

National Marine Sanctuaries
National Oceanic and Atmospheric Administration



NATIONAL MARINE
SANCTUARIES

OLYMPIC COAST



Spring 2016 Education Update: Website, kiosks and Get Into Your Sanctuary

Oh my!

By: Jacqueline Laverdure

Education and Outreach Coordinator

2016 OCNMS WEBSITE OVERHAUL

The screenshot shows the homepage of the Olympic Coast National Marine Sanctuary website. At the top, there are logos for the National Marine Sanctuaries and NOAA, along with the text "National Marine Sanctuaries National Oceanic & Atmospheric Administration". The main title "OLYMPIC COAST NATIONAL MARINE SANCTUARY" is prominently displayed. A navigation menu on the left includes links for Home, Living Sanctuary, Visitor Information, Ocean Literacy, Science, Management, Resource Protection, Advisory Council, Get Involved, News & Events, Library, and About Us. Below the menu is an RSS Feed icon and a search bar. Social media links for Facebook and Twitter are also present. The main content area features a large image of a starfish and a "WELCOME" heading. Below this is a large photograph of a coastline with waves. A text block below the photo reads: "Welcome to NOAA's official website for Olympic Coast National Marine Sanctuary. Within these pages you'll find words, maps and pictures that just begin to hint at the wonders of this important part of America's marine landscape and the National Marine Sanctuary System." At the bottom, there is a photograph of an orca whale with the caption "Orca whales are one of 29 species of marine mammals in the sanctuary." and a credit to "Gary L. Friedrichsen".

National Marine Sanctuaries
National Oceanic & Atmospheric Administration

OLYMPIC COAST NATIONAL MARINE SANCTUARY

Home
Living Sanctuary
Visitor Information
Ocean Literacy
Science
Management
Resource Protection
Advisory Council
Get Involved
News & Events
Library
About Us

RSS Feed

Search

Find us on Facebook

Follow us on twitter

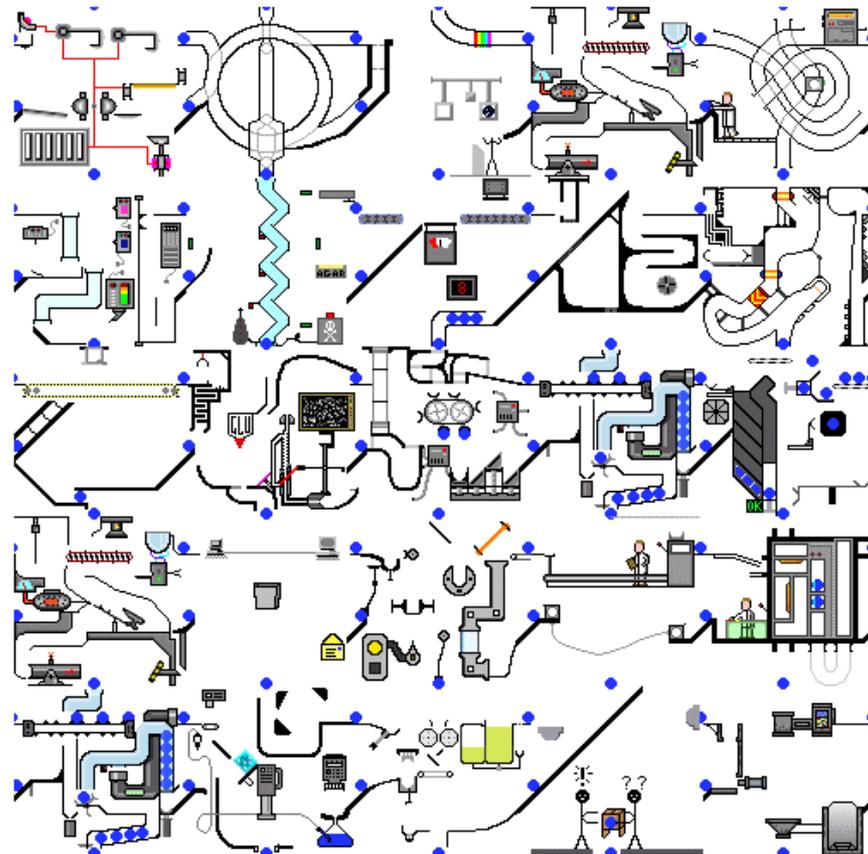
WELCOME

Welcome to NOAA's official website for Olympic Coast National Marine Sanctuary. Within these pages you'll find words, maps and pictures that just begin to hint at the wonders of this important part of America's marine landscape and the [National Marine Sanctuary System](#).

Orca whales are one of 29 species of marine mammals in the sanctuary.

Gary L. Friedrichsen

2016 OCNMS WEBSITE OVERHAUL



SANCTUARIES HAVE NEW LOOK!



NATIONAL MARINE SANCTUARIES

Search

[Visit](#) [News](#) [Explore](#) [Learn](#) [Get Involved](#) [Photos & Videos](#) [About](#) [Contact](#)



How can education help mitigate ocean acidification?



