

2012 OCNMS Data Management Report
to the
Advisory Council Data Management Working Group
Nancy Wright
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Background

Data management, sharing and reporting is a key component of the Olympic Coast National Marine Sanctuary (OCNMS) 2011 Management Plan. The goal of the Data Management Action Plan is to improve OCNMS's ability to collect and share its data in a timely manner with its partners and the public. To support this goal, the AC created a Data Management Working Group to establish data mining priorities for historic data and guide the sanctuary in creating a life-cycle data management process. In 2011 the Data Management process included the creation of the life-cycle process and the release of a new OCNMS web page to serve the data and other relevant types of scientific information.

2012 Progress Report

The goal for the 2012 Data Management team at OCNMS was to post all relevant historical data and/or scientific information on the OCNMS web page. Although the data has been mined and catalogued, the involved process of writing and editing data summaries, adding photos, and coding the information for live web service proved challenging given the limited staff time (15% for me and <5% for one part-time contractor) allocated for data management. Nevertheless, significant progress was made in 2012 toward the goal of sharing historic data and timely reporting on current science-based initiatives, including:

- 10 surveys from OCNMS research and monitoring for 2011;
- 9 surveys from OCNMS research and monitoring for 2010;
- 6 surveys from 2009 have been processing, analyzed and summarized, awaiting final editing/coding
- 13 surveys from 2008 have been partially processed and summarized
- 10 surveys from current 2012 field season are being processed, analyzed, and prepared for distribution as they come into the office
- 5 web pages on the OCNMS oceanographic mooring program the describe
 - The mooring program design and implementation
 - Mooring instrumentation design, with links to manufacturer documentation
 - Maps of historic deployment sites
 - Processed data for temperature, salinity, velocity, phytoplankton abundance, water cloudiness, and oxygen levels from 2000-2010

Data mining, processing, and distribution will continue in 2013 with regular reports to the AC Data Management Working group. Below is the current status of OCNMS datasets, sorted by the research field (benthic invertebrates, citizen science, etc.), followed by the type of scientific information provided (data, report, etc.), a description of the product, and its location.

Please contact me if you have any additional comments or concerns about the OCNMS Data Management Program.

Nancy
Nancy.Wright@noaa.gov
360-457-6622 x18

Benthic Invertebrates

Report: Written report on Seaboss seafloor samples
Location: http://olympiccoast.noaa.gov/science/surveyscruises/2010/2010_benthicinverts.html

Web Summary: Written description of deep sea invertebrate sampling efforts
Location: Expected OCNMS web post: 9/30/2012

Citizen Science

Report: Beached bird patterns for 2009
Location: Expected OCNMS web post: 9/30/2012

Web Summary: Mussel Watch program description, images
Location: http://olympiccoast.noaa.gov/science/surveyscruises/2010/2010_musselwatch.html

Corals

Graphs, Charts,
Image, Report: 2008 Observation of deep sea coral and sponge assemblages
Location: Expected OCNMS web post: 9/30/2012

Protocol: Image Database on deep sea corals 2006-2012
Location: Expected OCNMS web post: 9/30/2012

Graphs, Charts,
Image, Report: Processed coral survey for CRCP/PFMC report, 2010
Location: http://olympiccoast.noaa.gov/science/surveyscruises/2010/2010_coral.html

Graphs, Charts,
Image, Report: Processed coral survey for CRCP/PFMC report, 2011
Location: <http://olympiccoast.noaa.gov/science/surveyscruises/2011/coral.html>

Data, GIS,
Graphs, Charts,
Report, Text,
Video: Complete video interpretation of habitat and corals/sponges for 2006, 2008, 2010, 2011
Location: OCNMS Video Data Library

Data: Pacific Storm ROV survey for CRCP, 2011
Location: Expected OCNMS web post: 9/30/2012

Protocol: Sponge Morphological Guide for OCNMS, 2012
Location: Expected OCNMS web post: 9/30/2012

Protocol: OCNMS Protocol: Annotating Underwater Video for Habitat Characterization and Organism ID and Enumeration
Location: OCNMS Video Data Library

Intertidal Monitoring

Data: Processed 2010 and 2011 existing sediments using existing protocols and data sheets
Location: <http://www.marine.gov/>

Web Summary: Field report on MARINE Intertidal Monitoring 2011
Location: <http://olympiccoast.noaa.gov/science/surveyscruises/2011/intertidalmonitoring.html>

Web Summary: Field report on MARINE Intertidal Monitoring 2010
Location: http://olympiccoast.noaa.gov/science/surveyscruises/2010/2010_intertidalmonitoring.html

Marine Mammals

Report, Data: Annual Sea Otter Census for Norwegian Point with WA coast report, 2011
Location: <http://olympiccoast.noaa.gov/science/surveyscruises/2011/ottercensus.html>

Report, Data: Annual Sea Otter Census for Norwegian Point with WA coast report, 2010
Location: http://olympiccoast.noaa.gov/science/surveyscruises/2010/2010_otters.html

Report, Data: Annual Sea Otter Census for Norwegian Point with WA coast report, 2012
Location: Expected OCNMS web post: 9/30/2012

Report, Data: Annual Sea Otter Census for Norwegian Point with WA coast report, 2009
Location: Expected OCNMS web post: 9/30/2012

Report: Sea Otter Health Survey for Pacific Nearshore Project, 2011
Location: <http://olympiccoast.noaa.gov/science/surveyscruises/2011/ottersnearshore.html>

Moorings

Data: 2000-2010 data from OCNMS mooring sites
Location: <http://olympiccoast.noaa.gov/science/oceanography/oceanography.html>

