA 92586 Veronica Poss, CA 92586 Eileen Snow, CA 92586 Linda Sproul, CA 92587 John Pozza, CA 92590 Michael Vantrojen, CA 92590 Patsy Calderon, CA 92591 Marcos Camacho, CA 92591 Dolores Esparza, CA 92591 Peggy Hagberg, CA 92591 Josie Madrid, CA 92591 Charyl Malanaphy, CA 92591 Bethany Rogers, CA 92591 Judi Thompson, CA 92591 Robert Audibert, CA 92592 Angelo Lingos, CA 92592 Michael Maginski, CA 92592 Dina Meir, CA 92592 Paul Randall, CA 92592 Danielle Shirley, CA 92592 Mary Vann, CA 92592 Robbin Abeer, CA 92595 Gene Aurand, CA 92596 Kathleen Marquez, CA 92596 Richard Alegre, CA 92602



Susan Byrne, CA 92602 Sarah Millerberg, CA 92602 Neda Moayedi, CA 92602 Phaeryn Sheehan, CA 92602 Tom Wiedemann, CA 92602 Youmin Zhao, CA 92602 Earl Biven, CA 92603 Paniz Ebrahimi, CA 92603 Debi Lambert, CA 92603 Jenny Lamott, CA 92603 Peggy Meadows, CA 92604 Gwen Oden, CA 92604 Justin Stone, CA 92604 Solaimani Ferri, CA 92606 Susan Leinberger, CA 92606 Douglas Mason, CA 92606 Patricia Messerly, CA 92606 Christine Penning, CA 92606 Nicole Kroesen, CA 92610 Kristen Allison, CA 92612 Karen Barnett, CA 92612 Paul Kiburis, CA 92612 Christina Krause, CA 92612 Frank Mcgill, CA 92612 Lynnann Williamson, CA 92612 Nira Brand, CA 92614 Maria Centeno, CA 92614 Raeleen Endo-Russell, CA 92614 Lin Hong, CA 92614 Tikiri Karunasundera, CA 92614

Steve Murow, CA 92614 Lori Wallace, CA 92614 Kathy White, CA 92614 Adriana Briscoe, CA 92617 Joanne Donovan, CA 92617 Tira Palmquist, CA 92617 Courtney Costello, CA 92618 Serap Frautschy, CA 92618 Jeffrey Reznic, CA 92618 Behraam Baqai, CA 92620 Michael Cobin, CA 92620 Adrienne Escoe, CA 92620 David Kapsner, CA 92620 Rieva Lesonsky, CA 92620 Mili Mehta, CA 92620 Clare Greene, CA 92624 Daniel Gil, CA 92625 Joanne Hunt, CA 92625 Patricia Mccormick, CA 92625 Bill Schenker, CA 92625 Ruth Silver, CA 92625 Tamar Wilson, CA 92625 Robert Getter, CA 92626 cristina mayer, CA 92626 Philip Mcgovern, CA 92626 Conor Sontag, CA 92626 Larry Weinheimer, CA 92626 Crystal Willis, CA 92626 Gerardo Ambriz, CA 92627 Steven Behrens, CA 92627



Susan Forbath, CA 92627 Stephen Hennessey, CA 92627 Tracie Hoffman, CA 92627 Damian Perry, CA 92627 Laura Ricke, CA 92627 James Thomas, CA 92627 Donna Tranter, CA 92627 Axel Truwill, CA 92627 Janice Turner, CA 92627 Marie Wencel, CA 92627 Sherri Eaton, CA 92629 Jeff Fleming, CA 92629 Lisa Kopelman, CA 92629 John Kucera, CA 92629 Lisa Mckee, CA 92629 Richard Moran, CA 92629 Monte Yoder, CA 92629 Gretchen Adin, CA 92630 Linda Burkholder, CA 92630 Jose Cuevas, CA 92630 Michele Dinneen, CA 92630 irving engel, CA 92630 John Flora-Tostado, CA 92630 Elaine Froome, CA 92630 Connie Martin, CA 92630 Shaiko Mukurazhizha, CA 92630 Dejbakhsh Nader, CA 92630 Mary Brogdon, CA 92637 Debra David, CA 92637 Marilyn Giss, CA 92637

Ramesh Joshi, CA 92637 Anne Llewellyn, CA 92637 Debbie Lowe, CA 92637 Delilah Manary, CA 92637 Joseph Meyer, CA 92637 Barbara Sprayregen, CA 92637 Patricia Boyle, CA 92646 John Briody, CA 92646 Carol M. Correia, R.N., M.S., CA 92646 Mona Cortez, CA 92646 Kelly Elder, CA 92646 Ronald Gould, CA 92646 Steve Graham, CA 92646 Gabrielle Hass, CA 92646 Jennifer Jahnke, CA 92646 Sally Kanarek, CA 92646 suzanne lockhart, CA 92646 Maria Mastropaolo, CA 92646 Ginette Nourse, CA 92646 MOKHTAR SHAWKY, CA 92646 Kathy Wanchek, CA 92646 Lisa Welcher, CA 92646 Joseph Harris, CA 92647 Patrick Kennedy, CA 92647 David Kurien, CA 92647 Becky Roepke, CA 92647 Rosemary Rosales, CA 92647 Thomas Cammann, CA 92648 Kristine Cerone, CA 92648 Carole Fulford, CA 92648



Eleanor Gruenebaum, CA 92648 Amy Hanson, CA 92648 Karen Kettler, CA 92648 Shelley Lowrey, CA 92648 Lisa Martinez, CA 92648 Timothy Murphy, CA 92648 Priscilla Taylor, CA 92648 Cheri Atkinson, CA 92649 Sarah Gibson, CA 92649 Tam Glunt, CA 92649 Randall Keeth, CA 92649 Rick Orr, CA 92649 Sarah Pirch, CA 92649 Rick Shearer, CA 92649 Tom Stanton, CA 92649 Sandra Hartness, CA 92651 Jolie Jensen, CA 92651 Glenna Lovett, CA 92651 Elsa Mitani, CA 92651 George Ripley, CA 92651 Alexander Rounaghi, CA 92651 Wendy Tenebaum, CA 92651 Lauren Dibiase, CA 92653 Valerie Estrada, CA 92653 Ivo Gough Eschrich, CA 92653 Courtney Kim, CA 92653 Bertha Torres, CA 92653 Socorro Alvarez, CA 92655 Quy Bao, CA 92655 Martha Ramirez, CA 92655

Lorie Cohen, CA 92656 Anne Dalluge, CA 92656 Melissa Deveikis, CA 92656 Rachel Felix, CA 92656 Dru Kaplan, CA 92656 Elizabeth Mcgrath, CA 92656 Maria Perez, CA 92656 Todd Schoedel, CA 92656 Kevin Steele, CA 92656 Linda Westlake, CA 92656 Lawrence Kugelman, CA 92657 Eugene Spiritus, CA 92657 Kevin Vuchinich, CA 92657 Toni Antonacci, CA 92660 Goli Aydin, CA 92660 John Dickinson, CA 92660 Lauren Henry, CA 92660 Robert Herbst, CA 92660 Jan Luymes, CA 92660 Yolanda Mendiveles, CA 92660 Peggy Pugh, CA 92660 Robert Hampton, CA 92661 Cheryl Freeman, CA 92663 Gina Gunal, CA 92663 Bonnie Jeannette, CA 92663 Wiliam Kirwin, CA 92663 Holly Thibodeaux, CA 92663 Mike Willison, CA 92663 Sherry Price, CA 92672 Theresa Recht, CA 92672



Leongah Wheeler, CA 92672 Barbara Bernal, CA 92673 Amanda Einhorn, CA 92673 James Guilfoil, CA 92673 Anthony Hewes, CA 92673 Ronald Koby, CA 92673 Jessica Labbe, CA 92673 Janet Leger, CA 92673 Andrew Lichty, CA 92673 John Mairs, CA 92673 Steven Bellomo, CA 92675 Kirsten Mickelson, CA 92675 Mark Perez, CA 92675 Mark Rodrigues, CA 92675 Nicole Herold, CA 92676 Rhonda Baron, CA 92677 James Birdsall, CA 92677 Rosalind Chasman, CA 92677 Ellen Eber, CA 92677 Jacob Faigin, CA 92677 Thomas Fitch, CA 92677 Tina Freeland, CA 92677 Lara Horgan, CA 92677 Bahman Joorabchi, CA 92677 Gary Olson, CA 92677 Nader Peikar, CA 92677 Anne Perry, CA 92677 Jeanine Roche, CA 92677 Sadia Siddiqui, CA 92677 David White, CA 92677

Greg Young, CA 92677 Vicki Iacono, CA 92678 Marian Ballog, CA 92679 Peggy Calcagnie, CA 92679 Colleen Daniel, CA 92679 Jeffrey Dreyer, CA 92679 Michelle Graham, CA 92679 Stacy Hagen, CA 92679 Josefina Azcona, CA 92683 Regina Christ, CA 92683 Peter Haaker, CA 92683 John Parry, CA 92683 Viet Pham, CA 92683 Gina Thompson, CA 92683 Catherine Besselmanhuebscher, CA 92688 Robert Dorman, CA 92688 Purya Ghrabeti, CA 92688 Jennifer Jenrette, CA 92688 Erik Sandstrom, CA 92688 Phillip Woodham, CA 92688 Dorothy Andrews, CA 92691 Carolyn Cohn-Morros, CA 92691 Wesley Jung, CA 92691 Patrick Knotts, CA 92691 Priscilla Monroe, CA 92691 John Mooney, CA 92691 Amy Moore, CA 92691 Michael Sappingfield, CA 92691 Paul Swanson, CA 92691 Jolanta Woog, CA 92691



Elizabeth Aronson, CA 92692 Dixie Auringer, CA 92692 Sher Azizi, CA 92692 Kenneth Ballan, CA 92692 Cheryl Boyett, CA 92692 Jack Brumfield, CA 92692 Joy Chart, CA 92692 Hamid Fadavi, CA 92692 Mary Glackin, CA 92692 Robert Gonter, CA 92692 Rita Knisely, CA 92692 Diane Nixon, CA 92692 Annette Ohuche, CA 92692 Pamela Perry, CA 92692 James Tam, CA 92692 Mark Delaurence, CA 92694 Susan Knapp, CA 92694 Greg Prouty, CA 92694 Jamie Browning, CA 92698 Jesus Adorno, CA 92701 Eliza Martinez, CA 92701 Simone Ponce, CA 92701 Robert Unetic, CA 92701 Manuel Villalba, CA 92703 Angel Cardoza, CA 92704 Veronica Lopez, CA 92704 Karen Allen, CA 92705 Florence Bishop, CA 92705 Robert Bowman, CA 92705 Christe Bruderlin-Nelso, CA 92705

Kathleen Calder, CA 92705 Santos Cortez, CA 92705 Louise Davy, CA 92705 Deborah Dean, CA 92705 Paula Gelman, CA 92705 Lydia Levin, CA 92705 Cherie Phipps, CA 92705 Maggie Ryan, CA 92705 Trisha Shipcott, CA 92705 Linda Warde, CA 92705 Laura Atkinson, CA 92706 Quan Dinh, CA 92706 Paula Gates, CA 92706 Natalie Rankin, CA 92706 Donna Drizin, CA 92707 Leanne Carter, CA 92708 Gayle Fenton, CA 92708 Heidi Nguyen, CA 92708 Eileen Powell, CA 92708 Gabriel Talavera, CA 92708 Lee Fink, CA 92780 Amy Greyson, CA 92780 Doris Kollias, CA 92780 Hillary Streichenberger, CA 92780 Gordon Thomson, CA 92780 Virginia Tibbetts, CA 92780 Patricia Schuck, CA 92781 Gonzalo Ferro, CA 92782 Ronald Imus, CA 92782 Susan Keefe, CA 92782



Quang Wong, CA 92782 Brian Dang, CA 92801 Mary Delgado, CA 92801 Schwanda Grant, CA 92801 Jolynn Ibanez, CA 92801 Farhana Rawnaq, CA 92804 Doug Benoit, CA 92805 Stephanie Butler, CA 92805 David Cartwright, CA 92806 C Ford, CA 92806 Mario Gerace, CA 92807 Kimberly Leshin, CA 92807 Debra Martin, CA 92807 K McDon, CA 92807 Barry Staymates, CA 92807 Lonnie Hahn, CA 92808 Carole Tamme, CA 92808 Linda Vanwormer, CA 92808 Penny Bowman-Mcwright, CA 92821 Bruce Laclair, CA 92821 Shannon Morisako, CA 92821 Lauren Perkins, CA 92821 Joyce Wills, CA 92821 Peter Lin, CA 92823 William Lackey, CA 92825 Maria Garcia, CA 92831 Joanna Johnson, CA 92831 Sandra Park, CA 92831 Leo Song, CA 92831 Kenny Tokusato, CA 92831

Bryan Barboz, CA 92832 Julie Dufau, CA 92832 Jennifer Egan, CA 92833 Teresa Franco, CA 92833 Ingrid Garner, CA 92835 Kenneth Green, CA 92835 Gavin Watt, CA 92835 Mary Bollong, CA 92840 Cathleen Cardoz, CA 92840 Maria Espinoza, CA 92840 Taryn Waddle, CA 92840 Janice Smallwood, CA 92843 Gonzalo Ortega, CA 92844 Jennifer Vargas, CA 92845 Cuba Munsey, CA 92856 Green Charoletta, CA 92860 Rosa Marquez, CA 92860 Lorraine Gurnari, CA 92865 Barbara Nelson, CA 92866 Terry Nowotarski, CA 92866 Valarie Brumfield, CA 92867 Janelle Farkas, CA 92867 Kazuo Furusawa, CA 92867 Prarthana Mohan, CA 92867 Janice Shelton, CA 92867 Jared Mendez, CA 92868 Tawny Robinson, CA 92868 Alan Aidekman, CA 92869 Ronald Dunbar, CA 92869 Kathryn England, CA 92869



Vicki James, CA 92869 Saskia Knight, CA 92869 Gary Manulkin, CA 92869 Everett Martinez, CA 92869 Thomas Rapport, CA 92869 Charles Robinson, CA 92869 Patricia Duffie, CA 92870 Barbara Hearnes, CA 92870 Armando Morel, CA 92870 Jacqueline Olivier, CA 92870 David Hibbetts, CA 92879 Anne Johnson, CA 92879 Nora Gomez, CA 92880 JEANINE MAHONEY, CA 92880 Garrett Ball, CA 92881 Paul Carmichael, CA 92881 Charlie Lachance, CA 92881 Peggy Mutsch, CA 92881 Jill Ross, CA 92881 Roseanna Barron, CA 92882 Cynthia Chavez, CA 92882 Lance Frantzich, CA 92882 Catrina Paez, CA 92882 Ruben Saldana, CA 92882 Jackie Hearns, CA 92883 Linda Limberg, CA 92883 Sally DePoy, CA 92887 Jim Heaviside, CA 92887 Marguerite Mulhall, CA 92887 Jennifer Nichols, CA 92887

Heather Aebi, CA 93001 Mike Blacker, CA 93001 Caryn Carroll, CA 93001 Dennis Hall, CA 93001 Donald Hill, CA 93001 Barbara Urban, CA 93001 Timothy Vandehey, CA 93001 Jojo Alvarez, CA 93003 Bruce Barrios, CA 93003 Carl Clapham, CA 93003 Erica Connell, CA 93003 Dorian Guerrero, CA 93003 Marsha Morrow, CA 93003 Sharon Anglum, CA 93004 Stephen Ginn, CA 93004 Rita Mercado, CA 93004 Benjamin Ayala, CA 93010 Margaret Doten, CA 93010 Joan Handzel, CA 93010 Melissa Reynolds, CA 93010 Bob Rust, CA 93010 Patricia Carney, CA 93012 Gloria Deaton, CA 93012 Dave Mclaughlin, CA 93012 Barbara Metier, CA 93012 Meleese Seigler, CA 93012 Kevin Smith, CA 93012 Gregory Speth, CA 93012 Margurite Stenberg, CA 93012 Linda Hernandez, CA 93013



Gene Miller, CA 93013 Jeanne Cantaro, CA 93015 Marilyn Marme, CA 93021 Tom Martinez, CA 93022 Lanae Carter, CA 93023 Robert Dodge, CA 93023 Jan Helfrich, CA 93023 Jinx Mccune, CA 93023 Judy Rosenthal, CA 93023 Sandra Rowse, CA 93023 W Slaughter, CA 93023 James Null, CA 93024 Pearl Montorio, CA 93030 Silvano Pivato, CA 93030 Cheryl Daniels, CA 93033 Victoria Borjesson, CA 93035 Jennifer Clancy, CA 93035 Kara Gastelum, CA 93035 David Harper, CA 93035 Alison Norris, CA 93035 Dawn Oneill, CA 93035 Robert Rubin, CA 93035 Sylvia Salas, CA 93035 Ritchie Wimberly, CA 93035 Michael Combs, CA 93041 Cynthia Aguilar, CA 93060 Tony Luboff, CA 93060 Joseph Simpson, CA 93060 Claudia Eaton, CA 93063 Henrik Larsen, CA 93063

