

# WASHINGTON COASTAL MARINE ADVISORY COUNCIL MEETING

Wednesday, December 15, 2021 9:30-11:30 & 1:00-3:00

Virtual Meeting: **Microsoft Teams login instructions are included at the bottom of the agenda**

Please try to login 15 minutes early so meetings can start on-time

## AGENDA

All times are estimates and subject to change

Time	Agenda Item (Action items are marked with "I")	Objective (Information, Discussion, Action?)	Presenter(s)
9:30 (10 min)	<b>Welcome &amp; Introductions, Agenda Review</b> <ul style="list-style-type: none"> <li>Welcome and Introductions</li> <li>Review agenda</li> <li>! Adopt summary of June meeting</li> </ul>	<b>Information</b> <i>Reference Materials:</i> <ul style="list-style-type: none"> <li>Agenda</li> <li>Draft June Meeting Summary (attached)</li> </ul>	Rod Fleck, WCMAC Vice-Chair Garrett Dalan, Facilitator
9:40 (20 min)	<b>Recognition for Mayor Crystal Dingler</b>		WCMAC Members
10:00 (40 min)	<b>Member Updates</b> <ul style="list-style-type: none"> <li>MRC Updates</li> <li>Agency Updates</li> <li>General Coastal Updates</li> <li>MRAC update</li> <li>WCMAC Coastal Resilience Recommendations</li> <li>Green Grab Management</li> </ul>		Garrett Dalan, Facilitator WCMAC Members  Gus Gates, member Allen Pleus, WDFW
10:40 (5 min)	<b>Update on WCMAC 2022 Meetings</b>	<b>Information</b> <i>See draft 2022 meeting dates (attached)</i>	Rod Fleck, WCMAC Vice-Chair
10:45 (30 min)	<b>September Special Session on Off-shore Wind</b> <ul style="list-style-type: none"> <li>Update from Grays Harbor Wind</li> <li>Member discussion</li> </ul>	<b>Information</b> <i>Reference Materials:</i> <ul style="list-style-type: none"> <li><a href="https://www.graysharborwind.com/">https://www.graysharborwind.com/</a></li> </ul>	Garrett Dalan, Facilitator Alla Weinstein, member
11:15 (15 min)	<b>Public Comment</b>		Public/Observers Garrett Dalan, Facilitator
<b>Break until 1:00pm</b>			
1:00 (30 min)	<b>Presentation and Discussion</b> <ul style="list-style-type: none"> <li>Regulatory Roadmap for offshore wind projects</li> <li>Data and information used in project evaluation</li> </ul>	<b>Information</b> <i>Reference Materials:</i> <ul style="list-style-type: none"> <li>Roadmap Website Guide (attached)</li> </ul>	Necy Sumait, BOEM Sara Guiltinan, BOEM
1:30 (30 min)	<b>Presentation and Discussion</b> <ul style="list-style-type: none"> <li>WA's Marine Spatial Plan Necessary Data and Info.</li> <li>Update and review of MSP Data Viewer</li> </ul>	<b>Information</b> <i>Reference Materials:</i> <ul style="list-style-type: none"> <li><a href="#">Full Marine Spatial Plan</a></li> <li><a href="#">Data Viewer</a></li> </ul>	Casey Dennehy, Ecology
2:00 (40 min)	<b>WCMAC Action Items for Off-shore Wind</b> <ul style="list-style-type: none"> <li>Transition from information gathering to shaping recommendations</li> </ul>	<b>Information</b>	Rod Fleck, WCMAC Vice-Chair
2:40 (10 min)	<b>WCMAC Work Plan Update</b>		Rod Fleck, WCMAC Vice-Chair
2:50 (10 min)	<b>Public Comment</b>		Public/Observers Garrett Dalan, Facilitator
3:00	<b>Adjourn</b>		Rod Fleck, WCMAC Vice-Chair

Microsoft Teams meeting

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STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

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Following is the schedule of regular meetings for the Washington Coastal Marine Advisory Council for 2022.

<b>Date</b>	<b>Time</b>	<b>Location*</b>
<b>March 16, 2022</b>	Start time 9:30 AM	Virtual
<b>June 15, 2022</b>	Start time 9:30 AM	Virtual or Port of Grays Harbor Commission Chambers Room 111 S. Wooding Street Aberdeen, WA 98520
<b>September 14, 2022</b>	Start time 9:30 AM	Virtual or Port of Grays Harbor Commission Chambers Room 111 S. Wooding Street Aberdeen, WA 98520
<b>December 14, 2022</b>	Start time 9:30 AM	Virtual or Port of Grays Harbor Commission Chambers Room 111 S. Wooding Street Aberdeen, WA 98520

\*Meeting locations and duration are not final due to the Coronavirus pandemic. The final meeting location, duration, and details on how to attend virtual meetings will be updated on the Washington Coastal Marine Advisory Council website (listed below) at least seven days before each meeting.

Information about the Washington Coastal Marine Advisory Council can also be found on the website at: <https://www.ezview.wa.gov/?alias=1962&pageid=37058>

If you need further information contact Bobbak Talebi, PO Box 47600, Olympia, WA 98504-6700, 360-819-3014, [bobbak.talebi@ecy.wa.gov](mailto:bobbak.talebi@ecy.wa.gov).

# Bureau of Ocean Energy Management

## Regulatory Roadmap for Offshore Wind Commercial Leases on the Outer Continental Shelf

1. Go to <https://www.boem.gov/renewable-energy/regulatory-framework-and-guidelines>
2. Click on the “Regulatory Roadmap” tab (third tab from the left)

The screenshot shows the BOEM website's "Regulatory Framework and Guidelines" page. The "Regulatory Roadmap" tab is selected. Below the navigation bar, there is a section titled "Regulatory Roadmap" with a descriptive paragraph and a timeline graphic. The timeline consists of four circular icons representing different phases: a map for Planning & Analysis, a document for Leasing, binoculars for Site Assessment, and a scale for Construction & Operations. Below each icon is a box detailing the phase name, duration, and key activities.

Planning & Analysis	Leasing	Site Assessment	Construction & Operations
~ 2 YEARS	~ 1-2 YEARS	UP TO 5 YEARS	~ 2 YEARS (+25)
<ul style="list-style-type: none"><li>Intergovernmental Task Force</li><li>Request for Information or Call for Information and Nominations</li><li>Area Identification</li><li>Environmental Reviews</li></ul>	<ul style="list-style-type: none"><li>Publish Leasing Notices</li><li>Conduct Auction or Negotiate Lease Terms</li><li>Issue Lease(s)</li></ul>	<ul style="list-style-type: none"><li>Site Characterization</li><li>Site Assessment Plan</li></ul>	<ul style="list-style-type: none"><li>Construction and Operations Plan</li><li>Facility Design Report and Fabrication and Installation Report</li><li>Decommissioning</li><li>Environmental and Technical Reviews</li></ul>

3. You can click on each of the four phases in the Regulatory Roadmap graphic for more details and additional links to relevant regulations and information. The links for each phase are also included here:
  - i. Planning & Analysis: <https://www.boem.gov/renewable-energy/planning-analysis>
  - ii. Leasing: <https://www.boem.gov/renewable-energy/leasing>
  - iii. Site Assessment: <https://www.boem.gov/renewable-energy/site-assessment>
  - iv. Construction & Operations: <https://www.boem.gov/renewable-energy/construction-operations>

4. Please note that in the Leasing phase, leases may be issued either through a competitive or noncompetitive process. Details on each process can be accessed through the Leasing phase webpage. The links for each process are also included here:
- i. Competitive Process: <https://www.boem.gov/renewable-energy/competitive-process>
  - ii. Noncompetitive Process: <https://www.boem.gov/renewable-energy/noncompetitive-process>

HOME | RENEWABLE ENERGY

# Leasing



The **Leasing** phase results in the issuance of a commercial wind energy lease. Leases may be issued either through a **competitive** or **noncompetitive** process. A commercial lease gives the lessee the exclusive right to subsequently seek BOEM approval for the development of the leasehold. The lease does not grant the lessee the right to construct any facilities; rather, the lease grants the right to use the lease area to develop its plans, which must be approved by BOEM before the lessee can move on to the next stage of the process

