

## Evaluation of Bycatch in the California Halibut Fishery

14 March 2023

Presented to:

**Marine Resources Committee** 

Presented by:

**Kirsten Ramey Environmental Program Manager Marine Region** 



### Outline

- Background
- Bycatch Criteria
- Priority Species
- Outreach
- Methods
- Preliminary Results
- Conclusions
- Next Steps





### Background

Assessing and Addressing Bycatch per the Marine Life Management Act (Act)

- Step 1: collection of data DONE
- Step 2: Distinguish target DONE
- Step 3: Determining acceptability in progress
- Step 4: Address unacceptable bycatch



### Bycatch Criteria

- Determining "acceptable" types and amounts of bycatch (Fish and Game Code §7085(b))
  - Legality of take
  - Threat to sustainability
  - Impacts on fisheries
  - Ecosystem impacts





### **Priority Species**

- Pacific angel shark
- Brown Smoothhound
- California skate
- Bat ray
- Rock crab
- Barred sand bass
- California sea lion

- Brandt's cormorant
- Giant sea bass
- Great white shark
- Sublegal California halibut
- Humpback whale



### Outreach

- Email to over 500 stakeholders
- Focused notification and survey to gill net fleet (20 permittees)
- Direct conversations
   with key representatives
   (9 permittees)

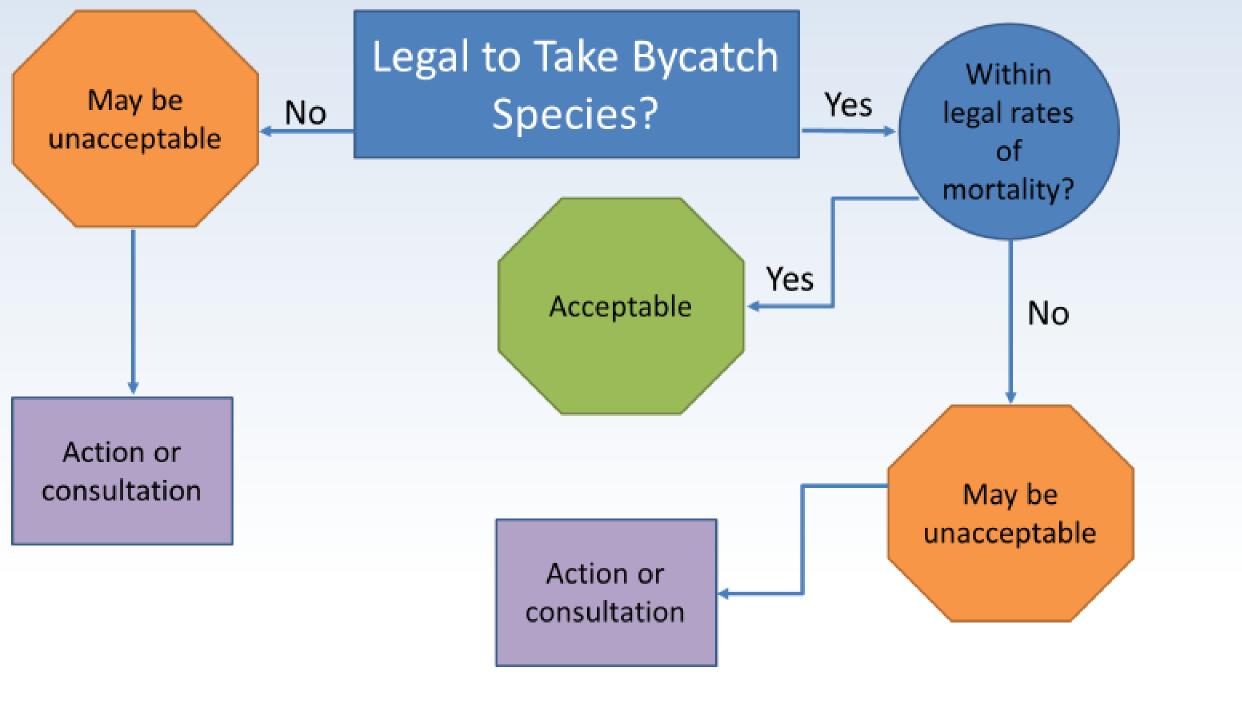




## Legality of Take of the Bycatch Species

- Covered under existing law?
- Prohibitions against take?
- Restrictions that require discard?
- Known discard mortality rate?
- Permit requirements to retain?
- Incidental take allowance?

