Marine Protected Area Science, Assessment and Analysis: A Coordinated Effort on the US West Coast



West Coast Regional Coastal Management Meeting January 24, 2007

Sarah Fischer, Pacific Regional Coordinator Charles Wahle, Director, MPA Center Science Institute

Outline

- MPA Center Overview
- Goals and Scope of West Coast Pilot
- Core Components
- Agency Coordination

MPA Executive Order 13158

- MPA EO calls on NOAA and DOI to work with states and feds to establish a national system of MPAs
- MPA Center has published a draft framework for a national system for public comment until Feb 14
- West coast pilot tests many of processes and approaches in proposed in draft framework









What do we mean by 'MPA'?

"any area of the marine environment that has been reserved by Federal, State, territorial, tribal, or local laws or regulations to provide lasting protection for part or all of the natural and cultural resources therein."

-- Executive Order 13158

The West Coast Pilot: Goals and Scope



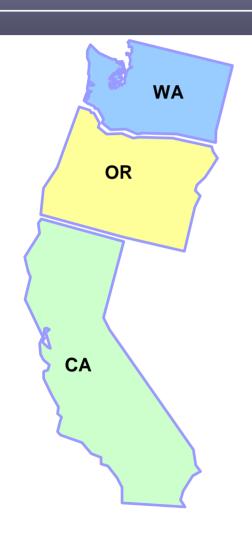
Goals

- To facilitate the effective use of MPAs as an ecosystem management tool to conserve and protect important marine areas and resources on the west coast
- To support the development of a regionallybased national system of MPAs

Geographic Scope

- From WA to CA
- Coastal and marine waters out to 200 miles

The West Coast Pilot: Results



Expected Results

- A <u>suite of tools, methods, and</u>
 <u>information</u> for regional MPA
 planning and adaptive management
 that may be transferred to other
 regions
- An ongoing <u>regional forum</u> for west coast state, federal and tribal programs to efficiently coordinate their management of existing MPAs and collaboratively plan future conservation efforts

Core Components

Ecological Characterization

Cultural Resource Characterization

Human Use Pattern Characterization

Impacts of Human Uses Assessment

Governance Synthesis

Contribution of Existing MMA/MPAs

Data Layers

Ecological Characterization

Science and Analysis: Ecological Characterization

Overview

 Provide the comprehensive natural resource data necessary to support an ecosystem approach for developing a regional system of MPAs on the west coast

Outputs

- Important places, processes and linkages identified
- Contact list for data sources

- Preliminary data sets collected
- New staff in October '06





Data Layers

Ecological Characterization

Cultural Resource Characterization

Science and Analysis: Cultural Resource Characterization

Overview

- Standardized inventory of marine cultural resources
- Assist with documenting their historical and cultural connectivity within regional ecosystems

Outputs

- Tools for assessing the historical and cultural connectivity of marine cultural resources
- Tools for identifying marine cultural resources that are sensitive to natural or human induced changes and gaps in protection

- Database built and populated
- Initial analysis underway



Photo: P



Photo: NOAA National Marine Sanctuary Program

Data Layers

Ecological Characterization

Cultural Resource Characterization

Human Use Pattern Characterization

Impacts of Human Uses Assessment

Science and Analysis: Human Use Patterns





Overview

- Document spatial patterns of use activities in the marine environment on the west coast
- Begin building the baseline socioeconomic information needed to inform regional MPA planning

Outputs

- Directory of available secondary data
- Models for predicting use compatibilities and resource threats
- Method for collecting primary data on use patterns

- Secondary data directory in review
- Initial mapping underway

Data Layers

Ecological Characterization

Cultural Resource Characterization

Human Use Pattern Characterization

Impacts of Human Uses Assessment

Governance Synthesis

Science and Analysis: Governance



Overview

- Understand the existing legal framework through which marine natural and cultural resources in the region are managed
- Develop a comprehensive overview of marine protected area (MPA) policy authorities at the international, federal, state, and tribal levels

Outputs

- Searchable database of existing legislation
- Geographic Information System (GIS) for west coast MPA laws