<http://sanctuaries.noaa.gov/>

NEWS

The latest news from your national marine sanctuaries

NEWS

[Latest News](#)

[Press Releases](#)

[For Media](#)

[Federal Register Notices](#)

[Calendar](#)

[Sanctuary Watch](#)



[5 Ways to Enjoy the Florida Keys While Protecting the Reef](#)



[There is no selfie stick long enough!](#)



More Information

[News Archives](#)

[News RSS Feed](#)

CONSERVATION SCIENCE

CONDITION REPORTS

How Are We Doing

SENTINEL SITES

On The Lookout

SCIENCE NEEDS

What We Need To Know

CONSERVATION SERIES

From The Scientists

SCIENCE TO MANAGEMENT

Why Science Matters

SOCIOECONOMICS

Why Money Matters

MONITORING PROGRAMS

What Are We Watching

GEOGRAPHIC INFORMATION DATA

Maps & Data

[ONMS Library](#)

[Staff Listings](#)

[Scholarship](#)

[Volunteer](#)



CONDITION REPORTS

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SENTINEL SITE PROGRAM

GET INVOLVED

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Volunteer

Volunteers help to ensure marine sanctuaries remain America's underwater treasures for future generations.



VOLUNTEER OPPORTUNITIES

Volunteers participate in a wide variety of activities including diving, whale identification, beach cleanups, water quality monitoring, collecting field observations and surveys, acting as visitor center



CITIZEN SCIENCE

Citizen science volunteers work with scientists to: identify research questions; collect and analyze data; interpret results; make new discoveries; develop technologies and applications; and/or solve complex problems.



HOW YOU CAN TAKE ACTION

NOAA has published a notice requesting comments on the methods, formulas, and rationale for the calculations it will use in order to assess fees associated with special use permits (SUPs).



NATIONAL MARINE SANCTUARY FOUNDATION

The National Marine Sanctuary Foundation enhances national marine sanctuaries in their goal to protect essential U.S. marine areas and to ensure a healthy ocean.

VISIT

A guide for exploring your national marine sanctuaries.



PREPARE FOR YOUR VISIT

Get ready to visit a sanctuary near you!

- [Sanctuary Locations](#)
- [About Your Sanctuaries](#)
- [Marine Forecasts](#)
- [Regulations](#)
- [Ocean Etiquette](#)
- [Event Calendar](#)
- [Mobile Apps](#)
- [Get Involved](#)
- [Contact Us](#)



VISITORS CENTERS & EXHIBITS

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- [Kiosks](#)



THINGS TO DO

Explore the [variety of activities](#) these destinations have to offer!

- [Diving / Snorkeling](#)
- [Fishing](#)
- [Boating](#)
- [Paddle Sports](#)
- [Surfing](#)
- [Whale Watching](#)
- [Wildlife Viewing](#)
- [Tidepooling](#)
- [Heritage Trails](#)
- [Stewardship](#)



WHAT WILL I SEE?

Learn more about the variety of marine habitats and creatures in sanctuary waters.

- [Ecosystems](#)
- [Ocean Life](#)
- [Virtual Tours](#)
 - [Flower Garden Banks](#)
 - [Stellwagen Bank](#)
 - [Cordell Bank](#)
 - [Papahānaumokuākea](#)
- [Earth is Blue Photos & Videos](#)



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**FULLY INTERACTIVE AND
EVERYTHING IS INTERLINKED**



RESPONSIVE TO FIT ALL DEVICES

West Coast Marine Wildlife Viewing Experiences
You Can't Miss



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WHAT'S HOT! FEATURED STORIES



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SEARCH FUNCTION



NATIONAL MARINE SANCTUARIES

[VISIT](#)[EXPLORE](#)[SCIENCE](#)[PROTECT](#)[LEARN](#)[GET INVOLVED](#)[LIBRARY](#)[PHOTOS & VIDEOS](#)[ABOUT](#)[CONTACT](#)

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- THINGS TO DO
- DISCOVERY CENTER
- FEATURED PLACES
- CALENDAR OF EVENTS (LINK)**
- VISITOR LINKS



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THINGS TO DO

- HIKING
- DIVING
- BEACHCOMBING
- TIDEPooling
- TIDEPool ETTIQUETTE
- SURFING
- KAYAKING
- FISHING
- BOATING SAFETY
- WILDLIFE WATCHING
- WILDLIFE WATCHING REGULATIONS

DISCOVERY CENTER

(VOLUNTEER WITH US LINK)

