

Marine Life Protection Act Initiative



Information Available for MPA Planning in the South Coast Study Region

Evan Fox, Principal Planner, MLPA Initiative

Presentation to the MLPA South Coast Regional Stakeholder Group

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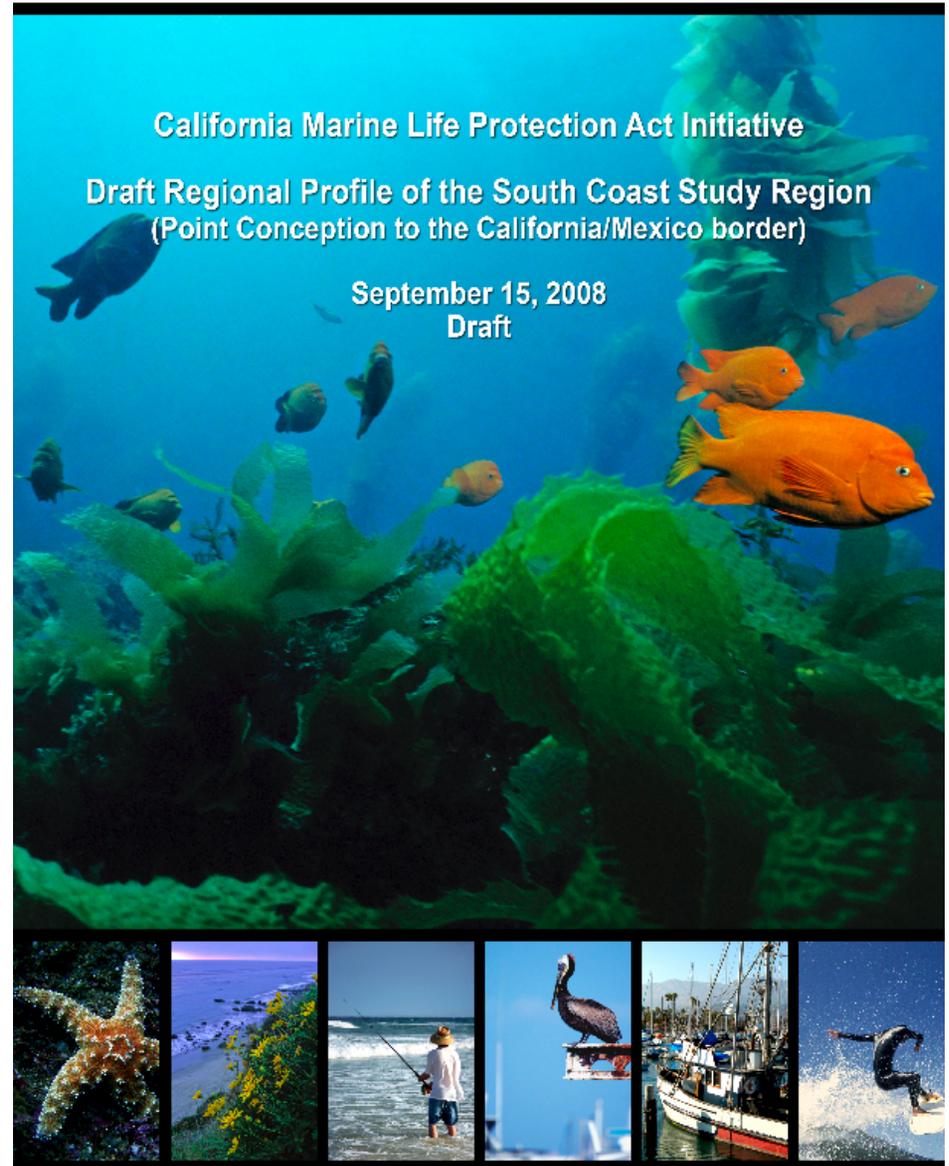
Information for MPA Planning

- Regional profile for the south coast study region
- MarineMap / decision support system
- Information generated during the joint fact-finding process



Regional Profile: Purpose

- Provide background information for MPA planning
- Integrate best readily available science
- Initiate joint fact-finding process





Regional Profile: Components

- Main Document
 - Executive summary and 11 sections
- Appendices
 - Statistics on species, fisheries, and water quality
- Maps
 - Display some spatial data layers
- Web links to other tools, information, and resources



Regional Profile: Table of Contents

Chapter	Section
1	Introduction
2	Description of the South Coast Study Region
3	Ecological Setting
4	Land-Sea Interactions
5	Socioeconomic Setting
6	Academic Institutions, Research, Public Outreach, and Education
7	Jurisdiction and Management
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10	Conclusion
11	References



Description of the Study Region

- Point Conception to the California/Mexico border
- Out to three nautical miles offshore
- Includes offshore islands
- Unique intersection of two biogeographic regions





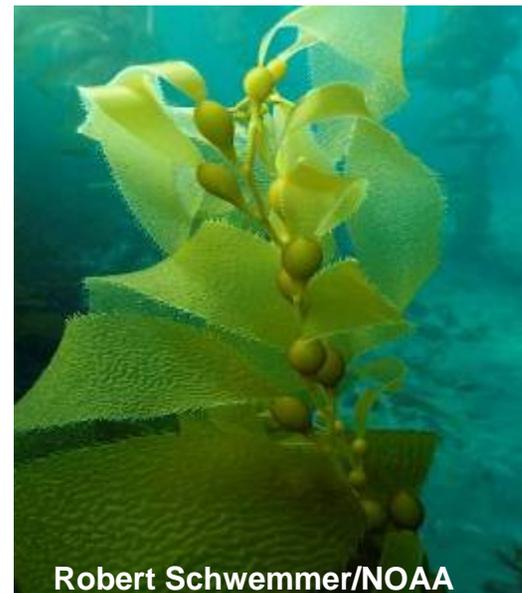
Ecological Setting

Types of Habitat

- Intertidal
- Estuaries and lagoons
- Seagrass beds
- Kelp forests
- Hard bottom/Rocky reefs
- Sandy/Soft bottoms
- Underwater pinnacles
- Submarine canyons
- Offshore rocks and islands