COMPETITIVE PROCESS

NONCOMPETITIVE PROCESS

# EUROPEAN GREEN CRAB INFESTATION

Presented to the

Washington Coastal Marine Advisory Council

December 15, 2021

Allen Pleus

Aquatic Invasive Species Unit Manager  
WA Dept. of Fish & Wildlife



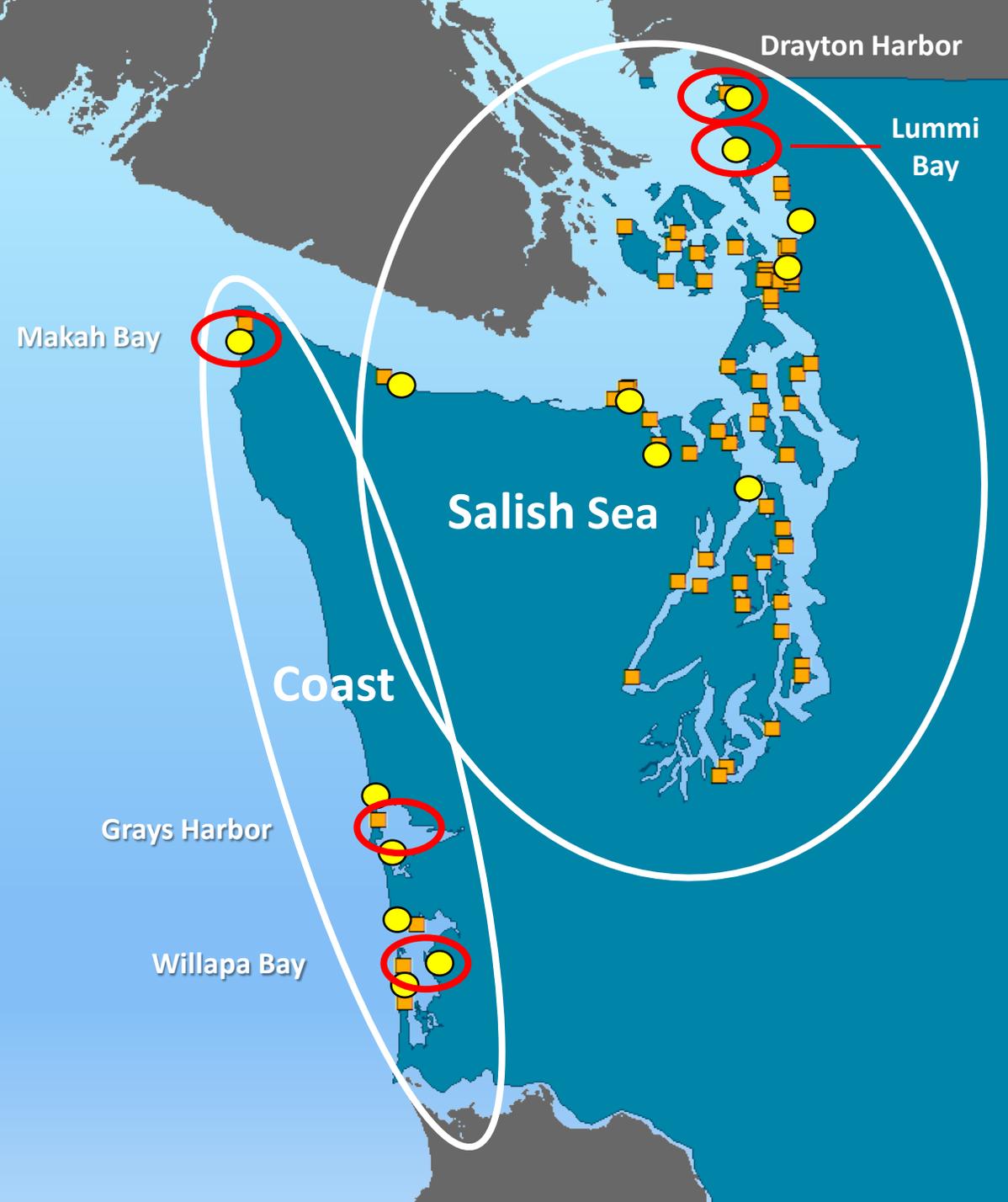
# European Green Crab: Imminent Danger

- The Washington Department of Fish and Wildlife appreciates the \$2.3 million appropriated by the state legislature in 2021 for EGC management for the 2021-23 biennium.
- WDFW, in coordination with tribal co-managers, shellfish grower and other partners, have found an exponential increase in European green crab (EGC) populations within the Lummi Nation's Sea Pond and outer coast areas including Makah Bay, Grays Harbor and Willapa Bay.
- New information indicates an escalating danger of EGC seriously threatening the environment, economy, and human well-being of the state of Washington.



# EGC Cooperative Management Strategy

- Main Action Areas
  - Cooperative management
  - Assessment & longer-term removal
- Early Detection Network
  - WA Sea Grant “Crab Team” – citizen scientists
- Tribal Co-Managers and Partners
  - Early detection
  - Rapid response
  - Removal trapping



# Lummi Sea Pond

- Lummi sovereign lands – WDFW supporting Lummi actions
- 750 acre diked impoundment in Lummi Bay
- 79,000 EGC captured in 2021 to date
- EGC are well-distributed across the sea pond, composed of multiple age classes, and is successfully self-recruiting.
- Control of the LSP EGC population is still feasible but available resources are insufficient
- Failure to control the LSP population could result in rapid loss of EGC management control in the Salish Sea as a whole.



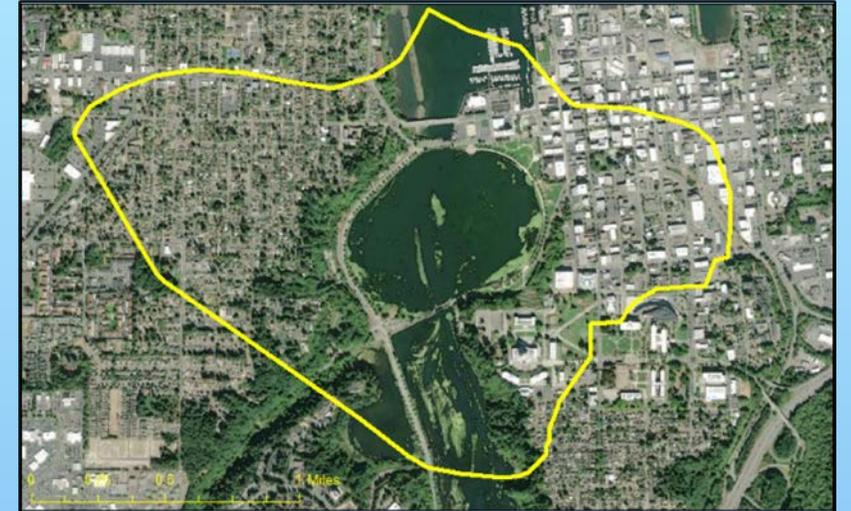
Action Area	2019 Captures	2020 Captures	2021 Captures *
Drayton Harbor	38	253	134
Lummi Bay	23	5	0**
Lummi Sea Pond	41	2,670	>76,000

\*Number captures pending final analysis; \*\* no effort



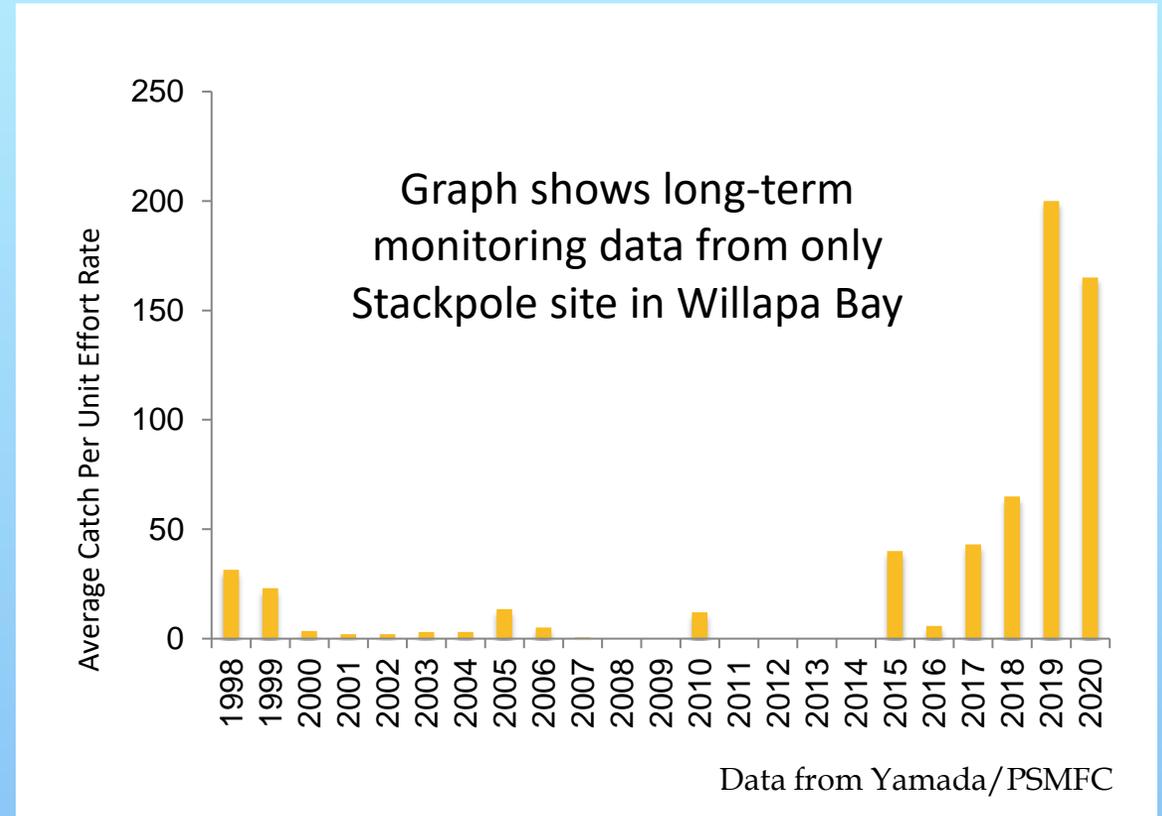
# Lummi Sea Pond

- September – November enhanced cooperative effort (Lummi, WDFW, WSG NWSC)
  - 8-12 staff, 500 traps, 3 boats
- Trap spacing ~1 per 1.5 acres (~ 1 per city block)
- Average capture rate of 10,000/week
- No detected reduction in capture rates indicate very high population
- Now in reduced winter management status
  - Poor weather and generally fewer crabs coming to traps



# Coastal Region

- First detection in 1998 – triggered emergency measures until 2001
- Resurgence detected in 2015
- Enhanced management restarted in 2019
- 2020 and 2021 mostly trapping to evaluate scope of new infestation
- 2021 end of season target trapping hot spots for removal – similar capture rates as Lummi Sea Pond
  - 2,000 EGC in 2-night Tokeland trap effort
  - 1,300 EGC in 2-night Ocean Shores trap effort



Action Area	2019 Captures	2020 Captures	2021 Captures *
Grays Harbor	150	857	4,307
Willapa Bay	176	1,517	5,126
Makah Bay	1,441	1,072	1,364

\*Number captures pending partner submission and final analysis.

Data from all sites by action area

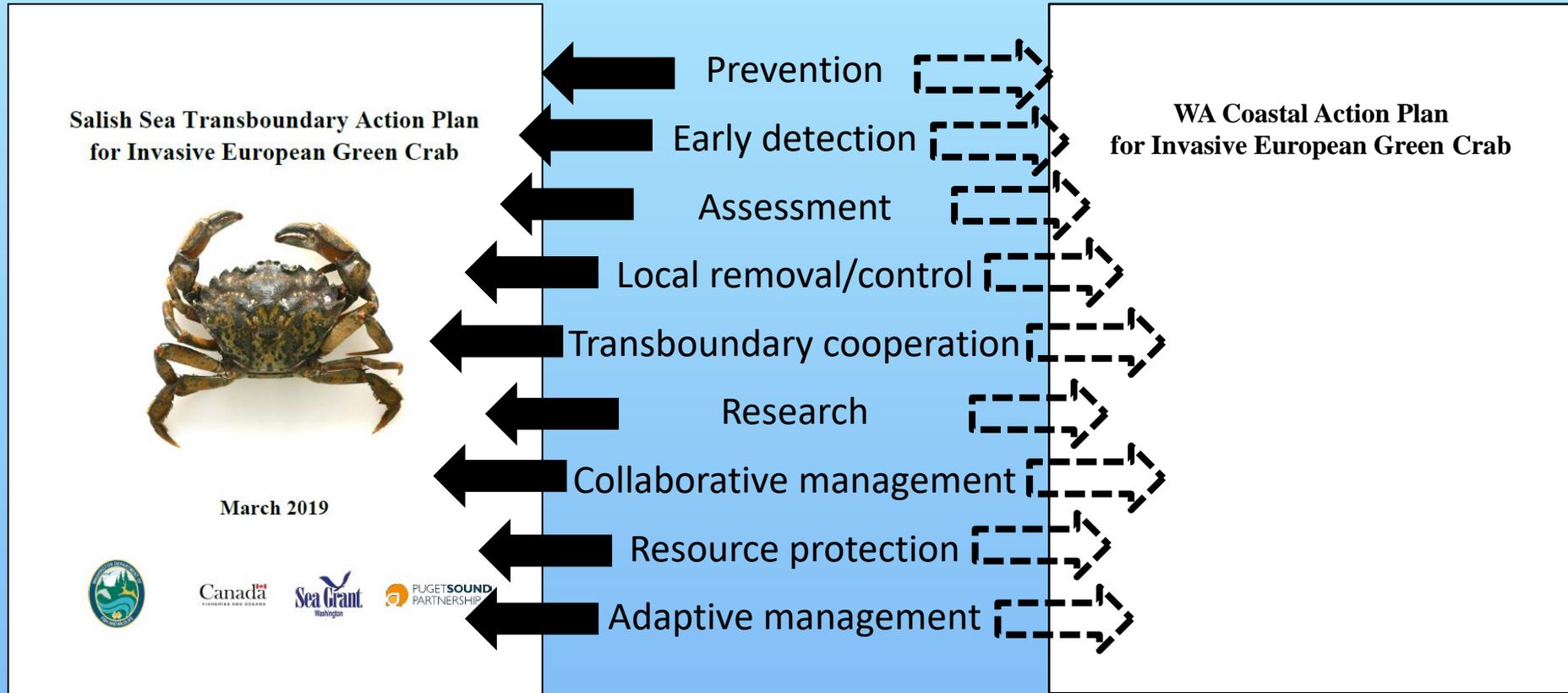


# Coastal Region

- EGC are well-distributed across these basins, composed of multiple age classes, and warming waters are creating more opportunity for larval invasion from other west coast populations.
- Control of EGC in coastal areas is still feasible but will need to focus on protection of sensitive habitat areas and aquaculture resources.
- Failure to control protected resource areas could result in rapid loss of habitat for critical species and impacts to aquaculture products.
- Current funds provide only 2 seasonal technician support for WDFW and one for WA Sea Grant, which are not sufficient for effective population control across this region.



