

Olympic Coast National Marine Sanctuary

2013 Management Plan Implementation Report: Year Two



December 2013

I. Introduction

This document is the third annual report on implementation of Olympic Coast National Marine Sanctuary's 2011 management plan. The two previous annual reports can be found at <http://olympiccoast.noaa.gov/management/management101.html#effectiveness>. Annual management plan implementation reports are based on the federal government's fiscal year (FY). This report covers FY 2013, the period from October 1, 2012 through September 30, 2013. In 2008 Olympic Coast National Marine Sanctuary (OCNMS or sanctuary) began work to update the original 1994 management plan. The [OCNMS Final Management Plan](#) was approved in September 2011, and related regulations were finalized on November 1, 2011 ([76 FR 67348](#)), becoming effective on December 1, 2011. Starting in FY 2011, OCNMS began basing its Annual Operating Plan on the action plans in the revised management plan and began implementation on the non-regulatory parts of the management plan prior to its final approval. FY 2011 was classified as "Year Zero" of the management plan implementation. FY 2013 is the second official year of implementation, or "Year Two" under the revised management plan.

Management Plan Background

Three years of planning, consultation, and writing went into the development of the sanctuary's 2011 management plan and revised regulations. This work included public scoping sessions initiated in 2008, issue prioritization and development of action plans with the close involvement of the OCNMS Advisory Council (AC) and the Olympic Coast Intergovernmental Policy Council (IPC), compliance with the National Environmental Policy Act that required the development of draft and final environmental assessment documents, consideration of public comments, numerous consultations with other agencies and the Coastal Treaty Tribes, and a federal rulemaking process requiring the publication of Proposed and Final Rules (regulations). The results are a comprehensive Final Management Plan and a revised set of sanctuary regulations published in November 2011.

The 2011 Final Management Plan and Environmental Assessment contains information about the sanctuary's environment and resources, priority management issues and the programs and actions proposed to address them. The management plan includes twenty action plans to guide sanctuary management in the years ahead. The action plans are grouped under these priority issues:

- Achieve effective collaborative and coordinated management
- Conduct collaborative research, assessments and monitoring to inform ecosystem-based management
- Improve ocean literacy
- Conserve natural resources in the sanctuary
- Understand the sanctuary's cultural, historical and socioeconomic significance

Each action plan contains strategies, which identify a specific subject area and related activities. A sixth priority issue, treaty trust responsibility, is a stand alone chapter in the Final Management Plan. The management plan also identifies eight outcomes with associated performance measures, which are the focus of this report.

II. Implementation Highlights

FY 2013 is “Year Two” for implementation of OCNMS’ management plan. Important progress has been made on plan implementation, with several notable accomplishments during the year. Significant accomplishments and challenges, organized by management priority issues, are discussed below, while the table entitled “Implementation by Action Plan” summarizes progress made on all action plans and strategies.

ACHIEVE EFFECTIVE AND COORDINATED MANAGEMENT

Intergovernmental Policy Council MOA Renewed

A Memorandum of Agreement (MOA) was finalized among NOAA’s Office of National Marine Sanctuaries (ONMS), through Olympic Coast National Marine Sanctuary, and Hoh Tribe, Makah Tribe, Quileute Tribe, Quinault Indian Nation, and State of Washington. The purpose of this MOA is to provide for the support of the Olympic Coast Intergovernmental Policy Council, which provides an effective and efficient forum for communication and exchange of information and policy recommendations regarding the management of the marine resources and activities within the boundaries of OCNMS. This MOA renews the previous five year agreement, and will expire on September 30, 2017.

13th Coast Guard District Commander signs MOA with Office of National Marine Sanctuaries

Thirteenth Coast Guard District Commander Rear Admiral Keith Taylor signed an updated Memorandum of Agreement with the Office of National Marine Sanctuaries. The purpose of the MOA is to coordinate the efforts of OCNMS and USCG to meet their common commitment to protecting and managing the Nation’s coastal waters and marine resources within OCNMS. Prior to the signing Sanctuary Superintendent Carol Bernthal briefed Rear Admiral Taylor on ongoing priority issues in the sanctuary. OCNMS and the 13th Coast Guard District have a close working relationship at many different levels. The most recent MOA is the fourth revision to the original agreement that dates back to 1995.

CONDUCT COLLABORATIVE RESEARCH, ASSESSMENTS AND MONITORING TO INFORM ECOSYSTEM-BASED MANAGEMENT

Unmanned Aircraft Systems Tested in OCNMS and Washington Islands National Refuges

A collaboration involving OCNMS, ONMS, NOAA Unmanned Aircraft Systems (UAS) Program, U.S. Fish and Wildlife Service, NOAA Marine Debris Program, Quinault Indian Nation, and Quileute Tribe tested unmanned aircraft systems in OCNMS and Washington Islands National Wildlife Refuges. The primary mission was to determine if a UAS would be suitable for monitoring seabird nesting colonies on refuge islands that are surveyed annually by helicopter. Secondary missions evaluated UAS imagery for survey of Japanese tsunami marine debris, both offshore and along the shore and to test detection ability for marine mammals (e.g., sea otters and pinnipeds). Preliminary results show that UAS could operate successfully in these challenging environments, and the UAS, which are much quieter than helicopters or fixed wing aircraft, did not cause disturbance to marine mammals and nesting seabirds.

IMPROVE OCEAN LITERACY

Ocean Science Partners Celebrate Coastal America Partnership Award

OCNMS and Seattle Aquarium, along with their partners, were presented with a Coastal America Partnership Award during a ceremony at the Seattle Aquarium for their contributions to the Ocean Science Program. Ocean Science is an ongoing, six-year project partnership between Seattle Aquarium and OCNMS that seeks to catalyze change in K-12 science education, integrating Ocean Literacy principles with inquiry-based classroom curriculum and experiential learning experiences at local beaches. Ocean Science Program Partnership Award recipients also include North Pacific Coast Marine Resource Committee, Grays Harbor Marine Resource Committee, Feiro Marine Life Center, Neah Bay Elementary School, Clallam Bay Elementary School, Ocean Shores Elementary School, Pacific Beach Elementary School, Taholah Elementary School, Ocosta Elementary School, Simpson Elementary School, Forks Elementary School, Lake Quinault Elementary School, Quileute Tribal School, Quinault Indian Nation, Quinault Division of Natural Resources, Makah Fisheries Department, and Makah Cultural and Research Center.

Three Hollings Scholars Completed Summer Internships with OCNMS

OCNMS hosted three Hollings Scholars from NOAA's Office of Education (OED) in the summer 2013. Katie O'Reilly, a senior at University of Miami with a double major in Marine Science and Biology, coordinated the Junior Oceanographer summer camp program in partnership with Feiro Marine Life Center. Vanessa Constant, a senior at Cornell University majoring in Natural Resources with a minor Marine Biology, conducted a change-over-time analysis of oceanographic data for temperature from the sanctuary's nearshore moorings project. Kevin Pelstring, a senior at the University of California-Davis with a double major in Economics and Environmental Science and Management, used a program developed by the National Park Service to calculate the carbon and particulate emissions of all OCNMS operations and to develop a mitigation and carbon emissions reduction plan. Katie, Vanessa and Kevin completed their projects in late July and presented summaries to OCNMS staff before presenting to scholarship peers and a panel of judges at the OED headquarters office in Silver Spring, MD. The NOAA Hollings Scholarship is designed to support undergraduate studies in oceanic and atmospheric science, research, technology, and education, to increase public understanding and support for stewardship of the ocean and atmosphere, and improve environmental literacy. It aims to recruit and prepare students for public service careers with NOAA.

OCNMS and Partners Provide Professional Development Opportunities to Teachers

OCNMS staff and partners conducted three professional development workshops for teachers from the Olympic Peninsula. In the "Monitoring Ocean Change in the Classroom" workshop, OCNMS in partnership with the Seattle Aquarium provided fifteen teachers and five informal educators with knowledge and materials to facilitate classroom and field investigations on ocean acidification. In the "The Ocean Starts in your Backyard" OCNMS in partnership with Seattle Aquarium and Feiro Marine Life Center provided twelve teachers from outer coast communities with a hands-on, inquiry based workshop focused on field investigations at the schoolyard and at the beach. OCNMS staff taught at the NatureBridge Marine Science Professional Development Workshop, which gave twenty-nine teachers rich content on intertidal habitats and creatures, as

well as techniques and activities to do with students of various ages. A total of 61 educators were reached through these three professional development workshops.

OCNMS Teaches Area Students

OCNMS staff and partners provided educational opportunities to nearly 1,800 students. In the seventh year of the Ocean Science program, approximately 500 third, fourth, fifth and sixth grade students participated in classroom activities, field trips to Feiro Marine Life Center and Seattle Aquarium, and beach field investigations. The North Olympic Watershed Science Program (N.O.W.), a joint partnership between Feiro Marine Life Center, Olympic National Park, and OCNMS, reached nearly 1,000 fourth and fifth grade students from six school districts. N.O.W. Science is funded by NOAA's B-WET education program that promotes experiential learning and connects students to conservation issues in their local watersheds. Other programs included a Lake Ozette Sockeye Salmon Education Program in partnership with NOAA Fisheries, tidepool investigations for 145 Neah Bay Elementary School students, and four Junior Oceanographer weekly camps for over 60 students this summer in partnership with Feiro Marine Life Center.