Photo Credit: Laura Francis/NOAA



Robert Schwemmer/NOAA

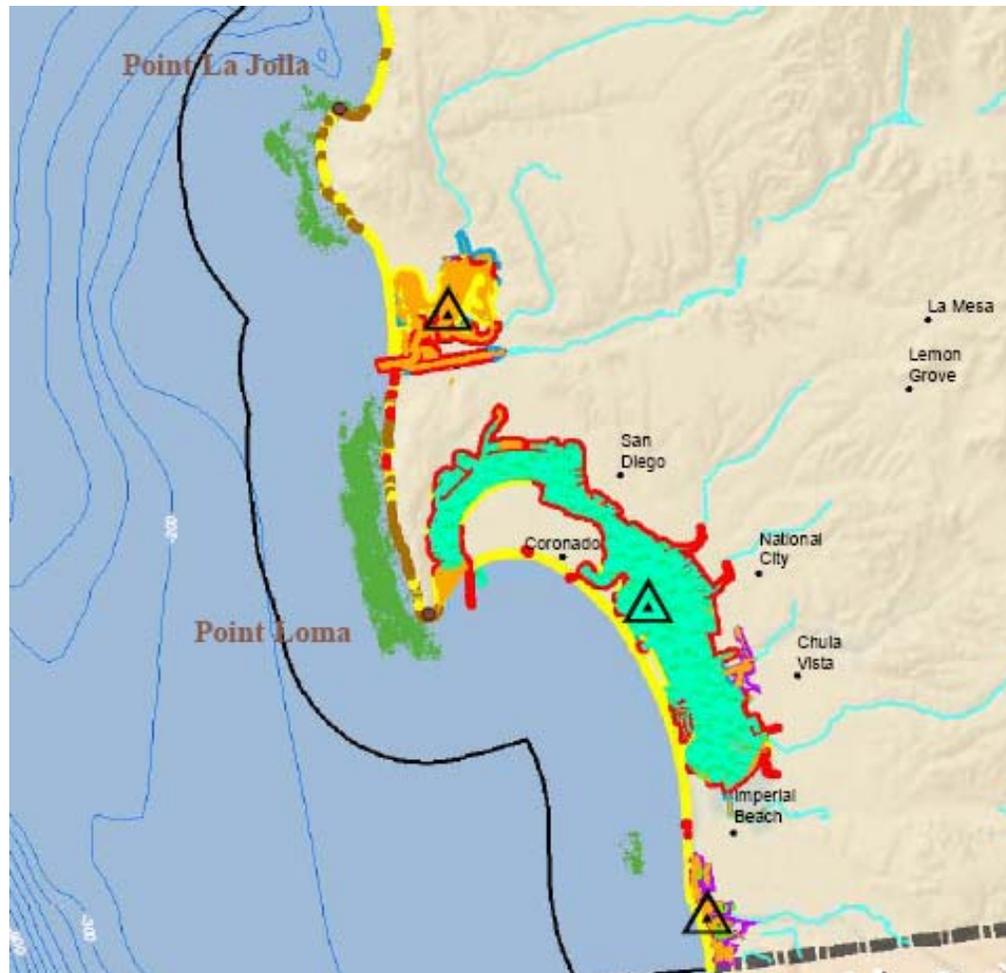


Ecological Setting: Example Map

Nearshore Habitats

Legend

-  South Coast Study Region Boundary
-  Habitat Restoration Projects
-  Coastal Rivers
-  100m Isobaths
-  Surf Grass
-  Oil seeps
-  Eelgrass
-  Estuaries
-  Kelp Canopy
-  Coastal Marsh
- Shore Types**
-  Hardened Shores
-  Beaches
-  Rocky Shores
-  Tidal Flats
-  Coastal Marsh



Map 3.1-1



Ecological Setting

Species of Interest

- Species likely to benefit
- Depleted and overfished species
- Fished species of interest
- Special status species



Photo Credit: Magnus Kjaergaard

Ecological Setting: Example Map

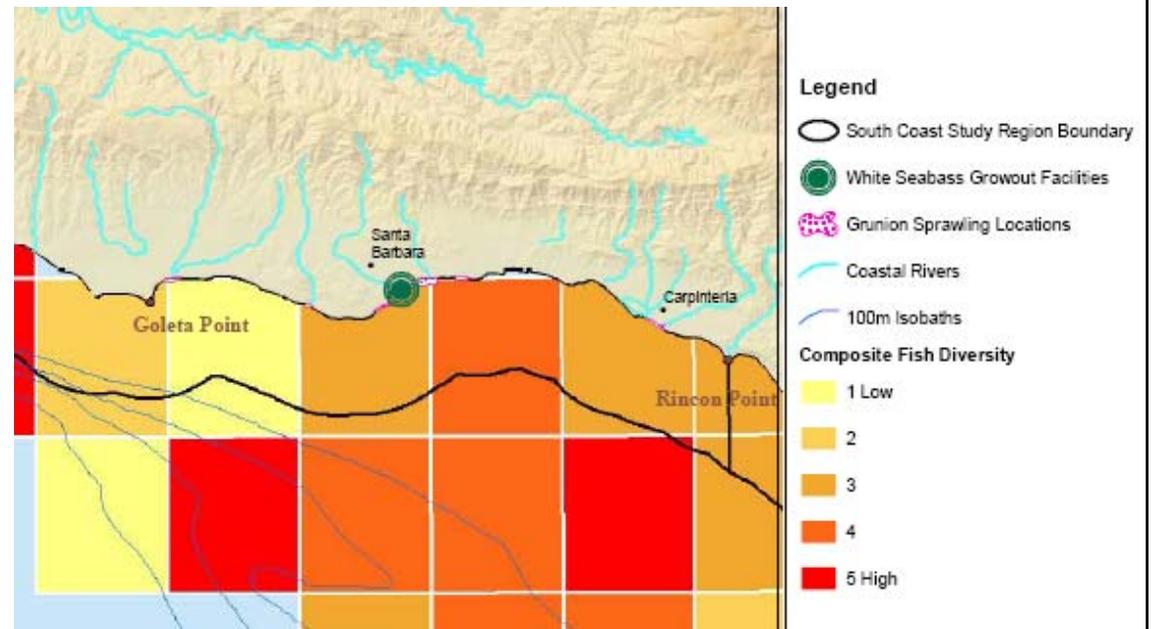
Species of Interest

Seabird Nesting Sites



Map 3.2-1

Composite Fish Diversity



Map 3.2-2



Land-Sea Interactions

Water Quality

- Offshore water quality
- Impaired waterbodies
- Beach closures, postings, and rain advisories
- Sediment quality