# EGC Policy Needs



- Outdated and requires tribal and other partner input
- Foundation for new plans

- No previous funding to coordinate development



# Emergent Funding Needs

EGC Emergency Measures Actions	Governor Emerg. Funds	2022 Supplemental Legislative Funds		
	FY22 Jan 1 – Mar 31	FY22 Apr 1 – Jun 30	FY23	Total
WDFW AIS Statewide	718,000	570,000	2,030,000	<b>3,318,000</b>
WDFW Coastal Grant	32,000	132,000	602,000	<b>766,000</b>
WDFW Public Affairs	28,000	47,000	154,000	<b>229,000</b>
Lummi Nation	500,000	270,000	1,260,000	<b>2,030,000</b>
Makah Tribe	-	100,000	400,000	<b>500,000</b>
WA Sea Grant	-	94,000	536,000	<b>630,000</b>
RCO Multiagency Coord Group	10,000	10,000	39,000	<b>59,000</b>
RCO Rapid Response IAA Fund	9,000	110,000	533,000	<b>652,000</b>
RCO AIS Local Mgmt Grant	-	85,000	636,000	<b>721,000</b>
<b>Total</b>	<b>1,296,000</b>	<b>1,418,000</b>	<b>6,190,000</b>	<b>8,905,000</b>

This budget request was sent to the Governor's Office on December 14<sup>th</sup>  
under WDFW's Emergency measures statute RCW 77.135.090



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# Questions?



**Allen Pleus**

[allen.pleus@dfw.wa.gov](mailto:allen.pleus@dfw.wa.gov)

360-867-8441



# MISSION

**The Washington Department of Fish and Wildlife's Aquatic Invasive Species (AIS) Unit serves Washington's citizens by protecting, restoring, and enhancing fish and wildlife and their habitats, while providing sustainable and wildlife-related recreational and commercial opportunities.**



# European green crab

(*Carcinus maenas*)

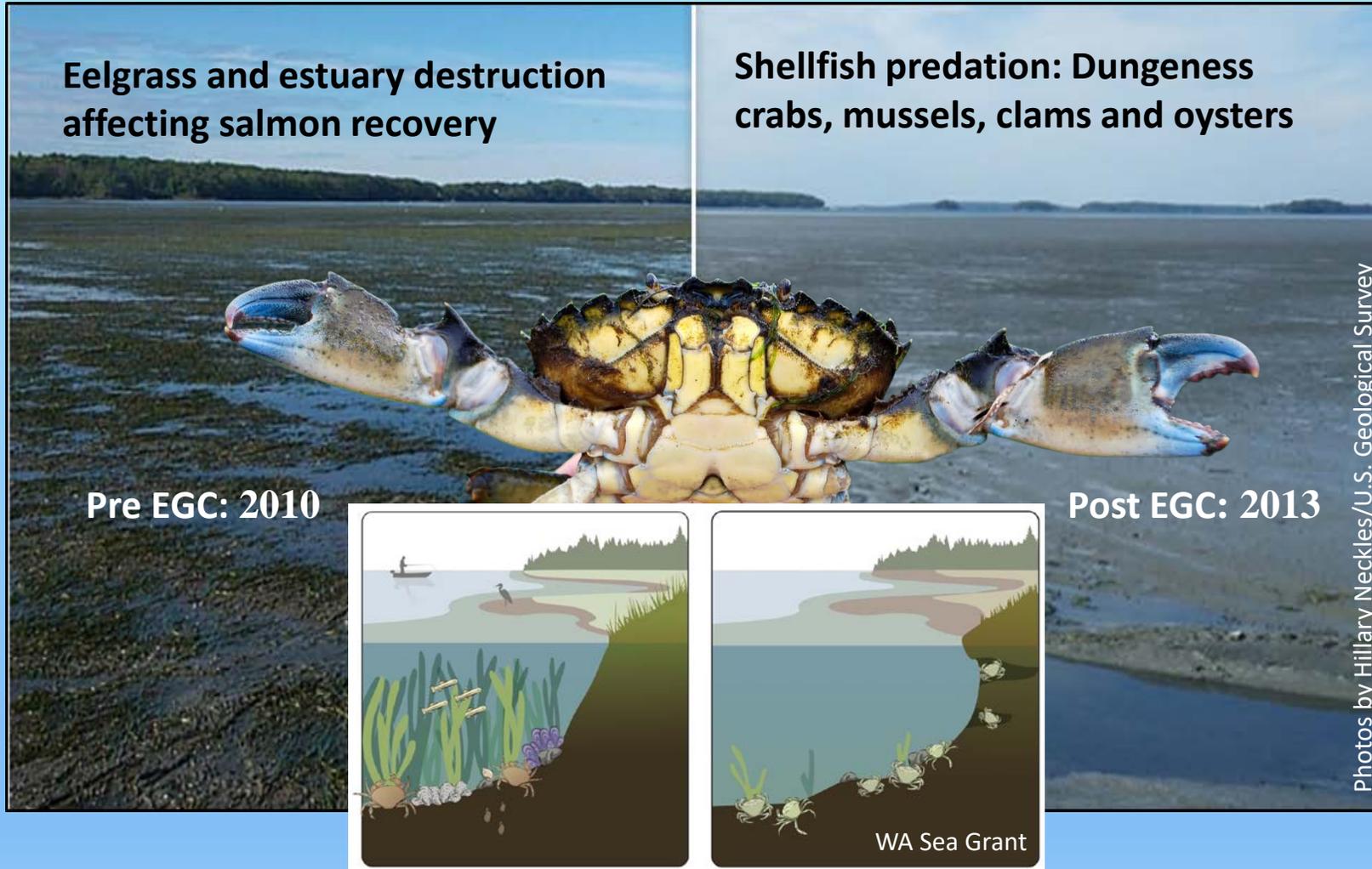
## WA Prohibited Level 1 Species

WAC 220.640.030

(1)(a) Species classified as prohibited level 1 pose a high invasive risk and are a priority for prevention and expedited rapid response management actions.



# European Green Crab (EGC)



## AIS Impacts:

- Food web
- Predation
- Habitat

## Management:

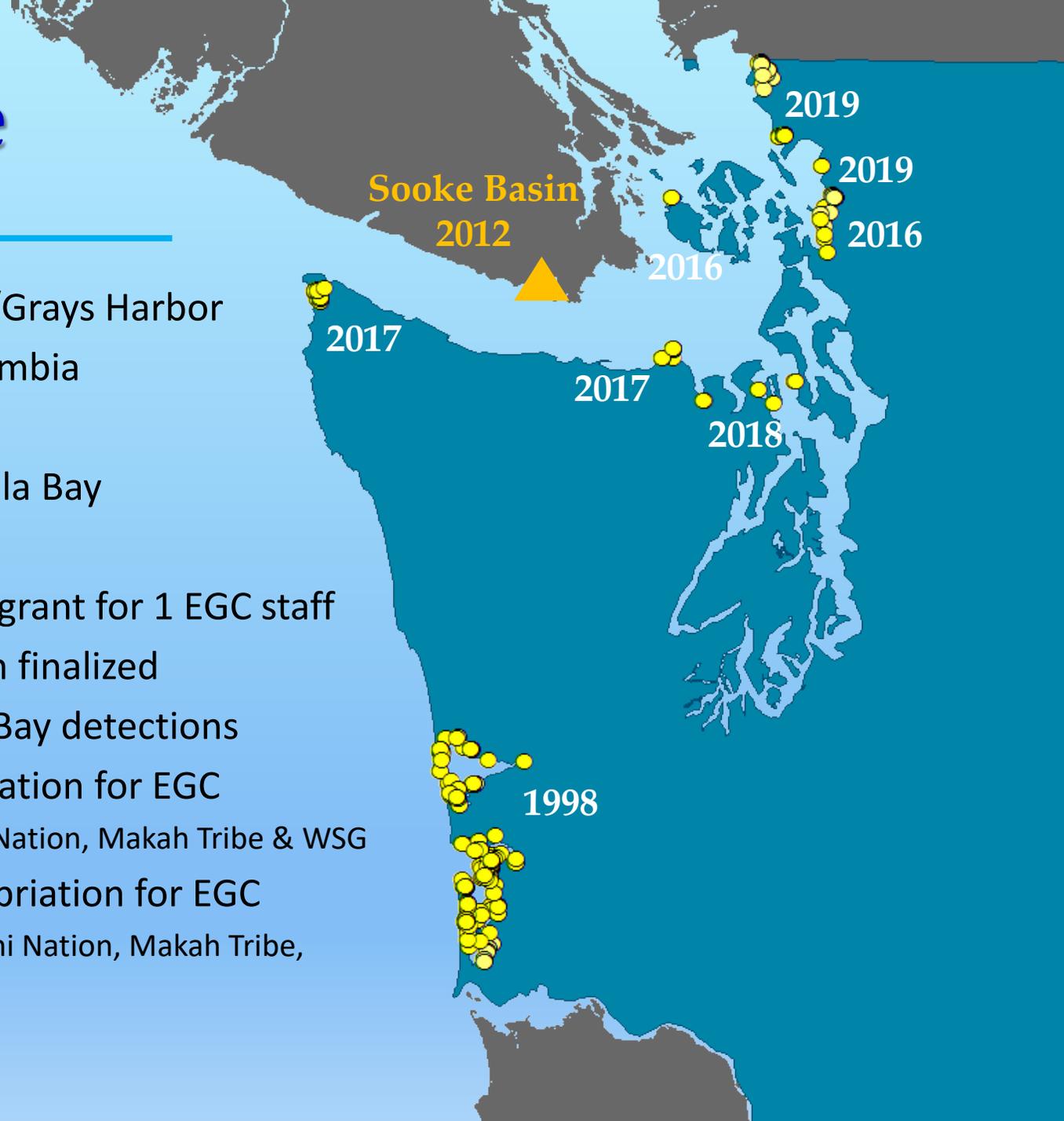
- Prevention
- Early Detection
- Rapid Response
- Control

Eelgrass destruction in Maquoit Bay, Maine, before and after invasion of dense EGC populations.



