California's Marine Life Protection Act



Kaitilin Gaffney, Director, Pacific Ecosystem Protection Program

Ocean Conservancy September 5, 2009





Our Ocean Faces a Crisis



The New York Times

Oceans at Risk

March 9, 2008

There is no shortage of scientific studies documenting the degradation of the world's oceans, the decline of marine ecosystems and the collapse of important fish species. Several have appeared in the last month. What is in short supply is a sustained effort by world governments and other institutions to do something about it.



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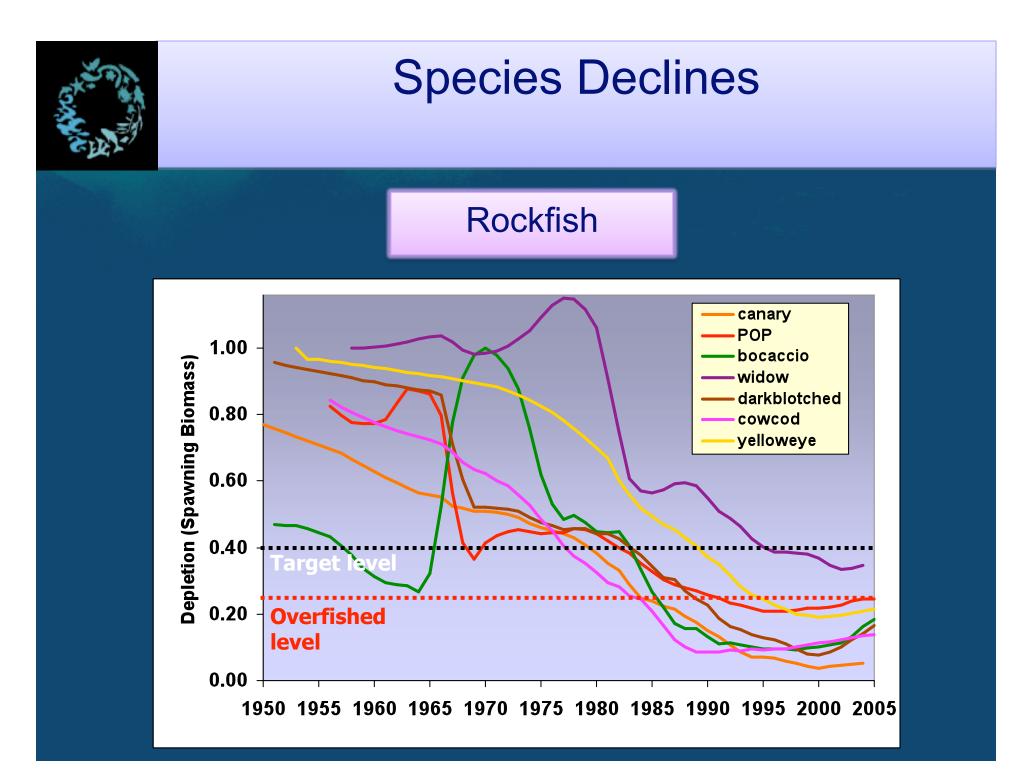




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SEASICK

The hidden ecological crisis of the global ocean Alanna Mitchell

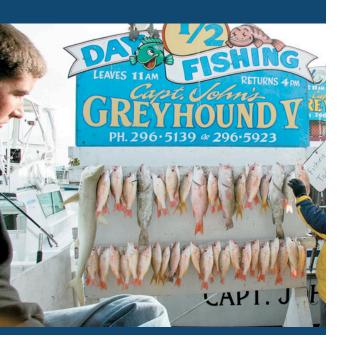




Shifting Baseline











Marine Protected Areas: Part of the Solution



The WCPA - Marine Plan of Action



Working together to secure a global, representative system of effective and lasting networks of marine protected areas