Land-Sea Interactions: Example Map

Water Quality

Outfalls and Impaired Water Bodies

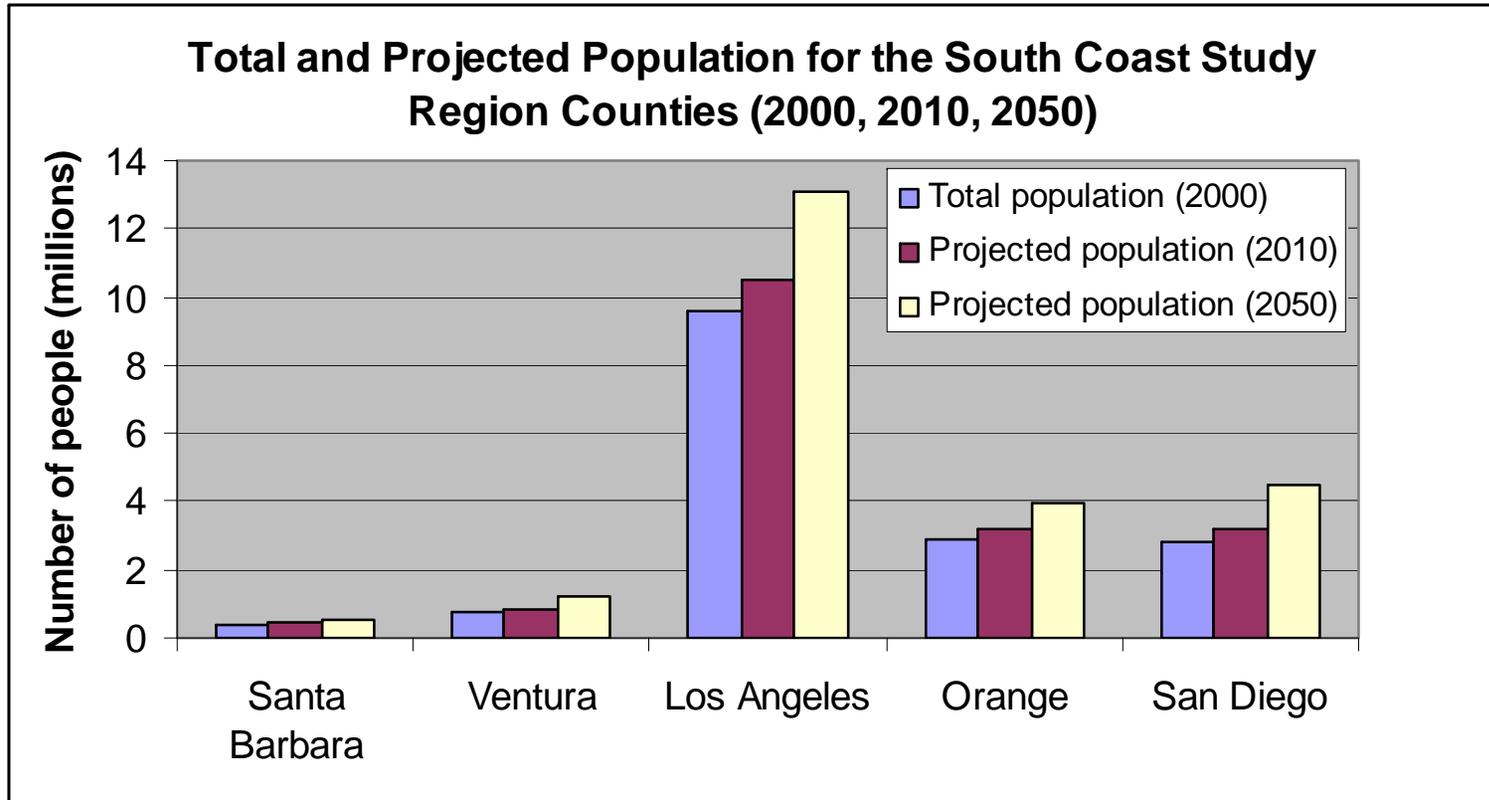
Legend

-  South Coast Study Region Boundary
-  Coastal Rivers
-  Impaired Rivers
-  Watersheds
-  Impaired Water Bodies*
-  Areas of Special Biological Significance (ASBS)
- Ocean Outfalls**
-  aquaculture wastewater
-  cooling water
-  desalination brine
-  desalination brine and cooling water
-  marine lab and public aquarium waste seawater
-  marine lab waste seawater
-  refinery wastewater
-  treated sanitary waste from oil platform
-  treated sanitary wastewater



