



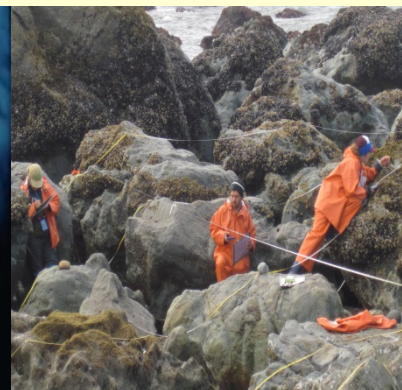
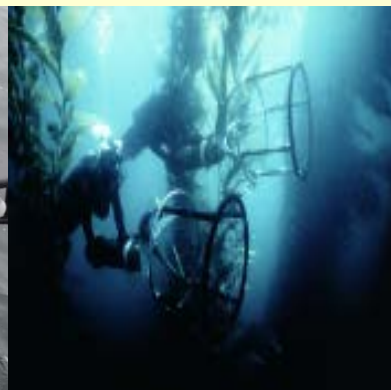
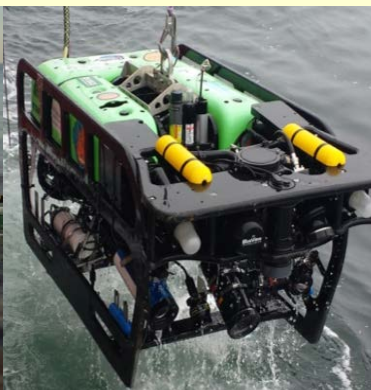
# National System of Marine Protected Areas Workgroup – Virtual Meeting