Christopher Mcadamis, CA 93063 Anthony Sgaraglino, CA 93063 William Sutton, CA 93063 Claude Cantin, CA 93065 Barbara Cieslak, CA 93065 Sandra Gill, CA 93065 Joanne Hewitt, CA 93065 Jamie Taylor, CA 93065 Sanford Weisberg, CA 93065 Kathleen Moacanin, CA 93066 Jeffrey Graham, CA 93067 Christine Dawkins, CA 93101 Cris Hamilton, CA 93101 Laura Knight, CA 93101 Alaina Kwasizur, CA 93101 Nancy Marriott, CA 93101 Rita Moya, CA 93101 Lin Rolens, CA 93101 John Skotchdopole, CA 93101 Barry Spector, CA 93101 Karen Atkins, CA 93105 Judy Cleary, CA 93105 Anthony Fischer, CA 93105 Kim Gross, CA 93105 Andrew Bermant, CA 93108 Amanda Berry, CA 93108 Burks Hamner, CA 93108 Patricia Hughes, CA 93108 Margaret Pearson, CA 93108 Dan Wright, CA 93108



Vicky Blum, CA 93109 Katherine Bonfilio, CA 93109 Ted Chiles, CA 93109 Carolyn Sacks, CA 93109 Susan Bell, CA 93110 claudette roehrig, CA 93110 Theresa Sanitate, CA 93110 Rosemary Fatano, CA 93111 Teena Grant, CA 93111 Joanna Lara, CA 93111 James Sirianni, CA 93111 Ana Citrin, CA 93117 Frank Farwell, CA 93117 Kyle Furlong, CA 93117 Anelise Salvo, CA 93117 Inez Provencio, CA 93202 Jennifer House, CA 93221 Jack Lara, CA 93221 John Peters, CA 93222 Circe Cox, CA 93225 Emily Burnias, CA 93230 Sylvia Cordero, CA 93230 Tasha Mcirvin, CA 93240 Tracy Nardiello, CA 93247 Evelina Huizar, CA 93256 Carol Jett, CA 93257 Bonnie Karlea, CA 93257 Theodore Pizanis, CA 93257 Lauri Adair, CA 93263 Elenora Moats, CA 93263

Jerry Hawley, CA 93274 Sally Carter, CA 93277 Darrell Chudej, CA 93277 Angelina Eich, CA 93277 Karen Kirkpatrick, CA 93277 Diane Post, CA 93277 Susan Radtke, CA 93277 Adria Warren, CA 93277 Carol Harrison, CA 93279 Colleen Brelje, CA 93283 Marian Kuster, CA 93291 Linda Swaim, CA 93291 Abel Tavarez, CA 93291 Benjamin Newcomer, CA 93292 Marlina Aran, CA 93304 Karen Cooley, CA 93304 Barbara Mattick, CA 93304 Donald Bender, CA 93306 Belva Bradshaw, CA 93308 Miguel Mariscal, CA 93308 Janet Cogdill, CA 93309 Michelle Roberts, CA 93309 Ernest Solano, CA 93309 Fredrick Turner, CA 93309 Valerie Black, CA 93311 Lori Braschler, CA 93311 Yvonne Cavanagh, CA 93311 Marklewisbrown Heckendorn, CA 93311 Elizabeth Primrose, CA 93311 Priscilla Wright, CA 93311



Casey Yeazel, CA 93311 Becky Wright, CA 93312 Val Barron, CA 93313 Bonnie Gallegos, CA 93313 Brian Russom, CA 93313 Ricardo Salas, CA 93390 Erin Englund, CA 93401 Marilyn Farmer, CA 93401 Sandra Giberson, CA 93401 Vikas Jammalamadaka, CA 93401 Joann Merver, CA 93401 Susan Olson, CA 93401 Patricia Robinson, CA 93401 Judith Serafin, CA 93401 William Tuculet, CA 93401 Kara Woodruff, CA 93401 Carolyn Porco, CA 93402 Richard Schermerhorn, CA 93402 Michelle Turner, CA 93402 Christy Anderson, CA 93405 Germaine Casola, CA 93405 Thomas Flanigan, CA 93405 Dee Ann Hairgrove, CA 93405 Carol Sexton, CA 93405 Nancy Holman, CA 93420 Robin Werderits, CA 93420 Michele Coombs, CA 93422 Lynne Higgins, CA 93422 Denise Nickeson, CA 93422 Joseph Nickless, CA 93422

Rayna Ortizbochum, CA 93422 Crissa Pisa, CA 93422 Catherine Porter, CA 93422 Harry Williamson, CA 93422 Daniel Garcia, CA 93428 Janet Lyon, CA 93428 Suzann Love, CA 93430 Judy Guarnera, CA 93433 Judythe Guarnera, CA 93433 Jennifer Mangum, CA 93433 Peter Anderson, CA 93436 Genese Izuno, CA 93436 Frank Matela, CA 93436 Leilani Mccullough, CA 93436 Anita Withers, CA 93440 Kim Barrett, CA 93442 Robert Jonez, CA 93442 Caroline Brower, CA 93444 Lee Durard, CA 93444 Ryan Tafoya, CA 93444 Lynn Davis, CA 93446 Nancy Jambor, CA 93446 Robert Jordan, CA 93446 Del Olds, CA 93446 Dennis Olivier, CA 93446 Donna Raymond, CA 93446 Stuart Toomey, CA 93446 Gary Wray, CA 93446 Marcella Gelman, CA 93449 Paul Vangerwen, CA 93449



Gael Mueller, CA 93453 Diana Corral, CA 93454 Erika Culley, CA 93455 Sharon Haneman, CA 93455 Judith Lazzarini, CA 93455 Pam Martin, CA 93455 Larry Mcduff, CA 93455 George Fischer, CA 93458 Loren Duffy, CA 93460 Michael Rhodes, CA 93460 Rona Barrett, CA 93463 Joyce Johnson, CA 93463 John Porter, CA 93465 Janet Kehlor, CA 93505 Michael Glavin, CA 93510 Sandra Gunther, CA 93510 Steven Sheffield, CA 93510 Karen Keehn, CA 93514 Karyle Tong, CA 93514 William Michael, CA 93526 Damien Jacotin, CA 93527 Joan Tetreault, CA 93531 Matthew Britton, CA 93535 Tiffany Countryman, CA 93535 Ian Guyton, CA 93535 Donna Mcnew, CA 93535 Tanisha Rodriguez, CA 93535 Carol Trees, CA 93535 Virginia Arcos, CA 93536 Clare Gmur, CA 93536

Gabriel Partida, CA 93536 Madeline Ramirez, CA 93536 Felicia Scott, CA 93536 Judy Wickman, CA 93545 Douglas Stewart, CA 93546 Hoang Baumann, CA 93550 Raymundo Perales, CA 93550 Bonnie Vaughan, CA 93550 Amina Vela, CA 93550 Olivia Carchi, CA 93551 Cuthbert Lawry, CA 93551 Dennis Carey, CA 93552 Cynthia Bradley, CA 93555 Ashton Dunn, CA 93555 Gaynell Schiller, CA 93555 James Stanford, CA 93555 Naomi Heinsma, CA 93556 Adelle Gruett, CA 93561 Denise Rowles, CA 93561 Raymond Vaughn, CA 93561 Duane Aitken, CA 93599 Diane Curfman, CA 93611 Elysia Dambrosia, CA 93611 Cindy Farris, CA 93611 Glen Westersund, CA 93611 Jerry Walker, CA 93612 Gale Okazaki Hugh, CA 93614 Jim Betts, CA 93619 Juan Garcia, CA 93619 Denise Gravano, CA 93619



Greg Griffin, CA 93619 Carolyn Kraft, CA 93619 Thomas Sims, CA 93619 Judie Visser, CA 93619 Julie Young, CA 93619 Valerie Spongberg, CA 93631 Judith Pucci, CA 93636 Ben Graham, CA 93638 Sharon Willy, CA 93643 Polly Rotan, CA 93654 Jordan Telford, CA 93657 Sandra Barbo, CA 93662 Gus Longoria, CA 93702 Kate Mcknight, CA 93703 Joseph Barron, CA 93704 Janet Bray, CA 93704 Ivy Darden, CA 93704 Michael Garcia, CA 93704 Adela Gonzalez, CA 93704 P Hansen, CA 93704 Joann Mccarthy, CA 93704 Emily Vega, CA 93704 Esperanza Velazco, CA 93704 Kiki Wells, CA 93704 Rene Cisneros, CA 93705 Elizabeth Madrigal, CA 93705 Paula Singer, CA 93705 Nancy Godwin, CA 93710 Elaine Cavitt, CA 93711 Marsha Conant, CA 93711

Fredricka Del Carlo, CA 93711 Geetanjali Srivastava, CA 93711 Anne Staley, CA 93711 Teddy Usude, CA 93711 Roberta Atkinson, CA 93720 Krista De La Torre, CA 93720 Juan Herrera, CA 93720 Cameron Rosso, CA 93720 Erin Smith, CA 93720 Doug Gordon, CA 93721 Hannah Degroot, CA 93722 Billie Hardcastle, CA 93722 Roxanne Hinds, CA 93722 Carla Manning, CA 93722 Manuel Graves, CA 93723 Mian Ijaz, CA 93725 Barbara Ortiz, CA 93725 Joyce Gonzalez, CA 93726 Michael Mathies, CA 93726 Bonnie Pavlovich, CA 93726 Warren Vang, CA 93726 Irma Vera, CA 93726 Dawn Williams, CA 93726 Samantha Perez, CA 93727 Carlos Sanchez, CA 93727 Lindsay Shaver, CA 93728 Victor Bergman, CA 93729 Leslie Hoyt, CA 93730 Lloyd Wamhof, CA 93730 Elaine Mcgraw, CA 93744



Aramis Miller, CA 93747 Kate Innis, CA 93901 Gary Jones, CA 93901 S Norris, CA 93901 Barbie Souter, CA 93901 Marisol Gonzalez, CA 93905 Ben Carrillo, CA 93906 Rosa Dozal, CA 93906 Ronald Genauer, CA 93906 Elena Lagrimas, CA 93906 Mary Vought, CA 93906 Carl Hazen, CA 93907 Weston Miller, CA 93907 Janice Mulvey, CA 93907 Patricia Arias, CA 93908 Catherine Fanoe, CA 93908 Mary Eileen Kiniry, CA 93908 Pamela Snyder, CA 93908 Michael Weaver, CA 93922 Myrna Brandwein, CA 93923 Gary Jepson, CA 93923 Jenny Lutes, CA 93923 Diane Woodend, CA 93923 Kenneth Mcclintock, CA 93926 Curtis Mukes, CA 93933 Laura Allen, CA 93940 Elaine Bachmann, CA 93940 Steven Crain, CA 93940 Colleen Devlin, CA 93940 Roseanne Fischer, CA 93940

Sandra Fowler, CA 93940 Christopher Kneisley, CA 93940 Barbara Marron, CA 93940 Regina Marshall, CA 93940 Juan Rodriguez, CA 93940 Nina Rosete, CA 93940 Niccole Tiffany, CA 93940 Maureen Vieth, CA 93940 Elizabeth Weber, CA 93940 Marianne Grover, CA 93950 Linda Hylle, CA 93950 Janet Mcgough, CA 93950 Donna Phillips, CA 93950 Angelique Simons, CA 93950 Maryadine Washington, CA 93955 Russell Kinley, CA 93960 Robert Gold, CA 94002 Robin Mckoy, CA 94002 Carol Molyneux, CA 94002 Kay Yoshida, CA 94002 Ann Whittemore, CA 94005 Mike Alleman, CA 94010 Maureen Boland, CA 94010 Peter Borocz, CA 94010 Sophie Colefoster, CA 94010 Richard Davis, CA 94010 Lynn Feeney, CA 94010 David Jen, CA 94010 Dotti Letourneau, CA 94010 Lenny Low, CA 94010



Ramon Maghsoudi, CA 94010 Sidney Mobell, CA 94010 William Pace, CA 94010 Jennifer Parker, CA 94010 Charlotte Petri, CA 94010 Judy Swanson, CA 94010 Gary Toothman, CA 94010 Monroe Cooper, CA 94014 Edwin Lansang, CA 94014 Irene Marin, CA 94014 Ana Montes, CA 94014 Concepcion Cavales, CA 94015 Kathleen Cunnie, CA 94015 Kendra Elliott, CA 94015 Rosario Polis, CA 94015 Deborah Porter, CA 94017 Tricia Dell, CA 94018 Sabrina Jewell, CA 94019 Lisa Mccaffrey, CA 94019 Penny Oneal, CA 94019 Sharon Ruhland, CA 94019 Jenny Skoble, CA 94019 Stephen Friedman, CA 94022 Sheryl Heckman, CA 94022 Mary Mills, CA 94022 Elfi Montes, CA 94022 Pam Rasmussen, CA 94022 Francine Reynolds, CA 94022 Mary Hall, CA 94024 Barbara Mclellan, CA 94024

Cynthia Sweeney, CA 94024 Leslie Alston, CA 94025 Dimitra Anderson, CA 94025 John Beardslee, CA 94025 Nancy Bush, CA 94025 Kevin Collins, CA 94025 William Dower, CA 94025 Susan Freyberg, CA 94025 Judith Kleinberg, CA 94025 Jennie Kosko, CA 94025 Marissa Pike, CA 94025 Kathleen Riggins, CA 94025 Marilyn Spence, CA 94025 Polly Wingfield, CA 94025 Tom Gelbach, CA 94027 Tom Hutton, CA 94027 Stacey Kertsman, CA 94027 Anne Peterson, CA 94027 Deborah Pinkston, CA 94027 David Popowitz, CA 94027 Nina Else, CA 94028 Danielle Guttman, CA 94028 Paul Helce, CA 94028 Judy Klein, CA 94028 Helge Ternsten, CA 94028 Thomas Lightner, CA 94030 Ann Oleary, CA 94030 Yolanda Parker, CA 94030 Caitlin Reavey, CA 94030 Stephanie Allen, CA 94035



Joseph Armstead, CA 94040 Corinne Callan, CA 94040 Richard Curtis, CA 94040 Ann Kato, CA 94041 Shreyes Seshasai, CA 94041 Peter Spangler, CA 94041 Joyce Tucker, CA 94041 Samantha Bears, CA 94043 Abigail Clark, CA 94043 Carole Flores, CA 94043 Walter Goode, CA 94043 Rebecca Jensen, CA 94043 Brittany Mcdonald, CA 94043 Saghi Moghadam, CA 94043 Evelyn Nordberg, CA 94043 Laurie Palmer, CA 94043 Bernie Rodgers, CA 94043 Karen Brandenberger, CA 94044 Caroline Herter, CA 94044 Nichole Herttua, CA 94044 Robert Meyerson, CA 94044 Laurel Patton, CA 94044 Beth Smerdon, CA 94044 Maryann Campion, CA 94061 Anna Engstrom, CA 94061 Ralph Fallant, CA 94061 Judith Gutierrez, CA 94061 Cheryl Macgregor, CA 94061 Gail Pomerantz, CA 94061 Susan Scott, CA 94061

Mark Siegel, CA 94061 Lora Angelot, CA 94062 Daniel Gibson, CA 94062 Brandon Rule, CA 94062 Melinda Davis, CA 94063 Paulette Elliott, CA 94063 Michele Kuperus, CA 94063 Marla Weber, CA 94063 Ana Oyuela, CA 94064 Michael Rogers, CA 94065 Manique Wijewardena Bloom, CA 94065 Corrine Aragon, CA 94066 Cheryl Hernandez, CA 94066 Kathy Rinetti, CA 94066 Jessica Williams, CA 94066 Mark Albertson, CA 94070 Vivian Brates, CA 94070 Arnulfo Ferfas, CA 94070 Helen Flynn, CA 94070 Marie Monohan, CA 94070 Gregory Brown, CA 94080 Barbara Butler, CA 94080 Caroline Dunn, CA 94080 Robert Merchan, CA 94080 Tom Mullen, CA 94080 Amy Nolan, CA 94080 Colleen Raymond, CA 94080 Raul Reyes, CA 94080 David Taylor, CA 94080 Judy Wedekind, CA 94080



Thomas Williams, CA 94080 Prince Bibee, CA 94085 Michael Carder, CA 94085 Elisabeth Cone, CA 94086 Michael Goltzer, CA 94086 Russell Hudson, CA 94086 William Jenkins, CA 94086 Alec Reitter, CA 94086 Kathleen Tomari, CA 94086 Hao Zhou, CA 94086 Janice Boothe, CA 94087 Carl Cheng, CA 94087 Paul Falworth, CA 94087 Jan Looney, CA 94087 Marilyn Wendler, CA 94087 Alison White, CA 94087 Joseph Batchelder, CA 94089 Michelle Rifkin, CA 94089 Anne Farrah, CA 94102 Allegra Fortunati, CA 94102 Andrea Gomez, CA 94102 Valerie Gruber, CA 94102 William Heaps, CA 94102 Jennifer Levin, CA 94102 Carol Sexton, CA 94102 Bradley Wiedmaier, CA 94102 Rachel Becker, CA 94103 Amy Dipasquale, CA 94103 Derek Dukes, CA 94103 Lucas Foglia, CA 94103

Elisha Greenwell, CA 94103 Chris Hipps, CA 94103 Eamonn Kelly, CA 94103 Bonnie Rose, CA 94103 Victoria Rouse, CA 94103 Shelley Sandusky, CA 94103 Andrea Segura Smith, CA 94103 Sarah Vickers, CA 94103 Margaret Jacobberger, CA 94105 Dulcie Arnold, CA 94107 Natasha Arroyo, CA 94107 Toby Barlow, CA 94107 Michael Bergelson, CA 94107 Katherine Bowdish, CA 94107 Cassandra Caputo, CA 94107 Susan Cote, CA 94107 John Croizat, CA 94107 Martha Dean, CA 94107 Barbara Dickinson, CA 94107 Arthur Dixon, CA 94107 Jeffrey Galyon, CA 94107 Vera Grey, CA 94107 Amy Grigsby, CA 94107 Tal Hutchins, CA 94107 Kody Kilcrease, CA 94107 Joy M, CA 94107 Sally Mccarty, CA 94107 Elizabeth Mcnichols, CA 94107 Robyn Miles, CA 94107 Veronica Munoz, CA 94107