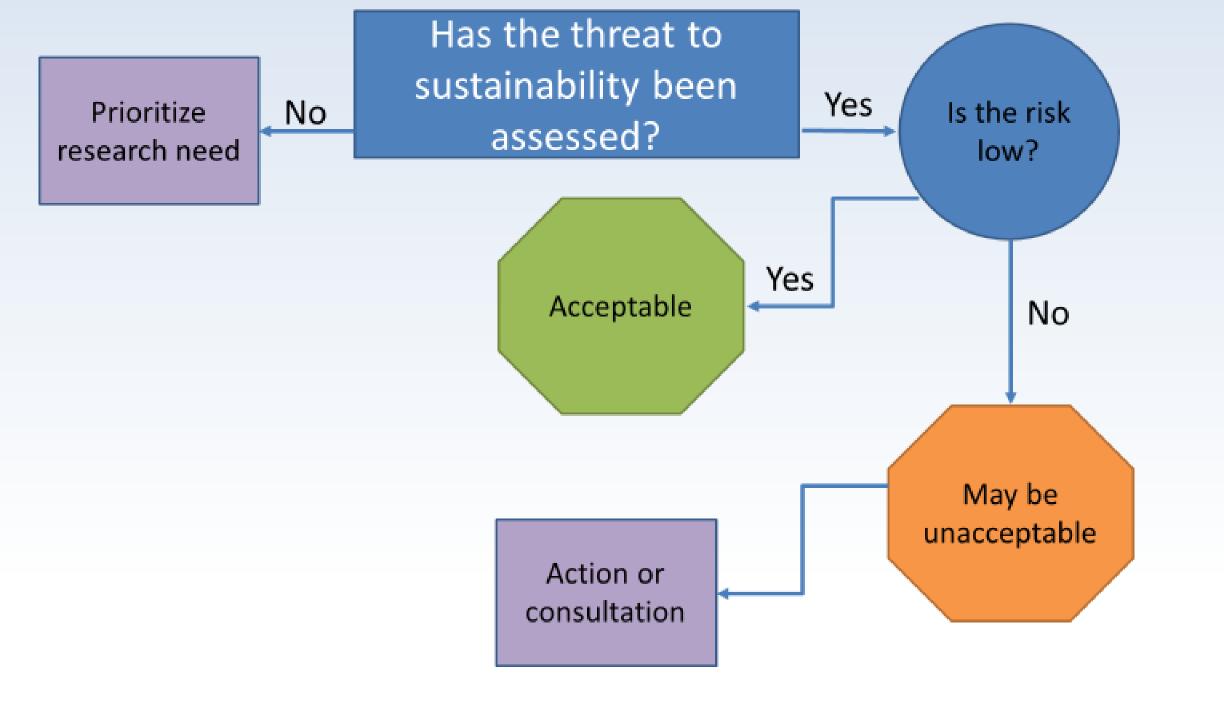






### Threat to Sustainability of the Bycatch Species

- Risk assessment?
- Status estimate or stock assessment?
- Effective state or federal management measures?
- Product of recreational catch and release?
- Estimated discard mortality?
- Post-release mortality studies?
- Probability of mortality exceedance?



## CALIFORNIA DEPARTMENT OF FISH & WILDLIFE

### Impacts on Fisheries that Target the Bycatch Species

- A directed fishery?
- If yes, has bycatch and mortality been accounted?
- Is the management strategy affected?
- Impacts considered in an FMP or ESR?
- A federal rebuilding plan?
- Prohibition on retention or management allowance?
- Impacts to directed fishery?

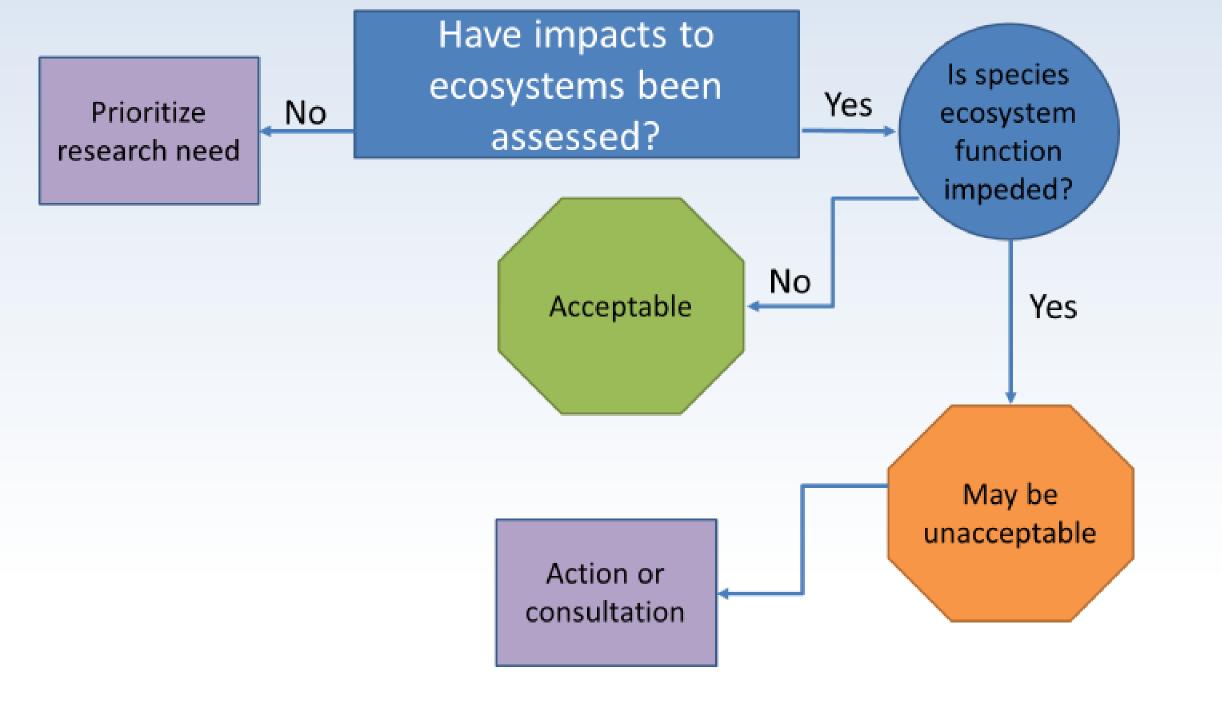
Have impacts to Are there Yes fisheries been assessed? No Prioritize impacts to research need fisheries? No Acceptable Yes May be unacceptable Action or consultation