## California's Marine Protected Areas Implementation of Monitoring Activities

**Stephen Wertz**

California Department of Fish and Wildlife

*October 17, 2016*





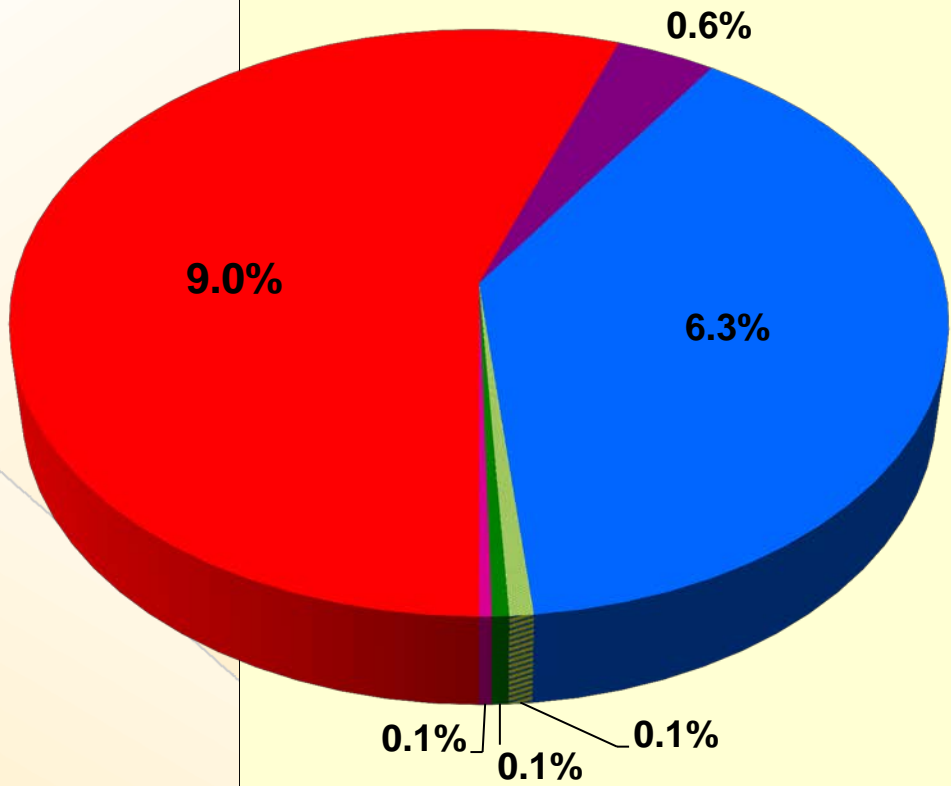
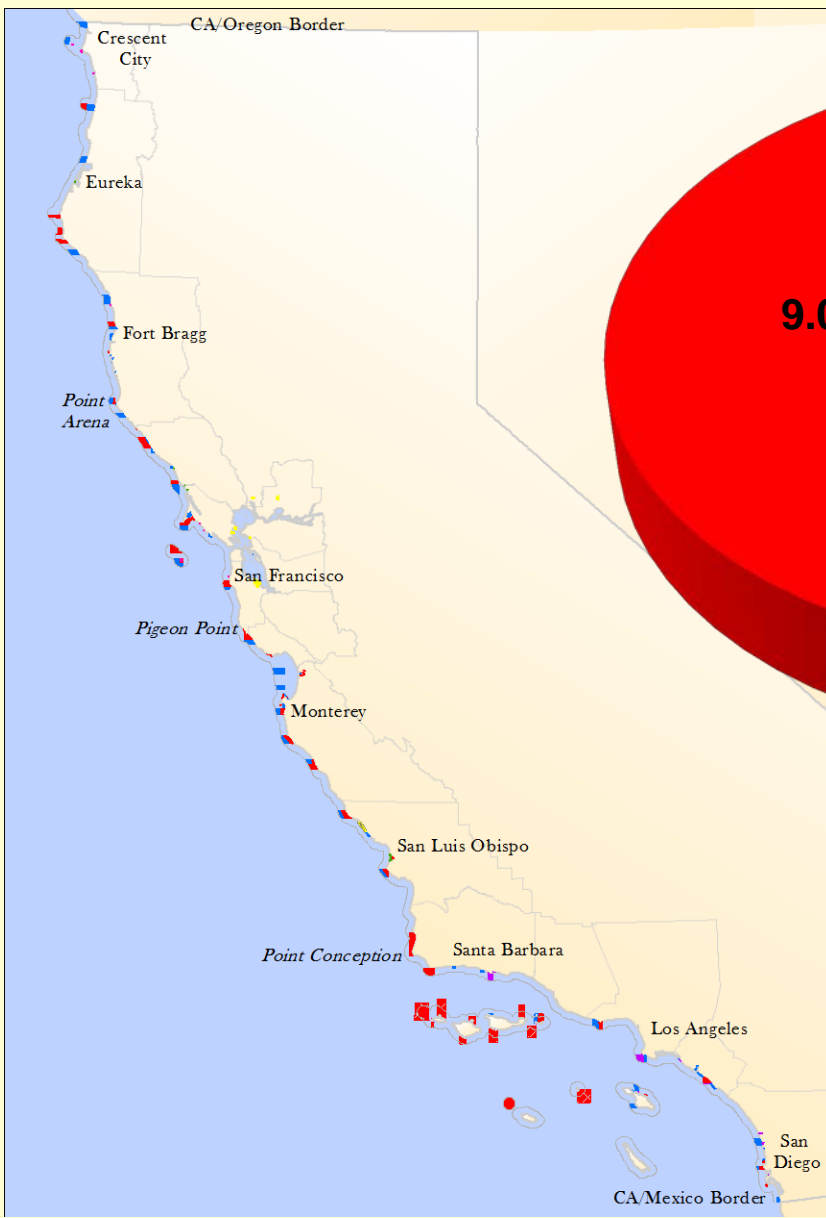
# Presentation Topics







- California's Marine Protected Area (MPA) Network
- MPA Management Program
- Statewide MPA Monitoring Program





# California's MPA Network



-  State Marine Reserve
-  State Marine Conservation Area (SMCA)
-  SMCA (No-Take)
-  SMCA / State Marine Park
-  State Marine Recreational Management Area
-  Special Closures



# California's MPA Network

## Marine Life Protection Act Goals and Requirements:

- Protect biodiversity, habitats, and ecosystems
- Improve recreational and educational opportunities
- Ensure MPAs managed as a network
- Requires monitoring and evaluation
- Adaptive management





# MPA Management Program



Outreach and Education



Research and Monitoring



Enforcement and Compliance



Policy and Permitting



# MPA Management Program

## Statewide MPA Leadership Team



CALIFORNIA  
OCEAN  
SCIENCE  
TRUST



CALIFORNIA  
COASTAL  
COMMISSION



CALIFORNIA STATE  
LANDS  
COMMISSION





# MPA Management Program

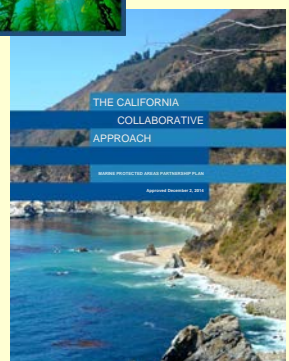
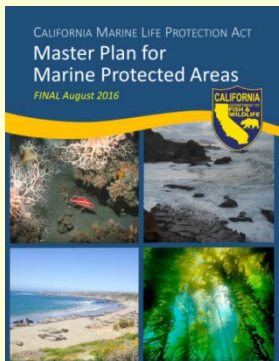
## Funding Sources