Steven Phillips, CA 94107 David Ropp, CA 94107 Sudesh Singh, CA 94107 Helen Soboski, CA 94107 Ann Spivack, CA 94107 Don Spradlin, CA 94107 Emily Zing, CA 94107 Maria Boutacoff, CA 94108 Gary Cne, CA 94108 Alison Hightower, CA 94108 Howard Holderness, CA 94108 Kirsten Strobel, CA 94108 Rose Abril, CA 94109 Michael Andow, CA 94109 Allison Brown, CA 94109 Roberta Buell, CA 94109 Matthew Castillon, CA 94109 Mary Cody, CA 94109 Gail Defferari, CA 94109 David Goff, CA 94109 Melissa Grindstaff, CA 94109 Robert Hall, CA 94109 Doreen Horowitz, CA 94109 Louise Lowry, CA 94109 Timothy Lucas, CA 94109 Robert Panozzo, CA 94109 Jennie Parrilla, CA 94109 Nicole Pitarre, CA 94109 Jeanne Rizzo, CA 94109 Fred Sherman, CA 94109

Julie Tang, CA 94109 Jennifer Wang, CA 94109 Helene Wenzel, CA 94109 Nancy Williams, CA 94109 Ane Becker, CA 94110 Josephine Bellaco, CA 94110 Lisabeth Castro-Smyth, CA 94110 Patricia Cotter, CA 94110 Suzanne Deblois, CA 94110 Dale Disney, CA 94110 Erika Ehmsen, CA 94110 John Fenno, CA 94110 Consuelo Ferreira, CA 94110 Stuart Gurtman, CA 94110 Charles Hemminger, CA 94110 Connie Hendrix, CA 94110 Ester Hernandez, CA 94110 Mirna Jiron, CA 94110 Benjamin Kim, CA 94110 Nate Koechley, CA 94110 Efrem Korngold, CA 94110 Eric Lamothe, CA 94110 Peter Mattsson, CA 94110 Lisa Messano, CA 94110 Carol O'Donovan, CA 94110 Jodi Perelman, CA 94110 Nicole Petrak, CA 94110 Felisa Preskill, CA 94110 Lori Sinsley, CA 94110 Suzanne Spong, CA 94110



Samuel Stone, CA 94110 Melinda Sullivan, CA 94110 Sasha Wisotsky, CA 94110 Ellen Embry, CA 94111 Barnett Klane, CA 94111 Jared Loewen, CA 94111 Jessica Silvestro, CA 94111 Charlie Stone, CA 94111 Jason Wallach, CA 94111 Brigitte Davila, CA 94112 Dernelio Echegoyen, CA 94112 George Engler, CA 94112 Herbert Jeong, CA 94112 Joe Litehiser, CA 94112 Sarah Machugh, CA 94112 Colby Ostberg, CA 94112 Sara Scanlan, CA 94112 Irene Smith, CA 94112 Robert Strawder, CA 94112 Joaquin Torres, CA 94112 Irene Zbiczak, CA 94112 Mark Ziegler, CA 94112 Michelle Birch, CA 94114 John Brooks, CA 94114 Steven Brown, CA 94114 Laurie Bushman, CA 94114 Lawrence Crickenberger, CA 94114 Gianna Defilippis, CA 94114 Susan Epstein, CA 94114 Helen Ferentinos, CA 94114

Richard Fouts, CA 94114 Stacey Lamirand, CA 94114 Dean Larson, CA 94114 Frank Latko, CA 94114 James Mchugh, CA 94114 Jeffrey Mitchell, CA 94114 Irma Perez, CA 94114 Ruben Perez, CA 94114 Jody Reichel, CA 94114 Robin Rome, CA 94114 Donald Schwarcz, CA 94114 Robert Scott, CA 94114 Edith Souter, CA 94114 Adam Sterling, CA 94114 Dale Tegman, CA 94114 John Wilkie, CA 94114 Christian Williams, CA 94114 Kathleen Yatskan, CA 94114 Nanette Bisher, CA 94115 Alejandra Calderon, CA 94115 Joanna Horsfall, CA 94115 David Isljamovski, CA 94115 Shan Kaur, CA 94115 Gerd Mairandres, CA 94115 Emily Martinez, CA 94115 Maureen Miller, CA 94115 Susan Miller, CA 94115 T o'Shea, CA 94115 Terri Perozzi, CA 94115 Sudie Sides, CA 94115



Robert Starkey, CA 94115 James Walter, CA 94115 Amy Widdowson, CA 94115 Yevgenia Altman, CA 94116 Bryan Boyle, CA 94116 Max Kwok, CA 94116 Carlos Lazo, CA 94116 Diana Puig, CA 94116 Mary Shays, CA 94116 Monique Aas, CA 94117 Tyler Altrup, CA 94117 Jennifer Brown, CA 94117 Brina Bujkovsky, CA 94117 Nicole Censani, CA 94117 Don Ehrlich, CA 94117 Elana Feinberg, CA 94117 Melinda Frenkel, CA 94117 Stephen Hartman, CA 94117 Stephen Herman, CA 94117 Anna Ioakimedes, CA 94117 Courtney Iwanaga, CA 94117 Deborah Jaffe, CA 94117 Pam Kalinowski, CA 94117 Takahiro Kawaguchi, CA 94117 Joe Mullin, CA 94117 Thomas Munn, CA 94117 Travis Peterson, CA 94117 Alexander Pollen, CA 94117 Belinda Presser, CA 94117 Kevin Rasmussen, CA 94117

Stephen Rosenbaum, CA 94117 Aaron Sagin, CA 94117 Susanna Shimizu, CA 94117 Anne Sunderland, CA 94117 David Tang, CA 94117 Renee Ward, CA 94117 Tomohisa Watanabe, CA 94117 Deb Zipp, CA 94117 Katie Albright, CA 94118 John Ball, CA 94118 John Beebe, CA 94118 Andrew Blackwell, CA 94118 Benjamin Byrne, CA 94118 Nicholas Goncharoff, CA 94118 Robin Greg, CA 94118 Terrel Hutton, CA 94118 Christopher Keyes, CA 94118 Faith Luber, CA 94118 Teya Neff, CA 94118 William Pearson, CA 94118 Kerry Philp, CA 94118 Michael Pinell, CA 94118 Patti Prichard, CA 94118 Peter Roopnarine, CA 94118 Kyra Vargas, CA 94118 Michele Bronson, CA 94121 Michael Coletta, CA 94121 Kristina Dahl, CA 94121 Rikki De Wit, CA 94121 Paul Kirkland, CA 94121



Maryjo Tisor, CA 94121 Sandra Ackers, CA 94122 Jessica Bayer, CA 94122 Myriam Delajara, CA 94122 Michael Fuchs, CA 94122 Jeff Ishizu, CA 94122 Diane Joneslowrey, CA 94122 Courtney Ryan, CA 94122 Anita Sigurdson, CA 94122 Laura Webber, CA 94122 Julie Baeder, CA 94123 Mike Gardner, CA 94123 Martin Gellen, CA 94123 Catherine Howley, CA 94123 Hayley Johnson, CA 94123 Robert Mcgown, CA 94123 Avia Mendez, CA 94123 Janice Moore, CA 94123 Russ Rogers, CA 94123 Luis Uribe, CA 94123 Miguel Galarza, CA 94124 Angelique Vonhalle, CA 94124 Allison Brown, CA 94127 Edith Matulac, CA 94127 Allison Metz, CA 94127 Dieter Meyerhoff, CA 94127 Michelle Childs, CA 94129 Robin Cornwell, CA 94129 Twonnette Pack, CA 94130 Ernesto Alfaro, CA 94131

Gerald Buss, CA 94131 Tod Elkins, CA 94131 Howard Fallon, CA 94131 Kieran Hannon, CA 94131 Alexis Panzer, CA 94131 Ashley Pittson, CA 94131 Michael Shpizner, CA 94131 Steffany Dignum, CA 94132 Youngha Lee, CA 94132 Nancy Mace, CA 94132 Rebecca Nepales, CA 94132 Michele Perlmutter, CA 94132 Jess Wells, CA 94132 Susan Adams, CA 94133 Emley Barbara, CA 94133 Michael Brunner, CA 94133 Linda Burke, CA 94133 Stacy Coghlan, CA 94133 Tom Edgar, CA 94133 Haideen Anderson, CA 94134 Michelle Biondini, CA 94134 Mitch Clark, CA 94134 Rolando Nunez Baza, CA 94134 Jaime Osorio, CA 94134 Michael Walsh, CA 94140 Robert Tessler, CA 94143 Maira Matsui, CA 94158 Kimberly Parolari, CA 94164 Takhong Guan, CA 94301 Gregory Hosono, CA 94301



Mary Nemerov, CA 94301 Ann Phares, CA 94301 Josh Rubietta, CA 94301 Margaret Simmons, CA 94301 Brian Goncher, CA 94303 Rick Jew, CA 94303 Lachen Pence, CA 94303 Thomas Snodgrass, CA 94303 Jj Davis, CA 94304 David Keefer, CA 94305 Barbara Wada, CA 94305 Irene Wapnir, CA 94305 Paul Cegielski, CA 94306 Sarah Cornwell, CA 94306 Megan Dunn, CA 94306 Kevin Hurley, CA 94306 Robert Klein, CA 94306 David Morandi, CA 94306 Joel Rosenberg, CA 94306 Ilya Veygman, CA 94306 Jay Levin, CA 94401 Natalia Nicholson, CA 94401 Tomasi Toki, CA 94401 Amber Farinha, CA 94402 Cynthia Ladd, CA 94402 Elizabeth Landsverk, CA 94402 Julie Neale, CA 94402 Benjamin Rubenstein, CA 94402 Sheila Sandow, CA 94402 Ross Weiner, CA 94402

Karen Biggers, CA 94403 Grace Hassid, CA 94403 Jane Mc Creary, CA 94403 Marianda Fahrnbruch, CA 94404 Nicole Gregory, CA 94404 Jennifer Sand, CA 94404 George Vail, CA 94404 Roxana Wales, CA 94404 John Chase, CA 94501 Anthony Dimaano, CA 94501 Benjamin Finkenbinder, CA 94501 Carlanne Foushee, CA 94501 Jeannine Gravem, CA 94501 Spencer Gross, CA 94501 Jill Hartman, CA 94501 Lori Hitchcock, CA 94501 Judith Hoff, CA 94501 Amba Johnson, CA 94501 Mary Larivers, CA 94501 Jessica Lilie, CA 94501 Erika Monterroza, CA 94501 Kelly Peterson, CA 94501 Anna Rossi, CA 94501 Claire Splan, CA 94501 Oscar Trevino, CA 94501 Linda Yang, CA 94501 Choni Yangzom, CA 94501 Cynthia Brashaun, CA 94502 Andrew Cohen, CA 94502 Cheryl Jones, CA 94502



Frances Shipilov, CA 94505 Steve Filson, CA 94506 Lori Garcia, CA 94506 Elizabeth Ng, CA 94506 Mark Wolfe, CA 94506 Raymond Cocchi, CA 94507 Fred Pazos, CA 94507 Richard Harrison, CA 94508 Kenneth Moll, CA 94508 Robert Stelling, CA 94508 Andre Clark, CA 94509 Terry Lakin, CA 94509 Juanita Patton-Alexandr, CA 94509 Teresa Pedras, CA 94509 Aida Rubio, CA 94509 Kornelia Strong, CA 94509 Michael Young, CA 94509 Elizabeth Nolan, CA 94510 Harry Andujar, CA 94513 Randa Awwad, CA 94513 Donald Burrow, CA 94513 Heather Partid, CA 94513 Jack Martin, CA 94515 Marcia Carrasco, CA 94517 Terry Barger, CA 94518 Michelle Curran, CA 94518 Jose Garcia, CA 94518 Ignacio Sanchez Hernandez, CA 94518 Casey Sasser, CA 94518 Christine Swieszcz, CA 94518

**KATHERINE UTCHEN, CA 94518** Patricia Brinton, CA 94519 Louis Dreyer, CA 94519 Samantha Fields, CA 94519 Megan Hallahan, CA 94519 Lisa Salbato, CA 94519 Melanie Thompson, CA 94519 Ann Collins, CA 94520 Salma Noor, CA 94520 Ellen Barrons, CA 94521 David Belli, CA 94521 Kimberly Espina, CA 94521 Craig Fleming, CA 94521 William Guthreau, CA 94521 Kevin Murphy, CA 94521 Richard Villalobos, CA 94521 Nicholas Kennen, CA 94523 James Phelan, CA 94523 Bruce Presnick, CA 94523 Iris Segal, CA 94523 Debra Stanley, CA 94523 Cathy Teegardin, CA 94523 Stephen Wilde, CA 94523 Erin Foley, CA 94526 Kevin Walker, CA 94526 Michele Ward, CA 94526 Chris Winter, CA 94526 Norman Bookstein, CA 94530 Betty Buginas, CA 94530 Jane Davis, CA 94530



Jennifer Kawar, CA 94530 Robert Maccoun, CA 94530 Monica Montgomery, CA 94530 Lisa Schoof, CA 94530 William Scott, CA 94530 Jemma Williams, CA 94530 Ruben Apodaca, CA 94531 Barbara Heredia, CA 94531 Connie Roark, CA 94531 Tonya Alston, CA 94533 Larry Bluford, CA 94533 Guadalupe Castro, CA 94533 Danielle Fischer, CA 94533 Myra Somerville, CA 94533 Steve Anaya, CA 94534 Lori Byrd, CA 94534 Samuel Catani, CA 94534 Robyn Collins, CA 94534 Everett Wood, CA 94534 Catherine Foster, CA 94536 Nicholas Horn, CA 94536 James Jensen, CA 94536 Richard Jones, CA 94536 Tamari Kirtadze, CA 94536 Elizabeth Knight, CA 94536 Eleanor Lykins, CA 94536 Alexis Madrid, CA 94536 Janet Quilici, CA 94536 George Avila, CA 94538 Venkata Balaji, CA 94538

Kristie Bihl, CA 94538 Andrew Strommen, CA 94538 Derrick Watson, CA 94538 Gilbert Doan, CA 94539 Valerie Kavlick, CA 94539 Matthew Mcginty, CA 94539 Shubhang Varma, CA 94539 Erlinda Flores, CA 94540 Catherine Ruesz, CA 94540 Bill Bradley, CA 94541 Kevin Burns, CA 94541 Adriana Gilmete, CA 94541 Sarah White, CA 94541 Kathleen Affleck, CA 94542 Jacki Anderson, CA 94542 Sandra Huffman, CA 94542 Elaine Jonesayer, CA 94542 Stephen Miller, CA 94542 Carol Morgan, CA 94542 Craig Browning, CA 94544 Patricia Smith, CA 94544 Carlos Uriarte, CA 94544 Earlene Wiley, CA 94544 Faisal Hamid, CA 94545 Alice Kemp, CA 94545 Joan Smith, CA 94545 David Butner, CA 94546 Edward Byrne, CA 94546 Lou Johnstone, CA 94546 Yvonne Jones, CA 94546



Steve Lewis, CA 94546 Katherine Sullivan, CA 94546 Christine The, CA 94546 James Wildeman, CA 94546 Allison Montgomery, CA 94547 Thomas Bishop, CA 94549 David Chiappetta, CA 94549 Julie Jarratt, CA 94549 Tim Lynch, CA 94549 Kathleen Marshall, CA 94549 Nick Pasto, CA 94549 Kathleen Penn, CA 94549 Jessica Uppal, CA 94549 Cynthia Benson, CA 94550 Mark Cameron, CA 94550 James Krossa, CA 94550 Jesse Palma, CA 94550 Marisa Balfour, CA 94551 Yvonne Konneker, CA 94551 Pamela Miller, CA 94551 Michael Reed, CA 94551 Melissa Wilson, CA 94551 Edward Molyneaux, CA 94552 Sonja Neal, CA 94552 Santha Pisharody, CA 94552 Pickens Saxton, CA 94552 Sondra Yellen, CA 94552 Eva Antilla, CA 94553 Sharon Cravanas, CA 94553 Deborah Cuevas, CA 94553

Terry Flaherty, CA 94553 Steven Freedman, CA 94553 Hope Garcia, CA 94553 Richard Keenley, CA 94553 Shirley Mcelhattan, CA 94553 Carole Nacon, CA 94553 Kathleen Nichols, CA 94553 Courtney Obrien, CA 94553 Virginia Pursley, CA 94553 Monica Rinna, CA 94553 Mark Salimbeve, CA 94553 Lisa Songster, CA 94553 Carol Sprecher, CA 94553 James Swide, CA 94553 Maurice Turrieta, CA 94553 Dolores Velasco, CA 94553 Janet Volkar, CA 94553 Ajay Aggrwal, CA 94555 Subbiah Kandasamy, CA 94555 Ralph Thomas, CA 94555 Gregory Watkins, CA 94556 Alex Alpert, CA 94558 Kira Ballotta, CA 94558 Oscar Castelo, CA 94558 Kris Freewoman, CA 94558 Tony Heinricher, CA 94558 Christopher Hoel, CA 94558 Linda Inlay, CA 94558 Nancy Nauman, CA 94558 Jeff Prather, CA 94558