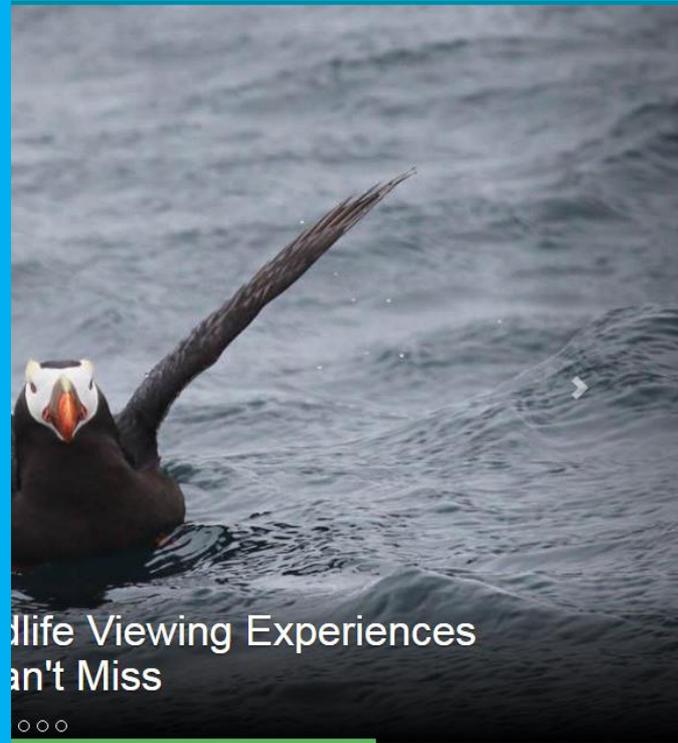
FEATURED PLACES

- WHALE TRAIL
- OLYMPIC NATIONAL PARK
- STATE PARKS
- BEACH LIST (WITH PIX)

CALENDAR OF EVENTS (LINK)

- 2016 CALENDAR
- ARCHIVED CALENDARS

VISITOR LINKS



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OCEAN ENVIRONMENT
MARINE LIFE
HABITATS
HISTORY AND CULTURE
SOCIOECONOMICS



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OCEAN ENVIRONMENT

- GEOLOGY
- CLIMATE
- WAVES AND CURRENTS
- UPWELLING

- HAB
- OCEAN CHEMISTRY
- OA

MARINE LIFE

- MARINE MAMMALS
 - MARINE MAMMALS SPECIES LIST
 - MARINE MAMMALS STRANDING NETWORK

- SEABIRDS
 - SEABIRDS SPECIES LIST

- FISH
 - FISH SPECIES LIST

- INVERTEBRATES
 - INVERTEBRATES SPECIES LIST
 - INVERTS OF INTEREST

SEAWEEDS

HABITATS

- INTERTIDAL ZONE
 - TIDEPPOOL ETTIQUETTE

- KELP FOREST
 - KELP FOREST VIDEO

- ROCKY REEFS
- OPEN OCEAN
- SEAFLOOR

- SEAFLOOR SLIDESHOW & VIDEO

HISTORY AND CULTURE

- MARITIME ARCHEOLOGY
 - SHIPWRECKS

- SHIPWRECK MAP
- INDIVIDUAL SHIPWRECK

NATIVE CULTURES

SOCIOECONOMICS

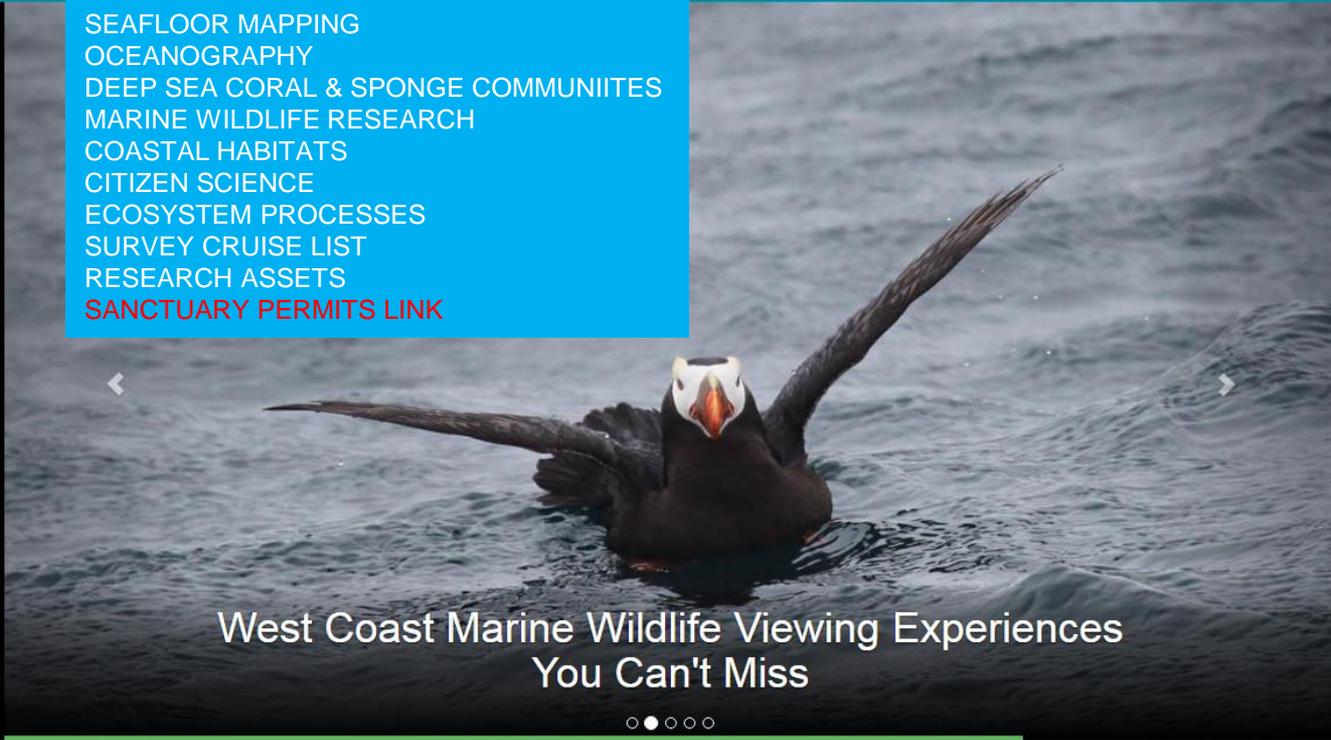


ing Experiences

arks encompassing more than 170,000 square miles of n to American Samoa. The network includes a system of ments.