2006 - 2012

2006 initial consultation version

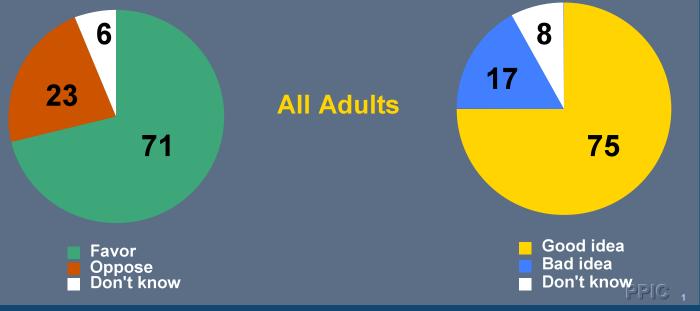




Public Support

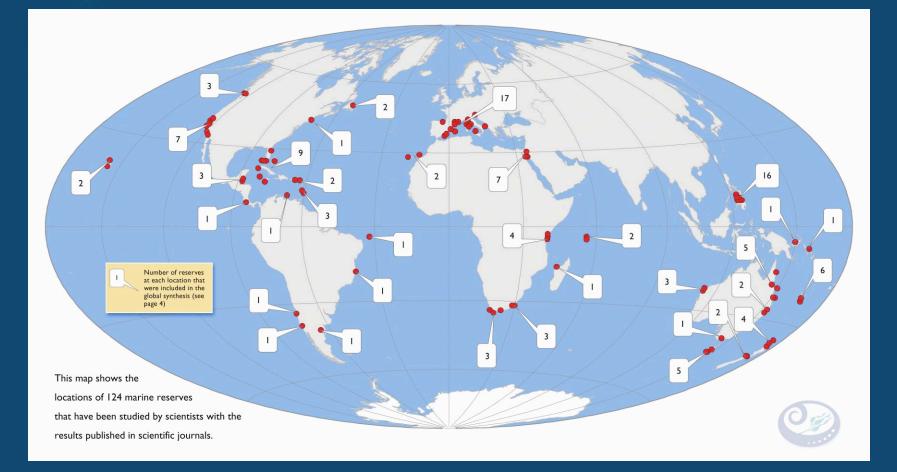
Marine Protected Areas

How about creating more marine reserves off the California coast, even if this means that some ocean areas will be off-limits to commercial and recreational fishing? Do you favor or oppose such an action? Do you think it is a good idea or a bad idea to create new Marine Protected Areas in about 10-20% of the ocean waters along California's coast?