Olympic Coast Whale Trail Sign Brings People Together To Celebrate Partnerships, Ocean Awareness and Stewardship

The first Whale Trail sign along Olympic Coast National Marine Sanctuary was dedicated at Kalaloch Lodge in Olympic National Park (ONP) on Thursday, April 11, representing a partnership with OCNMS, Olympic National Park and The Whale Trail. A second sign was installed at Beach 4 trailhead in ONP. In addition to the two signs located in ONP, OCNMS sponsored signs at overlooks near Snow Creek in Clallam County and Olympic Coast Discovery Center in Port Angeles. The Whale Trail mission is to inspire appreciation and stewardship of whales and our marine environment by establishing a network of viewing sites along the whales' migration routes through the coastal waters of the Pacific Northwest. The Whale Trail has also identified whale-viewing sites at La Push (Quileute Nation), Cape Flattery (Makah Nation), Olympic Coast Discovery Center (Port Angeles) and dozens of other sites on the Olympic Peninsula and Puget Sound (<http://thewhaletrail.org/sites>). Through its current signs, including two on every Washington State ferry, The Whale Trail reaches more than 22 million people each year.

CONSERVE NATURAL RESOURCES IN THE SANCTUARY

Climate Change Impacts Report for Olympic Coast National Marine Sanctuary Published

NOAA's Olympic Coast National Marine Sanctuary has released a report entitled "Climate Change and the Olympic Coast National Marine Sanctuary: Interpreting Potential Futures". The report is an initial step outlined in the sanctuary's climate change action plan and provides a strong foundation of information for further actions and adaptations in the region. Existing observations and science-based projections from peer-reviewed literature were used to identify an extensive suite of potential climate change impacts to habitats, plants, and animals within the sanctuary and adjacent coastal areas. Key issues identified include projected extreme weather events (winds, waves, storms) and resultant coastal erosion, an increase in ocean acidity and water temperature, and more extreme weather patterns, including Pacific Northwest regional

rainfall increases triggering 100-year magnitude floods. Prepared and edited by Washington Sea Grant, sanctuary staff and 13 contributing authors, this climate report is the outcome of more than a year of intensive collaboration among subject matter experts representing 27 agencies, organizations, and academic institutions. The report includes recommendations for future action for sanctuary management, including public education, information gathering, policy and management strategies. Scientists, educators, public relations specialists, and natural resource managers will continue to work together to outline next steps forward for the outer Olympic Coast region.

Removal of Large Japanese Dock on Olympic Coast Completed

A 185-ton dock that washed out to sea during the March 2011 earthquake and tsunami in Japan was removed from Washington's Olympic Coast. NOAA contracted with The Undersea Company from Port Townsend, Washington, to remove the dock from the remote wilderness coast in OCNMS and Olympic National Park. The removal effort was supported by several state and federal agencies. Washington's Marine Debris Task Force provided support for the initial response in December 2012 and mitigation for non-native species growing on the dock, and the Task Force continued involvement as the primary information source via their website. U.S. Coast Guard initially located the dock grounded on the shore several days after it was sighted floating at sea by a mariner. U.S. Fish and Wildlife Service supported planning and preparation, and NOAA's National Weather Service provided spot forecasts for the area, ensuring that the contractors and agency staff were using reliable weather information during the removal work. The cost for the removal effort was paid by NOAA's Office of National Marine Sanctuaries and the Olympic National Park, with the majority of funds provided to NOAA from the government of Japan to help with cleanup of marine debris from the tsunami. The safe and successful removal involved significant collaboration, problem-solving and rapid action. As a result of this action NOAA staff received the NOAA Administrator's Award for outstanding interagency collaboration to reduce the impact of the 2011 Japan tsunami marine debris on Olympic Coast National Marine Sanctuary.

OCNMS and WDFW Jointly Submit Options for Potential Modifications of Groundfish Essential Fish Habitat

OCNMS and Washington State Department of Fish and Wildlife (WDFW) jointly responded to a Request for Proposals from the Pacific Fishery Management Council as part of its five-year review of Groundfish Essential Fish Habitat (EFH) along the west coast. The OCNMS/WDFW submission "Options for Potential Modifications to Olympic 2 Groundfish Essential Fish Habitat Conservation Area in Washington State" contained three options to increase protection of sensitive biogenic and rocky reef habitats both within and adjacent to the existing Olympic 2 Conservation Area.

Changes to Voluntary Vessel Routing Measure take Effect

On December 1, 2012 changes to the International Maritime Organization (IMO) Area to be Avoided (ATBA) off the Washington Coast went into effect. This ATBA was originally adopted in 1994 to reduce the risk of a marine casualty and resulting pollution to Olympic Coast National Marine Sanctuary. The revised ATBA furthers this goal by expanding coverage to include all vessels that are required to prepare oil spill contingency response plans, such as vessels of 400 gross tons or more. Commercial vessels carry large amounts of fuel that if spilled, could be

extremely harmful to the sanctuary's sensitive marine resources. The ATBA is a very successful management tool that helps mitigate the potential of a large oil spill due to drift groundings in the sanctuary. OCNMS works with both the U.S. and Canadian Coast Guards on an ATBA monitoring and outreach program that had an estimated voluntary compliance rate of 98% in 2012.

OCNMS Changes to Satellite-Based Data Collection for Monitoring Vessel Traffic

OCNMS conducted a pilot project to determine if S-AIS (satellite automatic identification system) vessel traffic monitoring data could be used for ATBA vessel traffic monitoring. Loss of Canadian Coast Guard data resulted in the need to find a new data source. Sanctuary staff developed routines that allowed the processing of S-AIS data and the integration of value added vessel data based on USCG provided data (original contained 13,916 vessels). USCG data was enhanced through web-based research. The updated S-AIS data was used to calculate ATBA compliance estimates for 2012. Our work with S-AIS was presented to ONMS staff as a potential means for a system-wide enterprise solution to vessel traffic monitoring in national marine sanctuaries. Summaries of 2012 vessel traffic data for the entire outer Washington coast were provided to the state in support of their marine spatial planning process.

OCNMS Works to Improve Voluntary Compliance of Overflight Regulation

OCNMS developed updated products to inform pilots on recent changes to sanctuary regulations and publication of sanctuary regulations on Federal Aviation Administration's aeronautical charts. A new overflight poster was drafted, reviewed by partners, posted on an updated OCNMS overflight web page, and mailed to approximately 150 Washington state airports. Airport managers were asked to display the poster in an area frequented by pilots. OCNMS also staffed a booth at the 30th Northwest Aviation Conference and Trade Show. This event is advertised as the Northwest's premier aviation event with over 12,000 aviation enthusiasts attending, 80% of whom are pilots. Staff had the opportunity to talk to many Washington pilots about the reasons for the regulation and to answer specific questions about the sanctuary and the regulation. A full page advertisement/announcement for the poster was published in the conference program.

CoastSavers Joins International Coastal Cleanup for Washington's Outer Coast

With assistance from sanctuary staff, CoastSavers was awarded a grant from the Bank of America through Ocean Conservancy to support expansion of the International Coastal Cleanup to Washington's outer coast. CoastSavers organizes the popular Earth Day weekend shoreline cleanup each year in April, which covers the entire outer coast from Cape Flattery to the Columbia River. OCNMS is a founding partner of CoastSavers and contributes significantly to the group's efforts. In September 2013, OCNMS staff participated at CoastSavers volunteer registration stations, in outreach, and directly in beach cleanup for the first-ever connection of local efforts with the International Coastal Cleanup.

UNDERSTANDING THE SANCTUARY'S CULTURAL, HISTORICAL AND SOCIOECONOMIC SIGNIFICANCE

Office of National Marine Sanctuaries Socioeconomic Team Completes OCNMS Profile

Office of National Marine Sanctuaries (ONMS) social scientists completed a "Study Area Profile" for OCNMS. To be better informed to make sound management decisions, OCNMS is developing improved information about the socioeconomic values of resources in the sanctuary, more detailed understanding of what human uses are occurring in the sanctuary, and clearer understanding of what human uses might be proposed in the sanctuary. The first step in this effort is the completion of a "Study Area Profile", which provides the basis of analyses to establish the dependencies of local communities and economies on uses of resources in the sanctuary and for assessing how people can adapt to or mitigate policy/management changes that may impact their use patterns. The "Study Area Profile" is updated with 2010 data from the U.S. Department of Commerce Census Bureau and Bureau of Economic Analysis and the U.S. Department of Labor, Bureau of Labor Statistics. Demographic and economic profiles are included by county. The profile will be posted on the ONMS website in the near future, <http://sanctuaries.noaa.gov/science/socioeconomic>.

OCNMS Supports Characterization of Tribal Cultural Landscapes Project

Characterizing Tribal Cultural Landscapes is a collaborative effort among the Bureau of Ocean Energy Management (BOEM), ONMS, the National Marine Protected Areas Center, a tribal facilitator, and Tribal Historic Preservation Offices (THPOs) from three tribes (Yurok Tribe of CA, Confederated Tribes of Grand Ronde, OR and Makah Tribe of WA) to support tribes in identifying areas of tribal significance. The project involves inter-tribal workshops, an analysis guide, case studies and outreach, and this process will be adaptable for other Native American communities to utilize in the future.

FY 2013 Challenges

The budget process and extended continuing resolution continued to make program planning difficult in FY 2013. The sanctuary did not receive a final budget until May 2013, late in the 3rd quarter. Prior to this time OCNMS received spending authority based on projections on a month by month basis. As a result of the Budget Control Act of 2011 and automatic cuts to domestic programs, the OCNMS FY 2013 budget was reduced from previous levels.

The lack of access to the NOAA fleet continued this year, with OCNMS needing to depend solely on the R/V *Tatoosh* to support operations. Mid-season mechanical difficulties with the R/V *Tatoosh* reduced the number of days the vessel was available for operations.