Kendra Schalk, CA 94558 Alice Shearon, CA 94558 William Wendt, CA 94558 Kathryn Corna, CA 94559 Daniel Johns, CA 94559 Brian Nuss, CA 94559 Becky Peterson, CA 94559 Carolyn Sanchez, CA 94559 William Lockwood, CA 94560 Harral Robin, CA 94560 Nathalie Lezama-Ferro, CA 94561 John Zamora, CA 94561 Kathleen Dell'Aquila, CA 94563 Kyle Faulker, CA 94563 Lynn Uzzo, CA 94563 Ronald Wallace, CA 94563 Emily Wu, CA 94563 Ann Clay, CA 94564 Linda Katz, CA 94564 Cherry Molinari, CA 94564 Jasmine Smith, CA 94564 Katherine Dilao, CA 94565 Randall Gutierrez, CA 94565 Lisa Maule, CA 94565 Jennifer Achtert, CA 94566 Ede Bruce, CA 94566 Leonore Cusenza, CA 94566 Sriram Garimella, CA 94566 Linda Jordan, CA 94566 Serena Klimek, CA 94566

Sharon Marshall, CA 94566 Anil Mirchandani, CA 94566 Kori Neilsen, CA 94566 Robert Shenon, CA 94566 Sheila Thompson, CA 94566 Vito Tragni, CA 94566 Pegah Barzegar, CA 94568 Michele Day, CA 94568 Laurie Grand, CA 94568 Glenda Leatherman, CA 94568 Sam Mohanta, CA 94568 Linda Ballard, CA 94571 Joseph Pinkney, CA 94571 Justine Tenzeldam, CA 94572 Ann Estrada, CA 94574 Elaine Honig, CA 94574 Dawn Leininger, CA 94574 John Quinn, CA 94574 Miriam Delagrange, CA 94577 Anita Hong, CA 94577 Patricia Kilroe, CA 94577 Kerry Kurtz, CA 94577 Don Magnifico, CA 94577 Ilana Marcucci-Morris, CA 94577 Edward Strickland, CA 94577 Soraya Rahami, CA 94578 Mattie Turner, CA 94578 Karin Flores, CA 94579 Dori Grandbois, CA 94579 Mike Lanfear, CA 94580



Akira Sasaki, CA 94582 Julie Buchanan, CA 94583 Sharon Donovan, CA 94583 Mona Epstein, CA 94583 Jana Johnson, CA 94583 John Moore, CA 94583 Penny Wolfsohn, CA 94583 Vicky Clayton, CA 94585 Russell Jordan, CA 94586 Michael Mitchell, CA 94586 Todd Benson, CA 94587 Daniel Chaja, CA 94587 Aaron Christianson, CA 94587 Michael Guevara, CA 94587 Schola Idem, CA 94587 Dorothy Jones, CA 94587 Susan Lydick, CA 94587 Rick Munoz, CA 94587 Robin Talbott, CA 94587 James Woodhead, CA 94587 Alex Briones, CA 94588 Michelle Lee, CA 94588 June Lister, CA 94588 Heidi Mcfadden, CA 94588 David Telles, CA 94588 Vicky Fagan, CA 94589 Craig Christena, CA 94590 Amy Combs, CA 94590 Jimmy Genn, CA 94590 Sheri Jepperson, CA 94590

Alan Kimelman, CA 94590 Randall Koch, CA 94590 Robert Lewis, CA 94590 Kevin Radley, CA 94590 James Worthen, CA 94590 Natalia Zuniga, CA 94590 John Lawson, CA 94591 Steven Pasquale, CA 94591 Amelia Smith, CA 94591 Shannon Williams, CA 94591 Susan Williams, CA 94591 Paul Roberts, CA 94592 Kendra Berch, CA 94595 Steven Freemire, CA 94595 Stephanie Johnsonbaugh, CA 94595 Elizabeth Johnston, CA 94595 Drue Kramer, CA 94595 Marie Krausova, CA 94595 Nora Lapointe, CA 94595 David Mcmurry, CA 94595 Irene Wong, CA 94595 Robert Beavers, CA 94596 Karen Davey, CA 94596 Susan Iwamoto, CA 94596 Matthew Lawson, CA 94596 Randall Thompson, CA 94596 Kristy Wheeler, CA 94596 Robin Wolf, CA 94596 jane Corcoran, CA 94597 Paul Gommel, CA 94597



Cary Hellman, CA 94597 Elliott Leas, CA 94597 Danny Fried, CA 94598 John Hall, CA 94598 Allen Krimmel, CA 94598 Stewart Nakamura, CA 94598 Michael Strong, CA 94598 Lori Thomas, CA 94598 Omar Alaji, CA 94601 Nancy Broderick, CA 94601 Theresa Catlin, CA 94601 Cheri King, CA 94601 Mark Gilley, CA 94602 Edward Grigas, CA 94602 Jes Levine, CA 94602 Natasha Middleton, CA 94602 Brook Stern, CA 94602 Bonnie Stewart, CA 94602 Barbara Szudy, CA 94602 Gerrie Washburn, CA 94602 Karl Zitzow, CA 94602 Russell Blume, CA 94605 Dennie Cambitsis, CA 94605 Charlotte Campbell, CA 94605 Betty Mechles, CA 94605 Linda Petersen, CA 94605 Judith Rowan, CA 94606 Hoang Vuong, CA 94606 Jack Whiteford, CA 94606 Sue Ballinger, CA 94607

Odell Gibbs, CA 94607 Matthew Maltbie, CA 94607 Gregory Owens, CA 94607 Jill Shortley, CA 94607 Vani Singleton, CA 94607 Joanne Dickerson, CA 94608 Ben Ezeokoli, CA 94608 Daniel Gamboa, CA 94608 Peter Glazer, CA 94608 Michaele Smith, CA 94608 Alfred Edwards, CA 94609 Cassie Lopez, CA 94609 Stephanie Orozco, CA 94609 Kay Shearer, CA 94609 Dustin Smith, CA 94609 Jane Smith, CA 94609 Abdulaziz Alkhamri, CA 94610 Dale Bachman, CA 94610 Joanna Black, CA 94610 Shannon Coleman, CA 94610 Tracey Corder, CA 94610 Dias Cynthia, CA 94610 Marilyn Flower, CA 94610 Jim Hickman, CA 94610 Jewel Jauregui, CA 94610 Patricia Littlefield, CA 94610 Sabrina Moreno, CA 94610 Yeh Ray, CA 94610 Molly Sims, CA 94610 Peter Takeuchi, CA 94610



Ceil Tilney, CA 94610 Endrias Yohannes, CA 94610 David Arndt, CA 94611 Ada Burko, CA 94611 Blue Figueroa, CA 94611 Adella Gaston, CA 94611 Glen Hughes, CA 94611 Sarah Karlinsky, CA 94611 Michael Lamp, CA 94611 Meg Mcadam, CA 94611 Pamela Mercer, CA 94611 Daniel Newbrun, CA 94611 Terry Roemer, CA 94611 Suzanne Rowell, CA 94611 Dawn Warriner, CA 94611 Thomas Wright, CA 94611 Philip Zymet, CA 94611 Kevin Bean, CA 94612 Ernest Gundling, CA 94612 Penny Kreitzer, CA 94612 Lynda Morgan, CA 94612 Joseph Quisol, CA 94612 Peter Abel, CA 94618 Nicole Delger, CA 94618 Tracey Grossbach, CA 94618 Paula Hamilton, CA 94618 Lisa Kermish, CA 94618 Carl Resnikoff, CA 94618 Katrina Saba, CA 94618 Fran Solomon, CA 94618

Elizabeth Vanbenschoten, CA 94618 Ayanna Bennett, CA 94619 Diane Garner, CA 94619 Margaret Hu, CA 94619 Jacqueline Joseph-Veal, CA 94619 John Lee, CA 94619 Stuart Liroff, CA 94619 Sylvia Mcdaniel, CA 94619 Erin Miller, CA 94619 Meagan Mitchell, CA 94619 Robin Rosario, CA 94619 Thomas Swift, CA 94619 Susan Kaplan, CA 94702 Devon Lake, CA 94702 Ary Amerikaner, CA 94703 Sarah Crabtree, CA 94703 Brian Linde, CA 94703 Katherine Paur, CA 94703 Leah Simonweisberg, CA 94703 Vicki Sommer, CA 94703 Moulitsas Markos, CA 94704 Paul Mccold, CA 94704 Rohit Agrawal, CA 94705 Chris Averett, CA 94705 Helen Kim, CA 94705 Thomas Leong, CA 94705 Lisa Valentine, CA 94705 William Veale, CA 94705 Miles Culpepper, CA 94706 Rande Johnson, CA 94706



Lise Narath, CA 94706 Richard Wong, CA 94706 Kenneth Hempel, CA 94707 Susanne Huttner, CA 94707 Gail Miles, CA 94707 Paul Gill, CA 94708 Rose Morrell, CA 94708 David Bank, CA 94709 Nancy Denero, CA 94709 Guy Isely, CA 94709 Stephen Levine, CA 94709 Laurie Loftus, CA 94710 Clara Mclean, CA 94710 Summer Oram, CA 94710 Lydia Anderson, CA 94801 Frank Andrade, CA 94801 Susan Binder, CA 94801 Marsha Tomassi, CA 94801 Sharon Waterman, CA 94801 Lizabeth Asami, CA 94803 Diane Harris, CA 94803 Willie Jackson, CA 94803 Martha Acosta, CA 94804 Ian Carey, CA 94804 Shannon Erby, CA 94804 Gary Frank, CA 94804 Nancy Gruver, CA 94804 Raleigh Latham, CA 94804 Leatrice Lyon, CA 94804 Elizabeth Masterson, CA 94804

Lynne Maylath, CA 94804 Barbara Needell, CA 94804 Craig Parada, CA 94804 Marsha Vaughn, CA 94804 Amanda Bowens, CA 94805 Serena Donovan, CA 94805 Ruth Levin, CA 94805 Katherine Ralph, CA 94805 Michele Rappaport, CA 94805 Joseph Sosensky, CA 94805 Patsy Stubbs, CA 94805 Darrione Glover, CA 94806 Martin Goldie, CA 94806 Sam Maxie, CA 94806 Katherine Beacock, CA 94901 Jeanne Brophy, CA 94901 Rose Hunter, CA 94901 Mari Johnson, CA 94901 Dorothy Jones, CA 94901 Veronica Kirkpatrick, CA 94901 Barbara Levinson, CA 94901 Alexa Lucas, CA 94901 Sara Marchi, CA 94901 Anna Melillo, CA 94901 Miguel Ohara, CA 94901 Kathleen Pallie, CA 94901 Craig Shinnefield, CA 94901 Richard Britton, CA 94903 Marilynne Chophel, CA 94903 Christopher Fadeff, CA 94903



Walter Searway, CA 94903 Constance Sewing, CA 94903 Adam Silver, CA 94903 Cathy Tennant, CA 94903 Alfred Wallace, CA 94903 Brian Gleeson, CA 94904 Richard Lawrence, CA 94904 Emily Neill, CA 94904 Tanja Ross, CA 94904 Laura Talmus, CA 94904 Janet Wiginton, CA 94904 Lisa Flannigan, CA 94912 Janet Weil, CA 94920 Godie Gale, CA 94923 Joseph Straton, CA 94924 Leslie Baker, CA 94925 Glenda Corning, CA 94925 Candice Crider, CA 94925 Lori Saltveit, CA 94925 Sergio Canavati De La Torre, CA 94928 Pamela Feltrop, CA 94928 Timothy Griesser, CA 94928 Deanna Harmon, CA 94928 Tyson Hill, CA 94928 William Patterson, CA 94928 Bill Uriarte, CA 94928 Connie Varela, CA 94928 Latonia Wilson, CA 94928 Radha Blackman, CA 94930 Derek Johnson, CA 94930

Maureen Kroll, CA 94930 Larry Norall, CA 94930 Ashley Simon, CA 94930 Genevieve Sollecito, CA 94930 Gwen Wilson, CA 94930 Harry Boatright, CA 94931 Barbara Drago, CA 94931 Marilee Maertz, CA 94931 Ellen Miller, CA 94931 Janice Miskel, CA 94931 Deborah Prince, CA 94931 cindy wespestad, CA 94937 Monica Dehghan, CA 94939 Bugra Bakan, CA 94941 Christine Brandt, CA 94941 Jack Clapper, CA 94941 David Crockett, CA 94941 Melissa Damore, CA 94941 Sandra Godwin, CA 94941 Karen Henry, CA 94941 Margie Herman, CA 94941 Linda Lam, CA 94941 John Levin, CA 94941 Andrew Mcwhorter, CA 94941 Marina Multhaup, CA 94941 Lauren Parsons, CA 94941 Fredric Sherman, CA 94941 Allison Youngling, CA 94941 Ben Zelazny, CA 94941 Melissa Armoza, CA 94945



Francesca Bell, CA 94945 Scott Kohn, CA 94945 Tamami Tokutake, CA 94945 Meredith Vecchio, CA 94945 Silverman Lj, CA 94947 Karen Lynch, CA 94947 Karen Marks, CA 94947 Pauline Ridyard, CA 94947 Heather Sargent, CA 94947 Clive Burton, CA 94949 Macgregor Goodhart, CA 94949 Marcia Mclean, CA 94949 William Schultz, CA 94949 Erica Blaauw, CA 94952 Elenoa Komaisavai, CA 94952 Laurie Roth, CA 94952 Linda Book, CA 94954 Whitney Charles, CA 94954 Janet Fauerso, CA 94954 Stephanie Fuelling, CA 94954 Deb Haynes, CA 94954 Rickie Marecek, CA 94954 Saundra Parrett, CA 94954 Nancy Raw, CA 94954 Martha Frankel, CA 94956 Ann Griffin, CA 94956 Kristi Patterson, CA 94956 Terri Boutwell Boutwell, CA 94960 Michael Clark, CA 94960 Cara Derham, CA 94960

Paige Dickow, CA 94960 Angie Flynn, CA 94960 jane hall, CA 94960 John Lacy, CA 94960 Benhur Mesfin, CA 94960 Cynthia Rangaves, CA 94960 Kevin Spera, CA 94960 Elizabeth King, CA 94965 Aisha Stephenson, CA 94965 Jack Freckmann, CA 94973 Douglas Blaisdell, CA 95003 Robert Burkhart, CA 95003 Joseph Crossen, CA 95003 John Kelbert, CA 95003 Thomas Millman, CA 95003 Chris Scalzo, CA 95003 Dan Barnett, CA 95005 Roger Dunn, CA 95005 Erin Rogers, CA 95005 Heather Vinson, CA 95006 Sandra Harrington, CA 95008 Ricardo Herrera, CA 95008 Susan Rhodes, CA 95008 Amr Salahieh, CA 95008 Tena Taormina, CA 95008 Christine Weng, CA 95008 Catherine Dobbins, CA 95010 Mary Reilly, CA 95010 Deborah Secrest, CA 95010 Mary January, CA 95014



Babu Nott, CA 95014 Umesh Patil, CA 95014 Don Sun, CA 95014 Mariah Waite, CA 95014 Gerry Gerringer, CA 95018 Eric Welty, CA 95018 Alan Kabert, CA 95020 Ygnacia Rivas, CA 95020 Carol Tolbert, CA 95020 Lawrence Turk, CA 95020 Glynis Crabb, CA 95023 David Pollard, CA 95023 Sue Tatro, CA 95023 Alison Brewer, CA 95030 Kimberli Doty, CA 95030 Deborah Goldsmith, CA 95030 Jennifer Shepherd, CA 95030 Maryellen Burr, CA 95032 Tracey Fisher, CA 95032 Mft Maxwell, CA 95032 Pamela Price-Hawley, CA 95032 Sharon Roth, CA 95032 Michael Turpin, CA 95032 William Adams, CA 95033 Robert Boatright, CA 95033 Denise Devlin, CA 95033 Lee Simmons, CA 95033 Matthew Baltar, CA 95035 Ronald Harris, CA 95035 Rebecca Jacobs, CA 95035

Thuy Le, CA 95035 Anthony Miller, CA 95035 Wendy Stegeman, CA 95035 Karen Caruana, CA 95037 Joseph Charfauros, CA 95037 Orlando Davisson, CA 95037 Richard Overstreet, CA 95037 Brenda Sass, CA 95037 Anna Jenkins, CA 95046 Andrea Beswetherick, CA 95050 Rachelle Couture, CA 95050 Sherry Ernst, CA 95050 donna gatson, CA 95050 Amy Gies, CA 95050 Kim Gray, CA 95050 Barbara Hartman, CA 95050 Kellan Mcnamara, CA 95050 Benjamin Williams, CA 95050 Theresa Bashyam, CA 95051 David Holmby, CA 95051 David Ilumin, CA 95051 Adi Ogle, CA 95051 Derrick Chang, CA 95054 Mark Shimrock, CA 95054 Larry Smith, CA 95054 Karen Berlin, CA 95060 Mckenna Booth, CA 95060 Wendy Chapman, CA 95060 Roger Emanuels, CA 95060 Elizabeth Hagan, CA 95060



Stephen Kleshinski, CA 95060 Laurie Longenecker, CA 95060 Margaret Nelson, CA 95060 Rebecca Nolan, CA 95060 Donald Payne, CA 95060 Lelah Riccio, CA 95060 Diane Sipkin, CA 95060 Caroline Spurgin, CA 95060 Craig Venable, CA 95060 Chris Wentzien, CA 95060 Susan Zevanove, CA 95060 Armando Arias, CA 95062 William Farrington, CA 95062 Russell Frye, CA 95062 Robin Lysne, CA 95062 Claudio Perez, CA 95062 Julia Pinsky, CA 95062 Heidi Rielly, CA 95062 Anita Sandman, CA 95062 Susan Walton, CA 95062 William Wright, CA 95062 Jonathan Fox, CA 95064 Shankari Patel, CA 95064 Lee Ritscher, CA 95064 John Laurent, CA 95066 James Hopkins, CA 95070 Christine Hurd, CA 95070 David Scott, CA 95070 Alayne Meeks, CA 95073 Bruno Casillas, CA 95076