### **Ecosystem Impacts**

- Ecosystem role of the bycatch species?
- Increased risk from bycatch mortality?







Brandt's cormorant

Sublegal CA halibut

California sea lion

Humphack whale

## Preliminary Results

Species	Legality of Commercial Possession	Risk to Sustainability	Risk of Impacts on Fisheries	Risk of Impacts on Ecosystem	
Pacific angel shark	Legal with size and gear restrictions	Moderate	Low	Low	
Brown Smoothhound	Legal with size limit	Low	Low	Unknown	
California skate	Legal	Moderate	Moderate	Low	
Bat Ray	Legal	Moderate	Moderate	Low	
Rock Crab	May not be retained under Federal Regulations	Low	Low	Low	
Barred sand bass	May not be retained	Low	Low	Low	
Giant sea bass	Legal as incidental	Moderate	No directed fishery	Unknown	
Great white shark	Legal as incidental	Moderate	No directed fishery	Unknown	
4					

Low

Low

Moderate

Linknown

No directed fishery

Low

No directed fishery

No directed fichery

Unknown

Unknown

Moderate

Linknown

Not legal to take

May not be retained

Not legal to take

Not local to take



### Conclusions

- Sharks, skates and rays
  - Moderate and unknown threats
- Marine mammals and sea birds
  - Low, moderate and unknown threats
- Finfish
  - Low to moderate threats





### Next Steps

- Acceptability determination
  - "unacceptable"triggers Step 4
- Potential management measures



### Thank You

mlmafisheriesmgmt@wildlife.ca.gov

MLMA Master Plan - Bycatch Criteria

CA Marine Species Portal - California Halibut



# Proposed Policy on Coastal Fishing Communities

#### KIMI ROGERS

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California Fish and Game Commission
Presented to the Marine Resources Committee, March 14, 2023





## Threats to Coastal Fishing Communities (CFC)

- Disruptions from climate change
- Inadequate port infrastructure
- Aging of the fleet
- Emerging industries
- Competition for shoreside use



# Purpose of Coastal Fishing Communities Policy





Formally recognize CFC goals and needs



Account for potential impacts to CFCs in fisheries management options and decisions



Second workshop

Revising draft and

presenting outline

to November MRC

### 2022 Timeline

Integrated

feedback into

draft policy

Public Workshop

and March MRC

FEB-MAR APR - JUN JUN-JUL AUG-SEP OCT-NOV DEC

Continued

revising

Postponed

second workshop

and July MRC





## Today's Update

- 1. December 1, 2022 workshop outcomes
- 2. Overview of proposed policy
- 3. Next Steps



## Policy Drafting Workshop #2

## December 2022 Policy Drafting Workshop



- Approximately 45 public attendees
- New connections: Agencies and CFC members
- Revised draft policy shared
- Received feedback





## Key Discussions and Feedback

- External threats to communities
- Support for local problemsolving, partnerships, and governance coordination
- Policy implementation questions
- Improve clarity





## **Proposed Policy**



## Changes to the Working Definition

A coastal fishing community is a social, cultural, economic, and/or place-based group whose members:

- are fishermen dependent upon, or engaged in, or benefit from local, wild-capture commercial, recreational, or subsistence fishing marine fishery harvest or processing to meet the social or economic needs of the community;
- this includes include, but is are not limited to, businesses and organizations that depend on or support fishing marine fisheries by providing goods and services, including infrastructure to that community or those communities; and
- it may be a subset or member of larger or associated coastal communities which have an interest in and/or are dependent on healthy ocean ecosystems.