III. Performance Measures

Performance evaluation is an integral component of Office of National Marine Sanctuaries (ONMS) efforts to improve sanctuary management. Performance measures identified in the 2011 OCNMS management plan are designed to serve three purposes: 1) to better understand OCNMS' ability to meet its objectives; 2) to track OCNMS' success in addressing the issues identified in the 2011 management plan; and 3) to identify tangible examples of how OCNMS is contributing to both the performance targets developed for the ONMS and achievement of the purposes of the National Marine Sanctuaries Act.

As the 2011 management plan is implemented, OCNMS staff will monitor these performance measures over time and collect data on progress towards their achievement. One management plan strategy, OPS 10 addresses management plan implementation reporting and includes activities that call for:

- Reporting on implementation of the management plan on an annual basis, particularly on performance measure achievement
- Annual reporting on OCNMS' response to emerging issues
- Annual documentation of clarifications, enhancements or recommended changes to existing strategies and activities

Eight outcomes and associated performance measures identified in the 2011 OCNMS management plan are listed below, and a status summary table is provided to address progress during FY 2013.

OUTCOME 1: OCNMS is recognized by its partners and constituents as an organization that effectively seeks and considers information and opinions from external sources in its management and decision making.

Performance Measure 1: Maintain undiminished or improve ratings of OCNMS' effectiveness as evaluated by key partners and constituents through a brief annual survey (e.g., using a web survey tool) designed to assess their involvement in sanctuary management processes and the perceived effectiveness of this involvement in sanctuary management processes over the past year. This survey should use the same survey questions each year so that results can be compared over time.

Management Plan Year	Survey activity
FY 2011 – year zero	no activity
FY 2012 – year one	survey completed
FY 2013 – year two	no activity

Status: In FY 2012 the University of Michigan School of Natural Resources and Environment and the Office on National Marine Sanctuaries supported a team of four graduates in an external assessment of its institutional relationships. The external assessment addressed both strategy CCM1: External Evaluation and Performance Measure 1. The 18-month assessment included interviews and a survey of key individuals within OCNMS's institutional network. The report is available for download

at <http://www.snre.umich.edu/ecomgt/pubs/projects.htm>.

OCNMS staff considered the utility of developing a web survey tool for this effectiveness evaluation and the value of conducting annual surveys with a limited sample size, and concluded that resources are not available to conduct this on an annual basis. While the importance of this stated outcome has not changed, OCNMS currently is not able to report on this performance measure. It is hoped that a similar study and evaluation can be completed at some point in the future, preferably prior to the next management plan review.

OUTCOME 2: Increased involvement of communities on the Olympic Peninsula in sanctuary management issues and ocean conservation.

Performance Measure 2: Demonstrate an increase in 1) individual public attendance at OCNMS-hosted public meetings and events (e.g., open houses, Advisory Council meetings), and 2) volunteer hours in OCNMS-led education, stewardship and research efforts (e.g., Discovery Center, COASST, intertidal monitoring). This measure will be evaluated on an annual basis.

Management Plan Year	Public Attendance	AC & Volunteer Hours
FY 2011 – year zero	28	17,603
FY 2012 – year one	31	20,934
FY 2013 – year two	38	18,958

Status: Year Two showed a decrease in volunteer hours and an increase in public attendance at hosted events.

1) In FY 2013 Olympic Coast National Marine Sanctuary hosted a total of six Advisory Council meetings with 38 individuals from the public participating in one or more meetings. Meeting locations were Forks, Port Angeles, Hoquiam, Neah Bay, and La Push. Advisory Council members and individuals participating in Advisory Council working groups contributed an estimated cumulative total of 2,898 hours in support of OCNMS in FY 2013. Estimated hours include the efforts of several working groups, which may include non-council members. Advisory Council resolutions and recommendations, are posted at :

http://olympiccoast.noaa.gov/involved/sac/sac_actions.html. There were no additional OCNMS-hosted public meetings or events in FY 2013.

2) Volunteers contributed 16,060 hours towards Olympic Coast National Marine Sanctuary programs for Education and Outreach, Research, and Resource Protection. The estimated dollar value of OCNMS volunteer activity is \$347,217 (calculated at \$21.62/hour according to AARP Bulletin <http://www.aarp.org/giving-back/volunteering/info-12-2011/value-of-volunteers.html>). Volunteer hours for each program and the estimated value of volunteer activity are:

- Olympic Coast Discovery Center/Education and Community Outreach – 769

hours. Estimated value of \$16,626

- COASST (dead seabird surveys) – 5,340 hours. Estimated value \$115,451
- *R/V Tatoosh* Field Operations and Research – 433 hours. Estimated value \$9,361
- Washington Coastal Cleanup – 9,400 hours. Estimated value \$203,228
- OCNMS Clerical Assistance – 118 hours. Estimated value \$2,551

Outcome 2 was also supported by active OCNMS participation as an ex-officio representative on outer coast marine resources committees, including meetings, planning sessions, and community forums. A primary goal of these marine resources committees is to engage local citizens in marine stewardship, education, and science efforts.

OUTCOME 3: Increase the area of sanctuary seafloor where efforts to map, groundtruth, characterize, and/or analyze habitats have been completed.

Performance Measure 3: Map, groundtruth, characterize, and/or analyze 300 square nautical miles of sanctuary seafloor each year.

Management Plan Year	Mapping nm ²	Ground-truthing nm ²	Characterization nm ²
FY 2011 – year zero	130	86.4	128
FY 2012 – year one	16.1	331.5	86.4
FY 2013 – year two	3.9	5.2	162.4

Status: Insufficient time, staff and budget meant that 56% of the annual seafloor mapping objective was met in 2013. The following activities were completed:

- 3.9 nm² survey of nearshore areas off Mosquito Creek to support salvage option decisions for a Japan tsunami debris dock that grounded in OCNMS. This survey included the georeferencing of smooth sheets for the initial survey, multibeam mapping, two reports for delivery to the NOAA Office of Coast Survey (OCS) (Descriptive Report, and Data Acquisition and Processing Report), and the collection of 15 ground truth sediment samples with accompanying underwater video. An additional habitat classification report and web deliverables are scheduled for FY 2014.
- 162.4 nm² of 2010 data NOAA Ship *Fairweather* survey was characterized for benthic habitat. The report, *Seafloor Habitat Characterization of Cape Alava, 2010 NOAA Ship Fairweather Survey* is available on the OCNMS web.
- 1.3 nm² of the 2012 mapped area from 1st Beach and Quillayute Needles immediately south of La Push was ground truthed with 30 sediment samples. Analysis of samples, habitat classification, report generation, and web deliverables are scheduled for FY2014.

Although the full target for this performance measure was not met in 2013, the Mosquito Creek mapping and reporting effort required significant time and effort. As a result of relationships strengthened through this survey, OCNMS now has the support of OCS personnel and equipment for future surveys.

OUTCOME 4: OCNMS will support collaborative and coordinated management through timely sharing of data collected by OCNMS.

Performance Measure 4: On an annual basis, track the progress made analyzing and distributing each data set that OCNMS collects. For each data set, report on 1) the date(s) the data were collected, 2) the expected annual and ultimate end product(s), 3) data sharing methods, 4) the time taken to analyze the data, 5) the time to disseminate the data, and 6) if necessary, when OCNMS anticipates completing a final analysis, report and dissemination.

Management Plan Year	Data set collected	Prior year not yet disseminated	Disseminated
FY 2011 – year zero	3 Seafloor Mapping 1 Deep Sea Coral 4 Wildlife Research 1 Coastal Habitats 1 Oceanography	pre FY11 datasets are not covered in this table	FY11 datasets have been disseminated except 1 Deep Sea Coral
FY 2012 – year one	2 Seafloor Mapping 4 Wildlife Research 1 Coastal Habitats 2 Oceanography	1 Deep Sea Coral-FY11	FY12 datasets have been disseminated, except 1 Seafloor Mapping
FY 2013 – year two	3 Seafloor Mapping 1 Wildlife Research 2 Coastal Habitats 1 Oceanography	1 Deep Sea Coral-FY11 1 Seafloor Mapping-FY12	FY13 processing is in process

Status: At the time the 2012 Management Plan Implementation Report was completed, not all of the reported data had been disseminated on the OCNMS website, see <http://olympiccoast.noaa.gov/science/surveyscruises/surveyscruises.html>. We have updated the 2012 table to show the status of data previously reported as pending.

Performance Measure 4 Reporting Table – 2012 Update

Performance Measure 4 Reporting	Data Collection Dates	Product	Data Sharing Places	Time to Analyze Data	Time to Disseminate Data	Final analysis, report and dissemination
MAP2 Seafloor Habitat Ground Truthing	August 1-30, 2012	Sediment sampling from 90 sites (over 330 nm ²) with video enhancement;	OCNMS web, GIS library	30 days	60 days 1 completed 2 pending	March 2013 – 3 reports
MAP2 Imagery, bathymetry and backscatter for 1 st Beach and Quillayute Needles	August 1-30, 2012	Seafloor area and characterization of 1.3 nm ²	OCNMS web, GIS library	60 days	60 days Pending	pending
ECO3 Coral and	2006, 2008, 2010, 2011	Site Characterizations	Characterizations submitted to IPC,	multiyear	multiyear	Peer reviewed comprehensive

Sponge Communities	surveys	from post-processed ROV video	CRCP and PFMC EFH Review Committee & OCNMS Web			report planned in 1-2 years
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Status (continued): In 2013 OCNMS collected data or performed field support services in six research areas: hydrographic surveying, seafloor mapping, oceanographic moorings, Unmanned Aircraft System (UAS) marine debris identification test, UAS seabird identification test, and intertidal monitoring.