# WA EGC Timeline

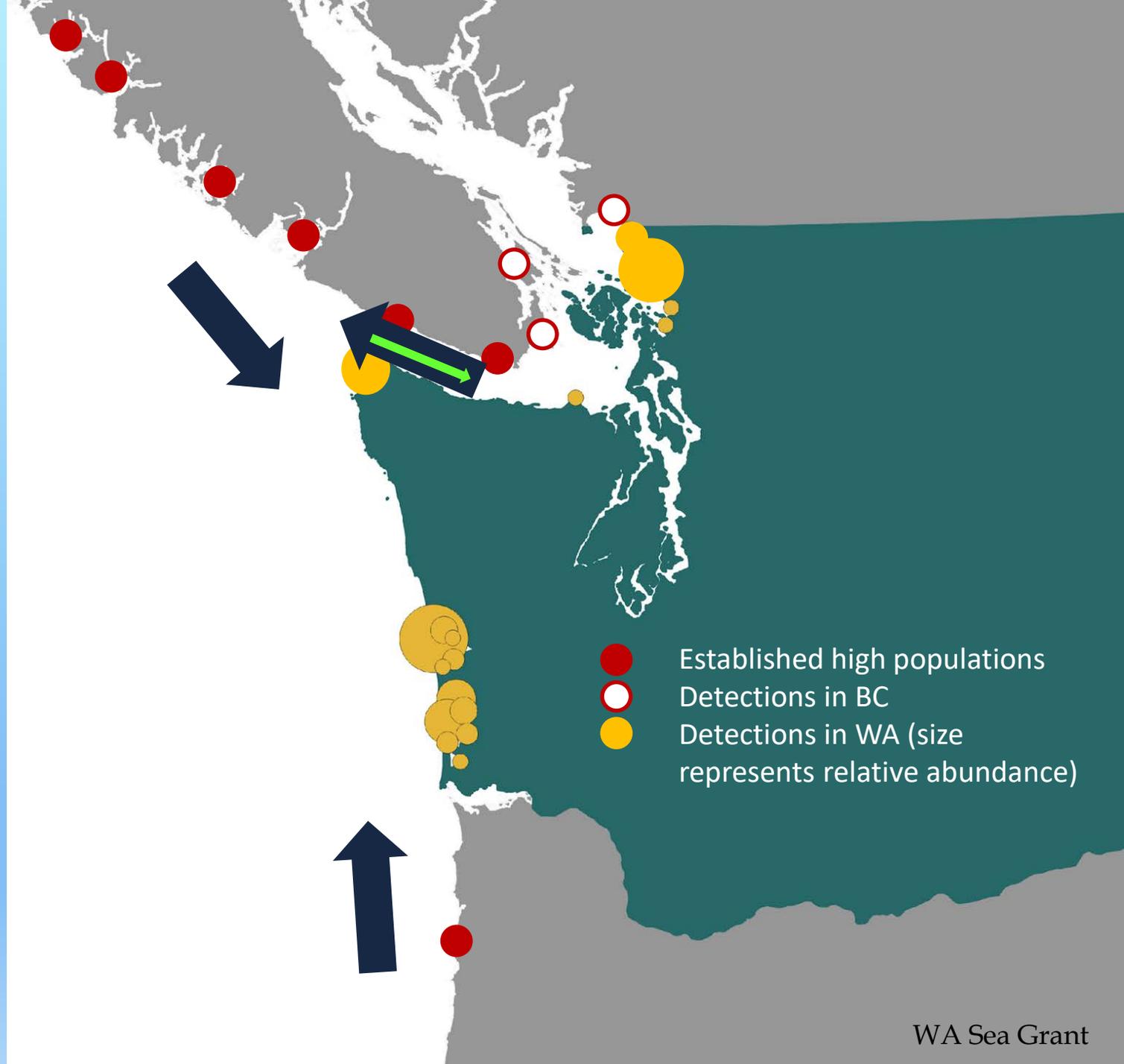
- **1998** - Outer coast detection – Willapa Bay/Grays Harbor
- **2012** - Sooke Basin detection in British Columbia
- **2016** - WSG Crab Team launches
- **2016** - Salish Sea detection – San Juan/Padilla Bay
- **2017** - Makah Bay/Dungeness Spit
- **2018** - Pacific States Marine Fisheries Com. grant for 1 EGC staff
- **2019** - Salish Sea Transboundary Action Plan finalized
- **2019** - Drayton Harbor, Lummi Bay, Samish Bay detections
- **2020** - WDFW \$783,000 legislative appropriation for EGC
  - Includes \$411,000 passthrough funding to Lummi Nation, Makah Tribe & WSG
- **2021** - WDFW \$2.3 million legislative appropriation for EGC
  - Includes \$1.2 million passthrough funding to Lummi Nation, Makah Tribe, WSG & NW Straits Commission



# EGC Invasion Pathway

## Larval Input Patterns

- Major coast currents bring EGC larvae into WA waters from established populations in California, Oregon, and BC
  - Coastal areas unprotected from EGC larval inputs
- Most surface water flows out the Strait of Juan de Fuca creating semipermeable barrier to larvae
  - Salish Sea has much greater protection from coastal EGC larval inputs



# EGC Management Objectives

## **Washington Department of Fish and Wildlife:**

Charged with planning, coordinating, and leading the implementation of aquatic invasive species (AIS) management actions under RCW 77.135.020

1. Collaboratively manage the response to EGC
2. Prevent human-mediated introduction and spread of EGC
3. Detect EGC presence at earliest invasion stage
4. Rapidly eradicate or reduce newly detected populations
5. Control persistent infested site populations to eliminate or minimize environmental, economic and human resource harm
6. Conduct research to develop increasingly effective adaptive management strategies





WindFloat Atlantic, Portugal, 2019

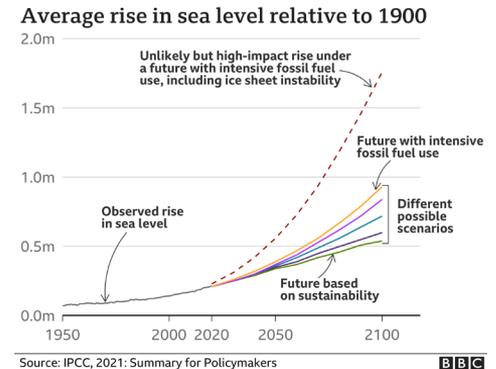


**Floating offshore wind  
off the cost of Washington state**

# Offshore Wind (OSW) is Happening

## Addresses Climate Change

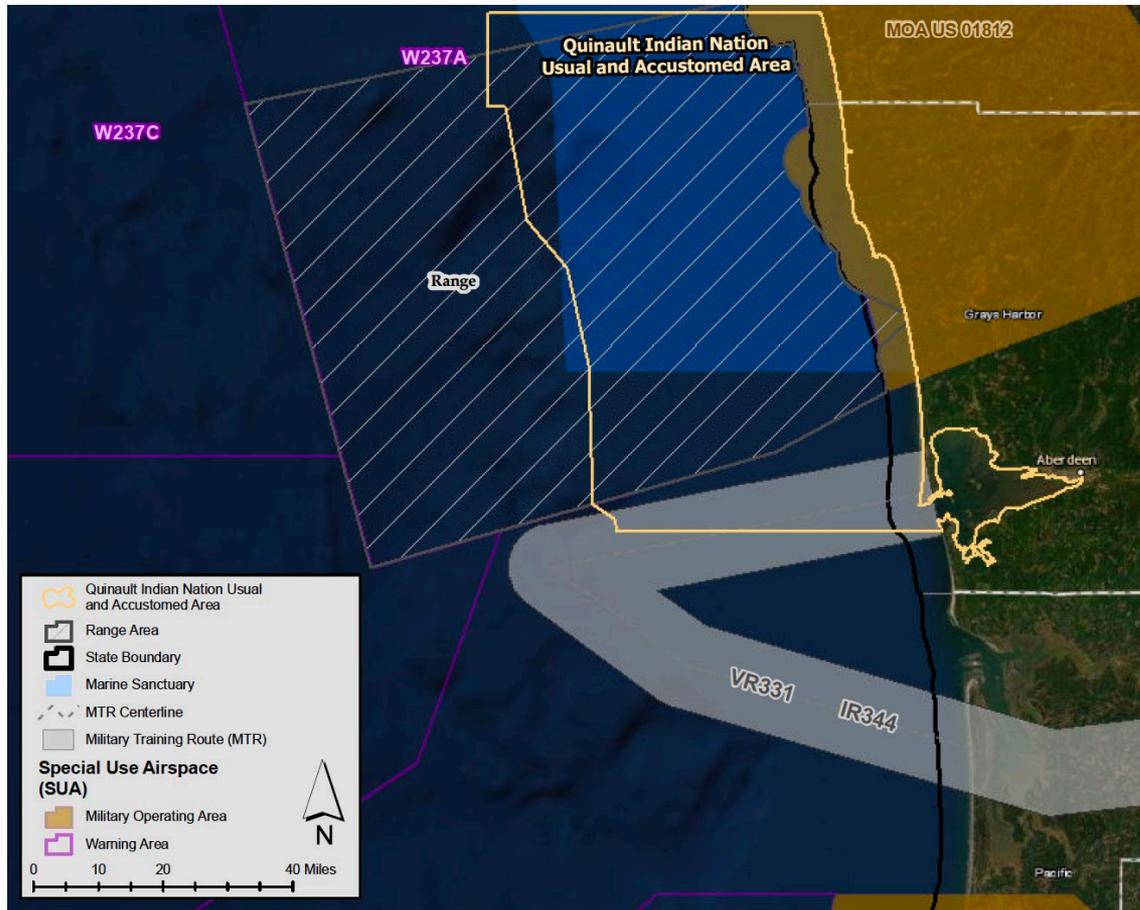
- August 2021, UN Intergovernmental Panel on Climate Change (IPCC) report: Humans are changing the climate in unprecedented and irreversible ways:
  - Oceans continue to warm and become more acidic;
  - Mountain and polar glaciers continue melting leading to sea level rise
- Offshore Wind contributes to:
  - Energy generation without CO2 emissions
  - Air quality, clean water supply
  - Diversification of renewable energy mix
  - Long-term economic benefits



## Climate Driven Policy and Market Demand

- April 22, 2019: Governor Inslee signed [100% clean electricity bill](#) into law: “It is the policy of the state that all retail sales of electricity to the state’s customers be greenhouse gas neutral by January 1, 2030”
- March 2021: US Administration announces commitment to fight climate change and invest in renewable energy, deploy 30 GW of offshore wind by 2030
- October 2021: Northwest Power Plan forecasts demand for 3,500 megawatts of new renewables by 2027
- Current Landscape: Increasing momentum and projects coming online, West Coast is next