Michael Cruddas, CA 95076 LOIS HAGEN, CA 95076 Patti Jadrich, CA 95076 Victor Kimura, CA 95076 Barbara Knapp, CA 95076 Lee Rhoades, CA 95076 Berta Rodriguez, CA 95076 Robert Shacklett, CA 95076 Cristina Kochevar, CA 95077 Sandra Jackson, CA 95101 Keith Berger, CA 95110 Amanda Georges, CA 95110 Kevin Hughes, CA 95110 Richard Saunders, CA 95110 Jason Syu, CA 95110 Rochelle Velazquez, CA 95110 Robert Hatch, CA 95111 Joel Wachs, CA 95111 Lori Gilliar, CA 95112 Una Mendoza, CA 95112 Katherine Mirassou, CA 95112 Armando Cabrales, CA 95116 Phuc Le, CA 95116 Olympia Williams, CA 95116 Marty Brill, CA 95117 Stephen Hartzell, CA 95117 Rosario Herrera, CA 95117 Charles Beazell, CA 95118 Gloria Brown, CA 95118 Jill Levy, CA 95118



Thomas Logan, CA 95118 Medhat Matter, CA 95119 Sherri Enzminger, CA 95120 Patricia Lockyer, CA 95120 Robert Murua, CA 95120 Pollyanna Pixton, CA 95120 Lisa Vasquez, CA 95120 Lisa Ayala, CA 95121 Tho Nguyen, CA 95121 Elizabeth Shaw, CA 95121 Le Tan, CA 95121 Kimberlee Cowan, CA 95123 Marcia Harper, CA 95123 Gbvivek Li, CA 95123 Rowena Pelczynski, CA 95123 Elizabeth Tritch, CA 95123 Sharlene Valencia, CA 95123 Zachary Vaughn, CA 95123 Zonia Caceres, CA 95124 Fernando Chavez, CA 95124 Mark Jansen, CA 95124 Heather Peters, CA 95124 Jennifer Petroff, CA 95124 Anette Reeves, CA 95124 David Sylvia, CA 95124 Jeromy Carssow, CA 95125 Denise Cranney, CA 95125 Larry Engstro, CA 95125 Mahmoud Gahrahmat, CA 95125 Julianita Maestas, CA 95125

Erin Sarpa, CA 95125 Sonja Scheelke, CA 95125 Benjamin Trumbull, CA 95125 Lindsey Adams, CA 95126 Fernando Chavez, CA 95126 Gregory Cohen, CA 95126 Frank Farris, CA 95126 Cecila Macias, CA 95126 Stephanie Taylor, CA 95126 Zeenat Vastrad, CA 95126 Laura Gambelin, CA 95127 Hossein Akbari, CA 95128 Rick Grassadonia, CA 95128 Candice Piper, CA 95128 Virginia Wilson, CA 95128 Akruti Gupta, CA 95129 Roseanne Becher, CA 95130 Amanda Micheli, CA 95130 Linda Kitchen, CA 95131 Erik Sanjurjo, CA 95132 Dominique Yarritu, CA 95132 Laura Bader, CA 95133 Greka Badilla, CA 95133 Elena Cacace, CA 95134 Cheryl Culclager, CA 95134 Susan Kincaid, CA 95134 Lawrence Tutino, CA 95134 Renee Delacruz, CA 95136 Douglas Easley, CA 95136 Rolwin Lewis, CA 95136



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Damali Robertson, CA 95219 Thomas Cahill, CA 95223 Traci Adams, CA 95240 Michael Robinson, CA 95240 Randy Reeves, CA 95242 Charnette Boylan, CA 95249 Jessica Lindahl, CA 95257 Camilo Soto, CA 95301 Crystal King, CA 95305 Tanya Edwards, CA 95307 Margi Tanner, CA 95311 Thomas Bundy, CA 95316 Jamie Sims, CA 95320 Doral Gonzales, CA 95322 Julie Wilcox, CA 95327 Kathryn Gomes, CA 95336 Allen Wittenberger, CA 95336 Ron Bledsoe, CA 95337 John Hulbert, CA 95338 Jennifer Anderson, CA 95340 Janet Mccabe, CA 95340 Juan Villegas, CA 95340 Doreen Kuneck, CA 95341 Rebecca Graves, CA 95348 Lynn Kateley, CA 95348 Norene Austin, CA 95350 Vernon Hartwell, CA 95350 Ami Mishler, CA 95350 Randy Sanchez Landa, CA 95350 Leticia Venegas, CA 95351



Michael Abbott, CA 95354 Lisa Arnold, CA 95354 Regina Brennan, CA 95354 Emanuel Cardoso, CA 95354 Minerva Perez, CA 95354 Margaret Beck, CA 95355 Karole Britton, CA 95355 Wendy Bryson, CA 95355 Paula Crowther, CA 95355 Mark Wilbur, CA 95355 Carol Bulman, CA 95356 Jeri Johnson, CA 95356 Hugo Patino, CA 95356 Phillip Somers, CA 95356 Jerry Weimer, CA 95356 Eugenia Bentayeb, CA 95360 Lauren Noble, CA 95361 Leanne Baker, CA 95366 Misael Avila, CA 95367 Mike Jackson, CA 95367 Patrick Webster, CA 95368 Roy Bartholomew, CA 95370 Emily Branscum, CA 95370 Carol Mckee, CA 95370 Lavada Sullivan, CA 95370 Julie Harris, CA 95372 DAWN BILL, CA 95376 Anna Dearlove, CA 95376 Dave Groves, CA 95376 Vicki Ramirez, CA 95376

Ralph Jones, CA 95377 Keith Loche, CA 95377 Teri Hines, CA 95380 Kathleen Tullio, CA 95382 Catherine Jones, CA 95383 Chelsea Horvath, CA 95386 Javier Soliz, CA 95391 Randi Cornwall, CA 95401 Heather Hardcastle, CA 95401 Donna Parker, CA 95401 Lynn Sarrade, CA 95401 Viorica Sebestin, CA 95401 Ronald White, CA 95401 Charles Hughes, CA 95402 Pamela Benz, CA 95403 Kim Marbury, CA 95403 Carol Pagal, CA 95403 Sheila Robinson, CA 95403 Laurelyn Andrew, CA 95404 Jane Campbell, CA 95404 Susan Gentile, CA 95404 Dennis Goodrow, CA 95404 Kelly Jenkins, CA 95404 Lawrence Natalini, CA 95404 Jennifer Vala, CA 95404 Kevin White, CA 95404 Michael Wilde, CA 95404 Peggy Albright, CA 95405 Sally Downs-Phoenix, CA 95405 Amy Forlan, CA 95405



Keith Hallock, CA 95405 Nadenia Newkirk, CA 95405 Wayne Seden, CA 95405 Diana Rae, CA 95407 Renate Fassbender, CA 95409 Patricia Holladay, CA 95409 Frank Longoria, CA 95409 Alan Schackman, CA 95409 Paul Schwartz, CA 95409 Andrea Weinstein, CA 95409 Kaytlin Bennett, CA 95421 Karen Walker, CA 95436 Mary Desautels, CA 95437 Charles Fleischman, CA 95437 TIMOTHY HALL, CA 95437 Timothy Perry, CA 95437 Norma Watkins, CA 95437 Lana Karhu, CA 95444 Antoinette Lang, CA 95445 Paul Mcknight, CA 95446 Katherine Lacy, CA 95448 Garrick Maul, CA 95448 Bonita Munoz, CA 95448 Elizabeth Schuiling, CA 95448 Sharon Stinson, CA 95448 Sally Weed, CA 95448 paul carlsen, CA 95451 Robert Laubach, CA 95451 Kathleen Shanklin, CA 95452 Hedy Montoya, CA 95453

Barbara Mccoid, CA 95461 Lorin Mcclendon, CA 95464 Lori Platt, CA 95470 Diane Estrin, CA 95472 Kevin Kraynak, CA 95472 Devra Newhouse, CA 95472 Christopher Orsine, CA 95472 Gregory Bowman, CA 95476 Carlile Breeze, CA 95476 colleen carrano, CA 95476 Kimberly Enzensperger, CA 95476 Susan Lucas-Conwell, CA 95476 Rene Parker, CA 95476 Charles Williams, CA 95476 Adrienne Doss, CA 95492 Gary Johanson, CA 95492 Shirley Jones, CA 95492 Scott Snow, CA 95492 Crista Truex, CA 95501 Robert Pitts, CA 95503 Jill Williams, CA 95503 Charles Dory, CA 95519 Ashley Kane, CA 95519 Scott Sway, CA 95519 Virginia Rogers, CA 95521 Marian Bogdanyi, CA 95536 Emily Silver, CA 95536 Pamela Bellah, CA 95540 Michael Thompson, CA 95542 Pamela Lutchen, CA 95554



Jason Hachtel, CA 95562 Brian Dadisman, CA 95567 Karen Dillon, CA 95567 Fran Cvitkovich, CA 95570 Ellen Drury, CA 95570 Patricia Strepy, CA 95570 Joan Beesley, CA 95602 Thomas Neary, CA 95602 Nicolas Bellanca, CA 95603 Barbara Grandstaff, CA 95603 Glen Kramer, CA 95603 Helen Melick, CA 95603 Claude Davis, CA 95604 Terre Davis, CA 95604 Robyn Pask, CA 95604 Brian Belluomini, CA 95608 Tawasky Carter, CA 95608 Jamie Elverum, CA 95608 Sally Lee, CA 95608 George Leidy, CA 95608 Russell Lobue, CA 95608 Barbara Owens, CA 95608 Terry White, CA 95608 Linda Coffman, CA 95610 Pamela Rubitsky, CA 95610 Daniel Anderson, CA 95616 Helen Barbe, CA 95616 Carol Biancalana, CA 95616 Leslie Gordon, CA 95616 Rebecka Hagerty, CA 95616

Robert Halferty, CA 95616 Gautam Jagannath, CA 95616 Nancy Kirk, CA 95616 Barbara Renwick, CA 95616 Laura Routh, CA 95616 Charla Salcido, CA 95616 Sylvia Sensiper, CA 95616 Marilyn Stratton, CA 95616 Steven Weiss, CA 95616 Marian Zingaro, CA 95616 Colleen Clancy, CA 95618 James Danzer, CA 95618 Anett Evans, CA 95618 Joseph Green, CA 95618 Elaine Bishop, CA 95620 Katherine James, CA 95620 Miguel Oropeza, CA 95620 James Stevens, CA 95620 Linda Moffatt, CA 95621 Karen Perry, CA 95621 Georgia Tardy, CA 95621 Stephanie Batey, CA 95624 John Camarra, CA 95624 Erin Dant, CA 95624 David Quecke, CA 95624 Michael Radam, CA 95624 James Walls, CA 95624 Javier Lerma, CA 95626 Sandra Reed, CA 95627 Lynn Rolston, CA 95627



Benny Barrios, CA 95628 Albert Cheung, CA 95628 Carrie Culver, CA 95628 Darius Davenport, CA 95628 Karen Hallagan, CA 95628 Kathy Kilpatrick, CA 95628 Susan Neal, CA 95628 David Neff, CA 95628 Coleman Newell, CA 95628 Jonathan Sachs, CA 95628 Kirsten Votaw, CA 95628 Dianna Batt, CA 95630 Soyab Huseinbhai, CA 95630 Frank Jacobs, CA 95630 Patrick Kelly, CA 95630 James Marsh, CA 95630 Michele Smith, CA 95630 John Thomas, CA 95630 Laural Hockenson, CA 95633 Charlyn Parker, CA 95638 Cheryl Bozzie, CA 95640 Jacqueline Butler, CA 95648 Leslie Cappelletti, CA 95648 Robert Christopherson, CA 95648 Theodore Cohen, CA 95648 B Franks, CA 95648 Susan Hannah, CA 95648 Patricia Malberg, CA 95648 Donald Rives, CA 95648 Leslie Uyeno, CA 95648

Brooke Allison, CA 95650 Janis Jones, CA 95650 Michael Neal, CA 95650 Pamela Richards, CA 95650 Patrick Sayer, CA 95650 Dana Stone, CA 95650 Gloria Omania, CA 95651 Lorraine Osborn, CA 95660 Janis Arredondo, CA 95661 F Chalmers, CA 95661 Paul Fisher, CA 95661 Joyce Frederick, CA 95661 Sheryl Gray, CA 95661 Kia Hatch, CA 95661 Brooke Whitlock, CA 95661 Lynn Yamamoto, CA 95661 Dan Durrant, CA 95662 Judy Elston, CA 95662 Brett Pittman, CA 95664 Jacob Rosano, CA 95664 Mary Hickcox, CA 95665 William Dye, CA 95666 Shirley Trent, CA 95666 Susan Turner, CA 95666 Julie Collier, CA 95667 Alison Gimpel, CA 95667 Mark Thoma, CA 95667 Michaele Beebe, CA 95670 Dale Hatt, CA 95670 Jane Pearce, CA 95670



Mary Purvis, CA 95670 Mary Yaryan, CA 95670 Owen Davies, CA 95672 Cheryl Abernathy, CA 95673 Jennifer Wells, CA 95674 Lana Gartin, CA 95677 Jill Matney, CA 95677 Mary Pitcher, CA 95677 Melinda Wetzel, CA 95677 Ellen Debachriley, CA 95678 Donald Hall, CA 95678 Cheri Jump, CA 95678 Pamela Lundgren, CA 95678 Helane Seikaly, CA 95678 Sylvia Escobar, CA 95682 Patricia Felten, CA 95682 Diane Shoff, CA 95682 Sally White, CA 95683 James Perry, CA 95685 Teresa Cosper, CA 95687 Daunna Harris, CA 95687 Denise Peebles, CA 95687 Joyce Pippen, CA 95687 Richard Potts, CA 95687 Megan Kaufman, CA 95688 Mark Richard, CA 95688 Derek Backus, CA 95691 Terri Mccall, CA 95691 Brad Pedersen, CA 95691 Barbara Winter, CA 95691

Reuben Schilling, CA 95694 Deanna Petersen, CA 95695 Robert Pratt, CA 95695 Christine Russell, CA 95695 Lori Shaw, CA 95695 Jennifer Cantrell, CA 95701 Adrienne Arnold, CA 95722 Carol Bellamy, CA 95722 Michael Vonada, CA 95726 Cynthia Weight, CA 95741 Cindy Colosimo, CA 95742 Marcia Hager, CA 95742 Patricia Williams, CA 95742 Kristy Muller, CA 95746 Mona Reyes, CA 95746 Leanna Wedel, CA 95746 Rebecca Acosta, CA 95747 Anne Barrett, CA 95747 Susan Edie, CA 95747 Julie Galliano, CA 95747 Chinnaian Jawahar, CA 95747 Christopher Kent, CA 95747 Kathleen Maccoll, CA 95747 Jaclyn Moreno, CA 95747 Beverly Nesmith, CA 95747 Janine Preston, CA 95747 Frankie Schesser, CA 95747 Kim Anderson, CA 95758 John Caldwell, CA 95758 Rydell Gibson, CA 95758



Jen Teyler, CA 95758 Olivia Willis, CA 95758 Ross Woodman, CA 95758 Aaron Anderson, CA 95762 Mary Lou Gattuso, CA 95762 Lauren Gould, CA 95762 Rhonda Grider, CA 95762 Vikki Lewis, CA 95762 Cassandra Aceves, CA 95765 Susan Andrews, CA 95765 Kathleen Doerr, CA 95765 Kenneth Lembach, CA 95765 Tom Mcmahon, CA 95765 Richard Riley, CA 95765 Noreene Shaffer, CA 95765 David Kumar, CA 95776 Dennis Wilson, CA 95798 Gil Caravantes, CA 95811 Philip Harvey, CA 95811 Benjamin Lesenana, CA 95812 Monique Polk, CA 95812 Jacob Whitaker, CA 95812 Sherri Cizad, CA 95814 Arnold Holm, CA 95814 Karen Lemmons, CA 95814 John Weems, CA 95814 Katherine Craig, CA 95815 Lindsay Bennett, CA 95816 Patrice Davis, CA 95816 Janet Geiger, CA 95816

Walter H. Loving Iii, CA 95816 Barb Thalacker, CA 95816 Eric Waddell, CA 95816 Chris Weare, CA 95816 Haley Williams, CA 95816 Robert Yee, CA 95816 Judy Brush, CA 95818 Janet Cassie, CA 95818 Phoebe Celestin, CA 95818 Aaron Stillwell, CA 95818 William Aguirre, CA 95819 Kathleen Cook, CA 95819 Connie Emerson, CA 95819 Wayne Mcguirt, CA 95819 Kristina Palmer, CA 95819 Paul Hanson, CA 95820 Dale King, CA 95820 Samantha Ramsey, CA 95820 Sasha Wisotsky, CA 95820 Margaret Hodo, CA 95821 Patricia Lawson, CA 95821 Deniece Radan, CA 95821 Joan Batie, CA 95822 Matthew Carrigan, CA 95822 terri clark, CA 95822 Myriam Levy, CA 95822 Zak Venegas, CA 95822 Daniel Weitzman, CA 95822 Dayle Thompson, CA 95823 Frank Torres, CA 95824