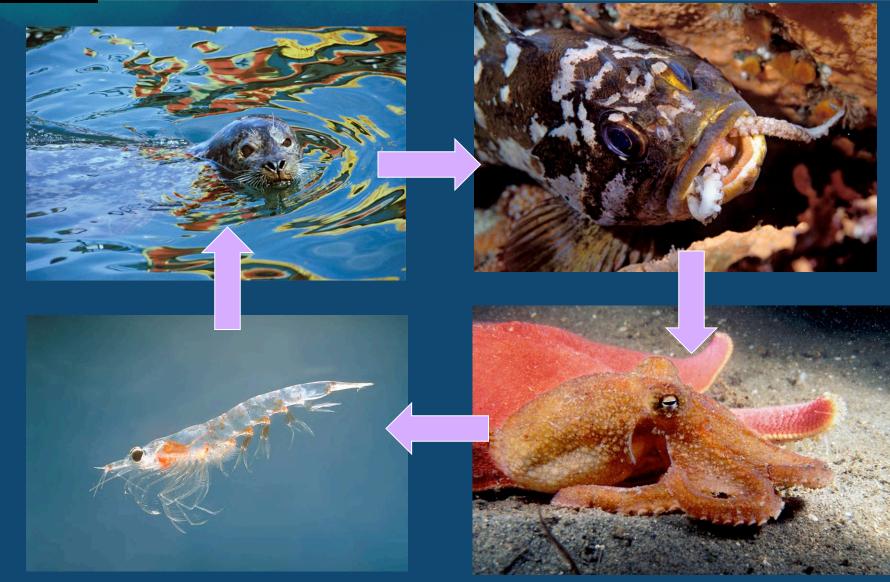
Marine Protected Areas around the World





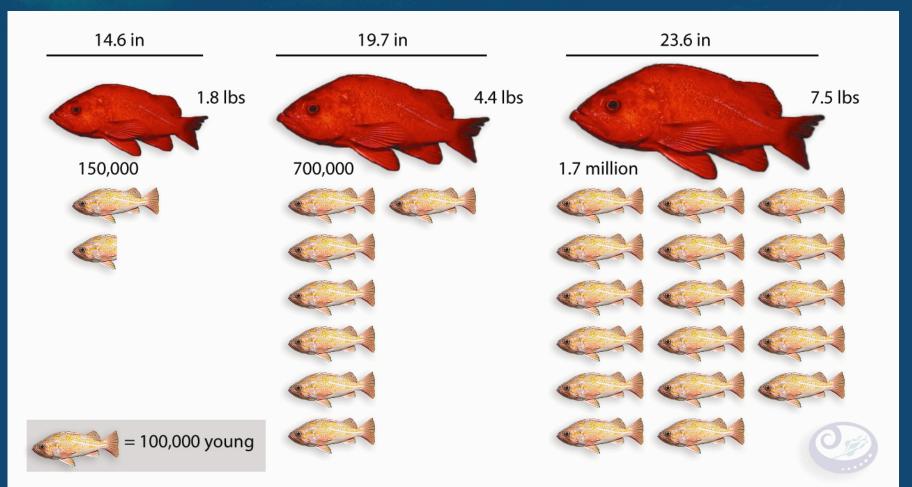


Protecting the Food Chain





Reserve Effects



Average numbers of young produced by three different sizes of vermilion rockfish. Data: Love et al. (1990) NOAA Technical Report



California's Marine Life Protection Act

•State law passed in 1999

•Mandates a statewide network of marine protected areas (MPAs)

•Purpose: ecosystem protection and habitat representation

 Reform 103 existing state MPAs: postage stamp reserves and paper parks



Statutory Requirements

Goals of the MLPA:

- 1. To protect the natural diversity and function of marine ecosystems.
- 2. To help sustain and restore marine life populations.
- 3. To improve recreational, educational and study opportunities in areas with minimal human disturbance.
- 4. To protect representative and unique marine life habitats.
- 5. Clear objectives, effective management, adequate enforcement, sound science.
- 6. To ensure MPAs are designed and managed as a network.



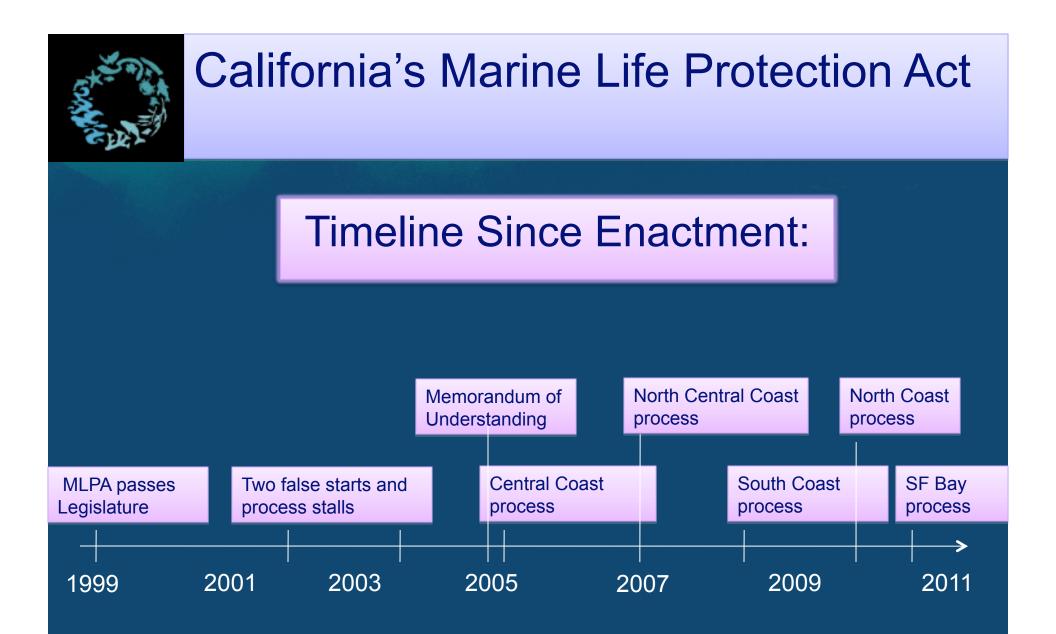
Marine Protected Areas in CA

Three Primary MPA Designations:

•State Marine Reserve (SMR): no take

•State Marine Park (SMP): allows or limits some recreational take; no commercial take

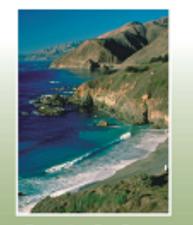
•State Marine Conservation Area (SMCA): allows or limits selected recreational and/or commercial take





The Marine Life Protection Act Initiative





Protecting Our Ocean CALIFORNIA'S ACTION STRATEGY

Final Report to Governor Ameld Schwarzweeger

Collectes Resources Renay and interest Discontents Production Agence

2004

MLPA Subregions

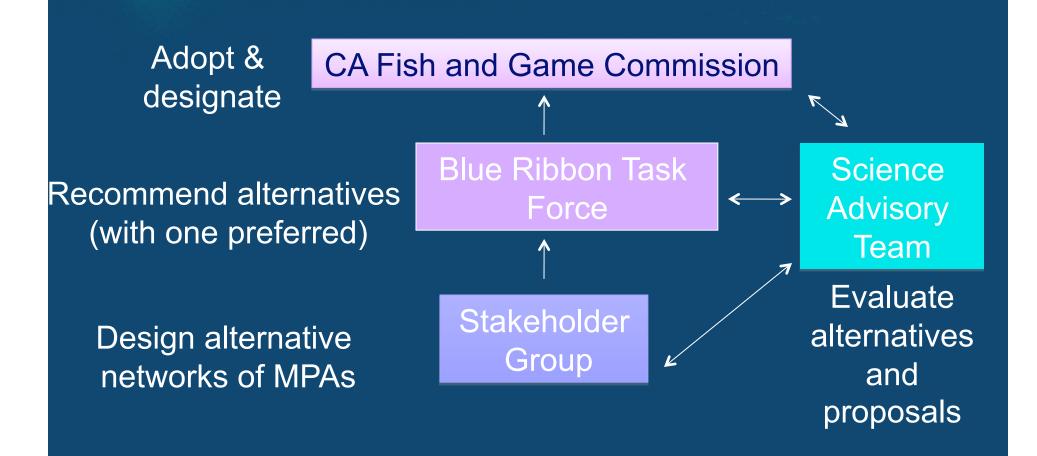
5 Subregions:

Central Coast
 North Central Coast
 South Coast
 North Coast
 San Francisco Bay





The Marine Life Protection Act Initiative





Regional Stakeholder Group











Science Guidelines:

- Size Guideline #1
 - "For an objective of protecting adult populations, based on adult neighborhood sizes and movement patterns, MPAs should have an alongshore span of 5-10 km (3-6 m or 2.5- 5.4 nm) of coastline, and preferably 10-20 km (6-12.5 m or 5.4-11 nm). Larger MPAs would be required to fully protect marine birds, mammals, and migratory fish."
- Size Guideline #2
 - "For an objective of protecting the diversity of species that live at different depths and to accommodate the movement of individuals to and from shallow nursery or spawning grounds to adult habitats offshore, MPAs should **extend** from the intertidal zone to deep waters offshore."
- Spacing Guideline
 - "For an objective of facilitating dispersal of important bottom-dwelling fish and invertebrate groups among MPAs, based on currently known scales of larval dispersal, MPAs should be placed within 50-100 km (31-62 m or 27-54 nm) of each other."

