

Goal 19 Ocean Resources

- "conserve marine resources and ecological functions for the purpose of providing long-term ecological, economic, and social value and benefits"
- "conserve marine resources and ecological functions for the purpose of providing long-term ecological, economic, and social values and benefits and to give higher priority to the protection of renewable marine resources--i.e., living marine organisms--than to the development of non-renewable ocean resources."

http://www.lcd.state.or.us/LCD/goals.shtml#Statewide_Planning_Goals

Goal 19 Ocean Resources Requires:

PROTECT:

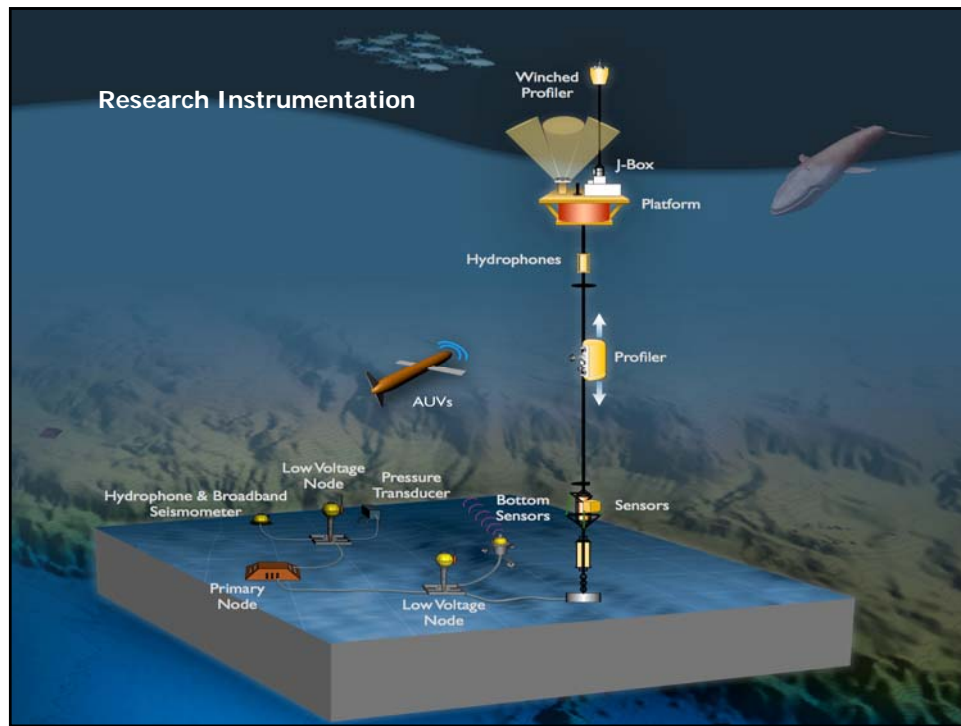
- Renewable Marine Resources - i.e. Living Marine Organisms
- Biological Diversity & Functional Integrity of Marine Ecosystem
- Important Marine Habitat
- Areas Important to Fisheries - commercial and recreational
- Beneficial Uses: Navigation, Recreation, Food Production, Aesthetic, Seafloor Uses.