- SEAFLOOR MAPPING
- OCEANOGRAPHY
- DEEP SEA CORAL & SPONGE COMMUNITIES
- MARINE WILDLIFE RESEARCH
- COASTAL HABITATS
- CITIZEN SCIENCE
- ECOSYSTEM PROCESSES
- SURVEY CRUISE LIST
- RESEARCH ASSETS
- SANCTUARY PERMITS LINK**



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SEAFLOOR MAPPING

- SONAR MAPPING
- GROUNDTRUTHING
- BENTHIC SEDIMENT TYPES CLASSIFICATION
- FIBER OPTIC MONITORING
- RELATED SURVEYS
- DATA, REPORTS AND PRODUCTS

OCEANOGRAPHY

- SCIENCE MOORINGS
- CLIMATE CHANGE AND OA
- HYPOXIA
- HARMFUL ALGAL BLOOM
- WATER COLUMN INFO
- OCEANOGRAPHIC CHARACTERIZATION
- RELATED SURVEYS
- DATA, REPORTS AND PRODUCTS

DEEP SEA CORAL & SPONGE COMMUNITIES

- TOOLS, DATA, COLLECTION AND ANALYSIS
- DEEP SEA BENTHIC INVERTEBRATES & FISH EFH
- RELATED SURVEYS
- DATA, REPORTS AND PRODUCTS

MARINE WILDLIFE RESEARCH

- MARINE MAMMALS RESEARCH
- MARINE BIRDS RESEARCH
- SEA TURTLE RESEARCH
- STRANDING NETWORKS
- PARTNERSHIPS
- RELATED SURVEYS
- DATA, REPORTS AND SURVEYS

Continued on next slide....



Experiences

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13 nati

encompassing more than 170,000 square miles of
American Samoa. The network includes a system of
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Continued...

COASTAL HABITATS

- INTERTIDAL MONITORING
- KELP
- SUBTIDAL
- BENTHIC BIOLOGY
- FISH AND FORAGE
- INVASIVE SPECIES
- RELATED SURVEYS
- DATA, REPORTS AND SURVEYS

CITIZEN SCIENCE

- COASST
- MARINE DEBRIS
- REEF
- MUSSEL WATCH
- DATA, REPORTS AND PRODUCTS

ECOSYSTEM PROCESSES

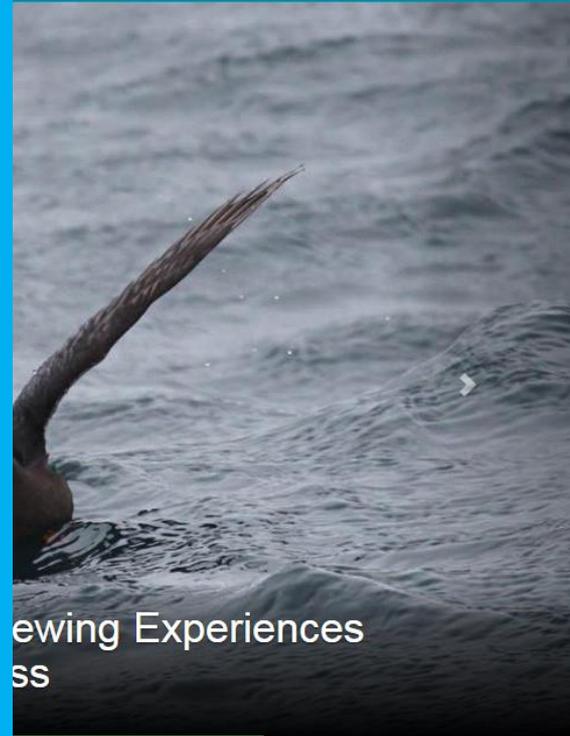
- IEA
- EBM
- PACOOS
- ECOHAB
- ORHAB

SURVEY CRUISE LIST

- SEAFLOOR MAPPING
- MARINE MAMMAL SURVEYS
- MARINE BIRD SURVEYS
- MOORING SURVEYS

RESEARCH ASSETS

[SANCTUARY PERMITS LINK](#)



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Nati

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marine
13 natio

water parks encompassing more than 170,000 square miles of
e Huron to American Samoa. The network includes a system of
monuments.



