

AFTER ADOPTION: LESSONS LEARNED FROM CALIFORNIA

Presentation for the
IUCN World Parks Congress
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Ocean Conservancy





Point Reyes National Seashore
by Kip Evans





Copyright 1906
By Charles Johnson

Wt. 428 lbs
Time 57 min

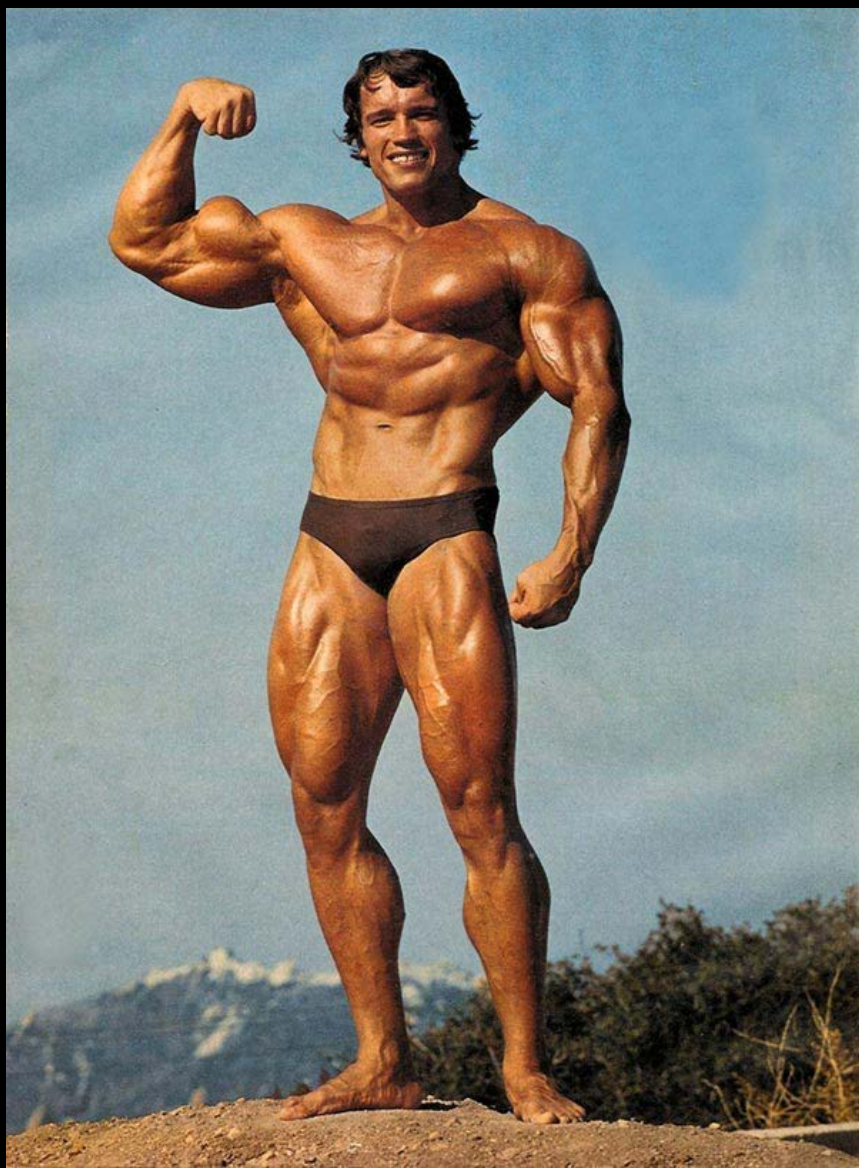
The World's Record Black Scabbard
Caught by John I. Perkins at Catalina Is.
July 9th 1906.

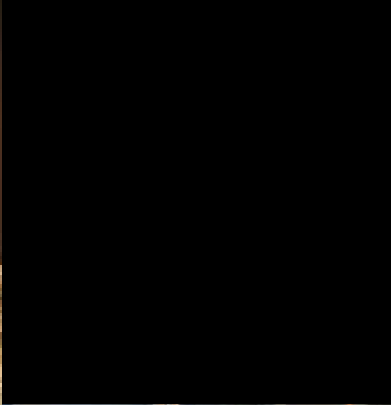
Geo. Farnsworth - 307 Main



MARINE LIFE PROTECTION ACT (1999): GOALS

1. Protect **natural diversity** and function of marine ecosystems.
2. Sustain and **restore marine life populations**.
3. Improve recreational, educational and study opportunities.
4. **Protect** representative and unique marine life **habitats**.
5. Clear objectives, effective management, adequate enforcement, **sound science**.
6. Ensure MPAs are **designed and managed as a network**.