# WA Offshore Jurisdictional Constraints



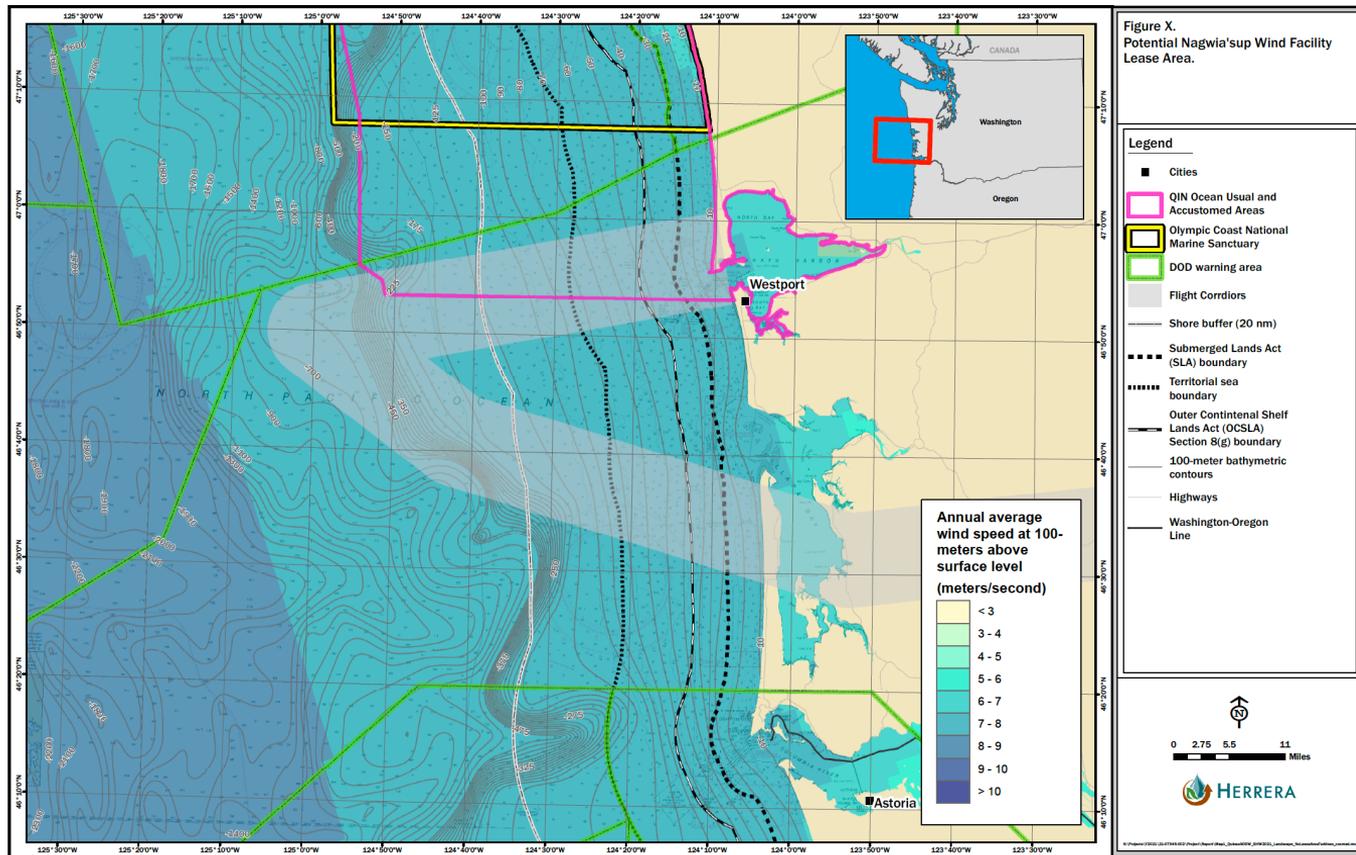
OCNMS (lighter blue)

- There are no regulations on siting OSW in a sanctuary
- BOEM is not authorized to lease OCS locations in a sanctuary

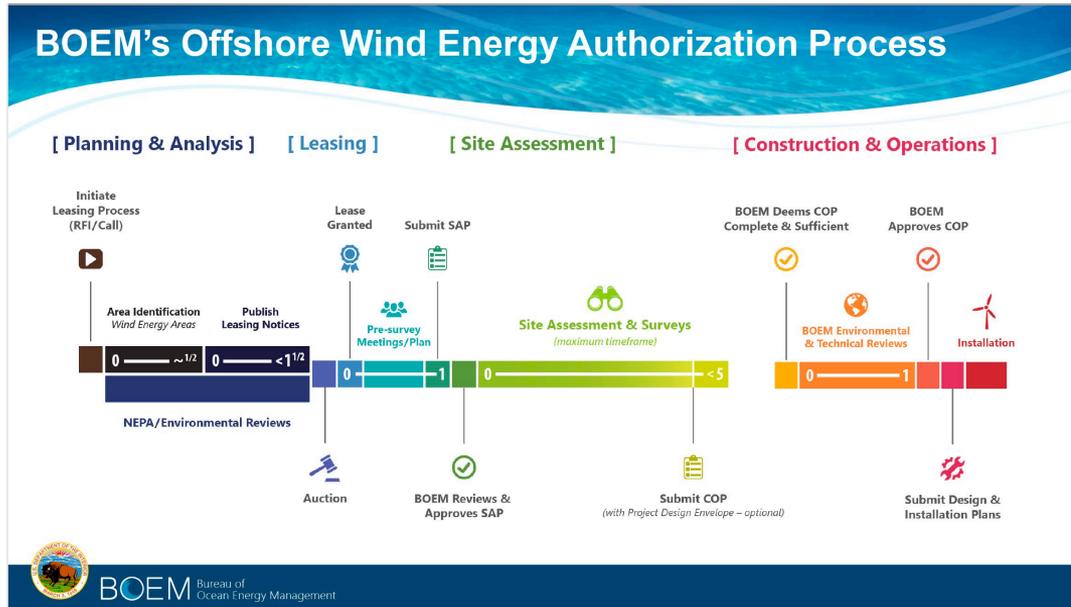
DoD warning area W237 A LOW (pink outline/crosshatch)

Quinault Indian Nation (QIN) Ocean U&A (yellow outline)

# Where Could OSW Development Occur off WA Coast?



- Wind resource is fairly uniform at 14-16 knots (7-8 meters/sec)
- Area compatible with the DoD missions in water depths of:
  - 300 to 711 fathoms (550-1300 meters) is approx. 560 sq miles
  - 711 to 1039 fathoms (1300 – 1900 meters) is approx. 340 sq miles
- Distance to shore > 40 miles due to the DoD flight corridors



An OSW leasing process is triggered by either

- Submittal of an Unsolicited Lease Request to BOEM that leads to an **RFI**
- Governor's request to initiate offshore wind planning that leads to a **CALL**

**BOEM conducts NEPA**

- EA on site characterization and assessment activities prior a lease award
- EIS after developer submits Construction and Operation Plan (COP)



# BOEM / State Coordination Process

## An Intergovernmental Task Force

- Led by BOEM, a Federal agency, such task force, is limited governmental organizations by the Federal Advisory Committee Act (FACA)
- Non-governmental bodies, i.e. fisheries, eNGOs, etc. can not be members of the Intergovernmental Task Force

## Governor's Request to BOEM to Initiate OSW planning

- Does not require formation of an Intergovernmental Task Force
- BOEM can manage the process via Interagency Coordination
- Governor could form a State working group that would be inclusive of all parties, like a very successful Lower Columbia Solutions Group



Questions?

**Alla Weinstein**

Trident Winds LLC

[allaw@tridentwinds.com](mailto:allaw@tridentwinds.com)