- SANCTUARY REGULATIONS
- POLICY AND PLANNING (FORMALLY MANAGEMENT)
- SPILL PROTECTION
- INCIDENT RESPONSE
- MARINE DEBRIS
- WILDLIFE PROTECTION
- WATER QUALITY PROTECTION
- HABITAT PROTECTION
- SANCTUARY PERMITS



West Coast Marine Wildlife Viewing Experiences You Can't Miss

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SANCTUARY REGULATIONS

- PERMITS
- ENFORCEMENT

POLICY AND PLANNING (FORMALLY MANAGEMENT)

- MANAGEMENT 101
- MANAGEMENT PLAN REVIEW
 - MPR DOCUMENTS
 - PRIORITY TOPICS
 - FAQs
 - TIMELINE

IPC

- CHARTER AGREEMENT

- REGULATIONS
- PERMITS

SPILL PROTECTION

- ATBA
- VESSEL TRAFFIC

INCIDENT RESPONSE

- REGIONAL MGMT & COORDINATION

MARINE DEBRIS

- BEACH CLEANUP
- DERELICT FISHING GEAR
- JAPANESE TSUNAMI DEBRIS**
- SUNKEN VESSELS**

WILDLIFE PROTECTION

- OVERFLIGHT RESTRICTION ZONE
- WATCHABLE WILDLIFE
- MARINE MAMMAL STRANDING NETWORK

WATER QUALITY PROTECTION

- VESSEL DISCHARGES
- CONTAINMENT MONITORING

HABITAT PROTECTION

- THREAT ASSESSMENT
- SPECIAL PROTECTION
- INVASIVE SPECIES

SANCTUARY PERMITS

National Marine

The Office of National Marine
marine and Great Lakes water
13 national marine sanctuarie

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moa. The network includes a system of



K-12
HIGHER EDUCATION
INTERPRETIVE SERVICES
BWET
COMMUNITY OUTREACH



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K-12

TEACHERS

RESOURCES

STUDENTS

FUN STUFF

HIGHER EDUCATION

INTERNSHIPS

INTERNSHIP OPPORTUNITIES

SCIENCE NEEDS

ADULT EDUCATION

INTERPRETIVE SERVICES

LRIP

BWET

FUNDED PROGRAMS

PROPOSAL GUIDELINES

COMMUNITY OUTREACH

CALENDAR OF EVENTS

West Coast Marine Wildlife Viewing Experiences You Can't Miss



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VOLUNTEER WITH US
ADVISORY COUNCIL



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- VOLUNTEER WITH US
 - VOLUNTEER OPPORTUNITIES
 - VOLUNTEER RECOGNITION
 - INDIVIDUAL BIOS
 - VOLUNTEER NEWSLETTERS
- ADVISORY COUNCIL
 - MEMBER LIST
 - MEETING SCHEDULE
 - ARCHIVED SCHEDULES
 - ACTIONS AND RECOMMENDATIONS
 - SAC CHARTER
 - WORKING GROUPS