- 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.”

- 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.”

- 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.**”

33° 46.475', -119° 17.373'



Data Layers

Name	Category
<input checked="" type="checkbox"/> Predicted Substrate	Habitat

Description: Predicted Substrate

- Hard
- Soft
- Unknown

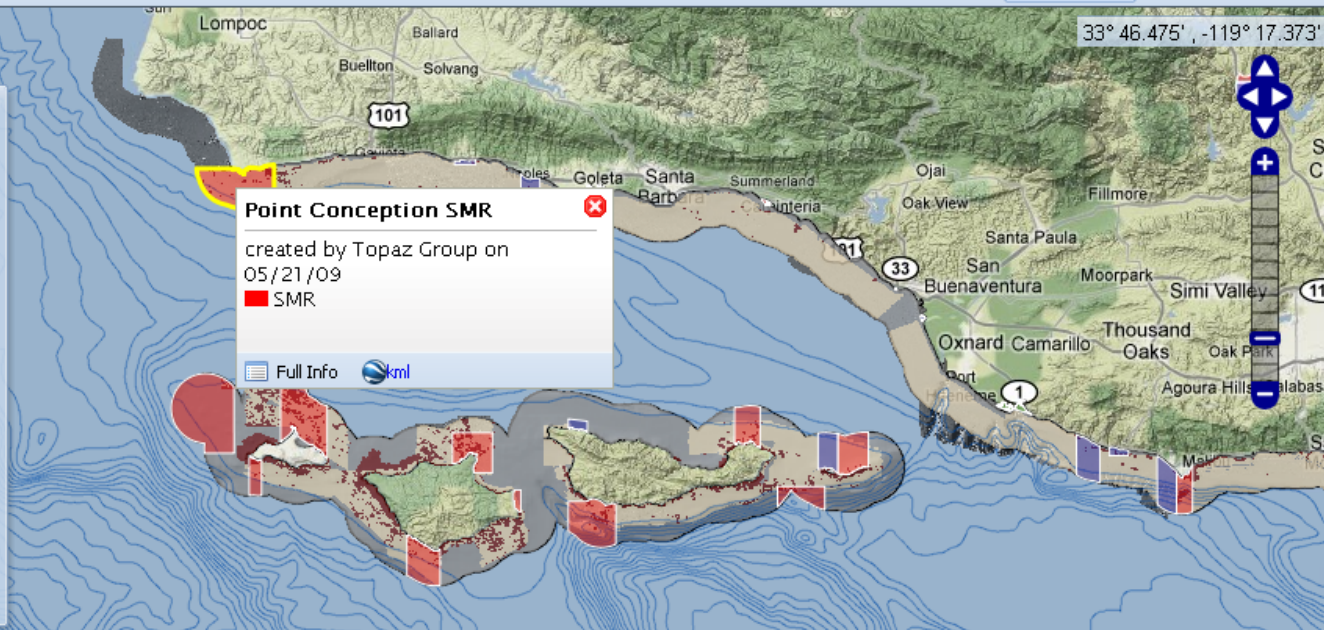
Metadata: Fine-scale substrate data displayed on this map represent a union of data collected by Seafloor Mapping Lab at California State University Monterey Bay, United States Geological Survey (USGS), Ocean Imaging, and the San Diego Association of Governments (SANDAG). Most datasets included in the fine scale substrate layer are derived from various sources.

Point Conception SMR

created by Topaz Group on 05/21/09

SMR

Full Info kml



Habitat Representation

This histogram shows how much habitat your MPA has captured. Use the data layers to visualize how you can make changes in your MPA geometry that affect these numbers.