Ecosystem Function and Diversity



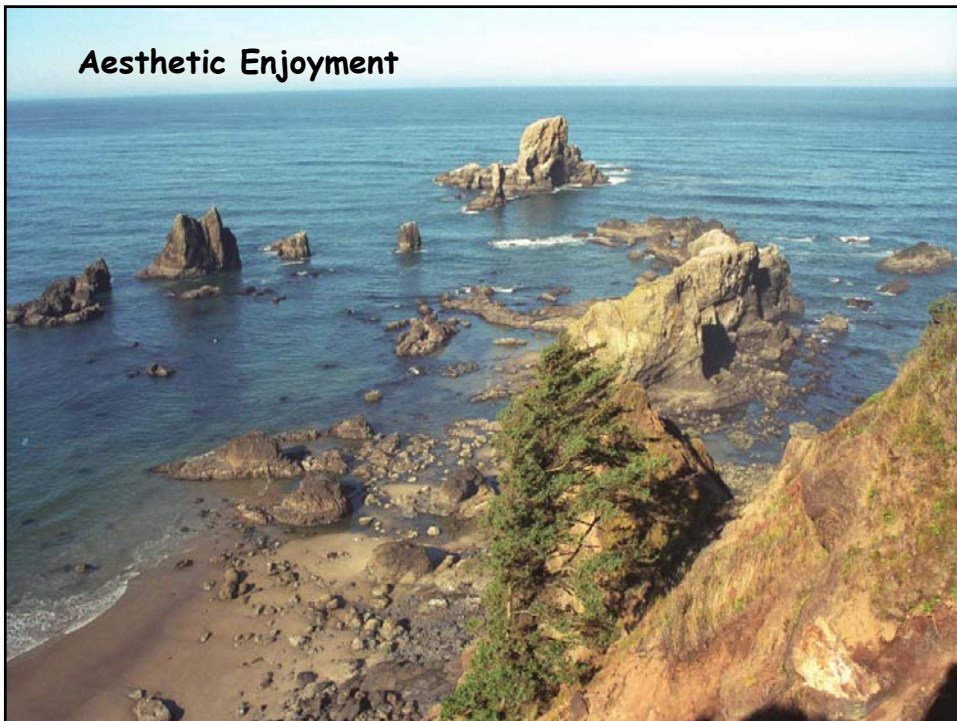




Recreation



Aesthetic Enjoyment



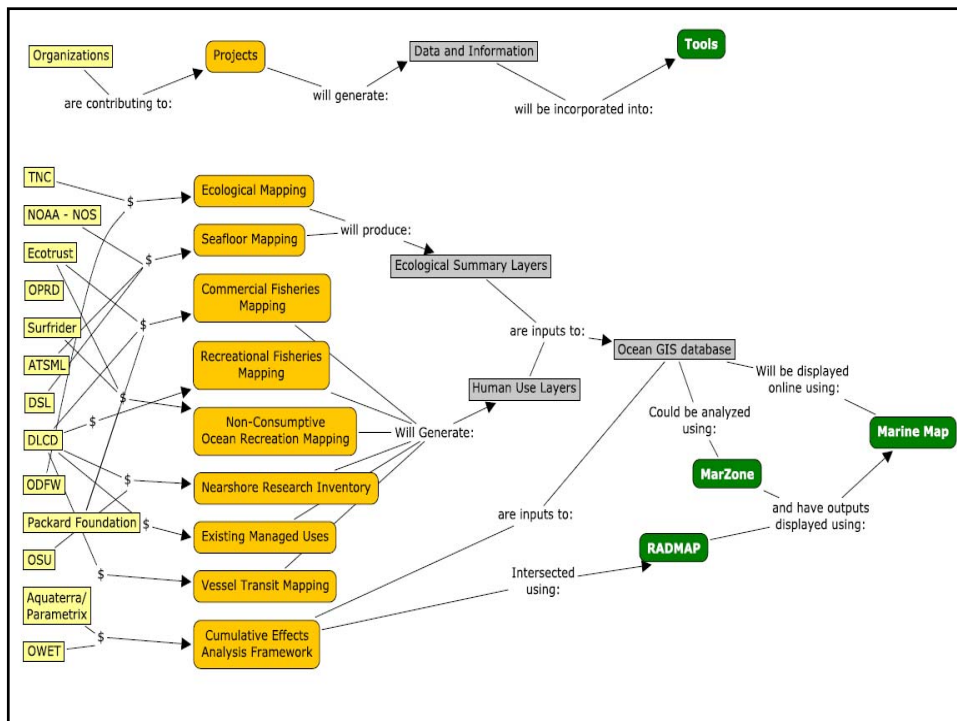
Oregon MSP

Amendment to Territorial Sea Plan

Phase 2. Spatial Analysis and Mapping

- Commercial and recreational fisheries data: extensive work with commercial fishermen through local advisory committees to map areas important to commercial fisheries (by Dec 2010)
- Ecological data: Oregon Dept Fish and Wildlife and The Nature Conservancy (by Mar 2011)
- Seafloor bathymetric and image data (by early 2011)
- Recreational ocean use: on-line surveys (by Sept. 2010)
- Other existing data on human use, resources, physical conditions, etc

Expected completion: Fall 2011



Technical Framework

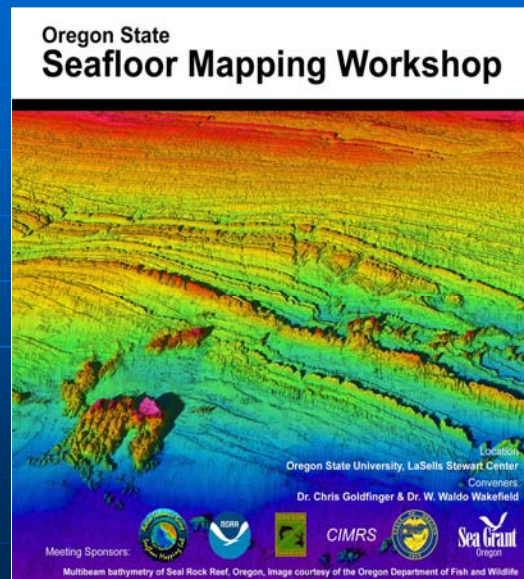
- **State agency authorities and programs**