Map 4.3-1

Socioeconomic Setting



**16.4 Million People in Coastal Counties
(nearly 10 million in Los Angeles County)**



Socioeconomic Setting

Commercial Fishing

Average Annual Value of Landings: \$67,631,631

- Fish
- Invertebrates
- Kelp
- Aquaculture

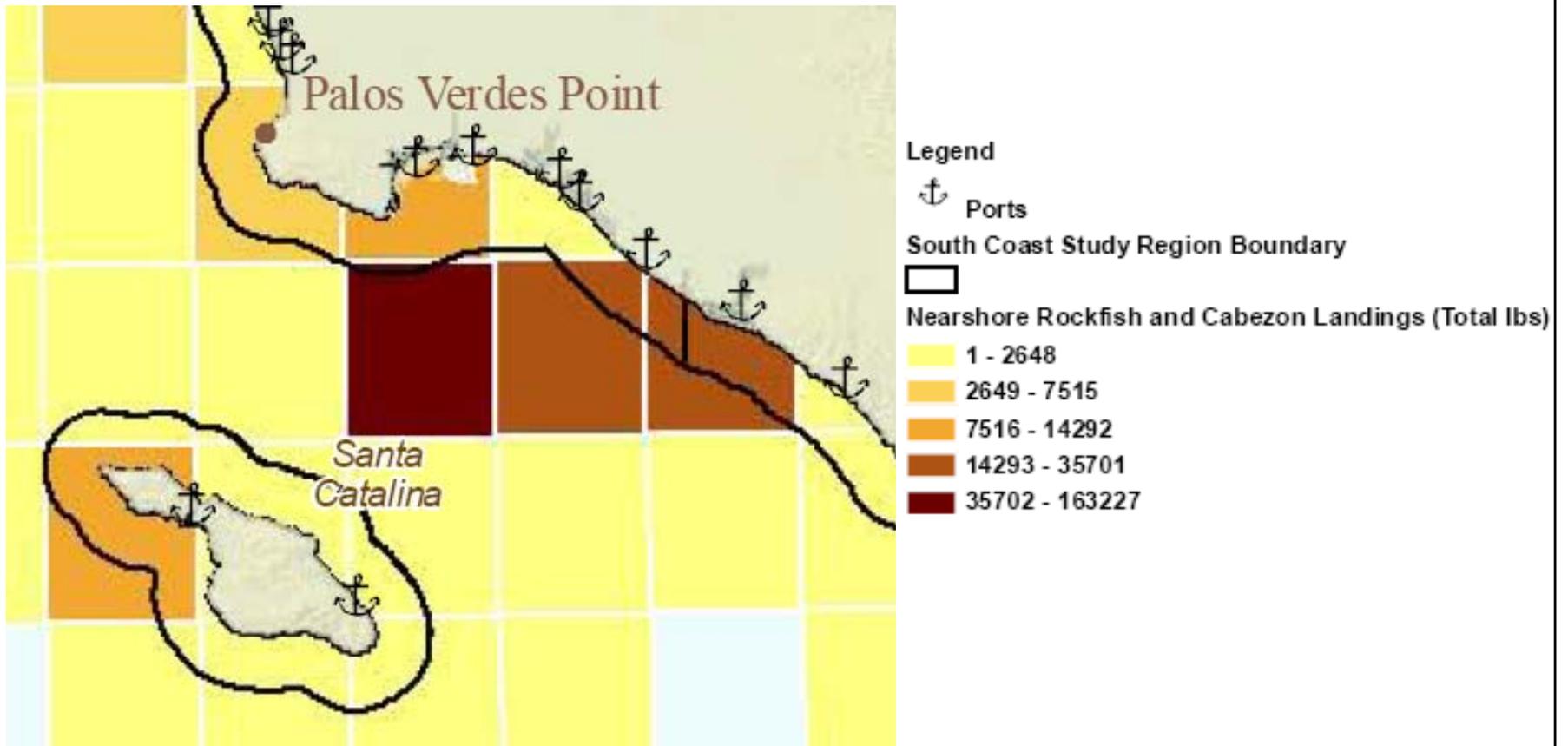




Socioeconomic Setting: Example Map

Commercial Fishing

Rockfish and Cabezon Landings



Map 5.4-1



Socioeconomic Setting

Recreational Fishing

- 155 Species harvested
- Shore, jetties, piers
- Spearfishing
- Party boats, private boats, kayaks
- Numerous marinas and access points

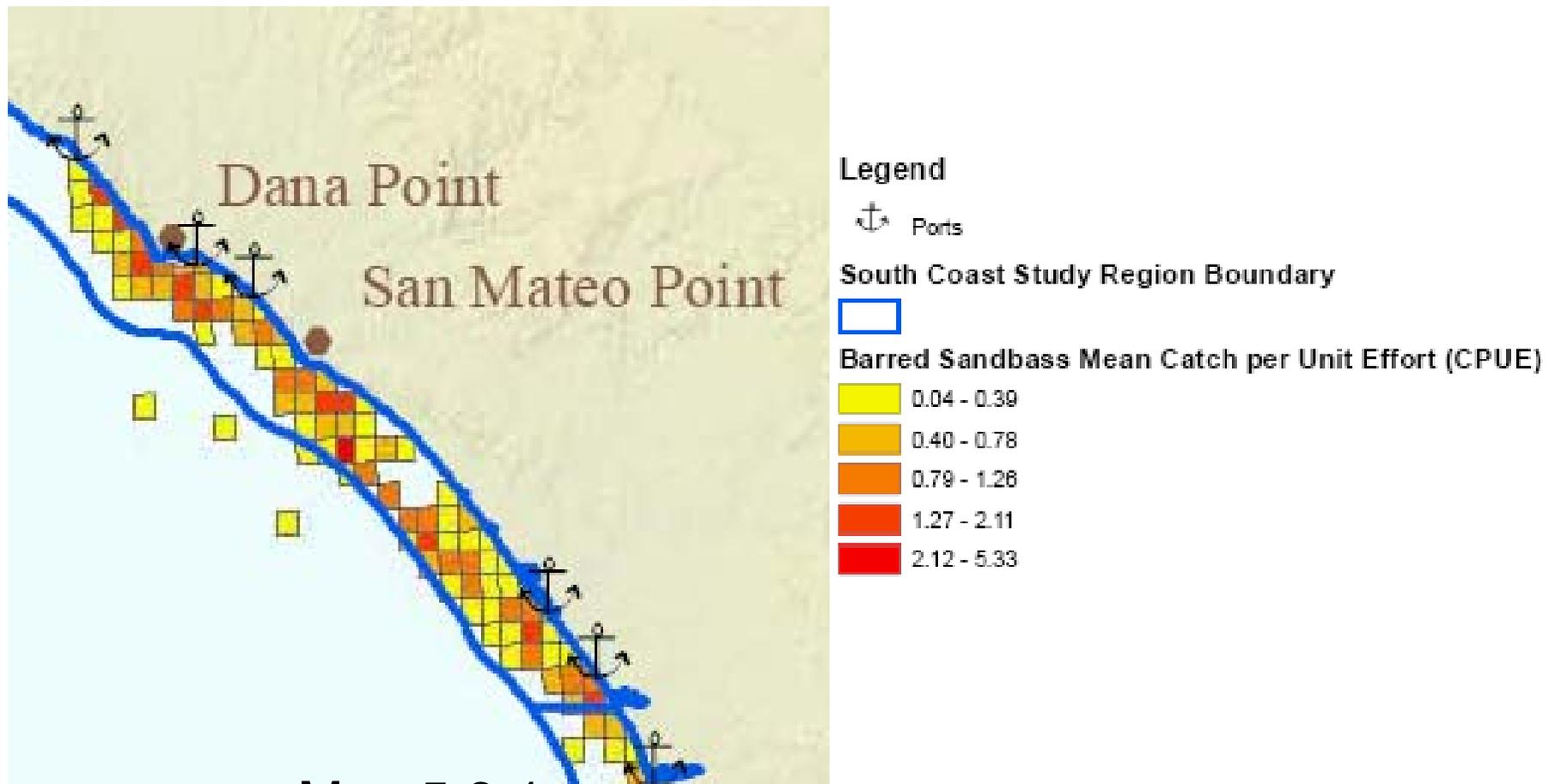




Socioeconomic Setting: Example Map

Recreational Fishing

Barred Sand bass Effort



Map 5.6-1



Socioeconomic Setting

Non-consumptive Uses

- Beach-going
- Swimming, surfing
- Kayaking, sailing
- Skin or scuba diving
- Wildlife viewing, photography