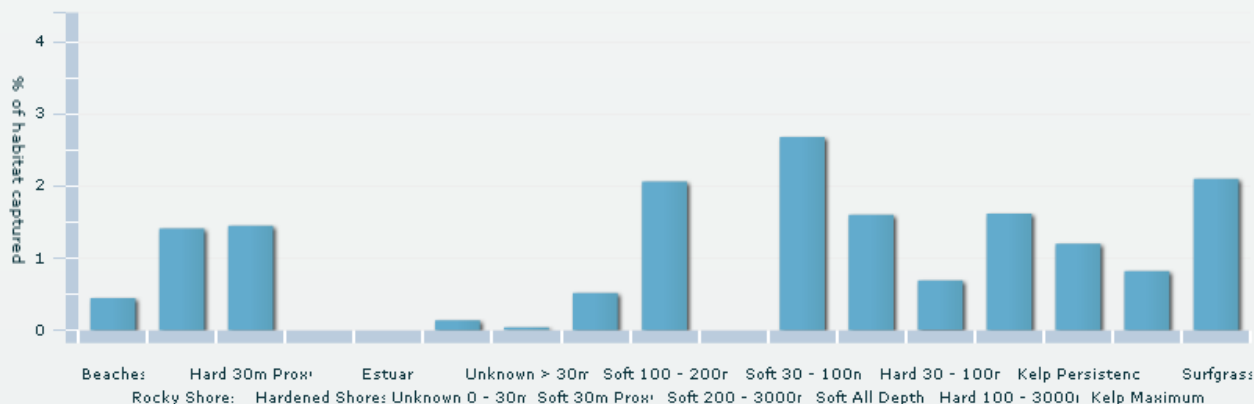


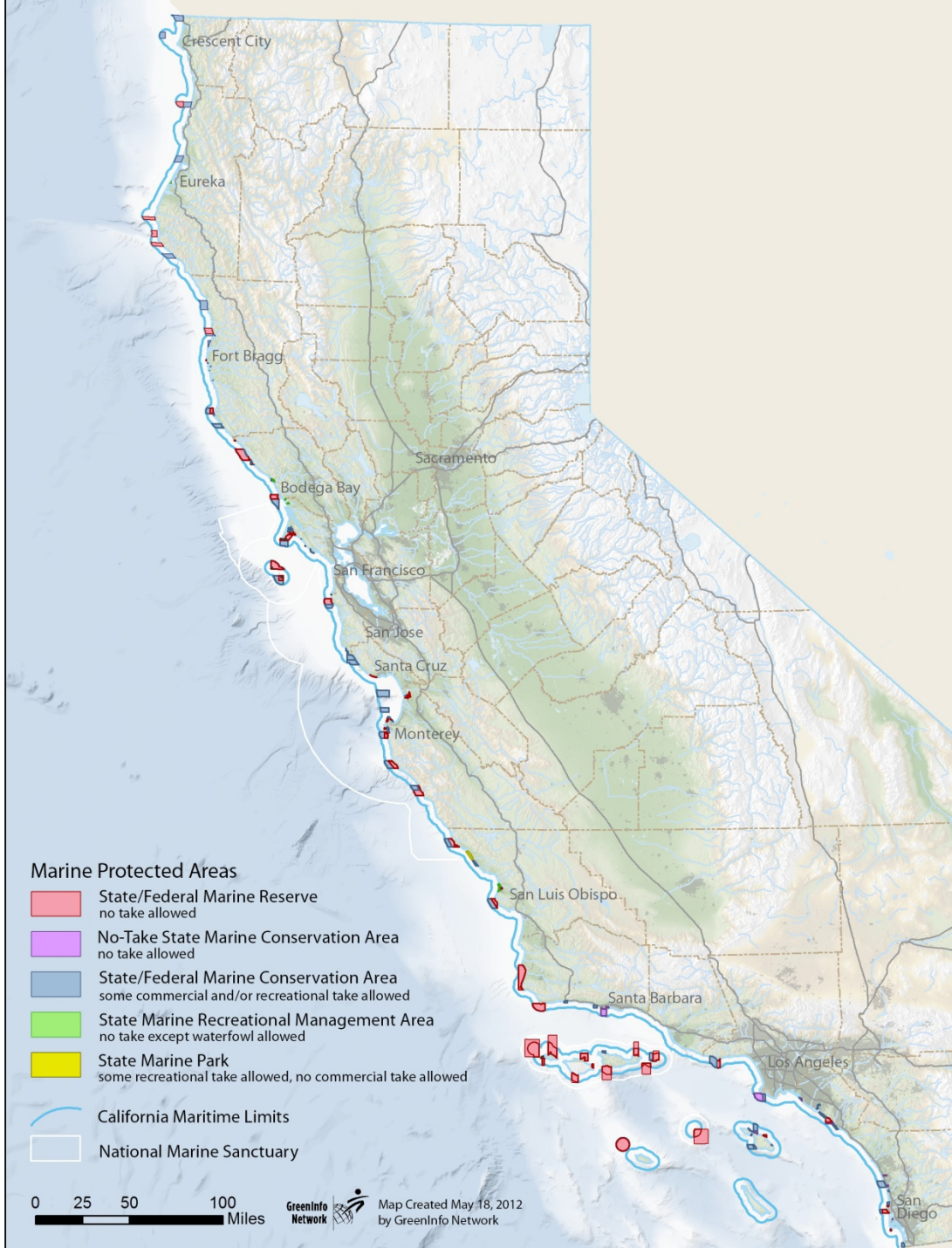
Chart Data

MPA DESIGN AND ADOPTION: CHALLENGES



Duxbury Reef
by Kip Evans





MPA DESIGN AND ADOPTION: HALLMARKS OF SUCCESS

1. Strong **legislation** with focus on conservation
2. High ranking **ocean champions**
3. Inclusive **stakeholder** process
4. Clear **science** guidelines
5. Geospatial **data**



Conserving California's Coastal Treasures

MPA Regulations

100% Bodega Head State Marine Reserve (SMR)
Ban of all fishing, marine resource collection, and other activities.

75% Bodega Head State Marine Conservation Area (SMCA)
Ban of all fishing, marine resource collection, and other activities. The recreational value of the area is maintained. Commercial fishing is allowed, but with strict limits on gear and effort. Commercial fishing is allowed, but with strict limits on gear and effort.

Marine Protected Areas Safeguard Our Ocean's Bounty

A statewide network of Marine Protected Areas (MPAs) safeguards California's rich coastal resources. The Bodega Head MPAs include kelp forests, offshore ginsacres, rocky reefs and tidepools. Sonoma Coast State Park stretches along 17 miles of coastal bluffs and beaches. By protecting land and sea, the flow of life between marine, freshwater and land habitats is conserved. This scenic area offers many opportunities for recreation and research.

California leads the nation and the world with its network of MPAs.

These MPAs—