Knowledgeable agencies with regulations and information
- **Science capacity at OSU/UO/ODFW**
Small community...good cooperation and collaboration
- **Technical partners**
Sea Grant, NOAA CSC, OSU Geosciences, Ecotrust
- **IT capacity within state CZM program**
Data management, web service, decision-support tools

Oregon MSP

Seafloor mapping of the Territorial Sea:

NOAA / Contractors
coordinated by Oregon State
University

- Seafloor mapping workshop
- Priority Areas Selected
- Field work completed 2010
- < 50% of the territorial sea

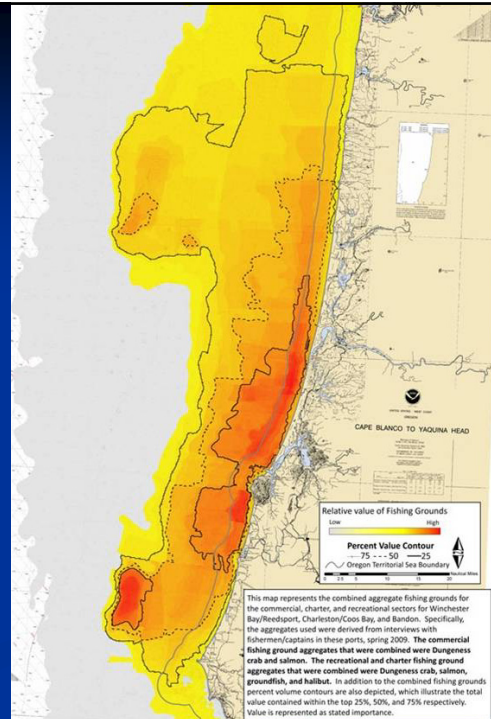


Example of new fishermen map product (2010)

Aggregated individual data for areas important to fishermen from:

- Coos Bay
- Charleston
- Bandon
- Reedsport

- * Data collection completed late fall 2010.
- * Total all ports:
244 commercial fishermen
63 charter boat operators
237 recreational fishermen.