206.300.7721



# Washington's Marine Spatial Plan: Data and Information

Washington Coast  
Marine Advisory Council  
December 15th, 2021



# Washington's Marine Spatial Plan

## The Plan



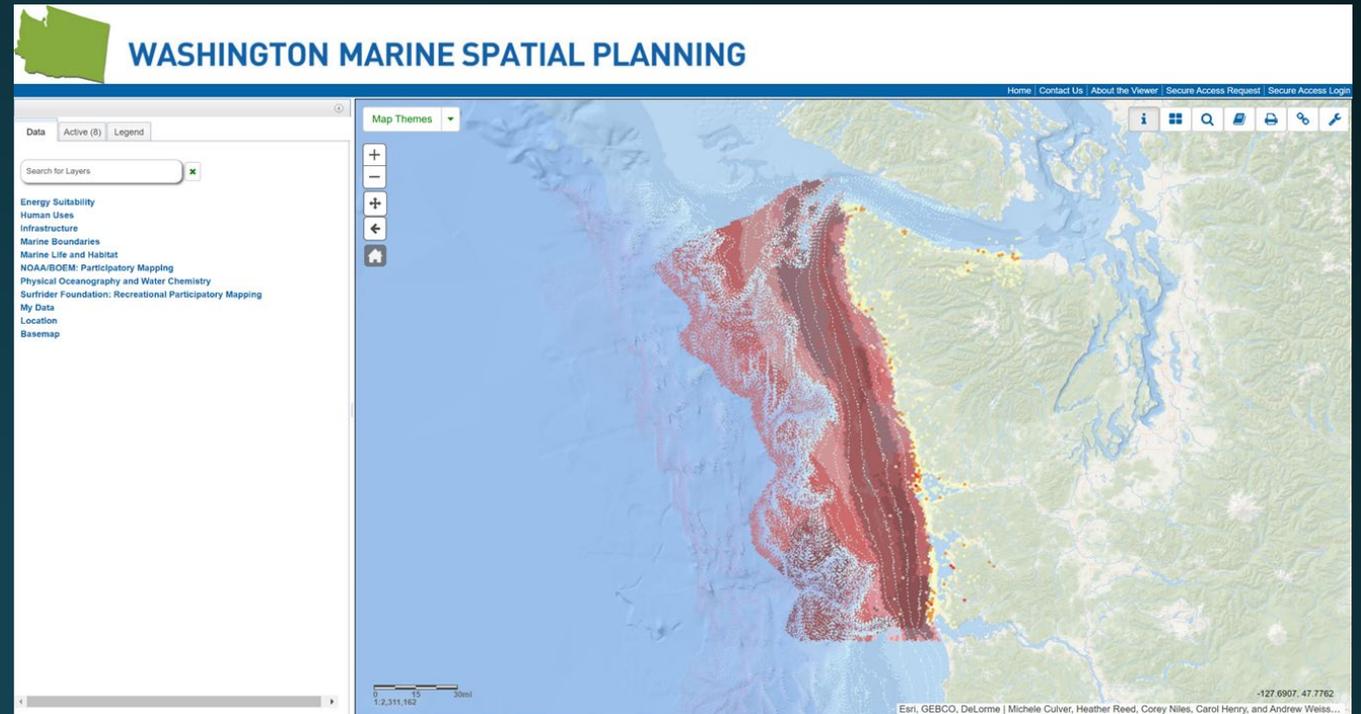
Photo by Katrina Lassiter

### Marine Spatial Plan for Washington's Pacific Coast

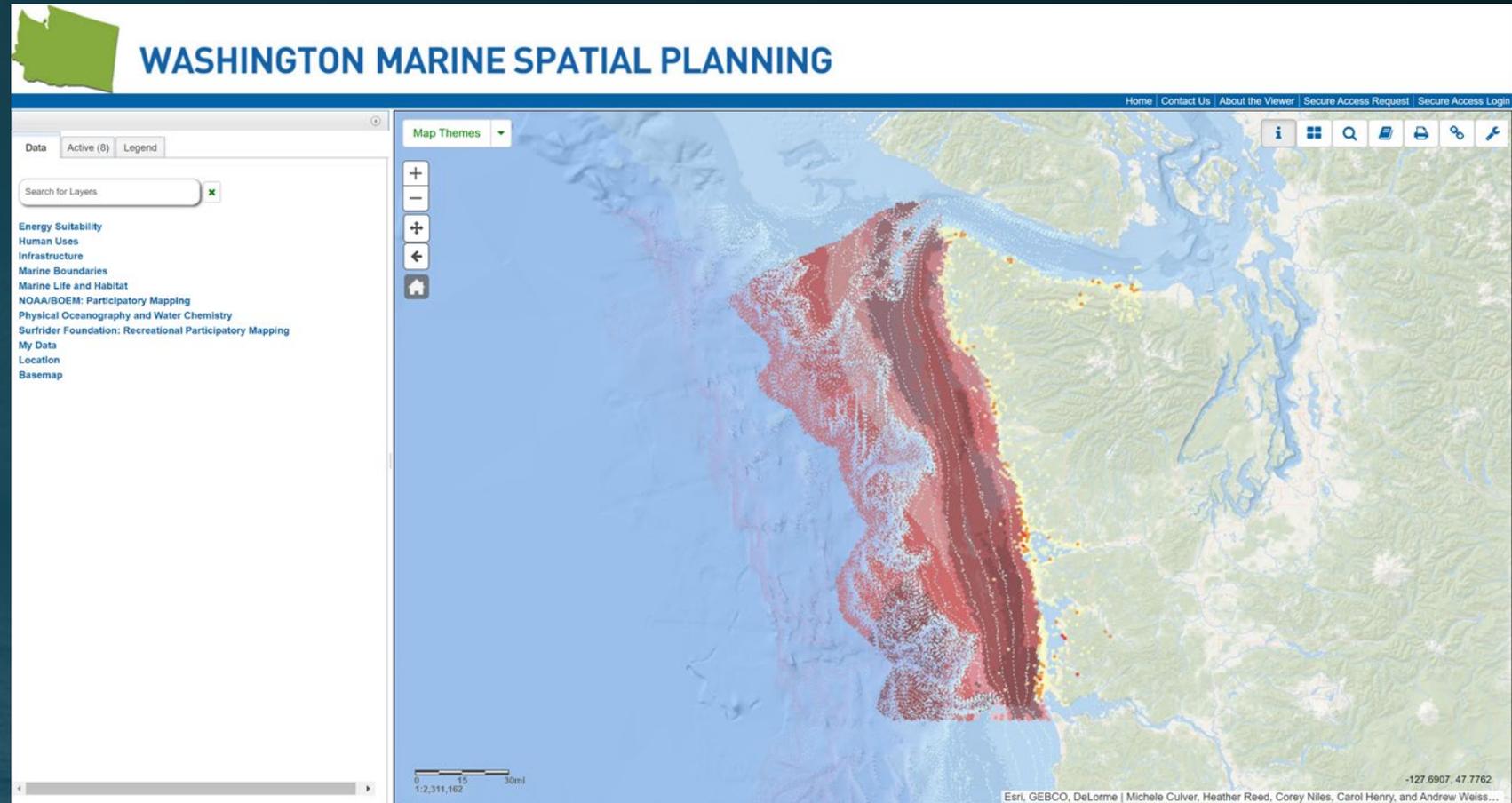
October 2017  
Publication no. 17-06-027 Revised June 2018



## The Data



# The Data



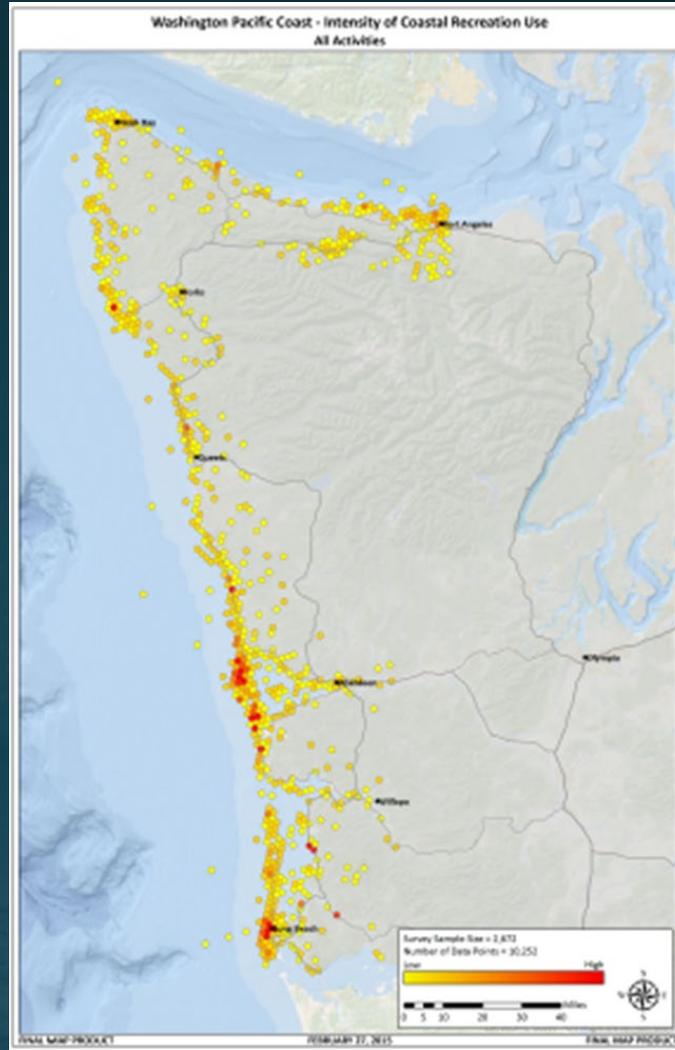
# Baseline Information

- Socio-Economics
- Archaeological and Historic Resources
- Ecological resources
- Current Ocean Uses
- Potential New Uses

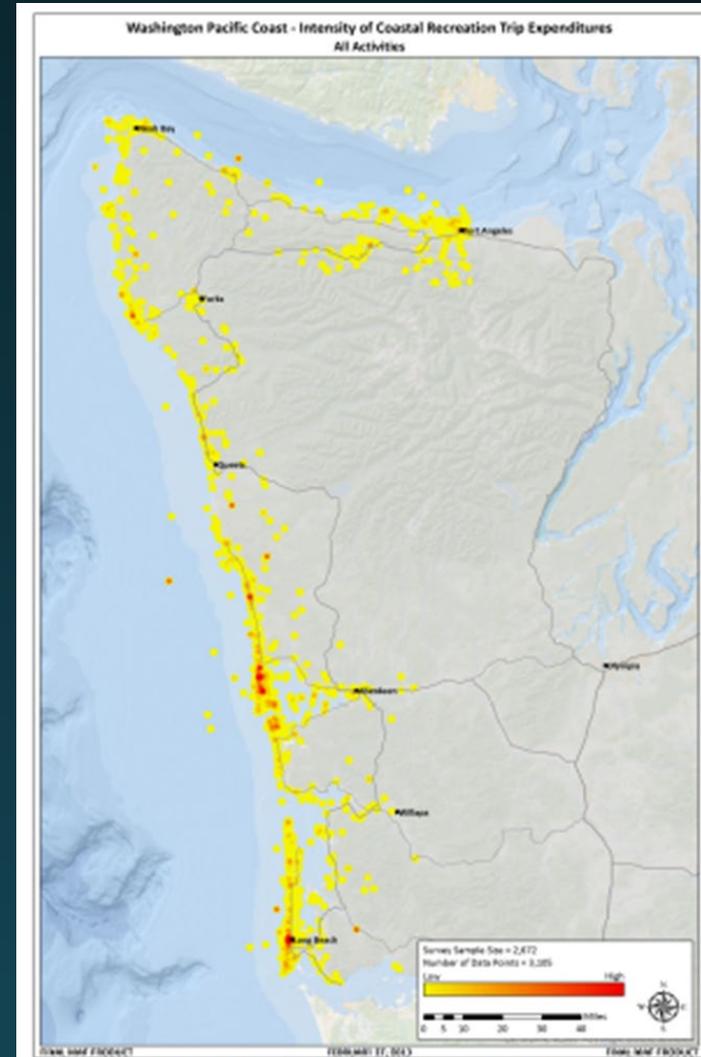
*Includes context and maps (Appendix A)*



# Recreation



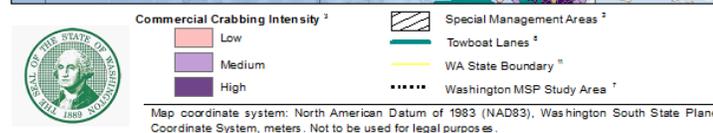
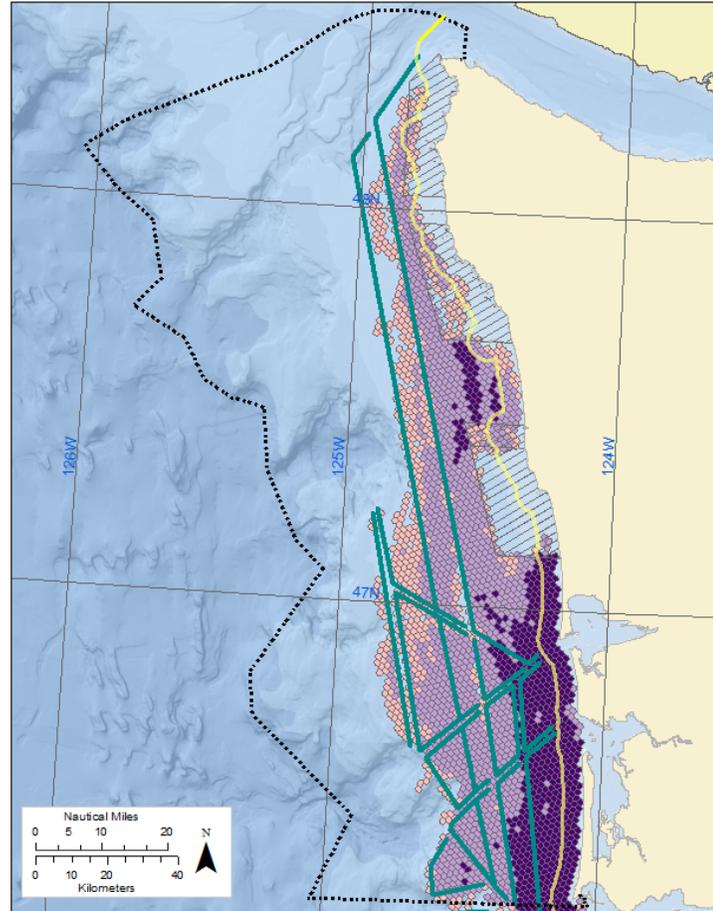
Map 1. Intensity of Use (person-trips) - all activities



