

Marine Life Protection Act Initiative



Socioeconomic Data for Recreational Fishing and Non-Consumptive Recreation in the MLPA North Central Coast Study Region

Public Workshop at Fort Mason Center
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Workshop Objectives

1. Provide participants with an understanding of the information gathered thus far for the MLPA Initiative
2. Allow participants to share information regarding critical data gaps and potential data sources



Workshop Agenda

- Welcome and introductions
- Overview of the MLPA Initiative and the North Central Coast Study Region process
- Review of available data for recreational consumptive users and non-consumptive users
- Discussion among workshop participants
- Final comments and next steps



North Central Coast Regional Profile

Contents

- Regional overview
- Ecological setting
- Land-sea interface
- Socioeconomic setting
- Research / monitoring
- Jurisdiction / management
- Existing MPAs and marine managed areas
- Subregional summaries
- Maps of some spatial data layers
- Web link to marine spatial database
- Web links to more information and other resources



Non-Consumptive User Groups

User Group	Spatial Data Available	Other Data Available
Scuba Diving (nonconsumptive)	Coastal access points	Dive guides to Northern California; Beach Watch surveys
UW Photography	No spatial data	Dive guides to Northern California
Tidepooling	Rocky shoreline and coastal access points	
Kayaking	Coastal access points	Kayak Fishing Assoc. of So. CA report; Beach Watch surveys
Whale Watching	No spatial data	
Bird Watching	Coastal access points	
Other Wildlife Viewing	Coastal access points and location of seabird and marine mammal colonies	
Boating	Port, harbor, and boat launch locations	Boat registration by county; boat ramp data (Sonoma)
Surfing	No spatial data	Surf guides to northern California; Surfrider preparing spatial data; Beach Watch surveys
Coastal Viewing	Coastal access points	
Beachgoing	Location of beaches, state parks, national seashores, etc.	Visitation rates from ten state beaches, nine parks, GGNRA, PRNS; coastal access points; beaches mapped. Beach Watch surveys



*Also, Gulf of the Farallones National Marine Sanctuary / Environmental Defense survey information applies to many categories

Consumptive User Groups

User Group	Spatial Data Available	Other Data Available
Commercial Passenger Fishing Vessels (salmon, rockfish, halibut)	California Recreational Fisheries Survey (CRFS) - effort and spatial data	
Private and Rental Skiff / Boat (salmon, rockfish, halibut/soft-bottom)	CRFS - effort and spatial data but limited to sites surveyed; boat ramp/launch points	
Kayak Angling	Limited CRFS data for some launch sites	Kayak Fishing Assoc. of So. CA report
Beach/Bank Shorefishing	CRFS - effort and spatial data but limited to sites surveyed; coastal access points	Beach Watch surveys
Pier / Man-Made Structure Shorefishing	CRFS - effort and spatial data; location of piers / jetties from various sources	
Spearfishing / Consumptive Diving	Limited CRFS data for some launch sites	Kayak Fishing Assoc. of So. CA report
Abalone - Freediving, Shore-picking	Abalone report card data on landings for selected survey sites (does not show areas harvested)	
Clamming	No spatial data	Beach Watch surveys
Recreational Dungeness Crab Trapping	CRFS - effort and spatial data	
"Subsistence" Fishers; Non-English Language Fishers	No spatial data	
Recreational Kelp/Algae Harvest?	No spatial data	



Recreational Fisheries

- **Red Abalone**
 - Free diving and “shore picking”
- **Dungeness crab**
- **Nearshore Finfish**
 - Blue rockfish
 - Black rockfish
 - Lingcod
 - Cabezon
 - Kelp greenling
- **Other Finfish**
 - Sanddabs
 - Pacific mackerel
 - California halibut





California Recreational Fisheries Survey

- Comprehensive, Multiple-Mode Fisheries Surveys
 - Commercial passenger fishing vessels
 - Private and rental skiffs
 - Beach and bank
 - Man-made structures
- Data for Catch, Weight, Effort, Spatial data (1-minute microblocks)
- Data Collection from Onboard Observers, Port Samples, Telephone Interviews



California Recreational Fisheries Survey

CRFS Districts in MLPA North Central Coast Study Region

- San Francisco (includes the bay – queries made for ocean only)
- Wine (Sonoma County and all of Mendocino County – does not include Tomales Bay)



Recreational Fisheries

Commercial Passenger Fishing Vessels (CPFV)

- Ports
 - Bodega Bay, Tomales Bay, Berkeley, Emeryville, San Francisco, Princeton
- Important fishing locations
 - Fort Ross, Point Reyes, Farallon Islands, between Pillar Point and Pigeon Point

Private and Rental Skiffs

- Boat and launch facilities
 - Timber Cove, Westside Ramp, Doran Park, Lawson's Landing, Miller Park, Estuary Park, Oyster Point
- Important fishing locations
 - coastline near Bodega Bay, north of San Francisco Bay, around Half Moon Bay



Recreational Fisheries

Shore-Based Anglers, Divers, Kayaks...