- Voter approved bond funds
- Ongoing appropriation of general funds
- CDFW and other agency annual budgets
- Once-through cooling compliance interim program fees
- Other one-time settlement fees



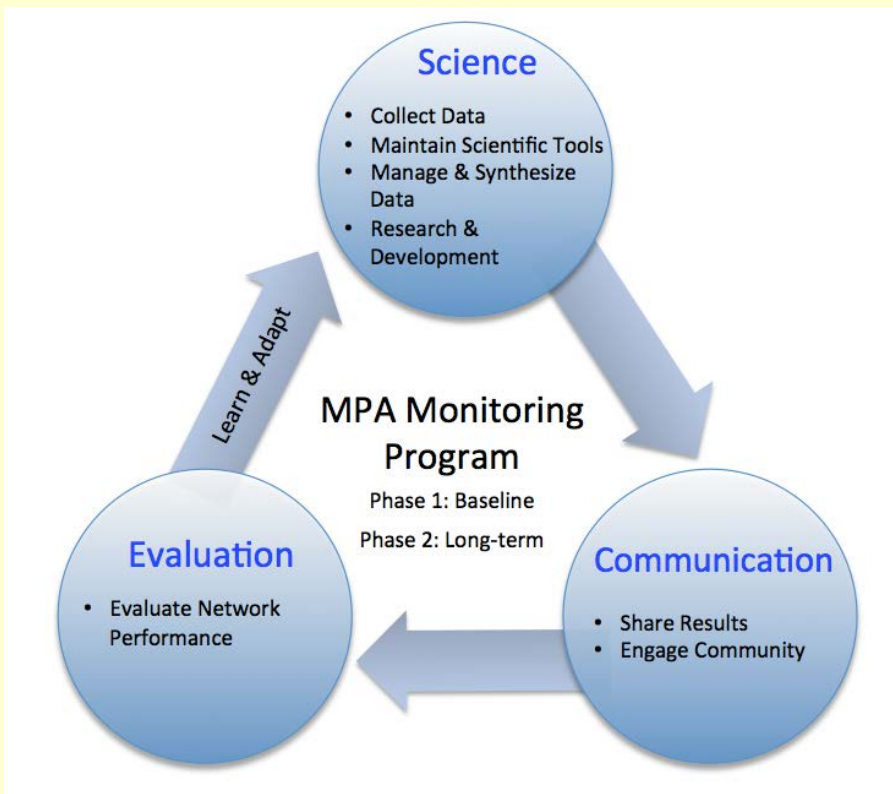


# Statewide MPA Monitoring Program



Baseline Monitoring (\$16M)

Long Term Monitoring (\$2.5M)







# Statewide MPA Monitoring Program

## Phase 1: Baseline Monitoring (2007 – 2018)

### DATA COLLECTION & ANALYSIS

10  
Ecosystem  
Features



CONSUMPTIVE  
USES



NON-CONSUMPTIVE  
USES



MID-DEPTH  
ROCKY  
ECOSYSTEMS



ROCKY  
INTERTIDAL  
ECOSYSTEMS



KELP &  
SHALLOW ROCK  
ECOSYSTEMS



ESTUARINE &  
WETLAND  
ECOSYSTEMS



SOFT BOTTOM  
INTERTIDAL & BEACH  
ECOSYSTEMS



SOFT BOTTOM  
SUBTIDAL  
ECOSYSTEMS



DEEP  
ECOSYSTEMS &  
CANYONS



NEARSHORE  
PELAGIC  
ECOSYSTEMS

Coastal Region	Fund projects	Collect data	Analyze data	Report results	5-year review
Central Coast	2007	2007	2008	2010	2013
North Central	2010	2011	2013	2014	2016
South Coast	2011	2012	2014	2015	2017
North Coast	2014	2016	2016	2017	2018



= completed



= underway



= ~ year complete



# Statewide MPA Monitoring Program

## Phase 2: Long-Term Monitoring (2016 & beyond)

- Develop Statewide MPA Monitoring Action Plan
- Hire three post-doctoral fellows
- Collect data in priority ecosystems
- Upgrade equipment and tools for data collection





# Questions?

**Stephen Wertz, CDFW**

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Ocean Protection Council: [www.opc.ca.gov/](http://www.opc.ca.gov/)

Ocean Science Trust: [www.oceansciencetrust.org](http://www.oceansciencetrust.org)

- **Acknowledgement**

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