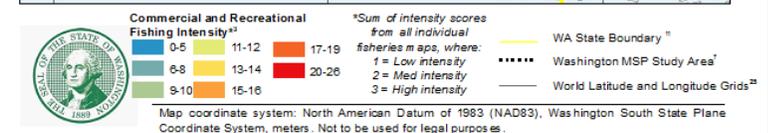
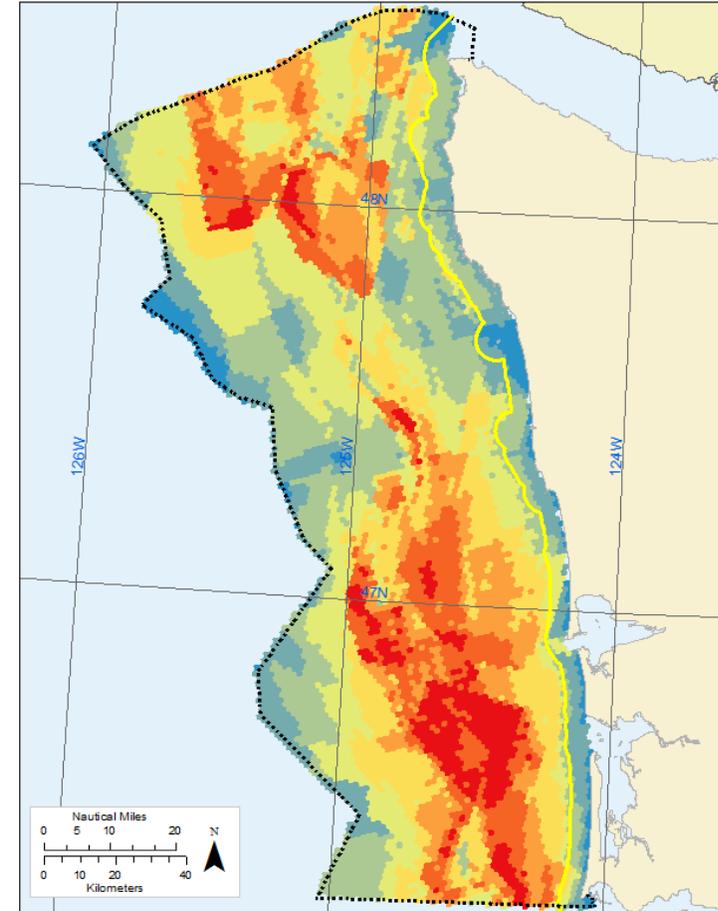
Map 16. Intensity of trip expenditures - all activities

# Fisheries

Map 23  
Commercial Fishing: Dungeness Crab

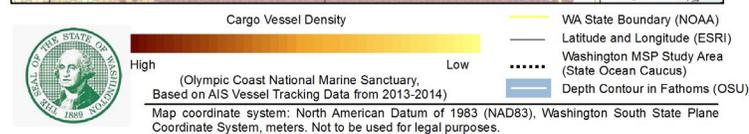
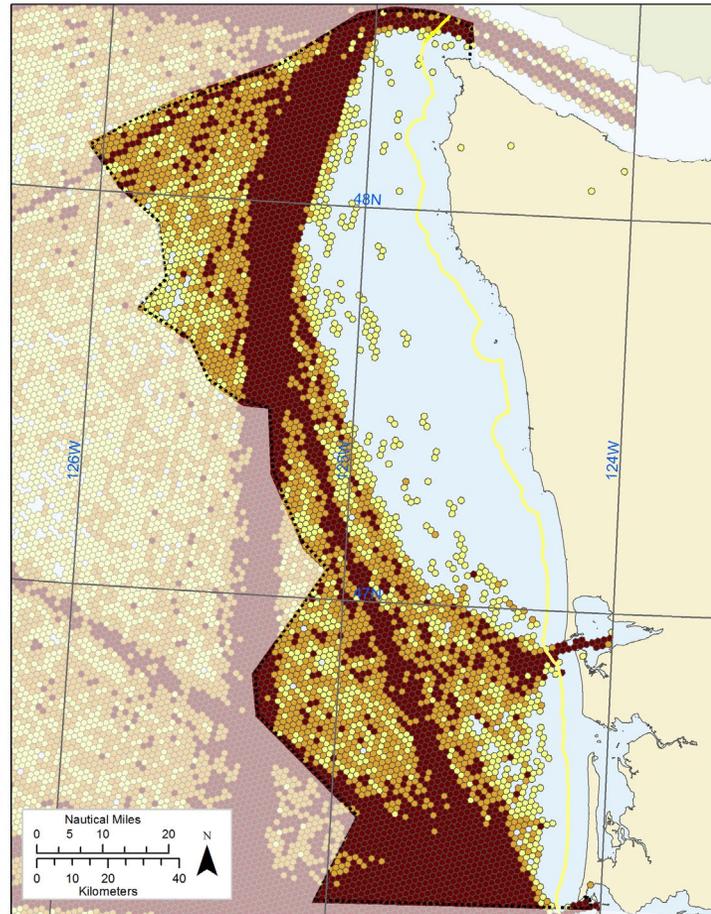


Map 55  
Fishing Activity: All Commercial and Recreational

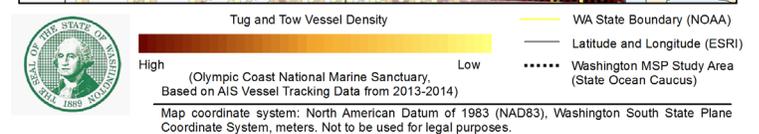
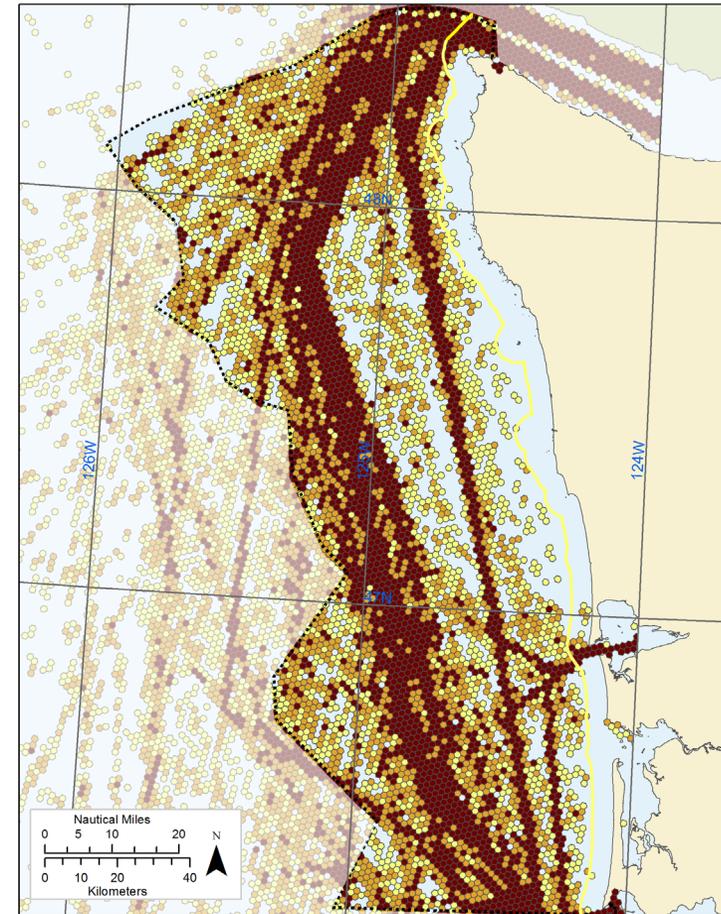


# Shipping

Map 36: Cargo Vessel Density



Map 39: Tug and Tow Vessel Density



# MSP.WA.GOV



## WASHINGTON MARINE SPATIAL PLANNING

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Supporting healthy oceans,  
coasts and communities

### LEARN



Learn about the Marine Spatial Planning process and access plan documents

### EXPLORE



Explore data, maps and current projects along the Washington coast

### CONNECT



Get involved in the Washington Marine Spatial Planning process

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Learn about the Marine Spatial Planning process and access plan documents

**EXPLORE**  
Explore data, maps and current projects along the Washington coast

**CONNECT**  
Get involved in the Washington Marine Spatial Planning process

# Data Viewer

**WASHINGTON MARINE SPATIAL PLANNING**

Home | Contact Us | About the Viewer | Secure Access Request | Secure Access Login

Data | Active (1) | Legend

Search for Layers

- Energy Suitability
- Human Uses
- Infrastructure
- Marine Boundaries
- Marine Life and Habitat
- NOAA/BOEM: Participatory Mapping
- Physical Oceanography and Water Chemistry
- Surfrider Foundation: Recreational Participatory
- My Data
- Location
- Basemap

Map Themes

**Marine Spatial Planning Disclaimer**

The data in the mapping application are intended to be used for Washington State's Marine Spatial Planning process. Extreme care was taken by Washington State Marine Spatial Planning stakeholders to select data that are specific to marine planning needs. Information represented by these data have varying degrees of uncertainty and there should be no expectation that these data are accurate enough for any use outside of Washington State Marine Spatial Planning.

Accept

0 10 30mi  
1:2,311,162

-121 9641, 47.7872  
Esri, GEBCO, DeLorme

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The screenshot displays a GIS Data Viewer interface. On the left, a panel titled 'Data' contains tabs for 'Active (1)' and 'Legend'. Below these is a search bar labeled 'Search for Layers' with a green 'x' icon. The main list of layers is under the heading 'Energy Suitability' and 'Human Uses'. The layers listed are:

- Aquaculture Districts
- Commercial Albacore Fishery
- Commercial Dungeness Fishery
- Commercial Groundfish Fishery
- Commercial Pacific Whiting (Hake) Fishery
- Commercial Pink Shrimp Fishery
- Commercial Sablefish Fishery
- Commercial Salmon Fishery
- Commercial Sardine Fishery
- Commercial Shellfish Growing Areas

The 'Commercial Dungeness Fishery' layer is highlighted with a red oval. To the right of the layer list is a 'Map Themes' dropdown menu. Below the map themes are navigation controls: a plus sign (+), a minus sign (-), a four-way arrow (pan), a left arrow (back), and a house icon (home). The background of the interface is a blue-toned map showing a coastal area.

# Data Viewer

The screenshot displays a GIS Data Viewer interface. At the top, there are tabs for 'Data', 'Active (1)', and 'Legend'. Below the tabs is a search bar labeled 'Search for Layers' with a green 'x' icon. The main content area is titled 'Energy Suitability Human Uses' and contains a list of layers. The 'Commercial Dungeness Crab Fishing Effort' layer is highlighted with a red circle. To the right of the list is a 'Map Themes' dropdown menu and a vertical toolbar with icons for zooming in (+), zooming out (-), panning (four arrows), back (left arrow), and home (house icon).