Socioeconomic Setting: Example Map

Non-consumptive Uses

Legend

-  Coastal Rivers
-  Ports
-  Piers and Jetties
-  Coastal Access Points
-  Shore Dive Locations



Map 5.6-3



Research, Education, and Outreach

Descriptions and contact information for

- Research Institutions
- Monitoring programs
- Educational organizations
- Public outreach programs



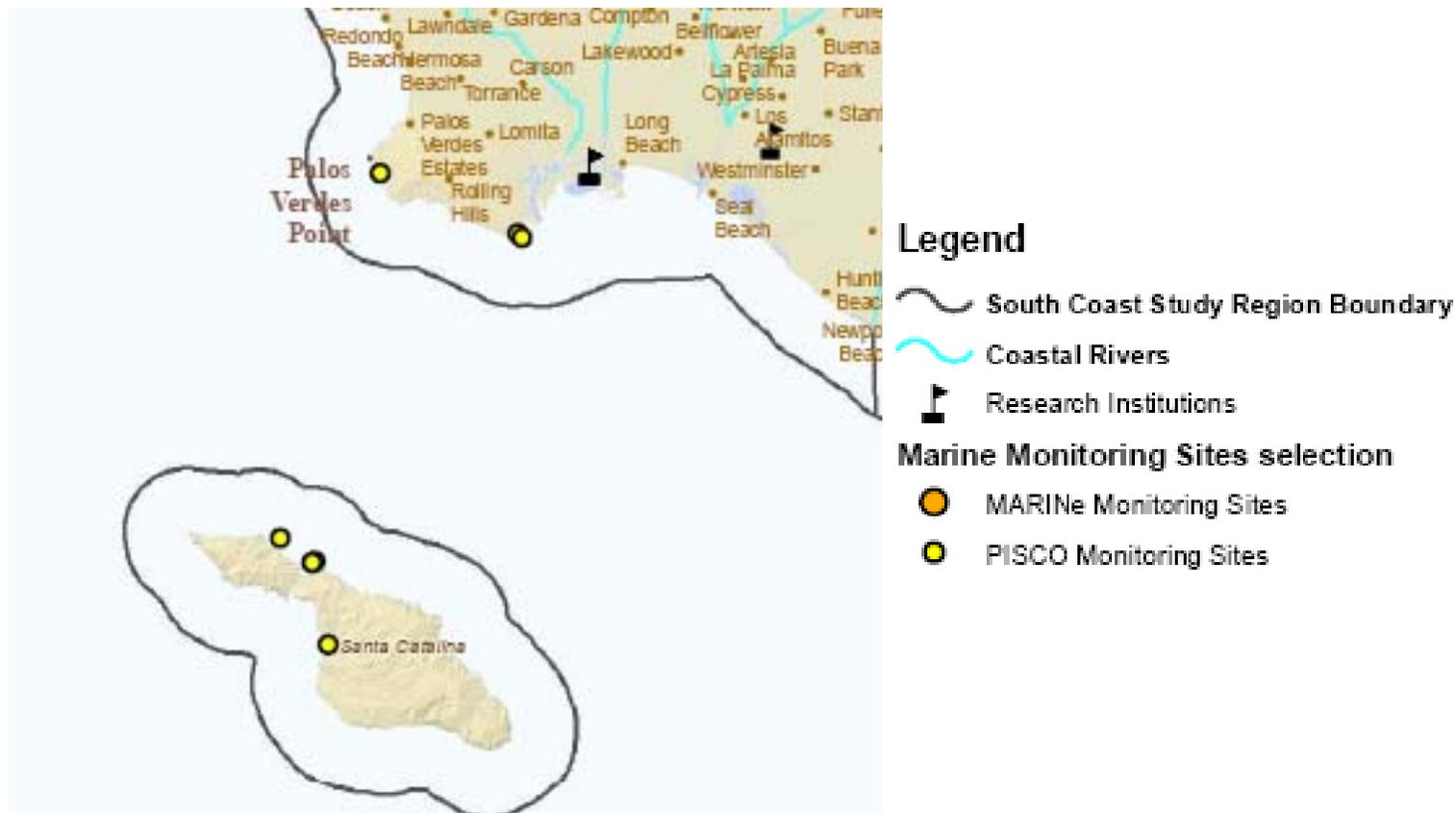
Laura Francis/NOAA



Research, Education, and Outreach

Example Map

Monitoring Sites



Map 6.1-1



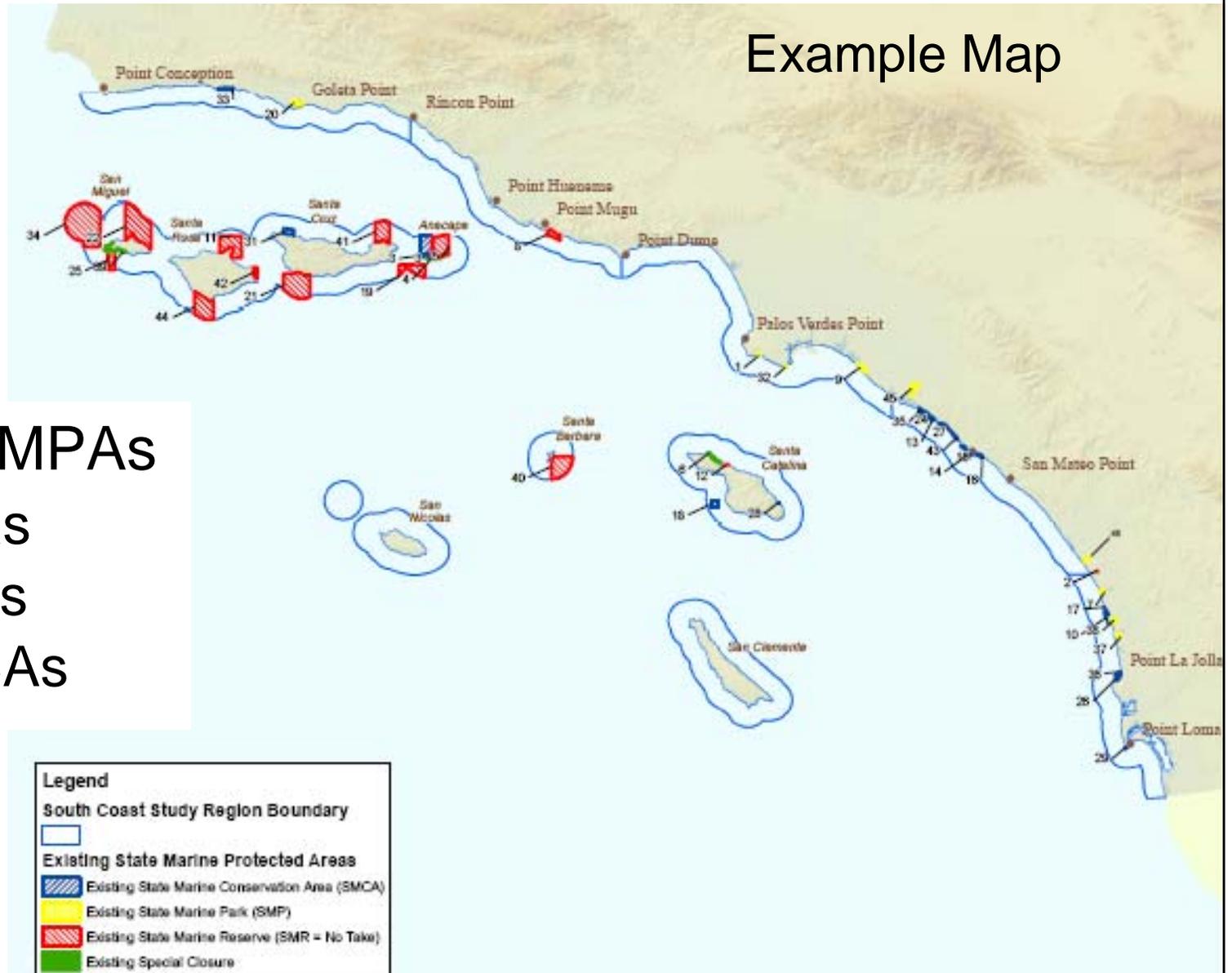
Jurisdiction and Management

- Federal agencies
- State agencies
- Local governments
- Native American groups



Existing MPAs and Other Closures

Example Map



43 Existing MPAs

- 15 SMRs
- 10 SMPs
- 18 SMCAs

Existing MPAs and Other Closures

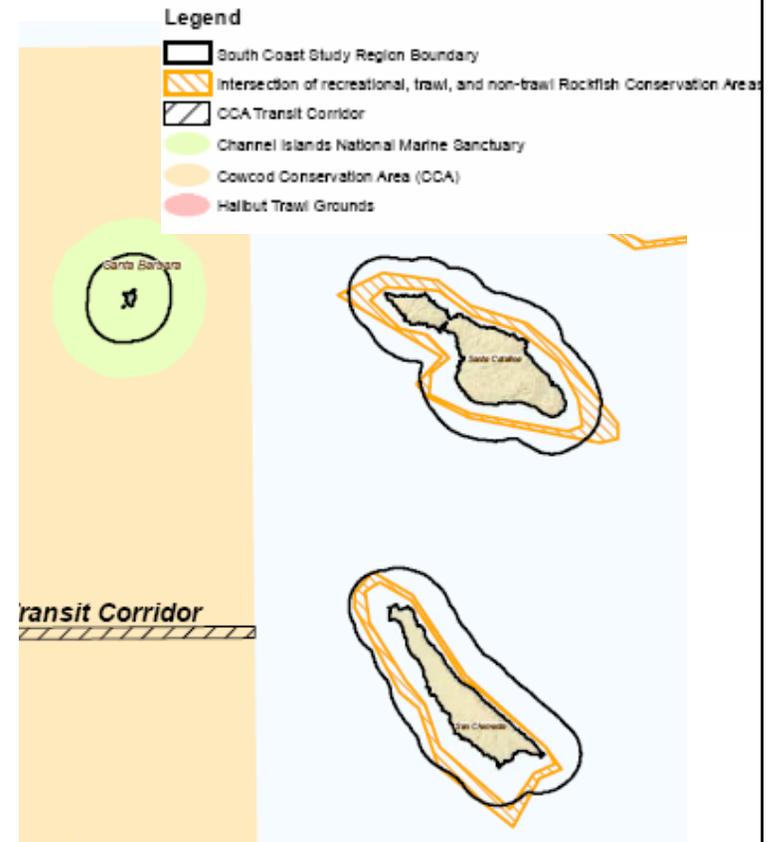
Managed Areas



- Legend**
- South Coast Study Region Boundary
 - Estuaries
 - Restricted Area or Safety/Security Zone
 - Aquaculture Leases
 - Kelp Bed Leases**
 - CLOSED
 - LEASE ONLY
 - LEASEABLE
 - LEASED
 - OPEN
 - Marine Managed Areas**
 - Areas of Special Biological Significance
 - City Underwater Park
 - Federal Ecological Preserve
 - National Monument
 - National Park
 - Channel Islands National Marine Sanctuary
 - Terrestrial Managed Areas**
 - Federal
 - State
 - Local
 - NGO

Map 8.2-1

Groundfish Closures



Map 8.2-2



Subregional Summaries

- Localized information for MPA planning