- Database built and populated, QA/QC underway
- Tagging for GIS in progress

Data Layers

Ecological Characterization

Cultural Resource Characterization

Human Use Pattern Characterization

Impacts of Human Uses Assessment

Governance Synthesis

Contribution of Existing MMA/MPAs

Science and Analysis Existing MMAs/MPAs

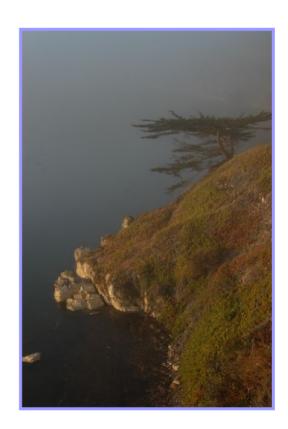
Overview

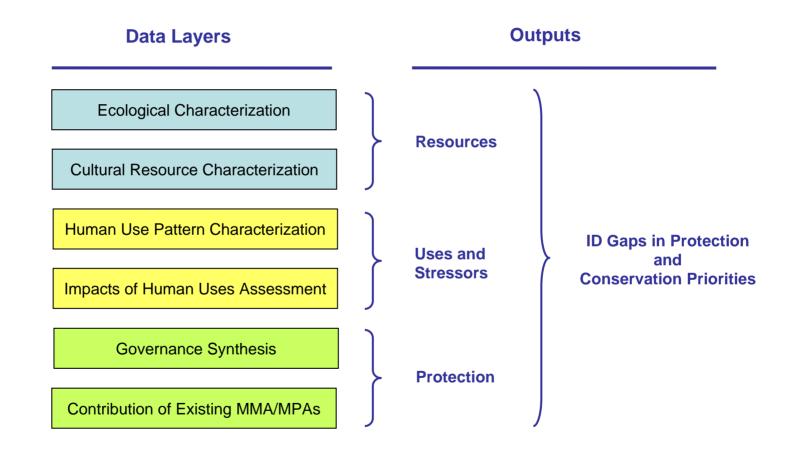
- Document the location, purpose and type of protection offered by existing MMAs and MPAs.
- Understand the potential contribution of existing MMAs/MPAs to regional and national conservational goals.
- Understand the potential effects of existing MMAs/MPAs on ocean users.

Outputs

- Reports describing patterns and implications of MPA usage on the west coast
- Web-based synthesis products and database

- National report available Nov. 06
- West coast report in review
- De Facto report in review





West Coast Pilot Applications and Users

Characterizations

Ecological

Cultural Resources

Human Use Patterns

Impacts of Human Uses

Governance

Existing MMAs / MPAs

Applications

Current MPAs – monitoring adaptive management

New MPAs - siting and design

Traditional fisheries management

Area-based fisheries management (e.g. EFH)

Ecosystem approaches to management

Ocean zoning and governance

Coastal Zone Management

Ocean observations

Emergency planning and response

Ocean industries

Military operations

Collaboration and Stakeholder Engagement

Work with federal, state, and tribal organizations to:

Near Term

- June 2006: kick-off meeting; potential data workshop in FY 2007
- Share information and develop project partnerships
- Establish steering group/committee

Long Term

- Identify and/or develop opportunities for stakeholder involvement
- Identify regional science, technical assistance and other stewardship priorities
- Identify opportunities for projects and activities to address priority needs

West Coast Gov't. Partners Meeting June 20 and 21, 2006

Goals: To create a shared <u>understanding</u> and craft a collaborative regional <u>roadmap</u>

Attendance: 37 tribal, federal and state government partners

Process:

- Context Setting
- Visioning
- Strategy

Outcomes:

- Regional Messages
- Characterizations
- Coordinated Management



MPA Center Contacts

West Coast Pilot Web Site:

mpa.gov/national_system/west-coast-pilot.html

Co-Leads:

Charlie Wahle, Director, MPA Center Science Institute charles.wahle@noaa.gov, 831-242-2052

Sarah Fischer, Pacific Regional Coordinator sarah.fischer@noaa.gov, 831-242-2054