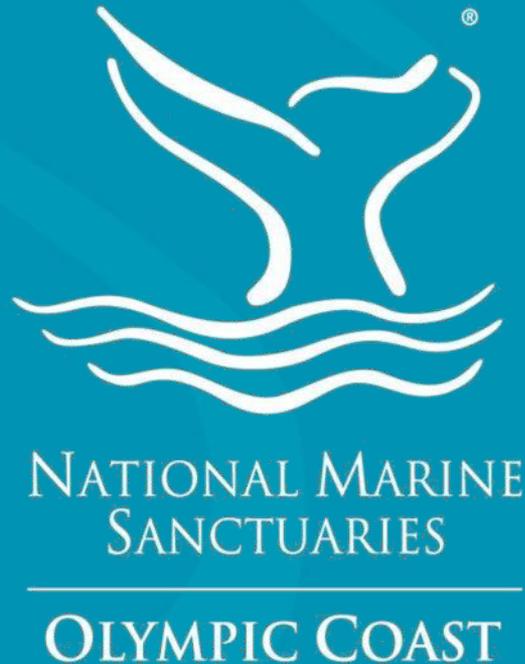




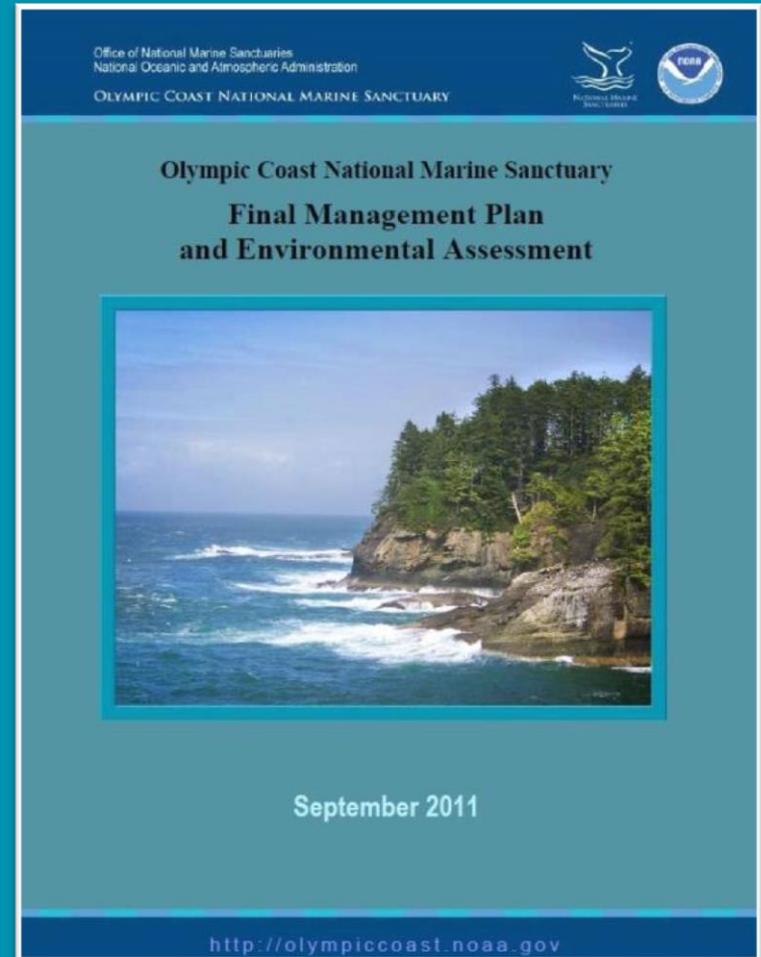
# Implementing the OCNMS Climate Change Action Plan



Kevin Grant

# 2011 OCNMS Management Plan

- New OCNMS Management Plan finalized in 2011
- The management plan contained 20 Action Plans, including a Climate Change Action Plan



# Climate Change Action Plan

## Desired Outcomes:

- 1.OCNMS is a sentinel site in the Pacific Northwest for climate change monitoring;
- 2.OCNMS is a go-to source for climate change information on Washington's outer coast marine ecosystems; and
- 3.OCNMS understands and is prepared for likely climate change impacts in the sanctuary region.