big enough

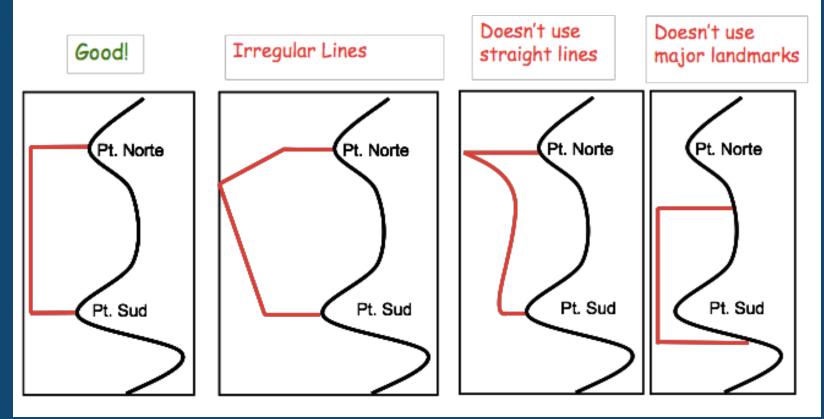
deep enough

close enough together



Feasibility and Enforcement Guidelines

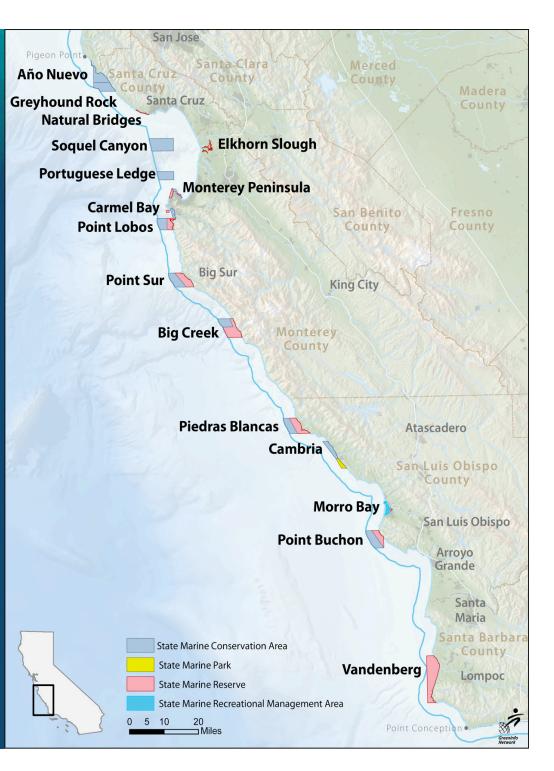
The following graphs illustrate some appropriate and inappropriate examples of boundary design:



Central Coast Subregion

MPA Regional Network Adopted April 2007 and Implemented September 2007:

•29 MPAs (18% of study region)
*15 state marine reserves (8%)
*11 state marine conservation areas
*2 state marine park
*1 state marine rec mgmt area





Carmel Bay and Point Lobos





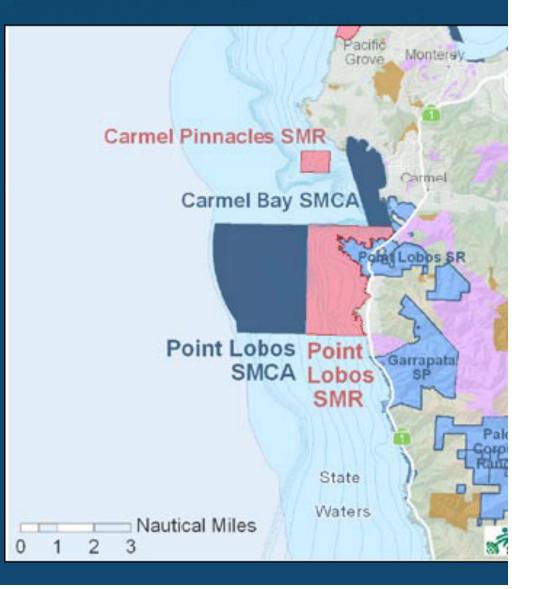
Carmel Bay and Point Lobos MPAs

Carmel Pinnacles SMR .53 sq miles No-take

Carmel Bay SMCA 2.12 sq miles Recreational finfish and kelp by hand.