- Have varying levels of protection
- Conserve marine habitats and diversity
- Allow marine life to thrive
- Make great places for education, research, and fun

MPAs— Good for the Ocean, Good for You!

Thousands of people enjoy fishing, hiking and picnicking along the rugged coastline and nearby.

Scientists study kelp forests, water quality, and the health of the ocean's ecosystems.

Water birds rely on the protected areas for nesting, feeding, and resting.

Whales and other marine mammals feed in the rich waters here.

To report violations call 1-888-DFG-CALTIP
WWW.DFG.CA.GOV/MPAs for detailed maps and regulations.



FINAL PROOF
APPROVED _____ DATE _____

Cultural History

Chumash Culture Thrived

The Northern Chumash have occupied the Pecho Coast for thousands of years. They used plants and animals from the land and the sea for food, medicine and raw materials. Chumash fished these waters with nets, spears, harpoons and

fine hooks fashioned from shell and bone. They traveled inland to hunt for game and harvest nuts and seeds. Their knowledge of the environment enabled them to prepare for seasonal changes and know where to find food.

Fish hook carved from shell

Chumash people today are active partners in the stewardship of regional cultural resources.

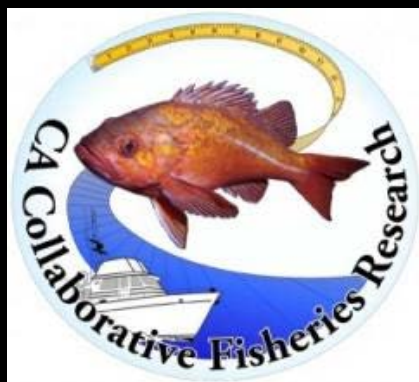
The ancient legacy found in archaeological sites is fragile, non-renewable and of great value.

Please respect the land by leaving all plants, natural objects and artifacts as you find them.