Non-consumptive Ocean Recreation in Oregon:

Human Uses, Economic Impacts & Spatial Data



Submitted under a joint effort of the
Surfrider Foundation, NaturalEquity, and Ecotrust

March 3, 2011

Chris LaFranchi
Collin Daugherty
NaturalEquity



Oregon's Non-Consumptive Recreational Ocean User Community

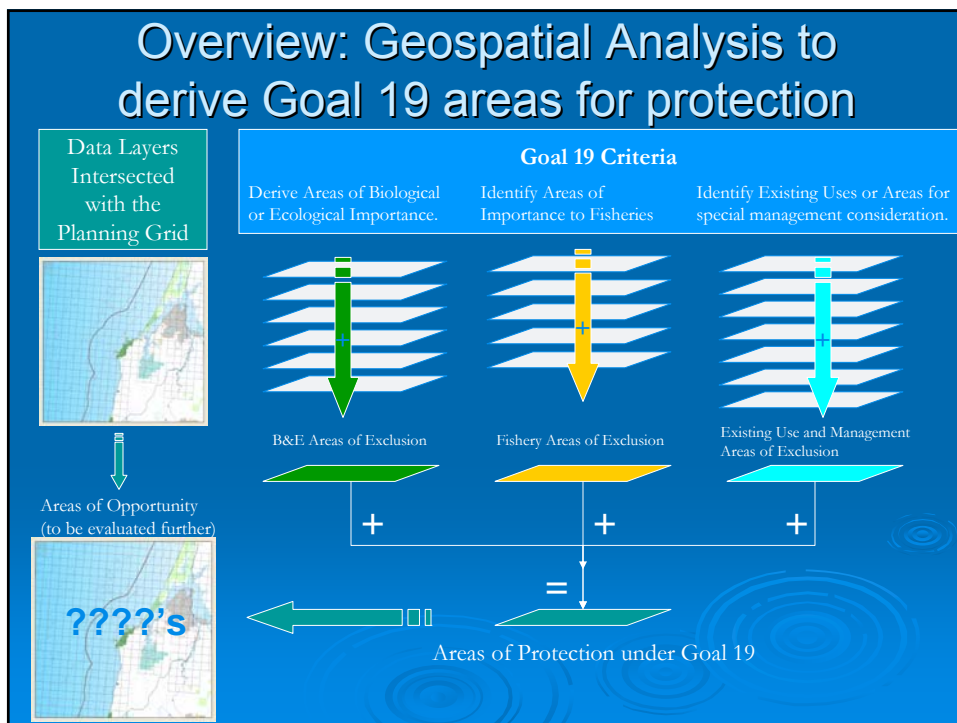
Understanding an ocean stakeholder



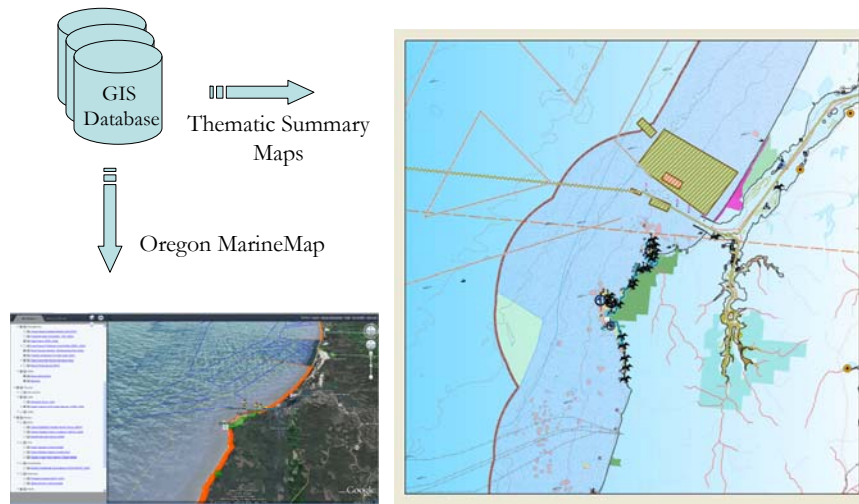
Christopher S. Eardley
Marine Resource Management Program, OSU