Graphs, Charts: Mooring locations 2000-2011
Location: <http://olympiccoast.noaa.gov/science/oceanography/oceanography.html>

GIS: Prepared GIS data with metadata for web distribution
Location: <http://olympiccoast.noaa.gov/library/gisdata.html#monitorsurvey>

Web Summary: Description of 2011 mooring data
Location: Expected OCNMS web post: 9/30/2012

Web Summary: Description of 2012 mooring locations, data, and survey report
Location: Expected OCNMS web post: 9/30/2012

Web Summary: Mooring Overview for OCNMS Web, 2012
Location: <http://olympiccoast.noaa.gov/library/gisdata.html#monitorsurvey>

Web Summary: Description of 2010 mooring deployment
Location: <http://olympiccoast.noaa.gov/library/gisdata.html#monitorsurvey>

Oceanographic Characterization

Web Summary: Description of seasonal oceanography
Location: Expected OCNMS web post: 9/30/2012

Graphs,
Charts: Images from Oceanographic Characterization
Location: Expected OCNMS web post: 9/30/2012

Seabirds

GIS: Seabird Survey Transect Lines
Location: <http://olympiccoast.noaa.gov/library/gisdata.html#wildlife>

Web Summary,
Data: Pelagic Seabird Surveys 2011
Location: <http://olympiccoast.noaa.gov/science/surveyscruises/2011/marinebirds.html>

Web Summary,
Data: Pelagic Seabird Surveys 2010
Location: http://olympiccoast.noaa.gov/science/surveyscruises/2010/2010_pelagicseabirds.html

Web Summary,
Data: Pelagic Seabird Surveys 2009
Location: Expected OCNMS web post: 9/30/2012

Report,
Protocol,
Data: Seabird Density Analysis from Ship-based Surveys between 1995-2007, Summary Report 2011"
Location: http://olympiccoast.noaa.gov/science/surveyscruises/2011/seabird_density.html

Seafloor Mapping

GIS: Shapefile of fine-scale habitat classification for OCNMS
Expected web post: 9/30/2012

GIS: Merged sidescan images
Location: <http://olympiccoast.noaa.gov/library/gisdata.html#habmap>

GIS: Merged multibeam rasters
 Location: <http://olympiccoast.noaa.gov/library/gisdata.html#habmap>

Web Summary: Description of 5 steps of benthic mapping
 Location: <http://olympiccoast.noaa.gov/science/habitatmapping/habitatmapping.html>

Report: Multibeam Seafloor Mapping for Substrate, 2011
 Location: <http://olympiccoast.noaa.gov/science/surveycruises/2011/multibeam.html>

Report, Data: Complete existing Fairweather & Pacific Storm data analysis and reports for publication & web
 Location: Expected OCNMS web post: 9/30/2012

Report, Data: Seafloor mapping, Pacific Storm 2011, for EFH review
 Location: <http://olympiccoast.noaa.gov/science/surveycruises/2011/multibeam.html>

Data: Tatoosh multibeam mapping of 13 mooring areas, 2011
 Location: <http://olympiccoast.noaa.gov/science/surveycruises/2011/oceanographic.html>

Data: Tatoosh multibeam mapping of Temple Bar, Vicious Fisher, and Milky Way shipwrecks, 2011
 Location: <http://olympiccoast.noaa.gov/science/surveycruises/2011/shipwrecks.html>

Report: HMPR-123-2008-01_report.pdf Habitat Classification of 5 Sites, 2008-2012"
 Location: http://olympiccoast.noaa.gov/science/surveycruises/2010/2010_groundtruthing.html

Report: Report: Seafloor Mapping in Olympic Coast National Marine Sanctuary 2000-2011 (a history)
 Location: <http://olympiccoast.noaa.gov/science/habitatmapping/habitatmapping.html>

Report: Benthic Invertebrate and substrate Analysis from the Seaboss Grab 2008, Summary Report 2010
 Location: http://olympiccoast.noaa.gov/science/surveycruises/2010/2010_benthicinverts.html

OCNMS has data, reports, maps, or other forms of science-related information in each of these categories. They are being shared on the OCNMS web site (olympiccoast.noaa.gov) on a year-by-year basis as they can be developed.

Project	Project Description	Project Begin Date	Data Current Through
Benthic Invertebrates	Invertebrates - Deep Sea	2003	2010
Citizen Science	Citizen Science COASST	1998	2011
Corals	Coral and Sponge Communities	2006	2011
Fish	Video footage from ROV, fish associations with substrate	2006	2011
FOM	Fiber Optic Cable Monitoring	1995	2008
HABs	HABs & 2009 bird wreck	2000	2004
Hypoxia	Hypoxia	2009	2010
Intertidal Monitoring	Intertidal monitoring of two sites at Makah and Quinalt Reservations	2004	2011
Invasive Species	Green Crab pots, intertidal rapid assessment, foramineria	2001	2011
Kelp	Kelp	1999	2008
Marine Mammals	CSCAPE & Mammals (including otters)	1989	2008
Moorings	Moorings	2002	2010
Ocean Acidification	Ocean Acidification	2010	2011
Oceanographic Characterization	Oceanographic Characterization by NCCOS	2009	2009
Seabirds	Seabirds	1995	2010
Seafloor Mapping	Seafloor mapping, substrate habitats	2000	2011
Stranding Network	Partnership to support marine mammal stranding information network	2000	2011
Submerged Cultural Resources	Submerged cultural resources	2000	2011
Trawl Research	Trawl Research Noriko Shoji (1999) thesis on trawling effort in OCNMS 1989-1997	1989	1999
Turtles	Turtles	2009	2010