# Strategies in the CC Action Plan

- Strategy CLIM1: Climate-Smart Sanctuary Program
  - Participate in the Office of National Marine Sanctuaries Climate-Smart Sanctuaries program in order to become certified as a climate-smart sanctuary.
- Strategy CLIM2: Sanctuary as a Sentinel Site
  - Work to establish OCNMS as a sentinel site for long-term climate change research and monitoring in the Pacific Northwest.
- Strategy CLIM3: Resilient Ecosystems
  - Work with natural resource managers and local communities on the Olympic Peninsula to improve the resiliency of ecosystems in the face of climate change impacts.
- Strategy CLIM4: Communicating Climate Change
  - Communicate information about climate change and its potential effects on the sanctuary and Washington's outer coast to OCNMS partners and the public.

# Strategy CLIM1: Climate-Smart Sanctuary Program

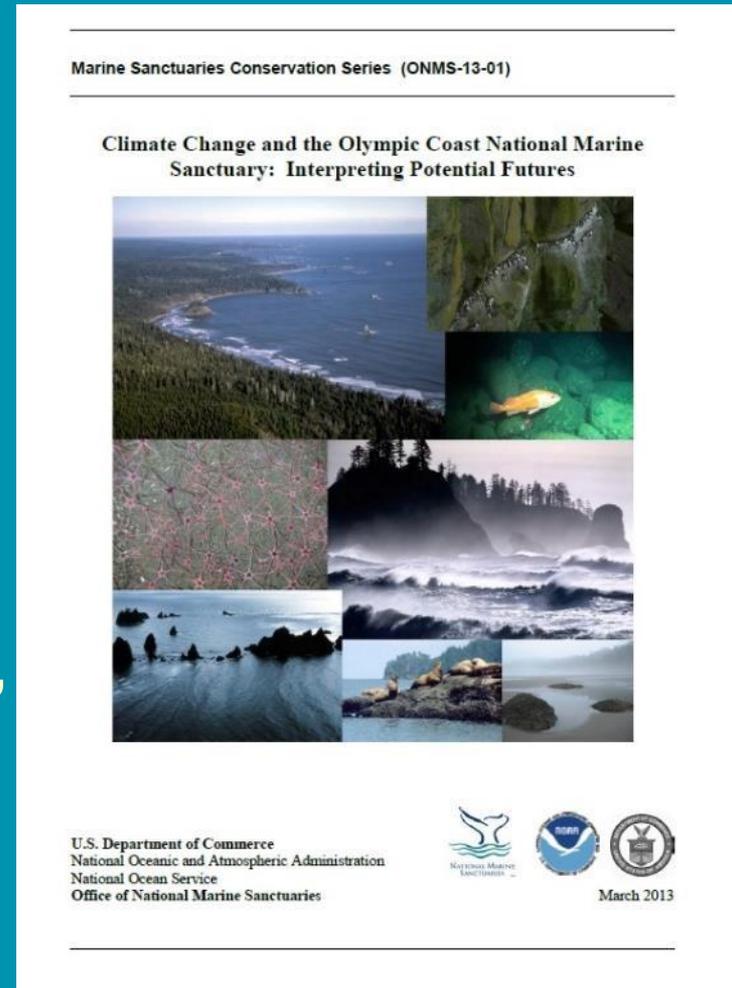
Participate in the ONMS Climate-Smart Sanctuaries program in order to become certified as a climate-smart sanctuary

## Climate-Smart Certification Standards

- Standard I – Condition Report
- Standard II – Climate Change Site Scenario
- Standard III – Superintendent/staff complete training
- Standard IV – SAC/Working Groups briefed on potential CC impacts
- Standard V – Climate Change Action Plan completed
  - Strategy leads (internal or partner), implementation timeline, and funding requirements identified in climate action plan
- Standard VI – Minimal green operating standard reached

# OCNMS Climate Change Site Scenario

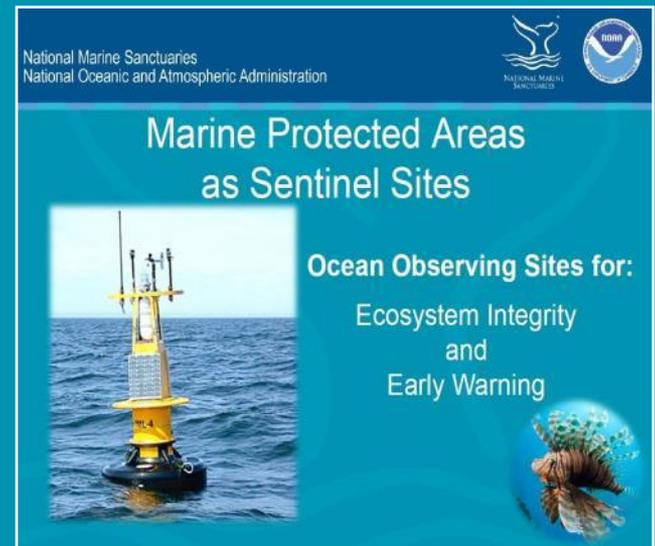
- Provides a strong foundation of information for further actions and adaptations in the region.
- Key issues identified include projected extreme weather events (winds, waves, storms) and resultant coastal erosion, an increase in ocean acidity and water temperature, and more extreme weather patterns, including Pacific Northwest regional rainfall increases triggering 100-year magnitude floods.