Flavien D. L. Conway
Oregon Sea Grant Extension



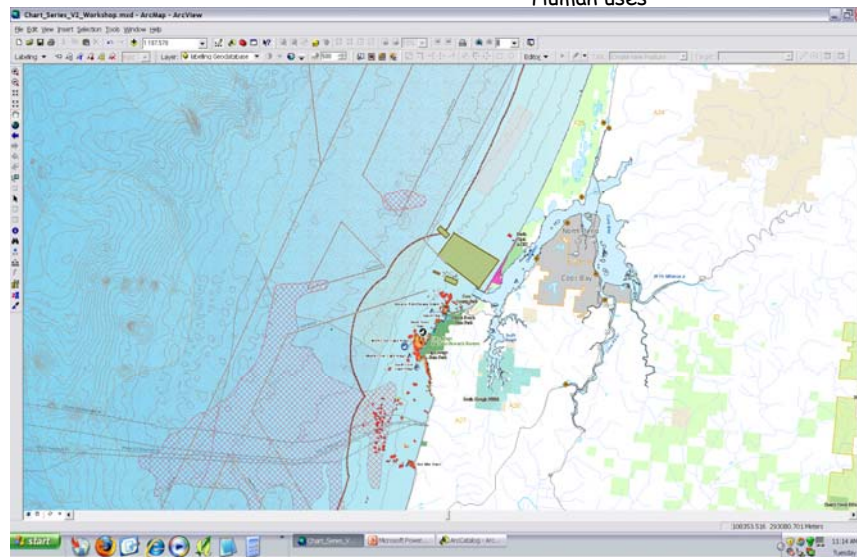


Data Layers collected and synthesized in support of the TSP Planning Process



Existing Data example

Jurisdictions
Physical characteristics
Biologic features
Human uses



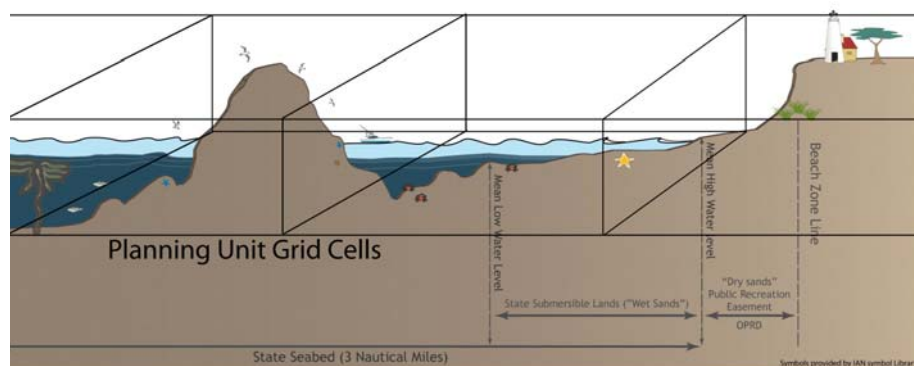


Oregon.MarineMap.org

Project Completed to fulfill requirements under House
Bill 3633, managed by DLCD and funded by ODFW
and OWET.