West Coast Marine Wildlife Viewing Experiences You Can't Miss

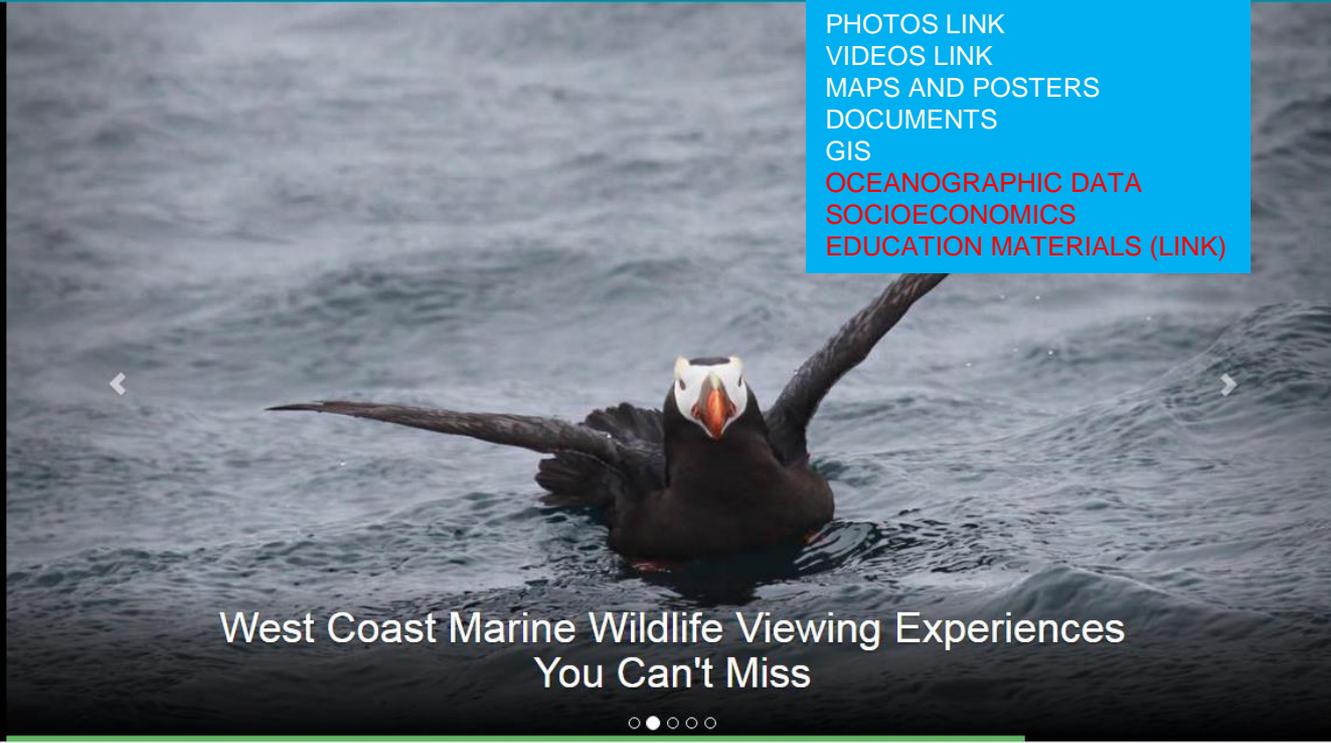


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- PHOTOS LINK
- VIDEOS LINK
- MAPS AND POSTERS
- DOCUMENTS
- GIS
- OCEANOGRAPHIC DATA
- SOCIOECONOMICS
- EDUCATION MATERIALS (LINK)



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- PHOTOS LINK
- VIDEOS LINK
- MAPS AND POSTERS
- DOCUMENTS
- CONDITION REPORT**
- MANAGEMENT PLAN
- FEDERAL REGISTER
- FEIS DOCS
- CONSERVATION SERIES**
- PRESS RELEASES LINK
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PHOTOS
VIDEOS



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- FACT SHEET
- OFFICE REPORTS
- SANCTUARY NEWS
- PRESS RELEASES
- FEDERAL REGISTER LINK
- CALENDAR OF EVENTS LINK
- CONTACT US LINK
- STAFF BIOS
- FACILITIES
- RELATED LINKS
- OFFSITE DISCLAIMER
- LINK TO WEB POLICY (HQs)

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EMAIL
PHONE
ADDRESS



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NEWS

The latest news from your national marine sanctuaries

NEWS

[Latest News](#)

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[Federal Register Notices](#)

[Calendar](#)

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[5 Ways to Enjoy the Florida Keys While Protecting the Reef](#)



[There is no selfie stick long enough!](#)



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THINGS TO DO

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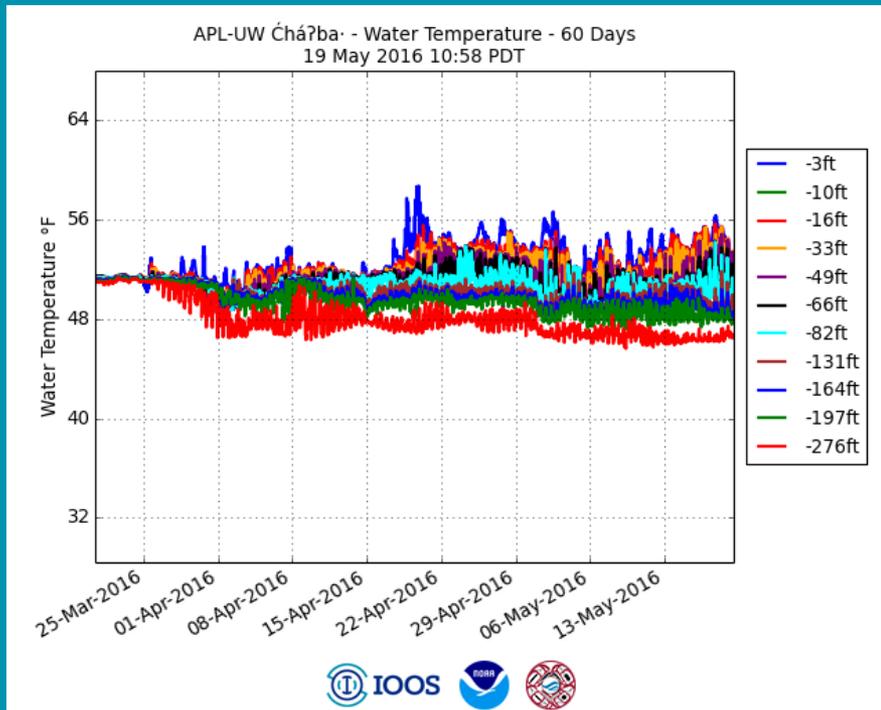
NOAA KIOSKS UPDATE