Mary Bear, CA 95825 Jerry Beeler, CA 95825 Linda Budd, CA 95825 Diane Delaney, CA 95825 Penny Ellison, CA 95825 Polly Kleinberg, CA 95825 Tim Reese, CA 95825 Julia Winston, CA 95825 Bibiana Alvarez, CA 95826 Brenda Heath, CA 95826 Linda Moulton, CA 95826 Gary Pennington, CA 95826 Cherise Zufelt, CA 95826 Sharon Craig, CA 95828 Maria Dedet, CA 95828 Victoria Mcilwain, CA 95828 Dale McKinney, CA 95828 Sara Mira, CA 95828 Elizabeth Adams, CA 95829 Johnny Chong, CA 95829 Erika Hughes, CA 95829 Charles Martin, CA 95831 Rella Remedios, CA 95831 Suzanne Thompson, CA 95831 Justin Wentzel, CA 95831 Susan Williams, CA 95831 Theresa Lose, CA 95832 Daniel Albert, CA 95833 Alain Conder, CA 95833 Sue Considine, CA 95833

Gina Dasilva, CA 95833 Justin Kennedy, CA 95833 Victor Mora, CA 95833 John Cronin, CA 95834 Roy Harrell, CA 95834 Mark Thorsell, CA 95834 Mark Viviano, CA 95834 Raymond Cadei, CA 95835 Alverta Harty, CA 95835 Bonnie March, CA 95835 Tammy Pappas, CA 95835 Susan Persons, CA 95835 Madalynn Rucker, CA 95835 Merry Gaskill, CA 95838 Michael Obrien, CA 95841 Lauren Musgrove, CA 95842 Ellen Read, CA 95842 Kathleen Rubin, CA 95842 Melissa Macias, CA 95843 Rob Woods, CA 95843 Robert Yount, CA 95843 Ayanna Crenshaw, CA 95852 Robyn Delong, CA 95864 Autumn Finnerty, CA 95864 Leslie Holzman, CA 95864 Mary Huttner, CA 95864 Gabriel Maiol, CA 95864 Hattie Bains, CA 95901 Denise Bays, CA 95901 Shelley Lehman, CA 95918



Sylvie Allione, CA 95926 Barbara Bertapelle, CA 95926 Teresa Gisske, CA 95926 John Martin, CA 95926 Lynn Millon, CA 95926 Susan Prescott, CA 95926 Genevieve Smith, CA 95926 Richard Snodgrass, CA 95926 Gary Wilson, CA 95926 Darin Bolt, CA 95928 Rebecca Brunelli, CA 95928 Sonya Huss, CA 95928 Michelle Mcgivern, CA 95928 Cameron Pearson, CA 95928 Traci Burnham, CA 95937 Sharon Deal, CA 95945 Ella Lerche, CA 95945 Laura Morton, CA 95945 Terence Young, CA 95945 Lindsey Buis-Kelley, CA 95947 Susan Ingrey, CA 95947 Victor Doherty, CA 95949 Brian Kilcourse, CA 95949 Laura Mcnaughton, CA 95949 Patricia Loera, CA 95951 Linda Evans, CA 95953 Anita King, CA 95954 Sue Mcclinton, CA 95954 Jonathan Blinder, CA 95959 Stephanie Howerton, CA 95959

Marilyn Mociun, CA 95959 Tammi Taber, CA 95961 Terry Fountain, CA 95963 Linda Waddell, CA 95966 Robert Melera, CA 95968 David Nemat-Nasser, CA 95973 Melissa Wheeler, CA 95977 Ryan Mc Kindles, CA 95981 Jana Rigsby, CA 95991 Lynn Arp, CA 95993 Doug Gibbs, CA 95993 Marilyn Scott, CA 95993 Kathleen Lowrance, CA 96001 Nelda Mayo, CA 96001 Sara Nichols, CA 96001 Ashley Raimondi, CA 96001 Anna Ratner, CA 96001 Tammi Garber, CA 96002 Angelica Huerta, CA 96002 Keith Brookshaw, CA 96003 Jacquelyn Carr, CA 96003 Constance Laughlin, CA 96003 Keith Melton, CA 96003 Kim Tyler, CA 96003 John Hayes, CA 96007 Dalton Boecking, CA 96019 Debbie Bailey, CA 96022 Kathryn Richards, CA 96022 Toni Wyro, CA 96032 Valerie Allison, CA 96067



Karen Holmes, CA 96067 Jill Phillips, CA 96067 Paula Bibb, CA 96073 Kenneth Towle, CA 96073 Patricia Heiman, CA 96094 Randall Peterson, CA 96094 Martin Rosen, CA 96109 Barbar Bannar, CA 96150 Abby Pappenfus, CA 96150 Hailey Brewer, CA 96161 Carrie Haines, CA 96161 Ahrin Koppel, CA 96161 Violet Nakayama, CA 96161 James Wiesner, CO 92024 Janel Jung, IA 94107 Beth Rimanoczy, IN 948 Sandra Obrien, Anchorage, AK Mela Arevalo, Juneau, AK Lola Collins, Anniston, AL Zakia Kator, Corona, AL Roxanne Moran, Harrison, AR Rita Redmond, Avondale, AZ Jay Luna, Phoenix, AZ John Stoneham, Prescott, AZ Michelle Garcia, Prescott Valley, AZ John Harrison, Scottsdale, AZ Leslie Janik, Surprise, AZ Catherine Studer, Tucson, AZ Thomas Gordon, Denver, CO Pat Kelly, Denver, CO

Torunn Sivesind, Denver, CO Lael Mccoy, Golden, CO Mark Selak, Parker, CO Sarah Kincaid, Wheat Ridge, CO Wendy Novick, Orange, CT Jay Weinman, Redding, CT Blair Bowie, Washington, DC Lois Fishman, Washington, DC Michael Kharfen, Washington, DC Lauren Miller, Washington, DC Betty Southard, Largo, FL Pavelly Moure, Lehigh Acres, FL Horacio Arce, Miami, FL Glenn Joyner, Orlando, FL Justina Powell, Pembroke Pines, FL Ken Beer, Port Saint Lucie, FL Edward Klein, Vero Beach, FL Marilyn Saffer, West Palm Beach, FL Alice Gray, Atlanta, GA Kaiulani Conner, Haiku, HI Tamara Todd, Hilo, HI Linda Orr, Kailua Kona, HI Elissa Kline, Hailey, ID Sherry Chandos, Chicago, IL John Garcia, Chicago, IL Maureen Graves, Chicago, IL Melissa Bailey, Columbus, IL Jeffrey Scott, Granite City, IL Robyn Donaldson, Hazel Crest, IL Raymond Ryals, Libertyville, IL



David Fox, Wheaton, IL Lilian Hsu, Amherst, MA Matthew Dixon, Boston, MA Jasi Walker, Boston, MA Kori Hitchcock, Brookline, MA Srivatsa Manjunath, Chelmsford, MA Susana Carranza, Melrose, MA Jeanne Markel, Osterville, MA Jack Cheng, Waban, MA Stefanie Moore, Baltimore, MD Sangeetha Menon, Columbia, MD Jim Arney, Ellicott City, MD Paul Sivak, Parkville, MD Susan Buck, Rockville, MD Scott Jacobs, Takoma Park, MD Heidi Turner, Calais, ME Steven Shane, South Portland, ME Gregory Fox, Ann Arbor, MI Judy Rodrigues, Belmont, MI Cheryl Vaughn, Brighton, MI Michelle Moustakas, Canton, MI Kate McClanaghan, Detroit, MI Julio Marquez, Mount Pleasant, MI Michael Cohen, Royal Oak, MI Lisa Jacobs, Springport, MI Eva Bagen, Eden Prairie, MN Brian Breheny, Minneapolis, MN Pearce Bunting, Minneapolis, MN Alex Sachs, Kansas City, MO Juanita Hennessey, Durham, NC

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Christopher Burgess, Columbus, OH Joyce Wagner, Dayton, OH Jennifer Mariotti, Bend, OR Edward Ehrhart, Eugene, OR Ann Mounce, Grants Pass, OR Kelly Villarreal, La Pine, OR Sean Becker, Lake Oswego, OR Caitlin French, Lake Oswego, OR Tammy Carpenter, Portland, OR Emily Howell, Portland, OR Evan Ingle, Portland, OR Patricia Iwata, Portland, OR Kathryn Kucinski, Portland, OR Ann Lyon, Portland, OR Soohyen Park, Portland, OR David Samuels, Portland, OR Joseph Sharp, Portland, OR Sally Travi, Portland, OR Martin Vazquez, Portland, OR Idabelle Fosse, Salem, OR John Saffell, Tarzana, OR Richard Colisch, Tualatin, OR Judith Terry, Veneta, OR Barbara Tabler, West Linn, OR Travis Beller, Allentown, PA Carl Griffin, Downingtown, PA Jaime West, Greensburg, PA Peter Dualacher, Havertown, PA Kim Allen, Norristown, PA Joyce Leasher, North Wales, PA

Jenny Littleton, Richboro, PA M. Colette Plum, Rutledge, PA Linda Hoffman, Telford, PA Brian Houghtaling, Wellsboro, PA LEROY BENNETT, Middletown, RI Laurie Masterson, Warwick, RI Maria Guillen, Bluffton, SC Natilee Duning, Brentwood, TN Ian Salter, Clarksville, TN Lesley Wood, Knoxville, TN James Nicol, Aledo, TX Madelyn Bernstein, Austin, TX Darryl Crawford, Austin, TX Jessica Lorenzana, Austin, TX Joe Nation, Austin, TX Kristen Schumacher, Bandera, TX Pamela Burnham, Cedar Park, TX Richard Robinson, Corpus Christi, TX Aaron Weinstein, Dallas, TX Madalyn Martinez, Denton, TX Michael Patton, Flatonia, TX Pandora Angelisanti, Harker Heights, TX Mason Jones, Lubbock, TX Victoria Glass, McAllen, TX David Schwartz, Sachse, TX Pam Fox, San Antonio, TX William Sibley, San Antonio, TX Ed Nobis, Salt Lake City, UT Elissa Smith, Alexandria, VA Jerry Turney, Midlothian, VA



Danielle Sorahan, Vienna, VA Jane Riedel, Orwell, VT James Mackinnon, Richford, VT Anne Bower, S Pomfret, VT Caroline Coker Mckie, Bainbridge Island, WA Michael Rosenthal, Bainbridge Island, WA Pat Schaechter, Bellevue, WA SHARYN MARTIN, Bellingham, WA Larry Hejny, Grants Pass, WA Andrew Struck, Kent, WA Eric Simila, Kingston, WA Turner Erin, Kirkland, WA Chris Diehl, Mercer Island, WA Karen Crum, Poulsbo, WA Kevin Bertrand, Pullman, WA Paul Jonas, Redmond, WA Che Anselmo, Seattle, WA

Elisabeth Crabtree, Seattle, WA David Dresser, Seattle, WA Benjamin Park, Seattle, WA Nina Simonds, Seattle, WA Jonah Weikert, Seattle, WA Lynn Johnson, Spokane, WA Gwenvere Modica, Spokane, WA Whitney Parker, Vancouver, WA Kathy Wolchick, Vashon, WA Kay Gore, White Salmon, WA Laura Landreth, Balsam Lake, WI Dorcas Jones, Fairfield, WI Ruth Crump, Madison, WI Earl Green, Madison, WI Sam Egan, Milwaukee, WI Alzina Davenport, Jackson, WY

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 <u>red underline</u> and <u>black strikethrough</u>. 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

Contact	Petition	Unique	Affected	MLPA	Action	Action Category	Proposed Action	Justification
Organization	Tracking Number	Action ID	MPA	Action Category (modify, establish, abolish)	Туре	Tellon Category		Justification
Laura Deehan, Environment California Research and Policy Center and Azul	2023-33MP A	2023-33MP A_1	Cabrillo State Marine Reserve (SMR)	Modify	Boundari es	Boundary change- expansion	Expand westward and northward by <del>15.2 sq mi</del> ~9.99 sq mi	Stakeholder feedbackcommer cial fishers (see Table 2)
Laura Deehan, Environment California Research and Policy Center and Azul	2023-33MP A	2023-33MP A_2	Point Dume SMCA	Modify	Boundari es, <u>Regulatio</u> <u>ns</u>	Boundary change- expansion, <u>regulatory</u> <u>change</u>	Expand westward by 4.6 sq mi	Stakeholder feedbackrecreatio nal fishers (see Table 2)
Laura Deehan, Environment California Research and Policy Center and Azul	2023-33MP A	2023-33MP A_6	Natural Bridges SMR	Modify	Boundari es	Boundary change-expansio n	Expand southward by <del>13.7</del> <del>sq mi</del> <u>14.5 sq mi</u>	<u>Stakeholder</u> <u>feedbackMPA</u> <u>collaborative (see</u> <u>Table 2)</u>
Laura Deehan, Environment California Research and Policy Center and Azul	2023-33MP A	2023-33MP A_7	N/A	Establish	Establish new MPA	Establish new MPA	Designate 3.2 sq mi as a new SMR SMCA near Pleasure Point	Stakeholder feedbackrecreatio nal fishers (see Table 2)

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

TABLE 2 - Amendments to Petition to Modify the CA Marine Protected Area Network to Enhance Protections for California's Most Resilient Kelp Forests
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Name	Proposed action	Brief description	Proposed regulations and boundary change	Historical context	Notes/Justification			
Cabrillo State Marine Reserve (SMR)	Expand by 1 <del>5.2 sq.</del> miles- <u>~9.9</u> 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.	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-Peint to bring resilient kelp beds along the western shore of Point	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, surgrass 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 Guil 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	14.6 sq mi	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.	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.	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	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 boundary, <u>shift</u> . <u>eastern boundary</u> 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 ( <u>Arafeh-Dalmau et al. 2023</u> ).	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. <u>We would consider a</u> 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 <del>SMR-</del> <u>SMCA</u>	~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 <u>State Marine Conservation Area no take SMR to</u> protect this large kelp forest from all- <u>most</u> 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		

From: Mike Beanan < Sent: Friday, March 14, 2025 10:41 AM To: FGC <<u>FGC@fgc.ca.gov</u>> Cc: Ashcraft, Susan@FGC < Subject: Petition 2023-24-R

Hi,

Please add my comments for the record in evaluating Petition 2023-24-R.

Thank you,

Mike Beanan

Laguna Bluebelt Coalition

Laguna Bluebelt - Working Together for a Healthy Ocean

Laguna Bluebelt - Working Together for a Healthy Ocean

Working Together for a Healthy Ocean. Support our New Marine ReservesYour support is critical if they are to succeed.

www.lagunabluebelt.com

Mike Beanan, Co-founder, Laguna Beach Coalition

Thank you for including us in the process to evaluate and, hopefully, approve Petition 2023-24-R to protect all of Laguna Beach's Marine Life.

Based upon stakeholder input, we have submitted a Revised Petition offered as a compromise to support and ease near shore enforcement along one, common latitude line. The original petition followed Laguna Beach's City Limits extending southwesterly from the shoreline. This made the determination of the offshore boundary difficult according to participants at a recent stakeholder meeting hosted by the Orange County Marine Protected Area Collaborative in Dana Point. While there is some debate about who made the suggestion, which led to an unfortunate misunderstanding, the revised petition before you is a smaller SMCA No Take than originally requested but still protects kelp and essential fish habitats.

When evaluating the Petitions, I suggest we comply with and enhance the goals of the Marine Management Plan by increasing the coherence and effectiveness in protecting the state's marine life and habitats, marine ecosystems, and marine natural heritage with full citywide protection. Fortunately, Laguna's unique MPAs have dramatically improved recreational, educational and study opportunities provided by marine ecosystems through coordinated enforcement by Marine Safety Lifeguards, Park Rangers and community volunteers working together to minimize human disturbance. Petition 2023-4-R is consistent with all of the goals for the Marine Management Act and legislative intent of the Marine Life Protection Act of 1999. I am not unfamiliar with economic challenges. I grew up in a large working class family in Northern California surfing the cold, wild waves while diving for abalone with my brothers off of Gualala and Mendocino or fishing mountain lakes. Leaving high school and to avoid the draft, I joined the Navy, studied navigation and was assigned to SEAL Team One, as a Platoon Sergeant and sent to Vietnam. Turning 21, I got out, worked my way through college and earned a degree in Biology before being hired as Assistant Dean at UC Irvine to manage veteran programs. One of my first projects was a pioneering Handicapped Scuba Project for wheelchair veterans and others...now a worldwide opportunity for the physically challenged community to enjoy and explore underwater wonders.

I continue now to swim and free dive Laguna's remarkable MPAs while traveling and Scuba diving other MPAs. I encourage FGC staff and commissioners to visit and swim Laguna's MPA and see large Sheepshead and robust kelp forests free of sea urchin barrens.

As a Californian, I feel an opportunity and responsibility to protect and restore our natural heritage an abundant ocean teeming with sea life. Please consider approving the Laguna Bluebelt's Petition 2023-24-R as part of your legacy for California's sea life protection.



From: Jeanne Sparks < Sent: Thursday, March 13, 2025 07:08 PM To: FGC <FGC@fgc.ca.gov> Cc: Sandy Aylesworth < Subject: SUPPORT FOR PETITION 2023-28MPA

I am sending a letter from Santa Barbara County Action Network supporting the proposed Pt. Sal State Marine Reserve. Please distribute to the commission.

Thank you,

Jeanne Sparks

**Co-Executive Director** 

Santa Barbara County Action Network

www.sbcan.org





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P.O. Box 6174 Santa Maria, CA 93456 info@sbcan.org www.sbcan.org Facebook.com/SBCANorg 805.563.0463 March 14, 2025

Erika Zavaleta, President California Fish and Game Commission 715 P Street, 16th Floor Sacramento, CA 95814 fgc@fgc.ca.gov

# Re: Support for Petition 2023-28MPA

Dear President Zavaleta and Honorable Commissioners:

Santa Barbara County Action Network supports the proposed Point Sal State Marine Reserve (Petition 2023-28MPA) near the city of Guadalupe. Conserving this special area will help protect and restore ocean health, enhance coastal recreation experiences, and help ensure Santa Barbara County's coastal economy thrives for decades to come. SBCAN urges you to approve this proposal.