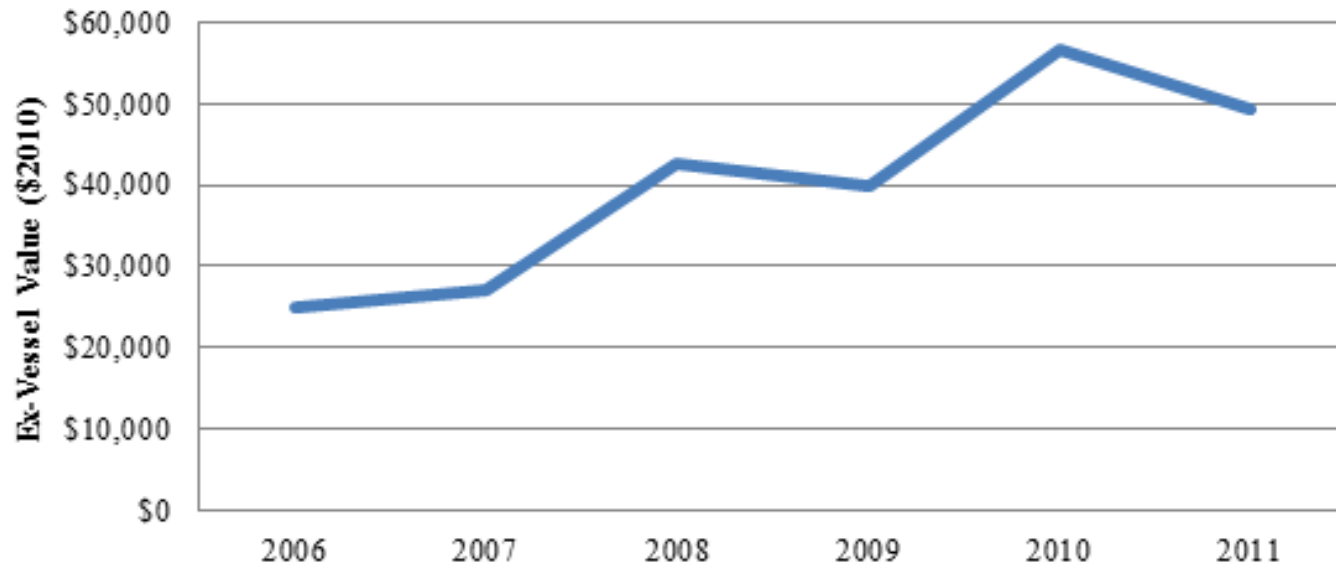
Łqsag yakkinit' anin'ı qulqsmu
Translation: All life is a gift.

Hand woven baskets were used in all aspects of Chumash life.





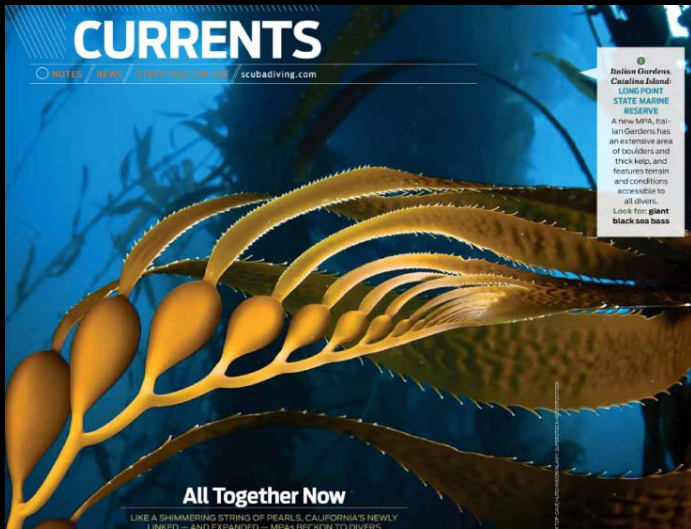
Average Ex-Vessel Revenue per Fisherman in the Central Coast from 2006 to 2011



Source: Department of Fish and Wildlife Commercial Landings Data







MPA IMPLEMENTATION: HALLMARKS OF SUCCESS

1. Informed **users**
2. Leveraged resources for **enforcement**
3. Engaged **volunteers**
4. Leveraged resources for **monitoring**
5. MPAs integrated into **future coastal and ocean management** decisions
6. Engaged **tourism and recreation** audiences (because MPAs are fun!)

THANK YOU!



Questions?

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