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
Study Region

- Alder Creek / Point Arena to Pigeon Point
  - includes the Farallon Islands
  - does not include San Francisco Bay
- Area: 763 square miles
- North-south extent: 146 miles
- Existing state MPAs: 13

North Central Coast Regional Profile

**Purpose**

- Provides contextual information regarding the ecological and socioeconomic setting of the study region
- Reflects knowledge of stakeholders, the public, scientists, and MLPA Initiative and California Department of Fish and Game (CDFG) staff
- Supports the evaluation of existing state MPAs and development of alternative MPA proposals
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

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

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

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

## 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

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## 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.
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.

CRFS 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.

CPFV Data
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
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.

Red Abalone

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

<table>
<thead>
<tr>
<th>Launch Site</th>
<th>Species caught</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guadalupe</td>
<td>rockfish, lingcod, halibut, striped bass, salmon</td>
</tr>
<tr>
<td>Salt Point</td>
<td>rockfish, halibut</td>
</tr>
<tr>
<td>St. Helens</td>
<td>rockfish, halibut</td>
</tr>
<tr>
<td>Fort Ross State Beach</td>
<td>rockfish, halibut, crab</td>
</tr>
<tr>
<td>Jenner</td>
<td>rockfish, halibut</td>
</tr>
<tr>
<td>Bodega</td>
<td>rockfish, salmon, crab</td>
</tr>
<tr>
<td>North Beach Rd. (Pt. Reyes)</td>
<td>salmon</td>
</tr>
<tr>
<td>South Beach Rd. (Pt. Reyes)</td>
<td>salmon</td>
</tr>
<tr>
<td>Cherry Rock</td>
<td>rockfish, halibut, salmon, crab</td>
</tr>
<tr>
<td>Drakes Beach</td>
<td>salmon</td>
</tr>
<tr>
<td>Big Sur</td>
<td>rockfish, lingcod, halibut, striped bass, salmon, crab</td>
</tr>
<tr>
<td>Stinson</td>
<td>rockfish, lingcod, halibut, striped bass, salmon, crab</td>
</tr>
<tr>
<td>Muir Beach</td>
<td>rockfish, lingcod, halibut, striped bass, salmon, crab</td>
</tr>
<tr>
<td>Linda Mar</td>
<td>rockfish, halibut, striped bass, salmon, crab</td>
</tr>
<tr>
<td>Pillar Point Harbor/ Half Moon Bay</td>
<td>rockfish, halibut, salmon, crab</td>
</tr>
<tr>
<td>Venice Beach</td>
<td>rockfish, halibut, salmon, crab</td>
</tr>
<tr>
<td>Marin’s Beach</td>
<td>rockfish, lingcod, halibut, striped bass, salmon, crab</td>
</tr>
<tr>
<td>San Gregorio State Beach</td>
<td>rockfish, lingcod, halibut, striped bass, salmon, crab</td>
</tr>
<tr>
<td>Pomponio State Beach</td>
<td>rockfish, halibut</td>
</tr>
<tr>
<td>Pescadero State Beach</td>
<td>rockfish, halibut</td>
</tr>
<tr>
<td>Bean Hollow Launch</td>
<td>rockfish, halibut</td>
</tr>
<tr>
<td>Pigeon Point</td>
<td>rockfish, halibut</td>
</tr>
</tbody>
</table>

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?

- 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!