The Point Sal MPA would conserve an important habitat that supports rich biodiversity, such as kelp forests, rocky reefs, tidepools, sandy beaches, migratory whale corridors, an important larval retention zone, and a seabird and sea lion rookery. Protecting this area would have positive impacts that spread beyond its boundary, bolstering ocean resilience and keeping our coastal waters healthy. This area holds cultural significance for several Indigenous communities in our region. Designating this MPA would honor and strengthen the Chumash peoples' stewardship of the area and elevate their historical and present-day connection to the region.

In addition, this area holds special importance for ocean and coastal recreation communities. Point Sal is home to stunning coastal bluff trails that are frequented by local hikers and tourists to view wildlife, relax at the beach and enjoy the remote and pristine area. By making the ocean healthier and more resilient to climate change, strong marine protections help preserve everyone's ability to enjoy these areas through a variety of recreational activities, far into the future. This also benefits our economy – collectively, ocean-based recreational activities contribute to our state's \$28 billion ocean tourism and recreation economy. In 2023, coastal tourism brought just over \$2 billion in travel-related spending to Santa Barbara County and supported more than 20,000 jobs.

The Commission's continued work to protect our state's biodiversity is critical at a time when ocean conservation is more important than ever. Thank you for the opportunity to express our strong support for these proposals that aim to fill a current gap in network design to improve ecological connectivity throughout the region, provide additional resilience in the face of climate change, and protect critical marine habitats.

Sincerely,

Jean Sparks

Jeanne Sparks, Co-Executive Director

Ken Hough, Co-Executive Director



City of Guadalupe

Administration Department 918 Obispo Street P.O. Box 908 Guadalupe, CA 93434

Rec'd CALIFORNIA FISH AND GAME COMMISSION 4/3/2025

March 18, 2025

Erika Zavaleta, President California Fish and Game Commission 715 P Street, 16th Floor Sacramento, CA 95817

## Re: Letter of Support for Petition 2023-28-MPA

Dear President Zavaleta and Honorable Commissioners,

I am writing to express my support for Petition 2023-28-MPA, which would designate a new marine protected area (MPA) off the coast of Point Sal. As a lifelong resident and current mayor of Guadalupe, the closest city to Point Sal, I believe this new MPA will benefit our community and safeguard a cherished natural space for the residents of Guadalupe and visitors to our area.

I have been coming to Point Sal since I was a young boy. Like many other community residents within the Santa Maria Valley, the Point Sal area and the waters identified in the proposed Point Sal Area, believe that this protection is necessary to protect and enhance the waters residents have enjoyed for decades. This designation will protect the Point Sal MPA for generations to come. Located at the convergence of two major ocean currents, the highly productive waters around Point Sal are home to kelp beds, rich tidepools, and a diversity of marine life including humpback whales, gray whales, sea lions, seals, sea otters, seabirds, and more. Many residents of Guadalupe frequent the trails to Point Sal overlooking the coast to view wildlife, relax at the beach, and enjoy the remote and pristine area. When it was accessible, many in our community would visit Point Sal State Beach to spend time with family and enjoy the shore. This area is important to my community, my neighbors, and my constituents. Ensuring that we protect it for future generations aligns deeply with the City of Guadalupe's values.

The Central Coast's world-famous coastline is a biodiversity hotspot for marine life and attracts visitors from around the world. In 2023, tourism brought just over \$2 billion (about \$6.2 per person in the US) in travel-related spending to Santa Barbara County and supported more than 20,000 jobs. Continuing to build and strengthen our tradition of ecotourism is a priority of the City of Guadalupe. Our local economy believes that this MPA designation will enhance tourism for our area in collaboration with the Guadalupe Dunes Non-Profit, the Guadalupe Business

Association, Inc., as well as the Santa Maria Valley Chamber of Commerce. Acting to secure ocean protections now will help our local economy stay vibrant in the long run – ultimately supporting the many local businesses and tourism operations that rely on healthy landscapes and seascapes.

Further, the City of Guadalupe acknowledges and supports the importance of Chumash people's historic and contemporary connection to this place. Historically, Point Sal holds cultural significance for the Chumash people, with evidence of habitation as far back as 4,800 years ago. Chumash artifacts are visible throughout Point Sal, and analyses of burial sites from the area demonstrate the rich cultural ties to the traditional stewards of this land. The city was proud to support the recent designation of the Chumash Heritage Marine National Sanctuary, and we are pleased to support this proposal that honors and protects culturally significant waters for the Chumash people.

We commend the continued work of the Commission to advance the conservation of our state's valuable and unique marine resources. Designating a protected area at Point Sal will further bolster the strength of California's MPA network, support local communities and businesses, and safeguard our coastal ecosystems for future generations. Thank you for your consideration of this petition, and the opportunity to submit recommendations for the adaptive management of California's MPA network as part of the Decadal Management Review process.

Since

Ariston D. Julian, Mayor City of Guadalupe

From: Sent: Sunday, March 16, 2025 01:43 PM To: FGC <<u>FGC@fgc.ca.gov</u>> Subject: 2023-29MPA Mishopshno State Marine Conservation Area

ATTN: Fish & Game Commission

My name is William Ray, from Carpinteria, CA. I'm writing to you today with comments about 2023-29MPA: Mishopshno State Marine Conservation Area.

I am writing to express my strong opposition to the proposed Marine Protected Area (MPA) designation for Carpinteria Reef. As a graduate student at UCSB specializing in benthic ecosystem research, I dive at Carpinteria Reef approximately 100 times per year and have firsthand knowledge of its ecological health and the role it plays in the local community. The arguments presented in favor of this MPA lack scientific justification and fail to consider the significant negative impacts it would have on the residents who rely on this area for subsistence fishing, research, and recreation.

Lack of Scientific Justification for MPA Designation

Proponents of the MPA claim that it will provide protection for juvenile white sharks. However, white sharks are already illegal to fish in California, making additional protections redundant. There is no evidence to suggest that an MPA would enhance their conservation beyond existing regulations.

Additionally, arguments citing "spillover effects" for commercially and recreationally important species such as lobster and rockfish are scientifically flawed in this context. Spillover effects occur when protected populations expand into adjacent fishable areas, but Carpinteria Reef is one of the only accessible reef structures in this section of coastline. With no significant adjacent reef habitats, the premise that an MPA here would enhance fisheries through larval dispersal or adult migration is unsupported. Furthermore, local hydrodynamics at Carpinteria Reef differ from other regional sites; currents here are primarily tide-driven rather than advection-based, making claims of larval transport benefits highly questionable.

Disproportionate Impact on Underrepresented Communities

Carpinteria is a diverse community, home to one of the largest and most densely populated

Hispanic populations in the Tri-County area. Many low-income families depend on this reef as a vital source of fresh, sustainable protein, particularly given the high cost of living. Restricting access to this resource would disproportionately impact these underrepresented communities while providing no demonstrated ecological benefit.

Additionally, while the proposal emphasizes increasing access for Native American communities, it does not explain how restricting public access achieves this goal. True inclusivity should focus on increasing opportunities for all local communities, not implementing exclusionary policies.

Sincerely,

William Ray

From: Kyle Murphy < Sent: Sunday, March 16, 2025 07:44 PM To: FGC < FGC@fgc.ca.gov > Subject: 2023-29MPA: Mishopshno State Marine Conservation Area

ATTN: Fish & Game Commission

My name is Kyle Murphy, from Carpinteria, CA. I'm writing to you today with comments about 2023-29MPA: Mishopshno State Marine Conservation Area.

It is upsetting to hear about the proposed area between Carpinteria and Summerland becoming a Marine Conservation Area. This beautiful coastline with accessible reef structures close to shore offers the closest experience one can take part of in relation to the Channel Islands. If you don't own a boat like myself, Carpinteria reef specifically, is the closest experience of spearfishing/diving one can take part of with its offered kelp forest, rocky reef substrate, and diverse marine ecosystem. Carpinteria reef is an important resource to myself and my community. It allows for one to be in touch with nature in which one can forage their own food under the proper restrictions and guidelines implemented by Fish and Game. I take pride in myself and others who go out of their way to forage for food locally versus buying fish/invertebrates from the store, not knowing where they came from, not knowing if they were fished sustainably, and not knowing if they where marinated in chemicals/preservatives to extend their shelf life. Myself and others treat our next meals with the upmost respect.

Unfortunately, there are no other nearby reefs on this whole coastline that are accessible with the "spill over" benefits of this MPA. In terms of the juvenile white sharks needing protection, these marine vertebrates are already illegal to fish, so they don't need more protecting. I'm definitely for support of Tribal co-management of this area, however, increasing the access for one community doesn't have to be by excluding all the other users.

I hope you take my comments of this matter into consideration for not making this area into an Marine Conservation Area. From: Branislav Radibratovic < Section 2010 PM 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: California Surf Fishing < Sent: Saturday, March 1, 2025 07:18 AM To: FGC <FGC@fgc.ca.gov> Subject: Sign-On Letter for the Mishopshno SMCA

Greetings! This is Kaspar Kazazian from <u>www.californiasurffishing.net</u>. After engaging with communities through the following outreach methods, we express support for the Mishopshno SMCA.

1. We worked with all of the Mishopshno petition co-sponsors as well as Fish On Conservation to build a consensus.

2. We had conversations with 6 experienced shore fishermen who frequently fish the Carpinteria area and are familiar with the different fishing areas. These were trusted individuals, many that we already knew as local fishermen and have fished with numerous times. Coupled with our knowledge of fishing the area over the years, we obtained a complete picture of what fishermen fish for in each of the beaches in the SMCA. We aim to respect all types of low impact fishing in this SMCA: Subsistence fishermen (croakers and perch at Carpinteria Beach and Santa Claus Beach), halibut fishermen (in the mixed sand and reef of Padaro / Loon Point, mostly catch and release), inlet fishermen (by Sand Point, for stripers, etc), Kayak fishermen (at the nearby offshore Carp Reef).

3. Through our social media page, we obtained ~1,000 signatures for fishermen's support of shore fishing in SMCA's, such as the Mishopshno SMCA: <a href="https://www.change.org/p/allow-shore-fishing-in-smca-s">https://www.change.org/p/allow-shore-fishing-in-smca-s</a>

4. We support the petition to create the Mishopshno SMCA for the following reasons:
-Meet original scientific MPA connectivity guidelines by filling the gap that currently exists.
We believe that filling this MPA connectivity gap will increase fish populations, benefitting both fishermen and the fish.

-Of all types of ocean fishing, recreational shore fishing and kayak fishing offer the lowest cost, the easiest access, and the least environmental impact to fish / kelp forests. From an equity perspective, shore fishing can be enjoyed by a diverse range of communities who are within driving distance to the coastline.

We believe that allowing recreational shore fishing and kayak fishing in SMCA's is in alignment with the state's Marine Life Protection Act (Goal #3 for recreation) and MPA Decadal Management Review (Recommendation #7 & #9 for equity & accessibility). -The creation of this highly protected SMCA (in alignment with low impact fishing gear criteria per the MPA Guide User Manual) will strengthen the state's MPA network, per state goals, including 30x30.

Sincerely,

Kaspar Kazazian

California Surf Fishing

www.californiasurffishing.net

Hello all,

See attached comment letter requesting and supporting previous comments that petition be evaluated under the MPA Master Plan(s), most notably the guiding regional objectives under the MLPA goals from the Master Plans.

Letter additionally breaks down the Master Plan's objectives in the scope of Petition2023-15MPA specifically, highlighting why petition should be considered. This is all referencing the most recent revised version of the petition submitted in January.

Thank you,

Blake Hermann

Petitioner - Petition2023-15MPA

## Guiding the Petition process through the MPA Master Plan's Regional Objectives under the MLPA Goals, and Petition2023-15MPA's support under said Goals and Objectives

To the FGC and MRC,

The adaptive management process of the MPA network through the petition process has been an all encompassing process stretching nearly two years and has consisted of many meetings with stakeholders from a multitude of backgrounds across the State.

Currently, several stakeholders have differing views on and are determining under what venues to discuss bin 2 petitions. Personally, I do not mind MRC or full commission discussions, but do see benefits to possibly holding discussions at both. This way we could benefit from the more casual open floor of the MRC and still keep all commissioners involved and informed on these petitions to gain the best final actions on these petitions from the full commission.

That being said, one commonality throughout this process from all groups has been the calling for the analysis process to be explicitly guided by the existing MPA Master Plan's (MMP) adaptive management process. This calling has come from all sides, from recreational and commercial fishing organizations such as AllWaters, CFSB, CCA, and the American Sportfishing Anglers (ASA), to environmental NGOs like Azul, Environment California, Environmental Defence Center, the NRDC, and WILDCOAST. The ladder eNGOs were among 17 groups who jointly signed and sent a letter to the FGC explicitly stating to guide the process through the MMP and its objectives in January.

The MMPs are a framework that guides the adaptive management process of the MPAs as that was part of their original intention. The process guided by the MMP lays out a clear analysis path through lists of "objectives" that fall under the six broader goals of the MLPA. These objectives under the six MLPA goals are what the MMP uses to determine if an MLPA goal is met, as the objectives are, "more specific and measurable than the broader MLPA goals," according to the MMP. In order to best determine if an MLPA goal is met, we look at these objectives stated under the regional MMP and determine if the objective is satisfied using the best available science/data. This process is laid out in Chapter 4.5 of the 2016 MMP, and the measurable objectives under each MLPA goal can be found in the regional appendices (C-F) in the suitably named "Regional Goals and Objectives" sections of the MMP.

I would not only like to echo all comments from both sides of the aisle to guide the process through the MMP(s) and their objectives, but to also bring up that Petition2023-15MPA is one of, if not, <u>the only petition</u> with explicitly stated support in the MMP objectives (see Goal 2 Objective 4 (2.4) below). This stated support of Petition2023-15MPA is laid out by not only the more-modern 2016 MMP, but even the original MMP from 2008, showing a historic, scientifically based rationale for Petition2023-15MPA, that came <u>after</u> the designation of the Northern Channel Islands Network. This shows our obligation to update this pre-MMP island network to modern standards we see in our coastal network that better follows these underlining MMP objectives.

The remaining sections of this document will go through all of the six goals of the MLPA (bold), the guiding MMP regional objectives under each MLPA goal (numbers), and provide a breakdown response of the specific objective through the scope of Petition2023-15MPA (letters). For context, Petition2023-15MPA is requesting 3 SMRs at the Northern Channel Islands be modified to SMCAs to allow for the limited take of Highly Migratory Species (HMS) or pelagic finfish, listing a variety of different allowable gear options, 6 in total not including additional possible nearshore/offshore MPA configurations. The core rationale of the petition is, we know the benefits of MPAs on HMS/pelagic species are very low compared to the high burden certain local MPA networks, in this case the Channel Islands, place on HMS/pelagic fisheries, and that we see pelagic allowances everywhere else but not in the older Channel Islands network where pelagic allowed areas should arguably be the most prevalent.

**MLPA Goal 1**. To protect the natural diversity and abundance of marine life, and the structure, function, and integrity of marine ecosystems.

- 1. Protect and maintain species diversity and abundance consistent with natural fluctuations, including areas of high native species diversity and representative habitats.
  - a. The three MPAs in the petition and their locations are not intrinsically unique to HMS/pelagic finfish due to their highly migratory nature. The migratory nature of these species and the vast area of water they cover shows clear evidence that any take of HMS or pelagic finfish within these MPAs will not significantly affect HMS or pelagic finfish abundance any more than what existing fishery pressure already exerts on these species outside of the MPAs. Additionally, pelagic and HMS fisheries are all offshore, open-water fisheries, and are non-bottom contact. This means any effect on representative habitats containing a diverse spread of species on bottom reefs or nearshore kelp forests will be minimal due to

fishing simply not occurring there, still protecting those species that benefit from MPAs the most.

We already see this in use outside of the Channel Islands Network in the more-modern coastal network that came under the state driven MLPA implementation process. Nearly 40% of the coastal network allows for some form of limited, mostly pelagic, take and still protects those species and habitats that benefit from the protection, the pre-MMP/MLPA Channel Islands only has 3.5%.

- 2. Protect areas with diverse habitat types in close proximity to each other.
  - a. As the petition prefers only HMS take being allowed, the alternative being a pelagic finfish allowance, the only habitat type affected by this change will be open water. Pelagics and HMS are open water targeted species, one rarely sees billfish or tunas targeted even remotely nearshore let alone in a kelp forest or shallow reef. The unique habitats inside the three MPAs such as kelp forests or rocky reefs will see little to no change in relative level of protection. Even the bottom areas of the three MPAs, which consists of mostly empty mud flats thousands of feet deep, will see no meaningful change in its protection as nearly all HMS or pelagic effort is done at or near the surface or in the mid-water, rarely deeper than 100ft. If needed, the petition also includes options further restricting bottom contact gears outright, but again HMS and pelagic effort mostly avoids the bottom in general.
- 3. Protect natural size and age structure and genetic diversity of populations in representative habitats.
  - a. The species that live inside these MPAs year-round that gain the most from them are nearshore species living in the shallow-nearshore sections of the MPAs, or are groundfish frequenting the bottom habitat nearshore and offshore on rocky reefs. This fact is stated in the 2008 MMP appendix G which describes what species benefit the most from MPAs and why. As these non-pelagic, local species are predominantly found in these nearshore habitats, and not in open water where HMS and pelagics are found, all of these local, non-pelagic species can expect their populations and genetic diversities to be unaffected by this change. HMS or pelagic species would of course experience some form of take; however, as previously mentioned, levels of take within these areas would not be any different from the surrounding open area and would not be in levels affecting their population structures within the MPA.