- Important fishing locations
 - Point Arena, Anchor Bay, Ocean Cove, Timber Cove, Fort Ross
 - Goat Rock, Doran, Lawson's Landing, Point Reyes, Baker Beach,
 - Pillar, Princeton, and Half Moon Bay

Man-Made Structures

- Locations limited in the study region
 - Doran, Lawson's pier, Fort Baker, Pacifica pier, and Princeton pier and jetty



CPFV Logbook Data

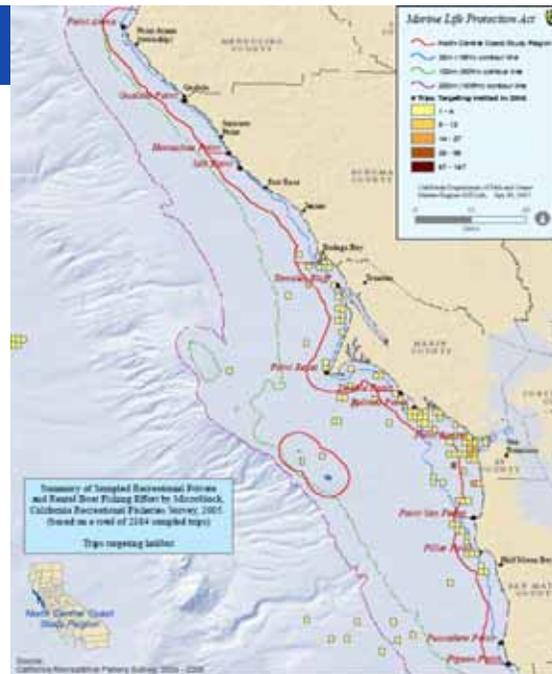
- Logbooks are submitted to CDFG by the CPFV fleet
- CPFV catch is recorded as number of fish
- Number of anglers and hours fished
 - fishing effort can be calculated using this information
- Other important information collected is number of fish kept, number thrown back, fishing method, target species, geographic fishing area (block), and depth fished



CRFS Data

Private and Rental Boat Fishing Effort for CA Halibut

*Sampled Recreational Private and Rental Boat Fishing Effort (number of trips targeting CA Halibut) from CRFS 2005. Based on 2,384 sampled trips.