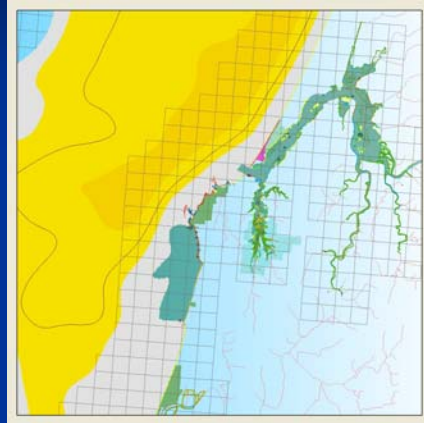


Oregon Territorial Sea - Example profile

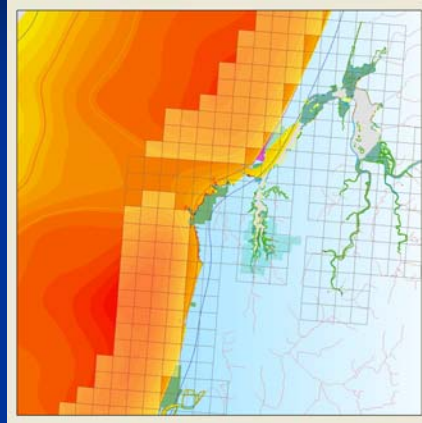


Fishery Areas for Goal 19 Protection

Florence Fishery Value Surface



SOORC Fishery Value Surface



Using Goal 19 criteria the TSPWG needs to move from the raw data products provided by the fishing industry to agreed upon areas of exclusion. Shown above is a selection based upon the intersection of all PGC's within the 25% value contour (for both Florence and SOORC). Industry will need to help guide us in this discussion.

Identify Existing Uses or Areas for Goal 19 Protection. (Examples)

Select All Planning Grid Cells (PGC's) that intersect an existing marine protected area



Select All Planning Grid Cells (PGC's) that intersect an Dredge Material Disposal Site



Select All Planning Grid Cells (PGC's) within 200m and Oregon Island NWR



Select All Planning Grid Cells (PGC's) that an Oregon State Parks Property



Report Fields - Example

I. Nearshore Habitats

- a. Geography
 - i. General Spatial Characteristics
 - Area
 - Perimeter
 - Intertidal
 - Islands
 - Percentage of Territorial Sea
 - ii. Geographic Setting
 - Adjacent County
 - County Shoreline Percentage
 - Nearest Incorporated Cities
 - Nearest Ports
- b. Physical
 - i. Intertidal Physical Characteristics
 - Length of Intertidal Shoreline
 - Percentage of Oregon Coast Shoreline
 - Shoreline Types and Proportions
 - Number of Islands
 - Total Island Area
 - ii. Subtidal Physical Characteristics
 - Subtidal Area
 - Percentage Shallow and Deep
 - Seafloor Lithology
 - Average Depth
 - Minimum Depth
 - Max Depth
 - Proximity to Shore
- c. Biology
 - i. Terrestrial Biological Characteristics
 - Nearest Western Snowy Plover Critical Habitat
 - Nearest Marbled Murrelet Critical Habitat
 - ii. Intertidal Biological Characteristics
 - Number of Pinniped Haulouts
 - Number of Stellar Sea Lion Rookeries
 - Name and Type of Pinniped Haulout
 - Stellar Sea Lion Critical Habitats
 - Number of Bird Colonies
 - Bird Colony Name and Associated Species
 - iii. Subtidal Biological Characteristics
 - Habitat Type and Proportions
 - Predicted Fish Species
 - Nearest Coho Populated Stream
 - Kelp Survey Year and Proportion of Kelp Captured
 - Presence and amount of Seagrass
- d. Human
 - i. Community & Recreational Considerations
 - Nearest State Parks
 - Nearest Public Access Sites
 - Nearest Rocky Shore Areas
 - ii. Transportation & Infrastructure Considerations
 - Dredge Materials Disposal Sites
 - Nearest (non-intersecting) DMD Site
 - NPDES Outfall Sites
 - Nearest (non-intersecting) Outfall Site
 - Undersea Cable Routes
 - Nearest (non-intersecting) Cable Route
 - iii. Fishery Considerations
 - Proximity to Ports
 - Nearest Marinas
 - Nearest Managed Areas
 - Nearest (non-intersecting) MMAs
 - ODFW Closures
 - Nearest (non-intersecting) ODFW Closure
 - EFH Conservation Areas