Performance Measure 4 Reporting Table for 2013

Performance Measure 4 Reporting	1 Data Collection Dates	2 Product	3 Data Sharing Places	4 Time to Analyze Data	5 Time to Disseminate Data	6 Final analysis, report and dissemination
MAP2 Misawa Dock Survey	January 20-23, 2013	Descriptive Report, Data Acquisition & Processing Report for OCS, Feature (rock & Island) Report, Habitat Classification Report	OCNMS web	30 days	OCS & Feature Reports are complete; Habitat Classification Report is pending.	120 days
MAP2 Seafloor Habitat Ground Truthing	August 21-22	Sediment sampling from 44 sites with video enhancement;	OCNMS web, GIS library, reports	60 days	60 days	June 2014 – 2 reports
OCEO1 Oceanographic Mooring Data	April-Oct, 2013	Data from 10 seasonal oceanographic moorings	OCNMS web	Pending	Pending	Pending
MD1 UAS Test for Marine Debris Identification	June 17-30	Report in partnership with NOAA UAS Program; photos and summary for OCNMS web	OCNMS web	60 days	60 days	Pending
ECO6 UAS Test for Seabird Identification	June 17-30	Report in partnership with NOAA UAS Program; photos and summary for OCNMS web	OCNMS web, NOAA web	Dependent on NOAA UAS Program	Dependent on NOAA UAS Program	Dependent on NOAA UAS Program
ECO2 Intertidal Monitoring	June 23 July 22-24 Sept 18	Rocky intertidal data from the Kydikabbit Point & Pt. Grenville are entered in MARINE database. Sand data from Sooes Beach, & Grenville Beach are held in OCNMS database.	Rocky intertidal data are maintained on MARINE web site; completed sand analysis will be reported on OCNMS web site	MARINE will complete the analysis of rocky intertidal data; 2014 Hollings Scholar has been solicited for sand analysis.	Pending MARINE analysis and determination of Hollings Scholarship.	Pending

OUTCOME 5: Determine the effectiveness of sanctuary Ocean Literacy programs whose audiences include sanctuary users, students, teachers, volunteers and partner organizations.

Performance Measure 5: Track progress made during each year toward improving the quality of Ocean Literacy programs and their impacts on participants in improving their understanding of ocean processes and resources and enhancing their commitment to act as stewards.

Status: The following is a summary of program output data.

Management Plan Year	Professional Development (# workshops) # teachers	K-12 (# programs) # students	Interns supported
FY 2011 – year zero	(3) 79	(3) 2,526	2
FY 2012 – year one	(2) 40	(4) 2,361	1
FY 2013 – year two	(3) 61	(5) 1,705	3

OCNMS staff supported regional professional development workshops and trainings, including: “Monitoring Ocean Change in the Classroom” workshop, in partnership with the Seattle Aquarium, “The Ocean Starts in your Backyard” in partnership with Seattle Aquarium and Feiro Marine Life Center, and the NatureBridge Marine Science Professional Development Workshop. A total of 61 educators were reached through these three professional development workshops.

OCNMS staff provided hands-on, place-based education to nearly 1,700 K-12 students including: the seventh year of the Ocean Science program (which included classroom activities, field trips to Feiro Marine Life Center, Seattle Aquarium, and beach field investigations); the North Olympic Watershed Science Program (N.O.W.), a joint partnership between Feiro Marine Life Center, Olympic National Park, and OCNMS; a Lake Ozette Sockeye Salmon Education Program in partnership with NOAA Fisheries; tidepool investigations with Neah Bay Elementary School students; and four Junior Oceanographer weekly camps in partnership with Feiro Marine Life Center.

OCNMS hosted three Hollings Scholars from NOAA’s Office of Education (OED) over the summer.

OUTCOME 6: Communicate the importance of the sanctuary and its unique resources, and the unique role of NOAA and Olympic Coast National Marine Sanctuary as a marine resource manager using a wide variety of media and methods to reach broad audiences.

Performance Measure 6: Track effort and outputs of outreach programs, using tools appropriate for the media, communication methods and audiences.

Management Plan Year	Web site visits	Facebook fans	OCDC visits	Outreach events
FY 2011 – year zero	194,308	356	7,015	7
FY 2012 – year one	140,175	700	7,491	7
FY 2013 – year two	181,011	1,058	5,390	7

Status: OCNMS staff expands community awareness of the sanctuary, sanctuary resources, volunteer programs and other community involvement activities using multiple communication techniques.

OCNMS uses the following **media and social networking tools**:

- Web site - statistics for the sanctuary website, which was overhauled in 2012 and 2013, show an increase from 140,175 visits in FY12 to 181,011 in FY13, according to reports from the National Ocean Service. This represents a 29 percent increase in web browsing.
- Facebook – the NOAA OCNMS Facebook page was created in September 2010. The page increased its fans from 700 fans in 2012 to 1058 fans in 2013.
- Google Ocean, NOAA Media Library and YouTube accounts contain OCNMS provided resources.
- OCNMS staff provides media information (interviews, releases and advisories) for review and distribution for emerging issues, critical events, research and education activities and other newsworthy developments.

OCNMS uses the following tools for **outreach**:

- Olympic Coast Discovery Center – OCDC served 5,390 visitors in 2013, a decrease of 2,000 visitors from 2012. The center was open daily Memorial Day weekend through Labor Day weekend, and at other times by appointment.
- Festivals and Events – OCNMS staff participated in the 2012 annual Dungeness Crab and Seafood Festival, Makah Days, Seattle Aquarium’s Sea Otter Awareness Weekend, Franklin Family Science Night, Ocean Shores Beachcomber's Fun Fair, Grays Harbor Shorebird Festival, and Ocean and River Resources Fair.
- Over 1,400 volunteers celebrated Earth Day this year by turning out for the annual Washington Coast Cleanup organized by Washington CoastSavers. Volunteers hauled away an estimated 20 tons of plastic water bottles, household trash, lost fishing gear, and other marine debris from Washington’s outer coast. OCNMS staff assisted with overall event coordination, and with assistance from Clallam County AmeriCorps, organized the registration station and coordinated volunteers working on the Makah tribal reservation and Shi Shi Beach.
- OCNMS staff were instrumental in gaining financial support for CoastSavers’ coordination of the International Coastal Cleanup for outer coast beaches in 2013. This was the first year that CoastSavers collaborated in this international shoreline cleanup sponsored by Ocean Conservancy, which is held in late September.

OUTCOME 7: OCNMS is prepared for an oil or hazardous spill in or near the sanctuary.

Performance Measure 7: On an annual basis, 1) summarize and evaluate OCNMS participation in regional response planning efforts and spill drills, and 2) confirm that all OCNMS staff that have completed their assigned oil spill response training plan on an annual basis.

Management Plan Year	Regional planning	Drills	Training
FY 2011 – year zero	RRT/NWACP scoping meeting RRT technology working group	0	not completed
FY 2012 – year one	NW Area Committee summit WDE contingency rule committee	0	not completed
FY 2013 – year two	Comments on Ecology's Contingency Rule; NW Area Committee summit; Shoreline Cleanup Assessment Team task force; PS/BC Oil Spill Task Force summit;	0	not completed

Status: OCNMS provided a comment letter on Washington Department of Ecology's Contingency Rule language (October 2012). OCNMS staff attended the annual meeting of the NW Area Committee (December 2012) and volunteered to serve on a task force most relevant to OCNMS concerns – Shoreline Cleanup Assessment Team; participated in task force meetings throughout 2013. OCNMS staff attended the annual meeting of the Pacific States/British Columbia Oil Spill Task Force (September 2013) at which trans-boundary spill response capacity and emerging issues were discussed. Opportunities for participation in relevant spill drills requiring only local travel were limited in FY 2013; limitations on travel and staff availability prevented drill participation in FY 2013.

OCNMS has determined that standard HAZWOPER refresher training is of limited value and has been seeking more relevant training opportunities; limitations on travel, staff availability and appropriate training opportunities prevented completion of HAZWOPER training updates.

OUTCOME 8: The condition of water quality, habitat and living resources in the sanctuary is maintained or improved.

Performance Measure 8: Every five years, evaluate if the condition of sanctuary resources has been maintained or improved, as assessed through an OCNMS Condition Report.

Management Plan Year	Evaluation
FY 2011 – year zero	no activity
FY 2012 – year one	no activity
FY 2013 – year two	no activity

Status: In September 2013, the OCNMS Advisory Council established a Science Working Group to provide recommendations for indicators of ecosystem health and promotion of the sanctuary as a sentinel site for climate change research. Work of this group was initiated in October 2013.

IV: Year Two Management Plan Implementation Status by Action Plan/Strategy

Whereas the outcomes and performance measures provide assessment of progress on specific and, in some cases, quantifiable aspects of Olympic Coast National Marine Sanctuary accomplishments, many strategies identified in the management plan are not addressed by performance measures. The table below presents an assessment of progress made in Year Two (FY 2013) on OCNMS management plan strategies and activities.

Table Explanation

Action Plans/Strategies – The titles and numbering scheme relate to the structure of the 2011 Olympic Coast National Marine Sanctuary Final Management Plan and Environmental Assessment.

MP Priorities – Level Funding: Scenario 1 – Implementation ratings were assigned as “high” (H), “medium” (M) and “low” (L) to indicate expected progress. These ratings are taken from the Final Management Plan Implementation Table. This table was created by taking combined input from both OCNMS staff and the Advisory Council. The table included three different funding scenarios (level funding, moderate increase, and substantial increase). The implementation rankings shown below represent the level funding scenario.

FY13 AOP Status – The FY13 AOP Status column shows the annual progress for the reporting year’s Annual Operating Plan (AOP) activities. The symbols used to describe the implementation status are: Not initiated or planned (○); Initiated and 1-25% completed (◉); Initiated and 26-50%; completed (◐); Initiated and 51-75% completed (◑); or Completed (●).