- Opportunity for stakeholders to contribute knowledge
- To be completed over coming months...



Other topics

- Coastal energy projects
- Mariculture
- Navigation and shipping
- Structural alterations to coastal environment
- Artificial reefs, restoration projects





Regional Profile: Appendices

Appendix III (b): Summary of Ventura County Fisheries, 1998-2007

Table III-4: Summary of Ventura County invertebrate fisheries, 1998-2007

Market Category Groupings ¹ INVERTEBRATES	Primary Species Targeted	Primary Gear	Number of Fishermen ⁴ 2007 ³	Number of Vessels ⁴ 2007 ³	Average Annual Landings (pounds)	Average Annual value (\$) ²
Market Squid	Market squid	Round haul nets, and brail	81	63	66,144,244	\$12,824,706
Sea urchin	Red, purple, and white sea urchins	Hand harvest	49	23	2,217,951	\$1,958,725
Sea cucumber	Warty and giant red sea cucumbers	Hand harvest, and trawl	23	15	310,523	\$339,952
Rock crab	Brown, red, and yellow rock crab	Traps	33	31	173,491	\$251,542
Ridgeback prawn	Ridgeback prawns	Traps	6	5	139,297	\$250,689
Spiny lobster	Spiny lobster	Traps	20	20	85,299	\$764,048
Spot prawn	Spot prawn	Traps	7	6	82,712	\$852,241
Spider crab	Spider crab	Traps	20	21	16,984	\$23,645
Kellett's whelk	Kellett's whelk	Hand harvest	10	10	1,675	\$1,291
Other invert	All invertebrates with small amount of landings		19	22	5,448	\$3,353

Source: Data compiled from the Commercial Fishery Information System data base (extract date: May 2, 2008).