Summer 2016 installation

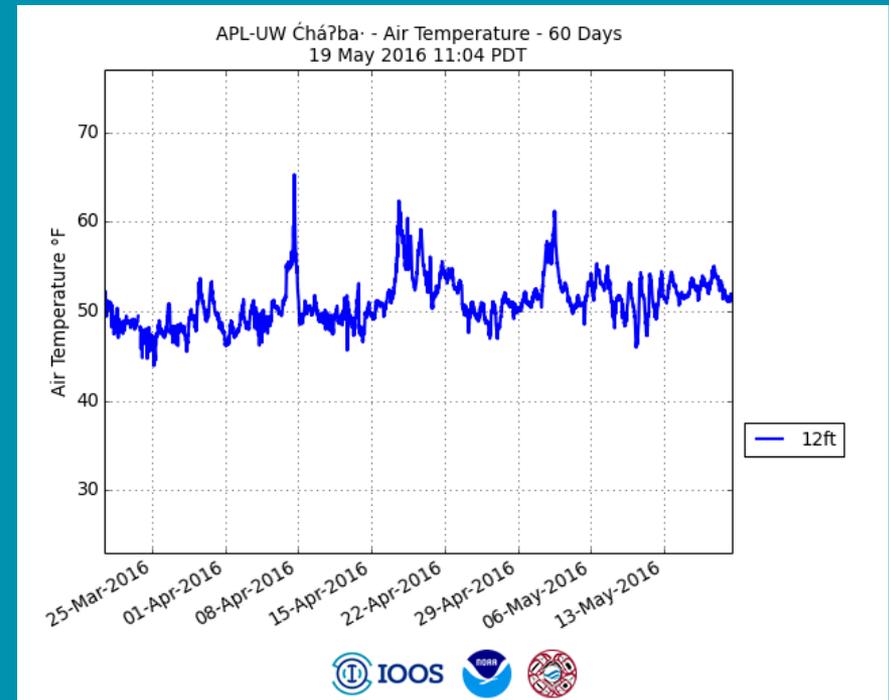
- Forks Visitor Center
 - Kalaloch Lodge
- Olympic National Park
“Partners Page”



NOAA KIOSKS UPDATE



Water Temperature (° F) at
University of Washington
Applied Physics Lab NANOOS
Čhá?ba Buoy near La Push



Air Temperature (° F) at
University of Washington
Applied Physics Lab NANOOS
Čhá?ba Buoy near La Push



Real time link to NANOOS data!

NOAA KIOSKS UPDATE



Kids Corner link to EarthEcho Shell Shocked video!



A system-wide public outreach effort to raise awareness about sanctuaries and how to responsibly enjoy them

Goals



To raise awareness of National Marine Sanctuaries as iconic destinations for responsible recreation by:

- 1) showcasing responsible recreational and sustainable tourism opportunities
- 2) engaging communities and individuals via social media #ILoveMySanctuary
- 3) building relationships with local tourism partners
- 4) hosting Members of Congress to take part in recreational activities during the chosen day

Discover the Olympic Coast

Film and Presentation by Florian Graner



Friday, June 17 at 7:00pm
Olympic National Park Visitor Center

Discover the Olympic Coast Kids Activities at Port Angeles Library

"Discover the Olympic Coast" – Observing the organisms in the film

Name of organism	What does it eat? How does it capture its prey?	How does it protect itself from predators?	How is it adapted to its habitat?	Other observations?

"The Diverse Ecosystem of the Olympic Coast"

Overview:
Using the video, "Discover the Olympic Coast" as a model of a living classroom, students will explore the organisms in the marine environment off the coast of the Olympic Peninsula by focusing on their adaptations for movement and capturing their prey. Applying these observations, students then actively create a complex food web modeling the diverse and interconnected nature of our Olympic Coast waters.

Time Frame:
Video: length is 29 minutes. If possible, show the video to students on one day so they can experience the images and information without focusing on any learning objectives. Then plan to show the video again on another day with the adaptation/habitat/food web activity following.

Activity #1 - viewing the video "Discover the Olympic Coast":
Introduction: 10 minutes
Video: 29 minutes
Debrief of Video: 10-15 minutes

Activity #2 - "Food Web in the Olympic Coast":
Introduction: 10 minutes
Creating the Food Web: 10 minutes
Debrief of the Food Web activity: 15-20 minutes

Materials:

- white board and 2-3 black dry erase markers; 2 more markers of different colors
- set of "Food Web Cards" (5x5) with magnets on the back; sort so that producers and decomposers are handed out first, 1st order consumers second, 2nd order consumers third, and 3rd order consumers last
- set of "Predator/Prey Cards" (5x6)
- three posters with the following information:

Definitions:

- 1) A **predator** is an animal that eats another animal. **Prey** is an animal that gets eaten.
- 2) An **organism** is a living thing such as an animal or plant.
- 3) A **habitat** is an animal or plant's home, where it gets food, shelter, and protection.
- 4) An **adaptation** is part of an organism's body, or some

Energy flows from the prey to the predator. For example:
Phytoplankton → zooplankton → herring

If one type of organism is removed from a habitat, the

Preparation:

- Place or tape the set of "Predator/Prey Cards" (5x6 set) and the "Harbor Seal", "Zooplankton" and "Herring" 5x6 cards
- Post the three posters in the classroom where they can be posted above the white board where the food web



Saturday, June 25 at 9:00am

Nature Photography Workshop at Ruby Beach with ONP



Saturday, June 25 at 9:30am

Youth Nature Photography Workshop with Meredith Parker



Photo Credit Polly DeBari

Saturday, June 25 at 9:30am

#ILoveMySanctuary



Take photos while enjoying your favorite sanctuary experiences, then share with #ILoveMySanctuary



Enter your best shots in the

Get into Your Sanctuary photo contest:

- Categories: sanctuary views, sanctuary life and sanctuary portraits
- Photos must be received between June 1—July 15
- Submit to earthisblue@noaa.gov
(Minimum size of 1200 pixels wide)

Olympic Culinary Loop

Custom placemats!