In several cases an additional explanation of the meaning of these scores may be needed.

Example 1: In the case that an activity was not specifically mentioned in the AOP, it would be given a score of “Not initiated or planned (○)” even if work did occur. However, that work would be summarized under status.

Example 2: Many strategies could be considered ongoing and will never be completed. There are many examples in the Collaborative and Coordinated Management Action Plan. Many of the strategies have to do with partnerships, which we hope will be ongoing. Using as an example strategy “CCM3 Olympic Coast Intergovernmental Policy Council”, the status of “Completed (●)” refers to the completion of activities planned for FY 2013 and not the completion of the overall strategy, which will be ongoing.

Status – A brief summary of the activities that took place in the reporting period.

Implementation by Action Plan Table

Action Plans/Strategies	MP Priorities - Level Funding: Scenario 1	FY13 AOP Status	Table Legend	
			Implementation Ranking: H – High M – Medium L – Low	Reporting Status for FY 2013 Activities: ○ – Not initiated or planned ◉ – Initiated 1-25% ◐ – Initiated 26-50% ◑ – Initiated 51-75% ● – Completed
			Status	
A1. Collaborative and Coordinated Sanctuary Management Action Plan				
CCM1 External Evaluation	L	○	No activities identified for FY13.	
CCM2 Coastal Treaty Tribes	H	○	No activities identified for FY13.	
CCM3 Olympic Coast Intergovernmental Policy Council	H	◑	<p>The sanctuary supported the IPC by providing input to meeting agendas, providing requested information and briefings on important management issues. A joint meeting between the AC and IPC was held in November 2012. The annual meeting with the ONMS director was planned but postponed at the IPC's request.</p> <p>A Memorandum of Agreement (MOA) was finalized in January 2013 among NOAA's Office of National Marine Sanctuaries, through the Olympic Coast National Marine Sanctuary, and the Hoh Tribe, the Makah Tribe, the Quileute Tribe, the Quinault Indian Nation, and the State of Washington. The term of the MOA is for an additional 5 years.</p>	
CCM4 Washington State	H	●	<p>OCNMS staff met with the Washington State Ocean Caucus and Advisory Council to discuss implementation of the Ocean Action Plan (OAP) and sanctuary management plan, and to identify how OCNMS research and conservation efforts can complement OAP implementation efforts. It was agreed that areas of collaboration in 2013 would be focused on OCNMS support to the ongoing state efforts related to Marine Spatial Planning, specifically work on (1) habitat mapping priorities, (2) MSP goals and objectives setting, and (3) participating in human use mapping workshops.</p>	
CCM5 Department of Interior	H	●	<p>Annual meeting with ONP Superintendent and USFWS Project Leader. Participated in Olympic National Park seasonal interpretive training. Coordinated with ONP and others on Misawa dock removal and annual beach cleanups. Technical staff consultation and collaboration on intertidal monitoring, marine debris, permitting and enforcement. Collaborated with USFWS on a pilot project using a NOAA UAVS (Unmanned Aircraft Vehicle System) to monitor seabird colonies and marine debris. OCNMS accepted an offer to be a cooperating agency on the ONP Wilderness Stewardship Plan.</p>	
CCM6 US Coast Guard	H	●	<p>13th Coast Guard District Commander Rear Admiral Taylor signed an updated MOA with the Office of National Marine Sanctuaries. The purpose of the MOA is to coordinate the efforts of the OCNMS and the USCG to meet their common commitment to protecting and managing the marine resources within OCNMS. Prior to the signing Superintendent Carol Bernthal briefed Admiral Taylor on ongoing priority issues in the sanctuary. In a later meeting the new District Commander, Rear Admiral Gromlich, was also briefed on the sanctuary.</p>	
CCM7 US Navy	H	●	<p>OCNMS staff held an annual meeting with representatives from US Navy Northwest Region to discuss Navy and sanctuary activities that took place off the coast of Washington and to identify areas of potential collaboration for 2013. Sanctuary staff provided a briefing on 2012 research activities of interest to US Navy, and US Navy representatives discussed annual activities associated with the Quinault Test Range and Northwest Training Range. US Navy also gave an update on the schedule for the Northwest Training and Testing (NWTT) Environmental Impact Statement (EIS). The NWTT EIS covers activities within the sanctuary and adjacent areas. OCNMS subsequently provided comments on the EIS.</p>	

Action Plans/Strategies	MP Priorities - Level Funding: Scenario 1	FY13 AOP Status	Table Legend	
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			Status	
CCM8 NMFS	M	●	ONMS and NMFS staff conducted an annual meeting to review any policy actions from NOAA or each program to avoid any surprises in the coming year. NMFS staff participated in OCNMS Advisory Council meetings. OCNMS and the sanctuaries West Coast Region issued 3 permits for NMFS activities in OCNMS.	
CCM9 Office of National Marine Sanctuaries	H	●	Participated in annual leadership team meeting and regional meetings. OCNMS reported to ONMS staff on the results of a pilot project investigating the applicability of Satellite AIS data to NMS vessel monitoring.	
CCM10 Canadian Government	L	○	No activities identified for FY13. OCNMS staff participated in the Pacific States/British Columbia Oil Spill Task Force annual meeting.	
A2. Community Involvement in Sanctuary Management Action Plan				
COM1 Advisory Council	H	●	Advisory Council meetings were held as planned in November 2012, and January, March, May, July, September 2013. An annual work plan was completed and adopted, and it was used routinely for meeting agenda development.	
COM2 Marine Resource Committees	M	●	OCNMS staff participated in monthly NPC MRC meetings, with attendance at all meetings. Provided regular updates on marine debris findings and response efforts. Attended annual NPC MRC science fair and community event. Joined GH MRC listserv, tracked agenda items, and provided input to GH MRC coordinator on issues relevant to OCNMS.	
COM3 Non-government Organizations	H	●	Sanctuary staff provided support to Washington CoastSavers, a NGO involved in protecting the Washington Coast from marine debris. Participated on selection team for the CoastSavers coordinator position, and assisted in event planning and generation of funding support. Provided financial support for cleanup of Grenville Beach in advance of Tribal Journeys/Paddle to Taholah canoe landings. Participated in annual CoastSavers strategic planning meeting.	
A3. Sanctuary Operations Action Plan				
OPS1 Vessel Infrastructure and Operations	H	●	Completed quadrennial inspection on hydraulic load lifting systems and conducted monthly and annual prescribed maintenance. In FY13 a re-manufactured short block was installed on the starboard engine while a re-manufactured head was installed on the port engine, a clutch (anchor windlass) was rebuilt and the deck winch repaired. Ensured operational guidelines and vessel operator and crew member qualification plans were maintained and implemented. Supported development of AOP activities and outputs. Projects supported in FY13 included mooring program, volunteer cruise, habitat mapping, Co-Ops work in the Strait, mapping for the Misawa dock removal, and UAS pilot program. Total days at sea in FY13: 50-Tatoosh, 2-RHIB	
OPS2 Facilities	H	●	Following up on recommendations from the 2012 OCNMS Facility Strategy, OCNMS worked with the City of Port Angeles and the Feiro Marine Life Center to evaluate the feasibility of a shared facility and Port Angeles Marine Campus. Released Shared Facilities Feasibility Study which concluded that "the opportunity to better collaborate and deliver services, make a shared facility the best option for each partner.	
OPS3 Annual Planning	H	◉	Standard planning procedures were adversely affected by uncertainty with the OCNMS budget. Late allocation of an annual budget necessitated making spending decisions on a monthly basis for much of the fiscal year. Annual program activities were based largely on continuing existing projects, supporting projects with partner support, as well as feedback from the AC and IPC on the "Draft FY 2013 Olympic Coast National Marine Sanctuary Management Plan Implementation Priorities" document.	
OPS4 Safe Operations	H	●	Regularly updated and maintained the OCNMS Continuity of Operations Plan (COOP) resulting in both OCNMS and HQ having the most up-to-date information readily available in case of an emergency. Successfully participated in NOAA-wide Emergency	