## Policy Outline

- . Introduction
- II. Definition
- III. Policy Setting
- IV. Policy Statement
- V. Policy Strategies
  - A. Meaningful CFCs engagement
  - B. Commission action
  - C. Support capacity-building through partnerships



## Recommendation and Next Steps



#### Recommendation

Advance the proposed policy for Commission consideration

### **Next Steps**

- Implementation planning
- Community outreach, interagency discussions
- Resuming other CFC project efforts



## THANK YOU!



- Coastal fishing community members and organizations
- Non-governmental organizations and academic partners
- Agency representatives, especially California Department of Fish and Wildlife, California Ocean Protection Council, and California Ocean Science Trust
- Past Sea Grant fellows: Heather Benko, Leslie Hart, Maggie McCann, Rose Dodgen, and Corinna Hong

Special thanks to Craig Shuman, Carrie Pomeroy and Huff McGonigal



### Reach out!

### Kimi Rogers

2022-2023 California Sea Grant Fellow California Fish and Game Commission FGC@fgc.ca.gov

## New Coastal Fishing Communities Project Lead

### **Kinsey Matthews**

2023-2024 California Sea Grant Fellow California Fish and Game Commission Kinsey.Matthews@fgc.ca.gov



### **Pending Aquaculture Lease Actions**



Marine Resources Committee Meeting March 14, 2023

RANDY LOVELL State Aquaculture Coordinator

Photo: Tristen McHugh



### **Pending Aquaculture Lease Actions table**

Date Received	Business Name	Type of Request	Lease No.	Location	Request	Notes
	Completed:					
11/14/2019 rev'd 4/7/2021	Tomales Bay Oyster Company	Amendment	M-430-05	Tomales Bay	Add additional species and culture methods	approved:
2/12/2021	Hog Island Oyster Company	Amendment	M-430-10	Tomales Bay	Add additional species	approved:
2/12/2021	Hog Island Oyster Company	Amendment	M-430-11	Tomales Bay	Add additional species	approved:
2/12/2021	Hog Island Oyster Company	Amendment	M-430-12	Tomales Bay	Add additional species	approved:
2/12/2021	Hog Island Oyster Company	Amendment	M-430-15	Tomales Bay	Add additional species	approved:
	Pending:					
12/22/2016	San Andreas Shellfish	New Lease	N/A	Tomales Bay (proposed)	New lease in Tomales Bay	project review
5/31/2018	Santa Barbara Sea Ranch	New Lease	N/A	Santa Barbara (proposed)	New lease in Santa Barbara channel	CEQA review
3/25/2019	Malibu Oyster Company	New Lease	N/A	Malibu (proposed)	New lease offshore Malibu	proposal on hold
1/28/2021	Santa Barbara Mariculture	Amendment	M-653-02	Santa Barbara	Expand existing lease size	proposal on hold
10/14/2020	Cove Mussel Company	Assignment	M-430-06	Tomales Bay	Assignment (to Starbird Mariculture)	pending leaseholder actions
1/28/2019	Hog Island Oyster Company	Amendment	M-430-10	Tomales Bay	Lease boundary reconciliation and move/expansion	survey work
1/28/2019	Hog Island Oyster Company	Amendment	M-430-11	Tomales Bay	Lease boundary reconciliation	survey work
1/28/2019	Hog Island Oyster Company	Amendment	M-430-12	Tomales Bay	Lease boundary reconciliation and move	survey work done; CEQA review
1/28/2019	Hog Island Oyster Company	Amendment	M-430-15	Tomales Bay	Lease boundary reconciliation	survey work
11/14/2019 rev'd 4/7/2021	Tomales Bay Oyster Company	Amendment	M-430-05	Tomales Bay	Add additional species [and culture methods]	CEQA review
1/28/2021	Santa Barbara Mariculture	Amendment	M-653-02	Santa Barbara	Add additional species	CEQA review
5/27/2022	Grassy Bar Oyster Company	Amendment	M-614-01	Morro Bay	Add/reinstate additional methods	clerical review

new or expand transfer misc authorization boundary species/methods



### Pending Aquaculture Lease Actions accomplished

#### Of the 17 listed pending actions since Mar 2022:

- 5 are approved; amendments being executed
- 1 new methods request

#### The remaining pending actions consist of:

- **5 CEQA review** (various stages)
- **4+ Reconcile boundaries** (survey work)
- 6 Various review, coordination, or leaseholder tasks
- 2 On hold by applicants



### Questions?

Thank You