Office of National Marine Sanctuaries
National Oceanic and Atmospheric Administration
OLYMPIC COAST NATIONAL MARINE SANCTUARY

Sihi Beach and Point of the Arches
Photo credit: Seattle Aquarium

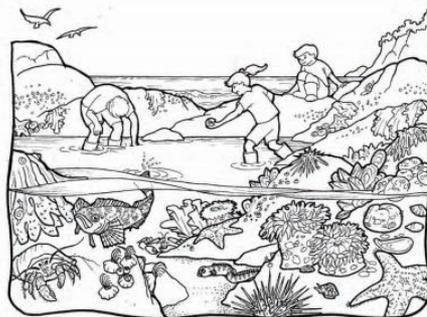
Olympic Coast National Marine Sanctuary's productive marine ecosystems is home to rich marine mammal and seabird faunas, diverse populations of kelp and algae, and thriving invertebrate communities.

Olympic Coast National Marine Sanctuary is one of our nation's most treasured areas, spanning 3,189 square miles of marine waters off the rugged Olympic Peninsula coastline.

Orcas, gray whales, sea otters, harbor seals and Steller and California sea lions can be spotted from land at many locations along the coast at some time during the year.

The sanctuary is rich in cultural resources, with over 200 documented historical shipwrecks and the vibrant contemporary cultures of the Quinalt Indian Nation and Makah, Quileute and Hoh Indian tribes.

OLYMPICCOAST.NOAA.GOV



Beach Protector's Pledge

I will take care of beach life by touching gently, always walking carefully, and leaving animals where I found them.

I will share my knowledge of the beach with friends and family.

I will always do my best to protect the beach and the animals that live there.

TAKE ONLY LITTER

Sign your name here _____

Word Search

QUZNFWHJRCVXWARWJPPYB
HKSNZSHLELQGAOCTOPUS
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CPSJNEPNLMPUIPYRTSJI
LHPERCAOGKCDDEQPICM
TXIBEKTSKOZIZYXADUUP
BPFTZSTUTXDBIFYMELNE
OPLEOWYZAAARDSTBTPT
ZSLNLMNVRRAYBOXGISD
QUXMVYWSADYNFYPHNLW
XDIKYVOXLPXCYQZZOKOA
INTERTIDALLHVLLOWLDYV
VMYBARNACLEANFXMHMHE
MYANEMONEGKVEXSUSYS
EOKWYTHAJRAEMEFSEUIA
XBRPERIWINKLEOYSBRPK
BLWTJAJAEPTSGZLEICRK
YCCRABRSSTDNUANLHHCT
YDRERTBJPLZQQEELPIXM
XBPNNHNMINPRGKGYXNVJ

CRAB	INTERTIDAL	OCTOPUS	SANCTUARY
BARNACLE	ALGAE	CHITON	SEASTAR
SCULPIN	LIMPET	WHELK	MUSSEL
URCHIN	ANEMONE	WAVES	TIDE
NUDIBRANCH	ISOPOD	CLAM	PERIWINKLE



June 17 - 26

You're Invited!

Friday, June 17 - 7:00pm Celebrate at the kickoff screening of Discover the Olympic Coast with acclaimed filmmaker Florian Graner at Olympic National Park Visitor Center

Saturday, June 25 - 9:00am Join us at Port Angeles Library for Discover the Olympic Coast film and hands-on youth activities

Saturday, June 25 - 9:30am Take part in a photography-focused beach and tidepool walk at Ruby Beach near Kalaloch Lodge

Saturday and Sunday, June 25-26 - Enjoy the variety of sustainable seafood choices along the Olympic Culinary Loop

How to get involved:

- Join in the fun and come visit!
- Take photos while enjoying your favorite sanctuary experiences, then share with **#ILoveMySanctuary**
- Enter your best shots in the *Get into Your Sanctuary* photo contest:
 - Categories: sanctuary views, sanctuary life and sanctuary portraits
 - Photos must be received between June 1—July 15
 - Submit to earthisblue@noaa.gov (Minimum size of 1200 pixels wide)

<http://sanctuaries.noaa.gov/visit/giys.html>



The Office of National Marine Sanctuaries serves as the trustee for a network of under-water parks encompassing more than 170,000 square miles of marine and Great Lakes waters. Within these protected waters, majestic whales feed and migrate, coral reefs flourish, and shipwrecks reveal secrets of our maritime history. And it's YOURS to enjoy, because the vast majority of national marine sanctuary waters are open to recreational fishing, birding, wildlife watching, diving, surfing, kayaking and many more activities that are compatible with conservation goals.

The weekend of June 25-26th marks our second National "Get into Your Sanctuary" celebration, when sites across the system will be hosting concurrent public events to help you personally experience, enjoy and protect these special places.

Get Into Your Sanctuary Pledge!



I (fill in your name) pledge to tell others about
Get Into Your Sanctuary events;
to encourage responsible recreation
and sustainable tourism in the sanctuary;
and to widely share the Get Into Your Sanctuary flyer
throughout my community and on social media using
#ILoveMySanctuary to attract a multitude of visitors to
Get Into Your Sanctuary!

Questions?



For more information contact
Jacqueline.Laverdure@noaa.gov
360-457-6622 x 21

Photo Credit NOAA/OCNMS

National Marine Sanctuaries
National Oceanic and Atmospheric Administration



NATIONAL MARINE
SANCTUARIES

OLYMPIC COAST

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