Action Plans/Strategies	MP Priorities - Level Funding: Scenario 1	FY13 AOP Status	Table Legend	
			Implementation Ranking: H – High M – Medium L – Low	Reporting Status for FY 2013 Activities: ○ – Not initiated or planned ⊙ – Initiated 1-25% ⦿ – Initiated 26-50% ● – Initiated 51-75% ● – Completed
			Status	
			Notification System test. Conducted monthly safety inspections of facilities and vessels. Staff completed required training and drills.	
OPS5 Staffing	H	●	Implemented multiple contracts for non-federal support services. A number of FTE and contract positions are currently unfilled due to uncertainty on the budget.	
OPS6 Volunteer Program	M	●	Coordinated volunteer activities, resulting in approximately 16,060 volunteer hours contributed to OCNMS programs. Organized volunteer enrichment programs and hosted volunteer appreciation events. Planned and hosted spring Olympic Coast Discovery Center Docent Training for nine new volunteers. Trained 34 new volunteers for COASST Program, in partnership with University of WA – giving us 124 volunteers who are monitoring beaches for dead bird carcasses monthly. Volunteers were recruited, trained and managed for monthly marine debris monitoring. Served on CoastSavers steering committee to organize beach cleanups with over 1000 volunteers participating.	
OPS7 Permitting and Consultation	H	●	<p>OCNMS assumed lead role for 2 multi-sanctuary permits and assisted with the issuance of a third multi-sanctuary permit. OCNMS issued 6 OCNMS permits and 2 OCNMS permit renewals. Reviewed information and responded to several additional permit inquiries. Provided regular updates on permit applications and issuance to the Advisory Council via the bi-monthly Office Report.</p> <p>Initiated work on a Programmatic Agreement for NHPA Section 106 consultations. Drafted list of issues for discussion and outline of Programmatic Agreement. Reviewed example programmatic agreements and consulted with SHPO and ONMS Maritime Heritage Program on goals for the document.</p>	
OPS8 Voluntary Compliance	M	●	<p>An updated ATBA Flyer showing changes to the ATBA was posted on the OCNMS website and is currently being used as part of the OCNMS ATBA Monitoring and Outreach effort.</p> <p>OCNMS updated information to inform pilots on recent changes to sanctuary regulations and the agreement of the FAA to publish the regulation on their aeronautical charts. As part of the sanctuary's voluntary compliance efforts a "Know Before You Go, Don't Fly Low" poster was drafted, reviewed by partners, posted on an updated OCNMS overflight page, and mailed to approximately 150 Washington State airports. Airport managers were requested to display the poster in an area frequented by pilots. Sanctuary regulations prohibit the disturbance of wildlife by low flying aircraft. The poster was designed to reflect the style of an Aeronautical Sectional Chart and to include natural resource information explaining the rationale behind the regulation and the benefits to sanctuary resources. OCNMS anticipates that that by reaching out to pilots and explaining the potential impacts from low overflights, there will be fewer low altitude flights off the coast of Washington. OCNMS also staffed a booth at the 30th Northwest Aviation Conference and Trade Show, which is advertised as the Northwest's premier aviation event with over 12,000 aviation enthusiasts attending, over 80% of whom are pilots. A full page ad of the poster was published in the conference's program.</p>	
OPS9 Enforcement	L	●	<p>The Technical Enforcement Committee held two bi-annual meetings.</p> <p>OCNMS and other West Coast Region sanctuaries coordinated with the newly-established Pacific Regional Fisheries Training Center (PRFTC), located in Alameda, California. The Training Center provides living marine resource (LMR) instruction to approximately 85 operational units annually that conduct LMR patrols throughout Coast Guard Districts 11, 13, and 14. WCR</p>	

Action Plans/Strategies	MP Priorities - Level Funding: Scenario 1	FY13 AOP Status	Table Legend	
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			Status	
			<p>sanctuaries contributed to training materials and drafted NMS information to be included in the Boarding Officers Job Aid Kits (BOJAK). Observed and participated in training to Station Quillayute River personnel, which was based on this material.</p> <p>Conducted enforcement training and OCNMS orientation with the Air Station/ Sector Field Office Port Angeles Pilots.</p> <p>Coordinated with NOAA OLE and ONP rangers on an overflight violation, resulting in a written warning for an OCNMS violation and an ONP press release informing the public of the violation and the purpose of the regulations.</p>	
OPS10 Implementation Reporting	H	●	The sanctuary completed the 2012 Management Plan Implementation Report documenting progress on action plans and reporting on performance measures. The implementation report and a draft FY 2013 priorities document were presented to the AC and IPC as background documents for the joint November 2012 AC/IPC meeting.	
B1. Habitat Mapping and Classification Action Plan				
MAP1 Regional Coordination	H	◉	<p>Two regional mapping initiatives, proposed in 2012, in which OCNMS would have been involved were not selected for implementation; these include a proposal to Washington State that would have formed a seafloor mapping consortium to support their MSP effort and a habitat mapping cooperative involving coastal tribes.</p> <p>Successful partnership with NOAA Office of Coast Survey resulted in the loan of multibeam ancillary equipment and support of a Pacific Hydrographic Branch physical scientist to help OCNMS utilize hydrographic data quality standards for its habitat surveys.</p>	
MAP2 Seafloor Habitat Mapping	H	●	Surveyed 3.9 nm ² to support option analysis for the Misawa Dock removal. Data were delivered to the Pacific Hydro Branch. Nearshore mapping of Quileute Needles area continued, with groundtruthing of 2012 survey areas.	
MAP3 Habitat Classification	H	●	Conducted ground truthing for areas around La Push surveyed in 2012, as well as the Mosquito Creek area surveyed in 2013. Classified multibeam data from the Fairweather 2010 and Pacific Storm 2011 surveys.	
MAP4 Mapping Products	H	◉	Posted 2012 multibeam survey results and descriptions of underwater photos on the OCNMS web page. Prepared the entire library of OCNMS seafloor mapping data from 2000-2012 for inclusion in NCCOS & PACOOS EFH sites. Completed a report on the Seafloor Classification of Cape Alava (HMPR-125-2010-01). Report on Pacific Storm survey is in progress.	
B2. Physical and Chemical Oceanography Action Plan				
OCEO1 Coastal Mooring Program	H	●	Inventoried, replaced and calibrated moorings sensors. Prepared hardware and sensors for deployment, conducted deployments, servicing and data downloads from the <i>R/V Tatoosh</i> . Moorings retrieval and data compilation will occur early in FY 2014.	
OCEO2 Hypoxia	M	●	Conducted expanded water quality monitoring when hypoxic conditions were found (July) and reported findings to regional hypoxia listserv.	
OCEO3 Ocean Acidification	H	◉	Hosted an Ocean Acidification (OA) working group for the Advisory Council, which reviewed the state's Blue Ribbon Panel report; identified priority actions for the outer coast, and submitted recommendations to the State. Continued collection of OA proxy info from oceanographic mooring instruments.	
OCEO4 Harmful Algal Blooms	M	●	Plankton samples collected during mooring servicing delivered to ORHAB team	

Action Plans/Strategies	MP Priorities - Level Funding: Scenario 1	FY13 AOP Status	Table Legend	
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			Status	
B3. Populations, Communities and Ecosystems Action Plan				
ECO1 Water Column Communities	L	○	No activities identified for FY13.	
ECO2 Intertidal	M	●	Entered and submitted all historic data from OCNMS into MARINE database. Requested and were granted permissions from tribal councils for intertidal monitoring on tribal reservation lands; completed sand and rocky site monitoring on Makah and Quinault reservations in 2013. Received sand intertidal database from ONP for OCNMS entry (pending). Engaged Makah Summer Youth Program in sand intertidal monitoring; provided training in monitoring methods. Participated in annual MARINE meeting and presented on research in OCNMS; staff joined MARINE Steering Committee.	
ECO3 Subtidal	L	○	No activities identified for FY13.	
ECO4 Benthic	M	◉	Although no new surveys or collections possible, continued some data processing of archived video data.	
ECO5 Fish	L	◉	Collaborated with university graduate student to analyze groundfish-habitat association data from ROV video data.	
ECO6 Marine Birds	M	◉	<p>Pelagic seabird surveys from the <i>R/V Tatoosh</i> were not scheduled due to budget and staff time limitations. Review of monitoring efforts and analysis of data needs was not completed due to limited staff time.</p> <p>Participated in planning, field implementation, video review and reporting for a 2-week UAS pilot project to assess the vehicle's utility for low-impact census of seabird colonies, and successfully demonstrated minimal disturbance to wildlife from UAS overflights are relative low altitude.</p> <p>Coordination of COASST volunteers continued, with periodic volunteer recruitment and training opportunities, addition of key shoreline segments for monitoring, regular messaging to volunteers, and annual volunteer appreciation event.</p>	
ECO7 Marine Mammals	M	◉	Tested the Puma UAS for detecting sea otters and pinnipeds as a secondary mission in June 2013.	
ECO8 Stranding Network	L	●	Continued with collaborated in Northwest Marine Mammal Stranding Network activities. Participated in the annual meeting and training. Coordinated with Stranding Network coordinator for messaging sent to volunteers about reporting procedures.	
ECO9 Ecosystem Processes	M	○	No activities identified for FY13. Participated in state-led workshop to discuss selection of indicator species for Washington's outer coast.	
B4. Data Management, Sharing and Reporting Action Plan				
DATA1 Data Quality Control and Management	H	●	Field reports from 2012 were collected, analyzed, summarized, compiled and shared on the OCNMS web site.	
DATA2 Data Distribution	H	●	Nine field surveys were documented and posted on OCNMS web page: Mussel Watch, Sea Otter Census, Marine Mammal studies, 2 seafloor mapping surveys, MARINE intertidal monitoring, oceanographic surveys, pelagic bird surveys and hypoxia monitoring. A new database was created to facilitate more efficient reporting of annual surveys.	