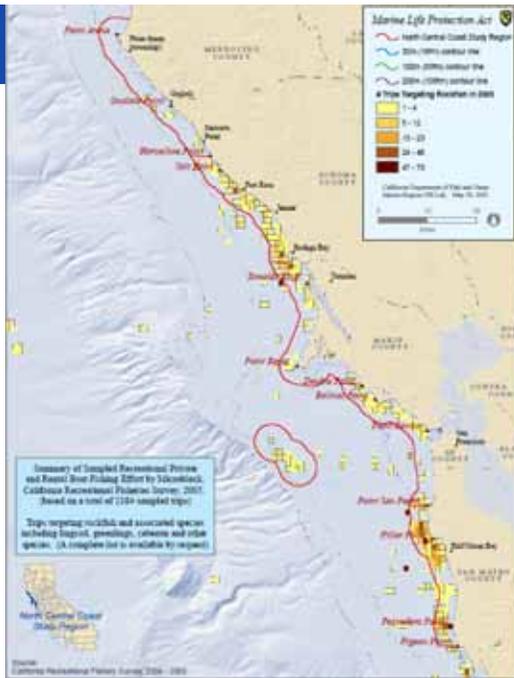




CRFS Data

Private and Rental Boat Fishing Effort for Trips Targeting Rockfish

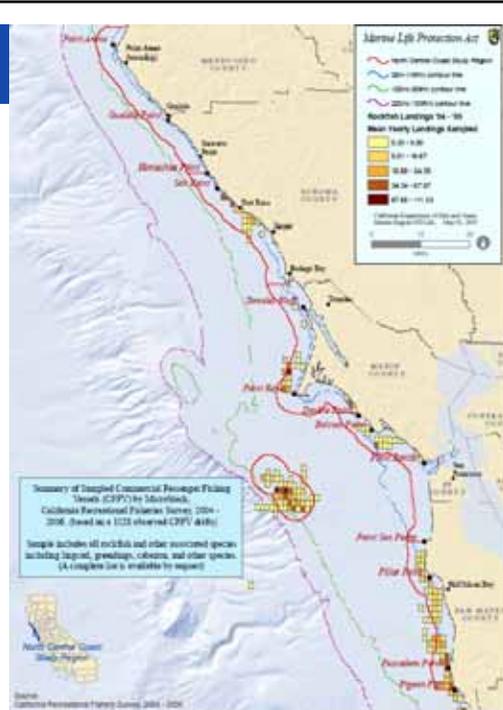
*Sampled Recreational Private and Rental Boat Fishing Effort (number of trips targeting Rockfish and associated species) from CRFS 2005. Based on 2,384 sampled trips.



CPFV Data

Commercial Passenger Fishing Vessel Rockfish Landings

*Mean annual landings 2004-2006 of sampled CPFV trips by micro-block. Includes all rockfish and other associated species including lingcod, greenlings, cabezon, and other species.





CDFG Ocean Salmon Project

- **Comprehensive Data Collection**
 - Includes all ocean salmon catches (commercial and recreational)
 - Incorporates CRFS
 - Provides estimates of effort and landings
- **Ports**
 - Monterey, San Francisco, Fort Bragg, Eureka, Crescent City



CDFG Abalone Report Card

- **Report Card Required to Harvest Red Abalone**
 - for each abalone harvested, date and nearest location are reported
 - data available includes catch by relative location, not by mode
- **Port Sampler Surveys to Supplement Report Card**
 - collect information on mode (shore picking, free diving), catch, size, angler effort, and ask harvesters to mark location on map
 - spatial information from port sampler surveys available from 1990-2000



Red Abalone

Recreational Abalone Landings for 2005 From CDFG Abalone Report Card

Number of reported landings is proportional to size of symbol

*These catch estimates are believed to be lower than the actual number of abalone harvested from these areas due to possible underreporting on abalone punch cards and not submitting punch cards.



Kayak Angling

- **Data Available Limited to Launch Site Information**
- **One Excellent Source of Information**
 - Kayak Fishing Association of Southern California compiled report listing launch sites from Point Conception to Point Arena
http://www.dfg.ca.gov/mrd/mlpa/pdfs/comments/kfasc_030805.pdf



Kayak Angling

NorCal Kayak Anglers - Additional Launch Sites and Target Species

Launch Site	Species caught
Gualala	rockfish, lingcod, halibut, striped bass, salmon
Salt Point	rockfish, halibut
Stillwater	rockfish, halibut
Fort Ross State Beach	rockfish, halibut, crab
Jenner	rockfish, halibut
Bodega	rockfish, salmon, crab
North Beach Rd. (pt. Reyes)	salmon
South Beach Rd. (Pt. Reyes)	salmon
Chimney Rock	rockfish, halibut, salmon, crab
Drakes Beach	salmon
Bolinas	rockfish, lingcod, halibut, striped bass, salmon, crab
Stinson	rockfish, lingcod, halibut, striped bass, salmon, crab
Muir Beach	rockfish, lingcod, halibut, striped bass, salmon, crab
Linda Mar	rockfish, halibut, striped bass, salmon, crab
Pillar Point Harbor/ Half Moon Bay	rockfish, halibut, salmon, crab
Venice Beach	rockfish, halibut, salmon, crab
Martin's Beach	rockfish, lingcod, halibut, striped bass, salmon, crab
San Gregorio State Beach	rockfish, lingcod, halibut, striped bass, salmon, crab
Pomponio State Beach	rockfish, halibut
Pescadero State Beach	rockfish, halibut
Bean Hollow Launch	rockfish, halibut
Pigeon Point	rockfish, halibut



Access Sites

Coastal Access Points, Including Kayak Launch Sites





Consumptive Diving

- **Limited Consumptive Diving Data**
 - Includes logbook data from dive charters
- **Additional Information Desired**



Discussion Questions

Are there other user-groups (not yet listed) that should be considered?



Discussion Questions

Are there other available data that should be considered?



Discussion Questions

What are the most critical data gaps?

What kinds of spatial and non-spatial data (e.g. qualitative information on site importance) will be valuable and can be feasibly collected to fill gaps?



Discussion Questions

Who are the key individuals and organizations that could potentially contribute data?



Final Comments and Next Steps

- **Thank you, as always, for participating!**