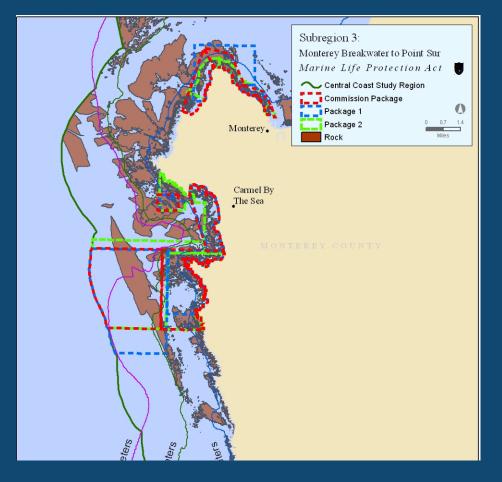
> Point Lobos SMR 5.36 sq miles No-take

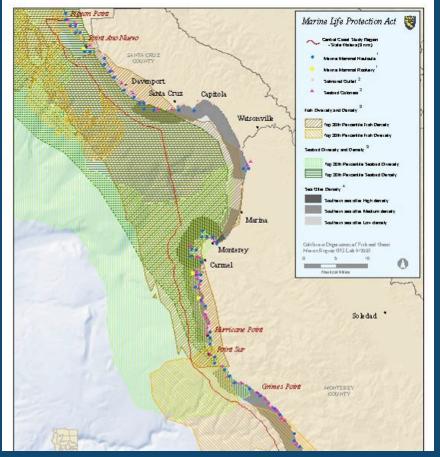
Point Lobos SMCA 8.85 sq miles Recreational and commercial salmon, albacore, and spot prawn.