Action Plans/Strategies	MP Priorities - Level Funding: Scenario 1	FY13 AOP Status	Table Legend	
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			Status	
DATA3 Adaptive Management	L	○	No activities identified for FY13.	
DATA4 Condition Report	M	○	No activities identified for FY13.	
C1. K-12 Education Action Plan				
ED1 K-12 Partnerships	H	●	<p>Hosted "Monitoring Ocean Change in the Classroom" (ocean acidification) teacher professional development workshop for fifteen K-12 teachers and five informal educators. Developed Monitoring Ocean Change in the Classroom Ocean Acidification kits for outer coast middle and high school teachers.</p> <p>Conducted an "Ocean Starts in your Backyard" teacher professional development workshop, in partnership with Seattle Aquarium and Feiro Marine Life Center. Twelve elementary school teachers from Washington's outer coast communities participated in this hands-on, inquiry based workshop focused on field investigations at the schoolyard and at the beach.</p> <p>Instructed NatureBridge teacher professional development workshop for thirty K-12 teachers.</p> <p>OCNMS and the Seattle Aquarium were awarded the Coastal America Award for the Ocean Science 4th - 5th grade Ocean Literacy program.</p> <p>Assisted Feiro Marine Life Center with needs assessment for outer coast middle and high schools.</p> <p>OCNMS Geographer Nancy Wright presented a class on Geographic Information System (GIS) Applications in OCNMS to Neah Bay High School students.</p> <p>Olympic Coast National Marine Sanctuary Resource Protection Specialist Liam Antrim presented "Life as a Marine Biologist" at Port Angeles High School Career Fair.</p> <p>Collaborated with Olympic National Park (ONP) staff to incorporate sanctuary information into ONP Junior Ranger Ocean Steward activity book.</p> <p>OCNMS worked with regional education organizations to leverage resources for K-12 Ocean Literacy Programs. (see ED2 – Place Based Education).</p>	
ED2 Place-Based Education	M	●	<p>OCNMS, in partnership with NOAA Fisheries, supported "Connecting People to Watersheds" Lake Ozette Sockeye salmon education program. The education program actively engaged students and community members in the recovery efforts of Lake Ozette sockeye salmon while exploring oral histories from the area, and helping them to make a connection to responsible stewardship actions. Students conduct interviews with community experts and document the history and significance of Lake Ozette Sockeye salmon from the perspective of their community. Schools targeted include Clallam Bay, Neah Bay, Forks and Quileute Tribe middle and high schools. Student videos were highlighted at Ocean And River Resources Festival, in Forks, WA.</p>	

Action Plans/Strategies	MP Priorities - Level Funding: Scenario 1	FY13 AOP Status	Table Legend	
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			Status	
			<p>Finished another successful year of North Olympic Watershed Science Program (N.O.W.), a joint partnership between Feiro Marine Life Center, Olympic National Park, and Olympic Coast National Marine Sanctuary, serving nearly 1000 fourth and fifth grade students from six school districts. N.O.W. Science is a B-WET (NOAA) funded education program that promotes experiential learning and connects students to conservation issues in their local watersheds.</p> <p>Completed the 7th year of Ocean Science programming for Washington's outer coast communities. Approximately 500 third, fourth, fifth and sixth grade students, from WA outer coast communities, participated in classroom activities, field trips to Feiro Marine Life Center and Seattle Aquarium, and beach field investigations. Data collected by students during beach trips are submitted to Washington Department of Fish and Wildlife NatureMapping citizen science program. Sixteen teachers and nearly 100 parents also participated in 2012-2013 Ocean Science trainings and activities. Schools include Ocosta, Simpson, Ocean Shores, Pacific Beach, Taholah, Lake Quinalt, Queets-Clearwater, Forks, Neah Bay and Clallam Bay.</p> <p>Led tidepool exploration activities for 145 Neah Bay Elementary School students, primarily tribal youth, during their annual Beach Day event. Following the beach activities, provided hands-on activities for 4th -5th grade students in the classroom.</p> <p>Conducted water quality study with Neah Bay Elementary School third grade students.</p> <p>Led Junior Oceanographer weekly camp programs for over 60 students this summer in partnership with Feiro Marine Life Center. The four camps, including two Remotely Operated Vehicle (R.O.V.) camps, focused on Ocean Literacy principles, inquiry-based learning, and hands-on activities for students ages 4 - 15.</p>	
ED3 Regional Initiatives	L	●	<p>Sanctuary staff worked collaboratively throughout the Washington Coastal region and Puget Sound to implement broader region-based education programs based on Meaningful Watershed Education Experiences and Ocean Literacy Principles. Partners include:</p> <ul style="list-style-type: none"> • Pacific County, Grays Harbor County and North Coast Marine Resource Committees • Pacific Education Institute (teacher professional development throughout Southwest Washington) • NOAA Office of Education B-WET program and grantees <p>Sanctuary staff serve on the NOAA Education Council Working Group on Regional Policy Initiatives, a NOAA-wide committee examining NOAA's influence in state- and region-level education policy.</p> <p>Through its administrative support of the Pacific Northwest B-WET grants program, OCNMS has become positioned as an education leader throughout the Pacific Northwest. Grants originating here were made in 2013 to six organizations, covering a geographic area from the Oregon/California border to Canada.</p>	

Action Plans/Strategies	MP Priorities - Level Funding: Scenario 1	FY13 AOP Status	Table Legend	
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			Status	
ED4 Using Technology	L	●	<p>Regularly update OCNMS "Sanctuary News" and "Calendar of Events" web pages. Also provided updates for "Teacher Resources", "Fun Stuff" and "Surveys and Cruises" web pages.</p> <p>Maintained "NOAA Olympic Coast National Marine Sanctuary" Facebook page since September, 2010; As of July 25, 2013, 1033 Fans from 20 different countries "Like" the site. See http://www.facebook.com/usolympiccoastgov.</p>	
C2. Higher Education Action Plan				
HED1 Internship Development	L	●	<p>OCNMS supported three Hollings Scholarship Program interns. The interns worked on projects including Junior Oceanographer Camp Youth Coordinator, Change and Analysis of Oceanographic Data, and Greenhouse Gas Inventory For Olympic Coast National Marine Sanctuary.</p> <p>Mentored Huxley College of the Environment students with Japanese marine debris monitoring project. Huxley College of the Environment students Pamela Griswold and Cassandra Grimm conducted marine debris data analysis from two data sources - data collected by citizen scientists supervised by Olympic Coast National Marine Sanctuary and data from volunteers conducting beach cleanups. The project was funded by the North Pacific Coast Marine Resources Committee. Project advisors are Rebekah Green, Western Washington University, Liam Antrim, Olympic Coast National Marine Sanctuary, and Ian Miller, Washington Sea Grant.</p> <p>OCMS Geographer Nancy Wright participated in a marine jobs panel discussion at Peninsula College oceanography class.</p>	
HED2 Volunteer Positions	L	●	<p>Clallam County AmeriCorps is no longer offering services on Olympic Peninsula, so a planned internship did not take place.</p> <p>Participated in Peninsula College First Annual Volunteer Fair with an informational booth and display.</p> <p>Trained fifteen Clallam County AmeriCorps members to act as beach captains, to assist with the Washington Coast Cleanup event, providing direction, general information, encouraging trash removal, and serving as point of contact at Neah Bay, Shi Shi, Lake Ozette, and Kalaloch beach locations.</p>	
HED3 College Partnerships	L	⊙	Participated in Peninsula College career fair.	
C3. Visitor Services Action Plan				
VISIT1 Visitor Experience	L	●	<p>OCNMS operated the Olympic Coast Discover Center (OCDC) to educate visitors and visiting school groups.</p> <p>Provided ongoing funding to Makah Museum for staffing interpretive services that provide visitors to the Makah Reservation with information about OCNMS and the Makah Tribe. Program reaches approximately 40,000 visitors annually at the Makah Museum and Cape Flattery.</p>	
VISIT2 Long-Range Interpretive Plan	M	●	<p>Completed work on the Olympic Coast National Marine Sanctuary Long Range Interpretive Plan. The revision included updates to locations and new and modified interpretive themes and provides greater consistency with other West Coast Region sanctuaries. In addition, the sanctuary, in partnership with Olympic National Park, the State of Washington and The Whale Trail, installed whale</p>	

Action Plans/Strategies	MP Priorities - Level Funding: Scenario 1	FY13 AOP Status	Table Legend	
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			identification signs at Kalaloch, Snow Creek and the Olympic Coast Discovery Center.	
VISIT 3 New Technology	L	●	The overhaul of Olympic Coast.noaa.gov was completed, with ongoing activities to update and deepen the website. Visitation to the website for FY13 was 181,011 unique visits.	
C4. Community Outreach Action Plan				
OUT1 Stewardship and Citizen Science	L	●	<p>OCNMS staff provided trainings and oversight of Coastal Observation and Seabird Survey Team (COASST) volunteers; provided regular COASST trainings at Hobuck Beach, and assisted with larger regional COASST trainings; tracked and reported COASST volunteer time and data.</p> <p>OCNMS provided support for the Washington CoastSavers beach cleanups - participated in planning for the April and September beach cleanups. For the April CoastSavers event, conducted Beach Captain training for Clallam County AmeriCorps members, organized registration station and coordinated volunteers at the Makah reservation.</p> <p>OCNMS expanded a citizen science shoreline debris monitoring program to support NOAA Marine Debris Program's national monitoring project.</p>	
OUT2 Staff Presence on Outer Coast	L	○	No activities identified for FY13.	
OUT3 Community Events	M	●	OCNMS staff maintained a presence at community events and meetings in the sanctuary region. Major public events included Makah Days, Dungeness Crab and Seafood Festival, Ocean Shores Beachcomber's Fun Fair, Grays Harbor Shorebird Festival, North Pacific Coast Marine Resources Committee's annual Ocean & River Resources Fair, Seattle Aquarium's Sea Otter Weekend and Ocean and River Resources Fair. OCNMS supported Feiro Marine Life Center speaker series. Provided hands-on activities at Roosevelt Elementary Reading Night and Franklin Elementary Science Night. Served on discussion panels following Peninsula College Global Lens film series. Provided presentations to local groups and organizations, including Port Angeles Chamber of Commerce, Port Angeles Rotary Club and other local forums.	
OUT4 Community-Based Efforts	L	●	<p>Participated in North Pacific Coast Marine Resources Committee meetings and serve as lead for marine debris cleanup activities.</p> <p>Provided regular postings on the sanctuary's Facebook site for community events, volunteer opportunities and trainings, and natural history information.</p>	
D1. Spills Prevention, Preparedness, Response and Restoration Action Plan				
SPILL1 ATBA Management, Compliance and Monitoring	H	●	<p>On December 1, 2012 changes to the International Maritime Organization (IMO) Area to be Avoided (ATBA) went into effect. The ATBA off Washington was originally adopted in 1994 to reduce the risk of a marine casualty and resulting pollution to Olympic Coast National Marine Sanctuary. The revised ATBA furthers this goal by expanding coverage to include all vessels that are required to prepare oil spill response plans, such as vessels of 400 gross tons or more. Commercial vessels carry large amounts of fuel, which, if spilled, could be extremely harmful to the sanctuary's sensitive marine resources.</p> <p>Updated ATBA Flyer and OCNMS web page, distributed a press release and conducted outreach to US and Canadian Maritime</p>	