- 4. Protect biodiversity, natural trophic structure, and food webs in representative habitats.
  - a. The amount of HMS or pelagic finfish in these areas is not expected to be significantly higher than the surrounding open area due to their migratory nature. Because of this, the overall trophic structure and food webs of the area will not be significantly affected as any interactions with these HMS or pelagic species will still be present as they move in and out of the area on the currents. The existing protections on local, non-pelagics will remain, leaving the remaining levels of the web unchanged.
    While some argue pelagic fisheries can just work around the closures, around the Channel Islands because of the higher closure rates, the federal offshore expansions, naval closures, and weather restrictions around the islands make pelagic fisheries are significantly more constricted. Allowing limited pelagic access inside these MPAs will benefit the fisheries not because they contain more pelagic or HMS, but because the added total available area is locally significant.
- 5. Promote recovery of natural communities from disturbances, both natural and human induced, including water quality.
  - a. HMS and pelagic finfish are well managed groups of fish that are in no need of recovery. In fact, the HMS fishery is one state and federal managers are actively trying to grow due to domestic lack of participation. The water quality protections within the three Channel Islands MPAs in the petition will of course still remain even if the petition is accepted in-part or fully. Additionally the Channel Islands National Marine Sanctuary water quality regulations in the entire area in and out of the MPAs will remain in effect.

**MLPA Goal 2**. To help sustain, conserve, and protect marine life populations, including those of economic value, and rebuild those that are depleted.

- 1. Help protect or rebuild populations of rare, threatened, endangered, depressed, depleted, or overfished species, and the habitats and ecosystem functions upon which they rely.
  - a. As mentioned under Gaol 1.5a, none of the HMS or pelagic finfish species that would be targeted in these three MPAs are rare, threatened, endangered, depressed, depleted, or overfished. The open water habitats they live inside will still have existing protections on the habitat. Currently, an overwhelming percentage of HMS consumed in this State are longline imports versus our cleaner hook-and-line fleets. Local swordfish and tuna

fishermen locally pick from the same stocks international longline fleets do, taking only a fraction of the stock and offering a superior grade of seafood both commercially and recreationally for personal consumption. Allowing access to these areas offers a way to meaningfully impact local fleets around the Channel Islands by providing them more water to cover while also not significantly impacting the HMS or pelagic stocks which are currently significantly more affected by international fisheries.

- 2. Sustain or increase reproduction by species likely to benefit from MPAs, with emphasis on those species identified as more likely to benefit from MPAs, and promote retention of large, mature individuals.
  - a. Appendix G of the 2008 MMP breaks down, on a species level, fish that benefit from MPAs the most and fish that benefit the least. The MMP states that, species benefiting from MPAs the most are local, non-pelagic species:

"MPAs are likely to have their greatest direct benefits on residential species. In general, MPAs offer direct protection to less mobile or sedentary species that locally aggregate in specific habitats (e.g., many of the rockfish species)." -Appendix G of the 2008 MMP

These local, non-pelagic species would still be protected even if this petition was accepted, still allowing for these species to benefit the most from the MPAs, and retain populations of large, mature individuals. The 2008 MMP additionally states that HMS and pelagic finfish are species that receive less if any benefits from MPAs due to sheer amount of water they cover:

"Species with a strong tendency to move will not benefit significantly from the establishment of MPAs [...] Direct benefits of MPAs are expected to be much reduced for highly migratory species (e.g., swordfish, tunas, some sharks) that likely spend relatively little time inside local coastal MPAs. Protection of these mobile species and their contributions to local marine ecosystems may best be addressed by larger-scale regulatory measures." -Appendix G of the 2008 MMP

With the above guiding information, there is no scientifically supporting rationale to leave the three MPAs in Petition2023-15MPA completely closed to pelagics or HMS. Rather, due to the area traveled by HMS or pelagic finfish, best protective practices are seasonal restrictions, and

size/length requirements, something we already use Stateside with pelagic finfish and federally with HMS. The primary driver this petition only applies to three MPAs and not others was, unlike other no-take areas, pelagic or HMS can more than reasonably be targeted whilst meeting our protection goals in these three MPAs specifically (see Goal 2.4a below). For example, there is no reason to request pelagic or HMS access in MPAs simply too far offshore due to lack of total effort or areas too nearshore that would reasonably never offer significant amounts of pelagic or HMS opportunities because they are too shallow.

- 3. Sustain or increase reproduction by species likely to benefit from MPAs with emphasis on those species identified as more likely to benefit from MPAs through protection of breeding, spawning, foraging, rearing or nursery areas or other areas where species congregate.
  - a. As mentioned above in Goal 2.2a those species "likely to benefit from MPAs," non-pelagics/groundfish, will continue to be protected including their breeding, spawning, foraging, rearing and nursery areas, including other areas where species congregate, kelp forests/rocky reefs. These respective habitats will also see little to no effect as pelagic or HMS fishing efforts rarely overlap nearshore areas, shallow, or deep water reefs. These protections still being in effect will allow individuals to grow and mature, increasing local reproduction of the species.
- 4. Protect selected species and the habitats on which they depend, while allowing some commercial and/or recreational harvest of migratory, highly mobile, or other species; and other activities.
  - a. This MMP objective displays the central ideas of Petition2023-15MPA, clearly stating areas like those requested in the petition be provided. The Channel Islands MPAs (which contain the three MPAs in the petition) are the oldest in the modern network and expand the furthest offshore, yet they provide the least amount of pelagic allowance in the State. The original intentions for these MPAs was protecting local, non-pelagic species, namely groundfish. The Footprint Reserve is a glowing example of this, disconnected from any mainland or island and over a deepwater reef that once was a groundfish fishing area. The MPA went in to specifically rebuild overfished groundfish populations, yet it provides no pelagic allowance. In fact, the Footprint is the <u>only</u> MPA in the State that is disconnected from land that does not have any type of limited pelagic allowance.

Broadly speaking, the Channel Islands network exceeds the State Network in terms of percent area in MPAs, 21% of island waters are protected compared to the State as a whole which has 16% of its waters protected. The Channel Islands are also the only network of MPAs in the State that extend 6 nautical miles offshore, twice the normal 3 nm distance offshore we see. This offshore expansion interferes more with HMS/pelagic fisheries compared to the other State MPAs that are more nearshore.

One would assume that with the higher percent of protection locally and twice the offshore interference that reasonable amounts of pelagic or HMS access would be given, yet the Channel Islands network offers the least pelagic access in the entire MPA network. Where 40% of the State MPAs have some form of pelagic allowance the Channel Islands network only provides 3.5%. While these protections were justifiable over 20 years ago when MPAs were newer, the coastal network didn't exist, the MMPs didn't exist, and less was known about MPAs and pelagic species; the two more-modern MMPs and this objective specifically are glowing examples of why we must adaptively manage the network and provide reasonable amounts of pelagic access where it is realistic as touched on above in Goal 2.2a.

**MLPA Goal 3**. To improve recreational, educational, and study opportunities provided by marine ecosystems that are subject to minimal human disturbances, and to manage these uses in a manner consistent with protecting biodiversity.

- 1. Sustain or enhance cultural, recreational, and educational experiences and uses (for example, by improving catch rates, maintaining high scenic value, lowering congestion, increasing size or abundance of species, and protecting submerged sites).
  - a. The allowance of this petition would certainly provide decongestion of HMS or pelagic fishing areas, especially around Santa Cruz Island during Naval Activity days when most areas beyond 3nm of the island are closed and pelagic opportunity is extremely limited. Catch rates would increase relatively proportional to the included area as the MPAs do not hold significantly more or less HMS or pelagic finfish than the already open waters do. Scenic value of land based and submerged sites would not change, as HMS or pelagic fishing activity has little to no bottom contact interference and is done offshore away from the more biodiverse nearshore areas. Lastly, as mentioned, the size and abundance of local species will not change as they will still be protected, even the size and

abundance of HMS or pelagics should not vary beyond normal fluctuations due to the species covering so much area.

- 2. Provide opportunities for scientifically valid studies, including studies on MPA effectiveness and other research that benefits from areas with minimal or restricted human disturbance.
  - a. Within the three MPAs the petition looks at there are currently no scientific studies occurring in the midwater where limited take will be present. Occasional bottom surveys of deep water reefs occur inside and outside of these MPAs and the broader Channel Islands; however, a pelagic allowance will not affect these ROV trips or the adundence/diversities of species researchers observe on said trips (we already interact with them when they are outside of the MPAs).
- 3. Provide opportunities for collaborative scientific monitoring and research projects that evaluate MPAs that promote adaptive management and link with fisheries management, seabird and mammals information needs, classroom science curricula, cooperative fisheries research and volunteer efforts, and identifies participants.
  - a. If granted, this petition does open some doors for scientific monitoring of an area previously closed to everything being opened to HMS or pelagic finfish. This information could be used as part of future adaptive management cycles of the network. While ties between MPAs and fishery management still do exist, these ties have decreased in the pelagic arena for smaller MPAs and nearshore MPA networks, which is what we currently have. The key reason for this is in order for an MPA to have impact on HMS it would have to cover significant amounts of offshore ocean over multiple jurisdictions and international waters, not the nearshore waters most of our network covers. Enforcement alone of an area of that size is simply unreasonable which is why HMS fisheries are managed under size, quantity, and quota limits, not MPAs.

**MLPA Goal 4.** To protect marine natural heritage, including protection of representative and unique marine life habitats in South Coast California waters, for their intrinsic value.

- 1. Include within MPAs key and unique habitats identified by the SAT for this region.
  - a. The SAT identified several key and unique habitats to be included in the Southern California section. All of these habitats concern unique bottom structures or substrates and nearshore features like kelp forests. The primary habitat HMS fishing will occur is away from these habitats in open

water. Any of these unique habitats will still remain protected as HMS or pelagic effort never occurs there enough.

- 2. Include and replicate, to the extent possible [practicable], representatives of all marine habitats identified in the MLPA or the California Marine Life Protection Act Master Plan for Marine Protected Areas across a range of depths.
  - a. This object mirrors the previous Goal 4.1 and requests protections exist across the listed unique habitats in a variety of depth ranges. The three MPAs in Petition2023-15MPA will still have the same protections on the habitat and local, non-pelagic species that live in said habitat.

**MLPA Goal 5.** To ensure that South Coast California's MPAs have clearly defined objectives, effective management measures, and adequate enforcement, and are based on sound scientific guidelines.

- 1. Minimize negative socioeconomic impacts and optimize positive socioeconomic impacts for all users including coastal dependent entities, communities, and interests, to the extent possible, and if consistent with the MLPA and its goals and guidelines.
  - a. Opening these areas, to the requested levels of HMS or pelagic take the petition requests, would minimize the negative socioeconomic impacts these areas currently have while they are no-take. While total take of HMS will not increase by magnitudes, allowance of HMS take inside of the three MPAs will offer alternatives to fishermen on poor weather days due to the MPAs covering most of the consistently calm waters around the Channel Islands. This will not only help to increase local and cleaner commercial fisheries, but also offer benefits to recreational pelagic fisheries, especially catch-and-release marlin fisheries. All of this could be accomplished whilst still meeting the objectives of the MMP and protecting the species that these MPAs are meant for.
- Provide opportunities for interested parties to help develop objectives, a long-term monitoring plan that includes standardized biological and socioeconomic monitoring protocols, a long-term education and outreach plan, and a strategy for MPA evaluation.
  - a. This objective is somewhat out of the scope of Petition2023-15MPA in this analysis; however, any possible long term monitoring of the MPAs after a change like this is encouraged to validate the claims made in this petition, and that what we see as an effect of making this change is what we expect.

- 3. Effectively use scientific guidelines in the California Marine Life Protection Act Master Plan for Marine Protected Areas.
  - a. I urge the department and commission to follow these guidelines and MMP objectives for this petition process, as their is their entire purpose, and to understand that Petition2023-15MPA does in fact have explicit support from the MMP and by extension the MLPA. This analysis is meant to show that Petition2023-15MPA is adhering to most, if not all, of these scientific guidelines/objectives.
- 4. Ensure public understanding of, compliance with, and stakeholder support for MPA boundaries and regulations.
  - a. While any limited-take area offers more complexity than a completely open or closed area, similar existing MPAs in the State that allow for pelagic take show the public can understand and follow regulations allowing take of a set list of species, pelagic finfish or HMS. Outside of MPAs, groundfish exclusion areas (GEAs), established federally, also mirror this petition by restricting only non-pelagic species take (groundfish take) but still allowing for all pelagic take displaying public understanding and enforcement feasibility.

It goes without saying that among those that frequent the Channel Islands offshore areas for pelagic species, a petition like this has complete public support. I have been on the water around these islands for 25 years, and was a part of the first generation of anglers to grow up with these MPAs in effect. Throughout these years the call to allow pelagic access in these areas has existed throughout the local community, and without this call, this massive community driven consensus, this petition would have never existed.

There are some who oppose this petition, there always will be; however, one thing I have yet to receive is a scientifically based reason for these areas to remain closed to HMS or pelagic species, all rational has been emotional. While there are research studies that show massive MPAs, those that rival the size of this State in area, may offer some benefits to pelagics, our Network simply does not and cannot accommodate that type of scale. In fact, a denied petition in 2020 by this Commission explicitly stated that on the record, when a petition requested an MPA be made for an HMS (white sharks) this commission's reply was to deny it because, "MPAs are intended to protect ecosystems, not individual species, especially highly mobile, pelagic species." This precedent has been set multiple times, there is no reason to not apply it to a set of MPAs that were made before it all, this is a textbook example of adaptive management.

- Include simple, clear, and focused site-specific objectives/rationales for each MPA and ensure that site-level rationales for each MPA are linked to one or more regional objectives.
  - a. The founding reasons for these MPAs at the Channel Islands in 2002 was the idea to protect our local, non-pelagic species, mainly groundfish at the time. These ideas are still reiterated today in the MPA summaries of all three of these MPAs, the focus on non-pelagic local species, birds, and mammals is clear. While the existing protections certainly can continue to accomplish that objective, Petition2023-15MPA offers a way we can both meet those same goals, and allow for some reasonable forms of take for pelagic species as we see elsewhere in the more modern MPA network. The rationales laid out in this document are evidence that under Petition2023-15MPA's changes we can still meet the same regional objectives we currently meet, plus those revolving around reasonable levels of pelagic take. These additional met objectives, and lower economic impacts make this petition one that arguably helps strengthen the overall network, not weaken it.

**MLPA Goal 6.** To ensure that the South Coast's MPAs are designed and managed, to the extent possible, as a component of a statewide network.

- 1. Provide opportunities to promote a process that informs adaptive management and includes stakeholder involvement for regional review and evaluation of management effectiveness to determine if regional MPAs are an effective component of a statewide network.
  - a. We are currently in this adaptive management process as a result of the DMR which includes stakeholder involvement at Commission and MRC meetings discussing this and other MPA adaptive management petitions. While I wish official meetings could be held regionally for petitions I understand that is not doable for this specific process. That being said, unofficial meetings where locals attended (clubs, organizations, MPA Collaboratives) feedback on this petition was overwhelmingly positive.
- Provide opportunities to coordinate with future MLPA regional stakeholder groups in other regions to ensure that the statewide MPA network meets the goals of the MLPA.

- a. This is already being done at the full commission and MRC levels where stakeholders across the State voice thoughts on regional MPA petitions. Stakeholder support for a petition like this is what one would generally expect, local fisheries/community support, statewide support from fisheries groups/organizations, and statewide lack of support from environmental organizations. It should again be mentioned that supporting reasons for petition2023-15MPA and how it is supported by both the objective and goals of the MMP and MLPA respectively, is the purpose of this document.
- 3. Ensure ecological connectivity within and between regional components of the statewide network.
  - a. The Channel Islands network is unique in that it is partially isolated brom the Coastal MPA network. That being said, connectivity will still be occurring under an accepted petition in part or full as existing protections on species that actually benefit from these MPAs and their habitats will still remain protected. This will keep local species connectivity as strong as it has been under the current network. Pelagic species will still have local MPAs that are no-take at all four islands, in the border network, and far offshore (but still inside the EEZ) where little or no pressure exists on them.
- 4. Provide for protection and connectivity of habitat for those species that utilize different habitats over their lifetime.
  - a. As mentioned in several of the above objectives, those species that utilize different habitats over their lifetime are primarily local, non-pelagic species. These species will remain completely protected. Pelagic and especially HMS are species that are in the open water, pelagic region their entire lives, from egg to maturity. All of the species proposed for limited take in Petition2023-15MPA have very limited, if any, interactions or movements between different habitats explicitly due to their life cycles.

The above analysis of the MPA Master Plan's objective based analysis process for adaptive management changes to the MPA network clearly shows that Petition2023-15MPA is supported by the MMP and the MLPA. Not only are there guiding objectives of the 2016 and 2008 MMPs that outright say we must provide areas for pelagic take and that pelagic species are less affected by MPAs, but here we have the Channel Islands network of MPAs that came into effect prior to any MMP providing almost no limited pelagic areas, nothing comparable to what we see in the more-modern coastal network that was guided by the MMP. This is a glowing example of the need for adaptive management in lieu of guiding management documents, CDFW and FGC statements on previous petitions, and actual MPA implementations from the coastal MLPA that are based on our more-modern data and scientifically based evidence and outlook on MPAs. If I could only say one thing about this petition it would be: we can have pelagic allowed areas and our local protections without weakening the network just like we already have everywhere else. Please consider granting this petition.

Thank you, Blake Hermann Petitioner - Petition2023-15MPA