# Strategy CLIM2: Sanctuary as a Sentinel Site

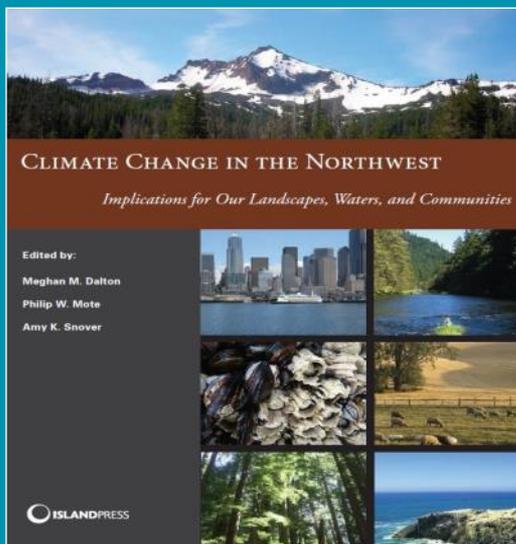
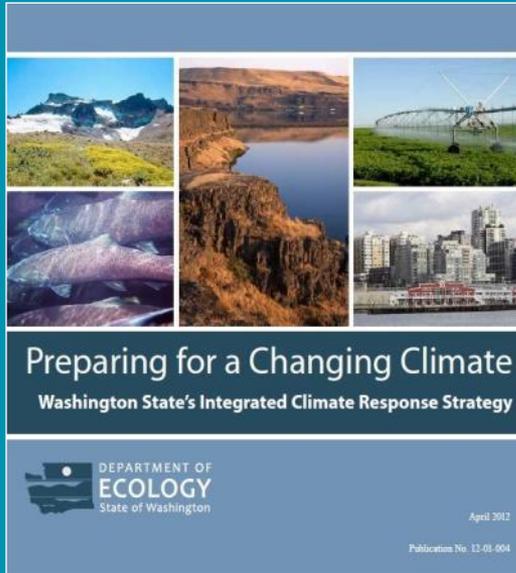
Work to establish OCNMS as a sentinel site for long-term climate change research and monitoring in the Pacific Northwest.

- In 2011 sanctuary staff proposed OCNMS serve as a sentinel site highlighting monitoring ocean acidification and hypoxia.
- 2012 SAC Working Group developed to assist with identification of indicators of climate change
  - Currently awaiting results of the State's MSP efforts regarding indicators
  - Climate change indicators will be addresses in revisions to the OCNMS Science Needs documents
- Provided technical / scientific information to WA in support of MSP



# Strategy CLIM3: Resilient Ecosystems

Work with natural resource managers and local communities on the Olympic Peninsula to improve the resiliency of ecosystems in the face of climate change impacts.



- Joint SAC / IPC on Ocean Acidification
- Staff trying to participate more in the State's Marine Resources Advisory Council
- Staff met with NPLCC to discuss potential partnerships
- Have NOT – “hosted workshops and provided training to...local communities on the outer coast on planning, mitigating for, and managing climate change impacts”

# Strategy CLIM4: Communicating Climate Change

Communicate information about climate change and its potential effects on the sanctuary and Washington's outer coast to OCNMS partners and the public

- Ocean acidification teacher professional development workshops
  - Provided Olympic Coast teachers with OA resource kits
- Olympic Coast Discovery Center volunteer docents trained and OA outreach cart developed for OCDC
- West Coast Ocean Acidification Task Force report.
- Ecosystem Pen Pals



# Next Steps

- The SAC has agreed to establish a Working Group to review and provide updates to a specific Action Plan
- The Climate Change Action Plan specifically includes an activity to review (and revise if necessary) this Climate Change Action Plan based upon the findings of the Climate Change Site Scenario.

National Marine Sanctuaries  
National Oceanic and Atmospheric Administration



NATIONAL MARINE  
SANCTUARIES

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OLYMPIC COAST

<http://olympiccoast.noaa.gov>