Ecological Data







Point Lobos MPAs



Carmel Pinnacles SMR



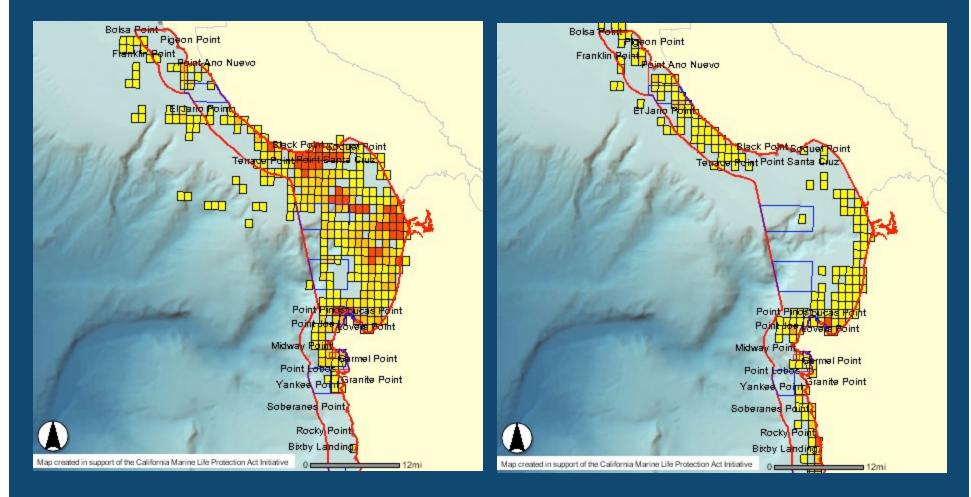
Carmel Bay SMCA

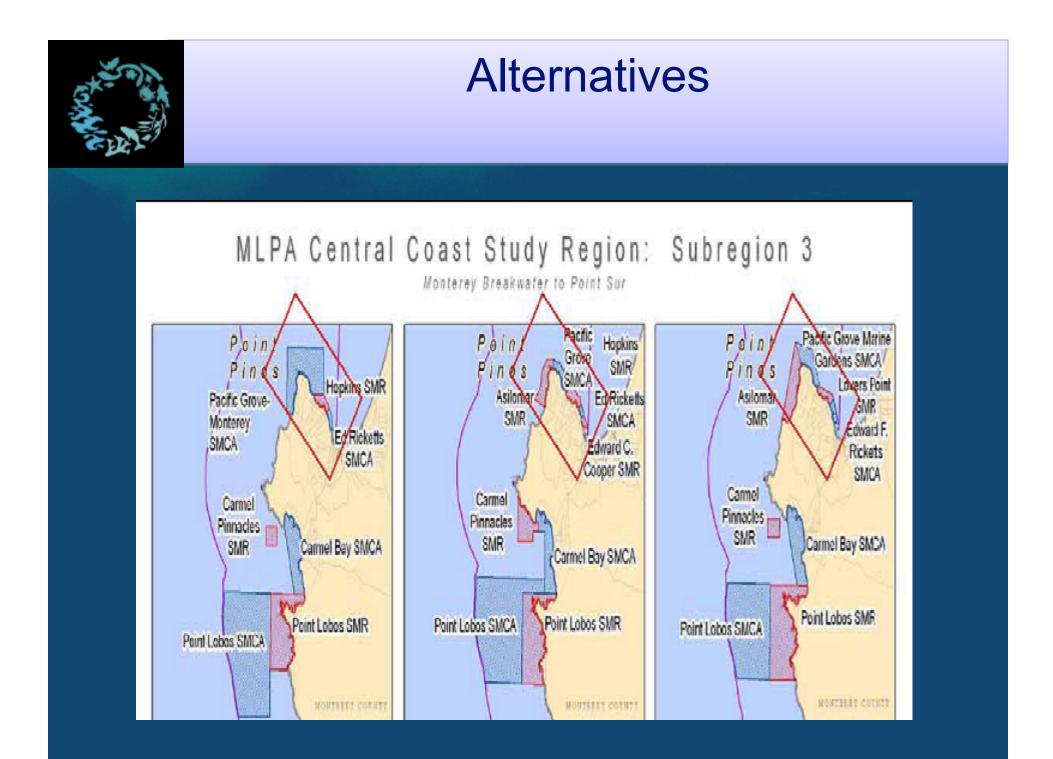


Fishing Data

California Recreational Fisheries Survey – 2004 (Source DFG)

Market Squid Catch Data – 2000-2005 (Source DFG)









San Francisco Chronicle

THE VOICE OF THE WEST

AUG 11,2006

It takes an ecosystem

LL TOO OFTEN, fisheries management in this country amounts to crisis intervention – a species declines to the point of extinction and draconian measures are taken to revive it. Just Thursday, the U.S. Department of Commerce declared a "commercial fishing failure" as a result of the decimated Chinook salmon numbers that caused a curtailment of the season along the California and Oregon coasts.

In that particular case, the main stresses on the salmon came from drought and the water problems in the Klamath River Basin. But the health of the ocean and pressure from commercial-fishing interests are often huge factors in the state of a species. The severely depleted rockfish population in California is a prime example.

In 1999, California created the Marine Life Protection Act, which was designed to establish a series of strateg-

ically located no-fishing reserves along the coast where fish could prosper and reproduce. Various scientific studies have suggested that the benefits of such protected zones — where the taking of fish, invertebrates, plants and other life forms would be banned — would extend for many miles along the coast.

But the science has also been clear that the size, location and spacing of those marine reserves are critical to their potential success. Scientists have generally recommended putting at least 20 percent of coastal waters in such reserves.



How the DFG plan affects the north central coast:



The California Fish and Game Commission is expected next week to consider the first network of marine reserves under the 1999 act covering 220 miles from Half Moon Bay to Santa Barbara.