¹ Market Category Groupings are listed in descending order by average annual landings within the county.

² Average values were calculated by applying an inflationary figure to each of the ten year (1998-2007)

³ Commercial license year from April 1 through March 31 the following calendar year.

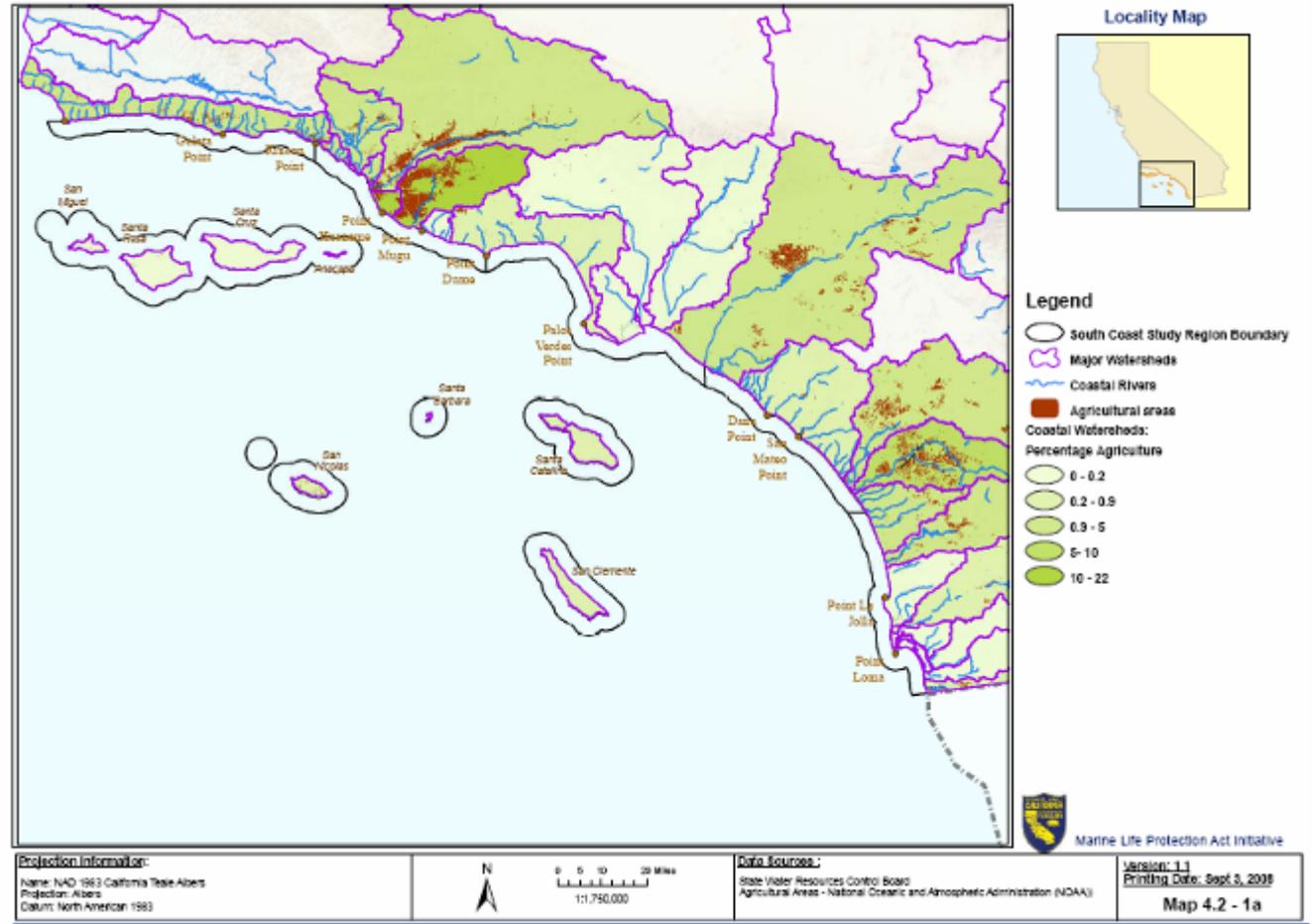
⁴ Fishermen and vessels may fish more than one market category grouping.



Regional Profile: Maps

- 109 individual maps
- Study region divided into 7 subregions

Coastal Watershed Impacts Percentage of Agricultural Coverage in Major Watersheds





Other Sources of Information

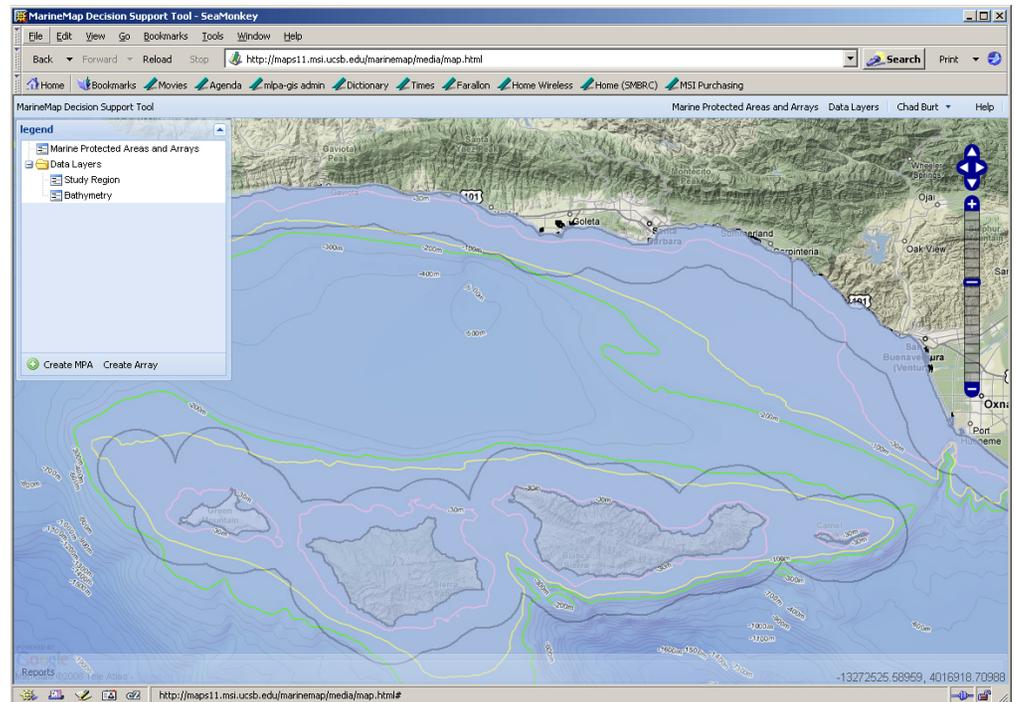
- The regional profile is one source of information
- Links to additional sources of information are included in the profile
- Other tools are available as well...