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			<p>Industry. Worked with the US and Canadian Coast Guards to update Cooperative Vessel Traffic System ATBA procedures.</p> <p>Conceived, planned and implemented an innovative pilot project with Exact Earth to investigate the applicability of Satellite AIS data to OCNMS vessel monitoring.</p> <p>Utilized the S-AIS data to develop ATBA compliance figures for 2012. Loss of Canadian Coast Guard data resulted in the need to find a new data source. An added advantage to the new data source is that the complete sanctuary (v. just the North) is now covered.</p>	
SPILL2 Regional Vessel Management Forums	L	○	While no activities were planned for FY13, OCNMS staff did monitor on vessel traffic risk analyses being conducted for Puget Sound and Strait of Juan de Fuca related to anticipated future vessel cargo and traffic levels. The Advisory Council was briefed on the ongoing Vessel Traffic Risk Assessment.	
SPILL3 Regional Planning and Training Exercises	H	◉	<p>Attended annual Regional Response Team meeting to discuss NW Area Contingency Plan revisions for 2013. Joined and participated in the SCAT (shoreline cleanup and assessment team) working group to define pre-segmentation of shoreline for response activities.</p> <p>Promoted awareness of regional initiatives through presentations at Advisory Council meetings.</p> <p>OCNMS staff did not participate in a drill or exercise because relevant, local events were not identified in advance, and staff time and budget limitations prevented participation in further afield opportunities.</p>	
SPILL4 Outer Coast Trustees Working Group	M	○	No activities identified in FY13.	
SPILL5 OCNMS Organizational Response Plan	H	◉	Developed draft OCNMS Organizational Response Plan in software format accessible to computers without internet connectivity; additional work remains with beta-testing and improvement to this plan.	
SPILL6 Damage Survey and Assessment Protocols	H	○	No activities identified in FY13.	
D2. Climate Change Action Plan				
CLIM1 Climate Smart Sanctuary Program	L	●	Released Climate Change site scenario, "Climate Change and the Olympic Coast National Marine Sanctuary: Interpreting Potential Futures". This report provide a foundation of information and identify key issues facing the sanctuary and begins our work to develop management strategies that will help us anticipate potential challenges and adapt to the changing marine environment through sound science, public outreach, and partnerships. Developed joint IPC/SAC Ocean Acidification Working Group. Had Hollings Scholar develop Greenhouse Gas Emissions Inventory, as well as an action plan for reducing greenhouse gas emissions, for OCNMS.	
CLIM2 Sanctuary as Sentinel Site	M	◉	OCNMS requested advice from the Advisory Council on the identification of marine chemical, physical, and biological indicators of climate change that OCNMS and partners should consider monitoring; Science Working Group was formed to assist in this effort.	
CLIM3 Resilient Ecosystems	L	○	No activities identified for FY13.	

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CLIM4 Communicating Climate Change	L	●	<p>Hosted Monitoring Ocean Change in the Classroom (ocean acidification) teacher professional development workshop for fifteen K-12 teachers and five informal educators. Included presenters from NOAA Northwest Fisheries Science Center Ocean Acidification Lab, Suquamish Tribal Fisheries, University of Washington Applied Physics Lab Northwest Association of Networked Ocean Observing Systems (NANOOS), Stanford University Hopkins Marine Station and Seattle Aquarium. Developed Monitoring Ocean Change in the Classroom Ocean Acidification kits for outer coast middle and high school teachers.</p> <p>Provided ocean acidification content to Olympic National Park (ONP) for their Coastal Clock brochures. The brochures are available at all coastal trails in ONP.</p> <p>Provided Olympic Coast Discovery Center volunteers with background information and talking points regarding OA. Provided information and resources to general public, regarding ocean acidification and climate change, at community events and festivals.</p>	
D3. Marine Debris Action Plan				
MD1 Submerged or Floating Debris	H	●	<p>Assisted with drafting of federal agency annex to the state's Japan Tsunami Marine Debris response plan.</p> <p>Partnered with The Nature Conservancy and Quinault Nation in grant application to fund survey and removal of derelict crab pots off the Washington coast. Unfortunately, this project was not funded.</p>	
MD2 Beach Debris	H	●	<p>Contributed to effort to remove the dock originating from Misawa, Japan, from the remote Washington shoreline. Served as lead agency for ESA and MMPA consultations. Completed a sonar survey of potential egress routes for tow-salvage option. Served as lead agency for salvage contracting. Provided field oversight of dock salvage operations. Contributed to after-action report.</p> <p>Continued supervision of citizen science volunteers and expanded number of monitoring segments for shoreline debris monitoring. Entered data into national database. Consulted with NOAA's lead on marine debris monitoring on various issues and provided review comments on draft guidance and outreach products. Provided routine updates to volunteers and others on debris materials arriving of potential Japanese Tsunami Marine Debris (JTMD) origin.</p> <p>Contributed to CoastSavers (beach cleanup coordination) capacity and expansion. Assisted with funding procurements, hiring of new coordinator, expansion of efforts to include multiple cleanup events each year, organization and coordination of large April cleanup event.</p> <p>Funded and coordinated two Washington Conservation Corps crews on pilot project to remove debris from remote areas on Olympic National Park and Makah Reservation shores;</p> <p>Conducted outreach on shoreline debris and JTMD at numerous public and management agency meetings;</p>	

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D4. Wildlife Disturbance Action Plan				
WD1 Outreach on Wildlife Disturbance	L	●	Prepared new materials and conducted outreach related to overflight disturbance of wildlife, see WD2. Converted incident database from Filemaker Pro to Microsoft Access.	
WD2 Overflight Restriction Zone	L	●	An updated overflight poster was completed to inform pilots on changes to sanctuary regulations and the agreement of the FAA to publish the regulation on their Aeronautical charts. See OPS8.	
WD3 Marine Mammal Disturbance	M	○	No activities identified for FY13 other than consideration of inquiries and issuance of permits with special conditions to mitigate marine mammal disturbance	
D5. Water Quality Action Plan				
WQP1 Vessel Discharges	H	●	Attended annual cruise ship MOA meeting. Consulted with Neah Bay and La Push marina managers about sewage and bilgewater pump out stations; investigated funding for marina infrastructure improvements.	
WQP2 Contaminants	L	○	No activities identified for FY13, as the Mussel Watch program is conducted biennially.	
D6. Habitat Protection Action Plan				
HP1 Threat Assessment and Mitigation	M	○	No activities identified for FY13.	
HP2 Habitats of Special Importance	H	●	OCNMS and the Washington State Department of Fish and Wildlife (WDFW) jointly responded to a Request for Proposals from the Pacific Fishery Management Council as part of its five-year review of Groundfish Essential Fish Habitat (EFH) along the west coast. The OCNMS/WDFW submission "Options for Potential Modifications to Olympic 2 Groundfish Essential Fish Habitat Conservation Area in Washington State" contained three options to increase protection of sensitive biogenic and rocky reef habitats both within and adjacent to the existing Olympic 2 Conservation Area.	
HP3 Invasive Species	M	○	While no activities were planned for FY13, OCNMS approved procedures for invasive and non-native species mitigation on the Misawa dock. Consulted with Olympic National Park about plans to initiate aquatic invasive species monitoring associated with the Misawa dock landing near Mosquito Creek. Provided information to citizen science volunteers on invasive species and Japan tsunami debris.	
D7. Regional Ocean Planning Action Plan				
MSP1 Marine Spatial Planning	L	●	OCNMS met with the Washington State Ocean Caucus to discuss areas of collaboration in 2013. OCNMS has agreed to support ongoing Washington State efforts related to Marine Spatial Planning. The agreed priority was for OCNMS staff to support the following MSP initiatives (1) habitat mapping priorities, (2) MSP goals and objectives setting, and (3) participating in human use mapping workshops. Information on how OCNMS can assist the state's MSP efforts in the area of in vessel traffic monitoring and habitat mapping was provided but definitive plans for collaboration were not made.	

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E1. Maritime Heritage Action Plan				
MH1 Cultural Resource Conservation	L	○	No activities identified for FY13.	
MH2 Local and Customary Knowledge	L	●	OCNMS staff supported a collaborative effort to characterize tribal cultural landscapes. The project is a partnership between the Bureau of Ocean Energy Management (BOEM), ONMS, the National Marine Protected Areas Center and Tribal Historic Preservation Offices (THPOs) from three tribes (Yurok Tribe of CA, Confederated Tribes of Grand Ronde, OR and Makah Tribe of WA). This ongoing project involves inter-tribal workshops, an analysis guide, case studies and outreach and is intended to be adaptable for other Native American communities to utilize in the future.	
MH3 Public Understanding of Treaty Rights	L	○	No activities identified for FY13.	
E2. Socioeconomic Values of Sanctuary Resources Action Plan				
SV1 Existing Socioeconomic Information	L	●	OCNMS with support from ONMS will complete a study area profile from existing sources, primarily from the Bureau of the Census and the Bureau of Economic Analysis. Standard profiles are being developed for each sanctuary study area. Brief the AC on the proposed process for completing the initial profile and seek advice on potential sources of information, as well as how to involve AC member's organizations and governments in the process. The resulting study area products will be posted to the OCNMS website.	
SV2 New Socioeconomic Information	L	○	No activities identified for FY13.	