The ocean is for all Californians

The question is wh mission will produce serve for a press re

healthy ocean. The Because the north central region Fish and Game appea of California is so full of marine posed the press-releas life, there is virtually no piece of ting aside a skimpy 8 coast that isn't somebody's favorite coastal waters as mar fishing spot, some birdwatcher's A more meaningf favorite place to look at common made by a coalition of murres or some stellar sea lion's faists, whose plan woul vorite place to pick up a date. er a larger area of oc What we learned from working percent - it would p together is that stakeholders had tensive protection for

> Herey Monterey MONTEREY COUNTY'S NEWSPAPER

The Herald's View

February 24, 2006

A new survey by the Public Policy Institute of California found that a remarkable 87 percent of Californians will give strong weight to the environment and the coast when they next vote for governor and senator...

Seven out of 10 residents agree with plans to create more marine reserves, a view shared by Democrats and Republicans...

The bottom line: Even in a state as diverse as California, there is common ground. It's on the coast.

SAMANTHA**murray** Josh**churchman**

Samantha Murray is a diver and conservationist with Ocean Conservancy in San Francisco. Just Churchman is e commercial and recreational listerman from Bolinas. They both served on the north central coast regional stakeholder group on marine protected areas.

aside areas of the ocean to ensure protection in the longterm can have impacts on ocean users today. That is why it has been so impurtant to make sure overyone has a seat at the table in designing California's marine protected areas. This week, the governor's Blue Bibles These Boxenities and the second

appearances on crabbing boats and taking trips to hidden campgrounds you never knew existed, this common ground effort — dubbed Proposal "1-3" because it draws from stakeholder workgroups 1 and 3 is supported by several commercial fishermon, charter boat operators, recreational fishermen, conservationists and divers from Mendocino to San Mateo. And we're proud to say we had a hand in it.

Nobody got sverything they wanted. Yet all sides ended up sayling they could live with the compromise. Not a bad outcome when you consider how diverse the group was, how many people had to find common ground and how elusive that z_i common ground and he. In the end it is about doing the best we can to leave something lasting for future generations. And taking a risk to seek that common ground together. We've come a how way in seel

We've come a long way in realizing that we all have a stake in the cocan's health. The Blue Ribbon Task Force should honor the compromises both sides have made, and recommend an alternative to the Californis Fish and Game Commission that works for both fishermen and conservationists.

This compromise is called "1-3" and it truly is the middle ground. This balanced proposal is the best avenus all Californians have for a healthy, thriving ocean.

Find out more about the three different proposals for marine protected areas at www. ofg.ce.gov/mips/nccrsg-proposals.asp





Education and Outreach



Another World Beneath the Waves

Life in the Kelp Forest

The spectacular landscape around you is just part of what makes Point Lobos State Reserve so special. Beneath the waves is another world of kelp forest and rocky reefs unique to California's Central Coast. Giant kelp grows up to 20 inches a day and to 90 feet high, forming an undersea forest. Kelp forests have a greater yield in production per acre than any plant community on earth. This forest feeds and shelters a rich variety of marine life, including sea otters and other marine mammals, fish, invertebrates, and seabirds. Point Lobos State Reserve offers us a glimpse into their magnificent world.









FINAL PROOF

Protecting Precious Places

At shore's edge begins an underwater reserve, the nation's first, created in 1960. In 2007, the original 775 acres of no-take State Marine Reserve (SMR) grew to 2,349 acres. At the same time, a State Marine Conservation Area (SMCA) of 7.558 acres was created at Carmel Bay. California's network of Marine Protected Areas (MPAs) is designed to

The Point Lobos MPAs lie within the federally protected Monterey Bay National Marine Sanctuary, an area stretching 300 miles from north of the Golden Gate Bridge south to Cambria, There are several National Marine anctuaries along California's coast.



ecosystem

restore and protect our precious marine

ta (ma Santa Barbara



DOING THINGS DIFFERENTLY

We can't stop climate change. It's already happening. However, we can minimize its impacts. There are steps we can take to protect a diversity of habitats, wildlife. and human settlements from being damaged.





North Central Coast Subregion

"Preferred" Alternative:

•22 MPAs (20% of study region)
*11 state marine reserves (11%)
*9 state marine conservation areas
*2 state marine parks
*2 state marine recreational management areas
*6 special closures

•MPA network expected to be adopted August 2009





Thank you!