MarineMap: Decision Support Tool

- View and overlay data layers
- Draw and assemble MPAs
- Enter MPA attributes and information
- Receive feedback on MPA concepts

<http://marinemap.org/marinemap>





Pending Information

- Substrate mapping
 - Hard and soft bottom habitats
- Commercial and recreational fishing information
 - Collected by Ecotrust
- California Ocean Uses Atlas Project
 - Collected by NOAA's MPA Center and Marine Conservation Biology Institute



Joint Fact-Finding Process

What is joint fact-finding?

- Sharing of information to support informed decision-making
- Information may include
 - Peer reviewed studies
 - Field knowledge from scientists
 - First-hand knowledge from resource users
- Stakeholders help identify information needs/questions



Joint Fact-Finding Process

Why is it important?

- MLPA Initiative process relies on the best readily available scientific information

What does it involve?

- Stakeholders, science advisory team members, and staff will work together to contribute knowledge and information to the process



Joint Fact-Finding Process

- Review of the regional profile is the first opportunity for regional stakeholder group member contributions to the joint fact-finding process
 - Review, comment, and make corrections
 - Subregional summaries
 - Contribution of additional datasets
- Science advisory team will also have opportunity to review and contribute to the regional profile



Joint Fact-Finding Process

- In past study regions, a SCRSG work group formed to
 - Review the regional profile in detail
 - Discuss potential additions to the regional profile
 - Serve as a sounding board for further additions
 - Coordinate contribution of additional data and information
- Opportunity to form work group at SCRSG meeting #2



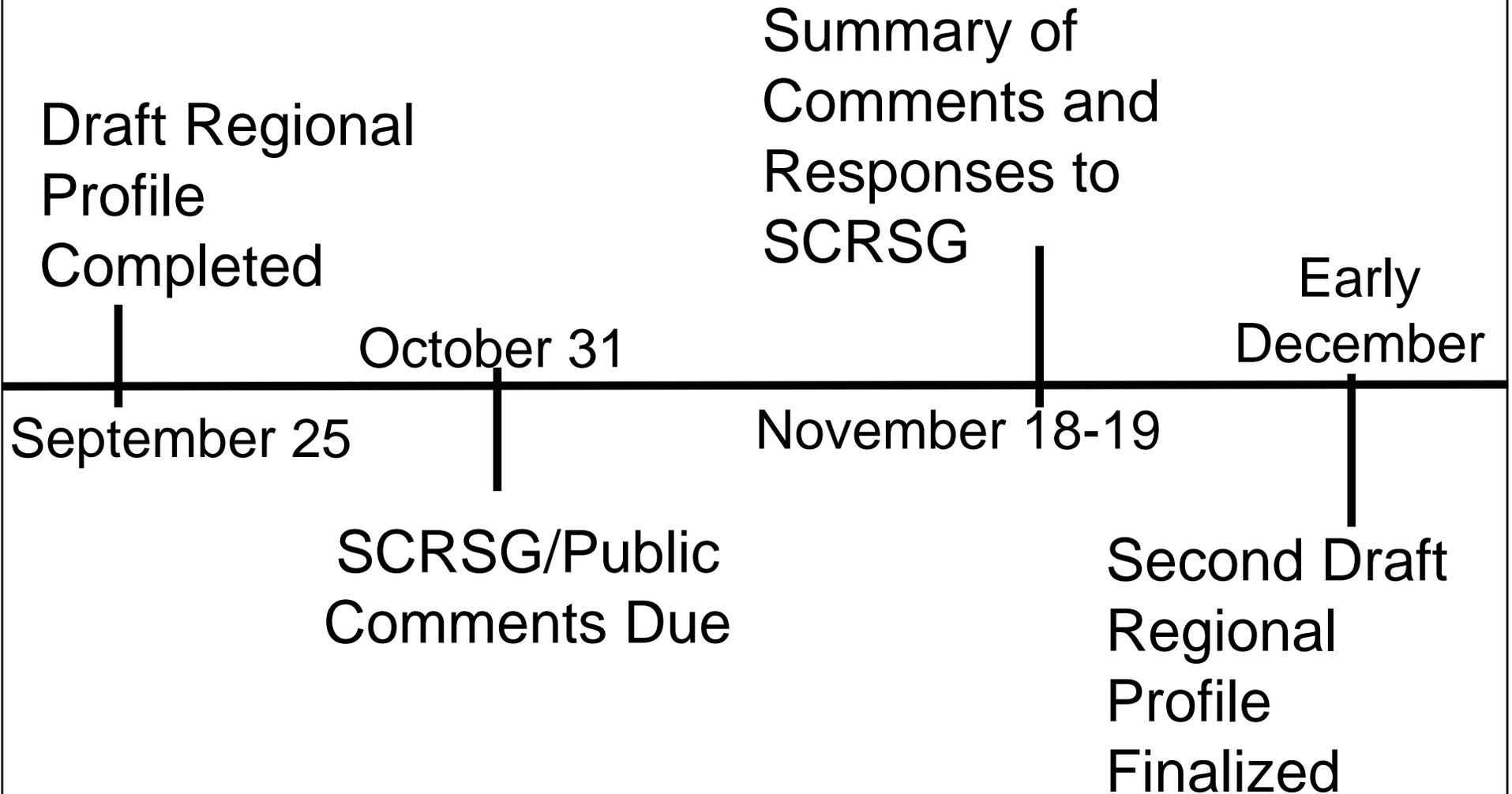
Joint Fact-Finding Process

Future joint fact-finding

- Science presentations to the SCRSG
- Opportunity to ask questions and share information
- To begin at next SCRSG meeting



Regional Profile Timeline





Regional Profile Comments

MLPA Initiative planning staff will be tracking SCRSG, science advisory team and public comments:

Evan Fox, Principal Planner
evanwfox@gmail.com

Darci Connor, Assistant Planner
darciconnor@gmail.com

Dominique Monié, Assistant Planner
dominiquemonie@gmail.com



Initial comments or questions?