Data Active (1) Legend

Search for Layers x

**Energy Suitability**  
**Human Uses**

- Aquaculture Districts
- Commercial Albacore Fishery
- Commercial Dungeness Fishery
- Dungeness Crab Special Management Areas (SMAs)
- Commercial Dungeness Crab Fishing Effort
- Commercial Groundfish Fishery
- Commercial Pacific Whiting (Hake) Fishery
- Commercial Pink Shrimp Fishery
- Commercial Sablefish Fishery
- Commercial Salmon Fishery
- Commercial Sardine Fishery

Map Themes

+  
-  
↔  
←  
🏠

# Data Viewer

**WASHINGTON MARINE SPATIAL PLANNING**

Home | Contact Us | About the Viewer | Secure Access Request | Secure Access Login

Map Themes

Data | Active (3) | Legend

Search for Layers

**Energy Suitability**

**Human Uses**

- Aquaculture Districts
- Commercial Albacore Fishery
- Commercial Dungeness Fishery
- Dungeness Crab Special Management Areas (SMAs)
- Commercial Dungeness Crab Fishing Effort
- Commercial Groundfish Fishery
- Commercial Pacific Whiting (Hake) Fishery
- Commercial Pink Shrimp Fishery
- Commercial Sablefish Fishery
- Commercial Salmon Fishery
- Commercial Sardine Fishery
- Commercial Shellfish Growing Areas
- Commercial Waterways (Deep Draft)
- Crabber/Towboat Lanes
- Pacific Northwest Operating Area
- Ocean Disposal Sites
- Shoreline Public Access
- Recreational Albacore Fishery
- Recreational Bottomfish and Lingcod Fisheries

Map navigation controls: +, -, +, ←, Home

Scale: 0 15 30mi  
1:2,311,162

Coordinates: -122.1398, 47.0101

Esri, GEBCO, DeLorme | Michele Culver, Heather Reed, Corey Niles, Carol Henry, and Andrew We...

# Data Viewer

The screenshot displays a 'Data Viewer' window with a 'Data' tab and sub-tabs for 'Active (3)' and 'Legend'. A search bar labeled 'Search for Layers' is present. The main content area lists various layers under the heading 'Energy Suitability Human Uses'. A red circle highlights the 'Commercial Pacific Whiting (Hake) Fishing Effort' layer, which is checked. Other layers include 'Aquaculture Districts', 'Commercial Albacore Fishery', 'Commercial Dungeness Fishery', 'Dungeness Crab Special Management Areas (SMAs)', 'Commercial Dungeness Crab Fishing Effort', 'Commercial Groundfish Fishery', 'Commercial Pacific Whiting (Hake) Closure Areas', 'Commercial Pacific Whiting (Hake) Fishing Effort', 'Commercial Pink Shrimp Fishery', and 'Commercial Sablefish Fishery'. To the right of the list is a map area with a 'Map Themes' dropdown and navigation controls (plus, minus, pan, home).

Data Active (3) Legend

Search for Layers

**Energy Suitability**  
**Human Uses**

- Aquaculture Districts
- Commercial Albacore Fishery
- Commercial Dungeness Fishery
- Dungeness Crab Special Management Areas (SMAs)
- Commercial Dungeness Crab Fishing Effort
- Commercial Groundfish Fishery
- Commercial Pacific Whiting (Hake) Fishery
- Pacific Whiting (Hake) Closure Areas
- Commercial Pacific Whiting (Hake) Fishing Effort
- Commercial Pink Shrimp Fishery
- Commercial Sablefish Fishery

Map Themes

Map navigation controls: +, -, Pan, Home

# Data Viewer

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Search for Layers

**Energy Suitability**

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- Pacific Whiting (Hake) Closure Areas
- Commercial Pacific Whiting (Hake) Fishing Effort
- Commercial Pink Shrimp Fishery
- Commercial Sablefish Fishery
- Commercial Salmon Fishery
- Commercial Sardine Fishery
- Commercial Shellfish Growing Areas
- Commercial Waterways (Deep Draft)
- Crabber/Towboat Lanes
- Pacific Northwest Operating Area
- Ocean Disposal Sites
- Shoreline Public Access
- Recreational Albacore Fishery

Map Themes

Map controls: +, -, +, ←, Home

Scale: 0 15 30mi  
1:2,311,162

Coordinates: -122.2606, 47.6911

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# Data Viewer

The screenshot displays a web-based interface for viewing data. At the top, there are three tabs: "Data", "Active (3)", and "Legend", with "Legend" currently selected. The main content area is divided into two sections, each with a legend for fishing effort levels. The first section is titled "Commercial Pacific Whiting (Hake) Fishery" and includes the legend for "Commercial Pacific Whiting (Hake) Fishing Effort" with categories Low (light red), Medium (medium red), and High (dark red). The second section is titled "Commercial Dungeness Fishery" and includes the legend for "Commercial Dungeness Crab Fishing Effort" with categories Low (light pink), Medium (medium red), and High (dark red). On the right side of the interface, there is a "Map Themes" dropdown menu and a vertical toolbar containing icons for zooming in (+), zooming out (-), panning (four-way arrow), and a home button (house icon).

# Data Viewer

The screenshot displays the 'Data Viewer' interface. At the top, there are tabs for 'Data', 'Active (3)', and 'Legend'. The 'Data' tab is selected, showing a list of layers under the heading 'Human Uses'. Each layer includes an information icon (i), a checkbox, and a dropdown arrow. The layers are:

- Aquaculture Districts
- Commercial Albacore Fishery
- Commercial Dungeness Fishery
- Dungeness Crab Special Management Areas (SMAs)
- Commercial Dungeness Crab Fishing Effort
- Commercial Groundfish Fishery
- Commercial Pacific Whiting (Hake) Fishery
- Pacific Whiting (Hake) Closure Areas
- Commercial Pacific Whiting (Hake) Fishing Effort
- Commercial Pink Shrimp Fishery
- Commercial Sablefish Fishery
- Commercial Salmon Fishery

On the right side, there is a 'Map Themes' dropdown menu and a vertical toolbar with icons for zooming in (+), zooming out (-), panning (four arrows), home (house icon), and a home button. A context menu is open over the 'Commercial Pacific Whiting (Hake) Fishing Effort' layer, listing the following options:

- Transparency
- Show Table
- Description
- View Metadata

# Data Viewer

The screenshot displays a web-based interface for managing map data layers. On the left, a 'Data' panel is active, showing a list of layers under the heading 'Human Uses'. The layers include various fisheries and management areas, with checkboxes for visibility and expand/collapse icons. On the right, a 'Map Themes' dropdown menu is visible above a vertical toolbar containing icons for zooming in (+), zooming out (-), panning (crosshair), home (house), and a back arrow. In the bottom right corner, a '5 Options' dialog box is open, showing a 'Transparency' slider with a blue arrowhead pointing to the center, which is highlighted by a red circle.

Data Active (3) Legend

Human Uses

- Aquaculture Districts
- Commercial Albacore Fishery
- Commercial Dungeness Fishery
  - Dungeness Crab Special Management Areas (SMAs)
  - Commercial Dungeness Crab Fishing Effort
- Commercial Groundfish Fishery
- Commercial Pacific Whiting\_(Hake) Fishery
  - Pacific Whiting (Hake) Closure Areas
  - Commercial Pacific Whiting (Hake) Fishing Effort
- Commercial Pink Shrimp Fishery
- Commercial Sablefish Fishery
- Commercial Salmon Fishery

Map Themes

5 Options

Transparency

# Data Viewer

**WASHINGTON MARINE SPATIAL PLANNING**

Home | Contact Us | About the Viewer | Secure Access Request | Secure Access Login

**Data** Active (3) Legend

**Human Uses**

- Aquaculture Districts
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- Commercial Salmon Fishery
- Commercial Sardine Fishery
- Commercial Shellfish Growing Areas
- Commercial Waterways (Deep Draft)
- Crabber/Towboat Lanes
- Pacific Northwest Operating Area
- Ocean Disposal Sites
- Shoreline Public Access
- Recreational Albacore Fishery
- Recreational Bottomfish and Lingcod Fisheries
- Recreational Halibut Fishery
- Recreational Salmon Fishery

Map Themes

Map navigation controls: +, -, +, ←, Home

Scale: 0 15 30mi  
1:2,311,162

Coordinates: -122.2057, 48.5383

Esri, GEBCO, DeLorme | Michele Culver, Heather Reed, Corey Niles, Carol Henry, and Andrew We...

# Data Viewer

Data Active (3) Legend

### Marine Life and Habitat

- Benthic Habitats
- Chinook Critical Habitat: Columbia River (NOAA)
- Chinook Essential Fish Habitat
- Chum Critical Habitat (NOAA): Hood Canal Summer- Run ESU
- Coho Essential Habitat
- Dunegrass
- Eelgrass
- Eulachon Critical Habitat (NOAA)
- Forage Fish Surveys (WDFW)
- Green Sturgeon Critical Habitat (NOAA)
- Groundfish Essential Habitats
- Kelp Canopy, Years Present (27 years surveyed)
- Marine Mammal Haulout Locations
- Northern Sea Otter Occurrences (WDFW)
- Northern Sea Otter Summer Concentrations (WDFW)
- Pink Salmon Essential Habitat
- Rocky Reefs
- Salt Marsh

Data Active (3) Legend

### Infrastructure

#### Marine Boundaries

- 3 Nautical Mile Limit
- Coastal National Wildlife Refuges
- County Boundaries
- Exclusive Economic Zone
- MSP Study Area Boundary
- Natural Area Preserve
- Natural Resource Conservation Areas
- Olympic Coast National Marine Sanctuary
- Olympic National Park
- Oyster Reserves
- Oyster Tracts
- Seashore Conservation Area (Parks)
- WA Cities and Populations

#### Marine Life and Habitat

- NOAA/BOEM: Participatory Mapping
- Physical Oceanography and Water Chemistry
- Surfrider Foundation: Recreational Participatory Mapping
- My Data
- Location
- Basemap

Data Active (3) Legend

Search for Layers

### Energy Suitability

- Tidal Energy Devices
- Wave Energy: Deepwater Energy Devices
- Wave Energy: Mid-Depth Energy Devices
- Wave Energy: Nearshore, M3 Energy Devices
- Wave Energy: Nearshore Energy Devices
- Wind Energy: Turbines Mounted on Monopiles
- Wind Energy: Turbines Mounted on Floating Platforms
- Wind Energy: Turbines Mounted on Jacket or Tripod Foundation
- Viewsheds: Shoreline to Offshore Power Generation Facilities

#### Human Uses

- Infrastructure
- Marine Boundaries
- Marine Life and Habitat
- NOAA/BOEM: Participatory Mapping
- Physical Oceanography and Water Chemistry
- Surfrider Foundation: Recreational Participatory Mapping
- My Data
- Location
- Basemap



# Data Viewer - Updates

- ArcGIS Software to be updated soon
- Basic functionality to remain
- Improved user interface

# The Plan

- Guidance for new ocean uses
- Plan goals/objectives:
  - Protect existing uses
  - Protect cultural uses/resources
  - Preserve environment
  - Integrate decision-making
- Does NOT identify preferred areas for new ocean uses



Photo by Katrina Lassiter

## **Marine Spatial Plan for Washington's Pacific Coast**

October 2017  
Publication no. 17-06-027 Revised June 2018



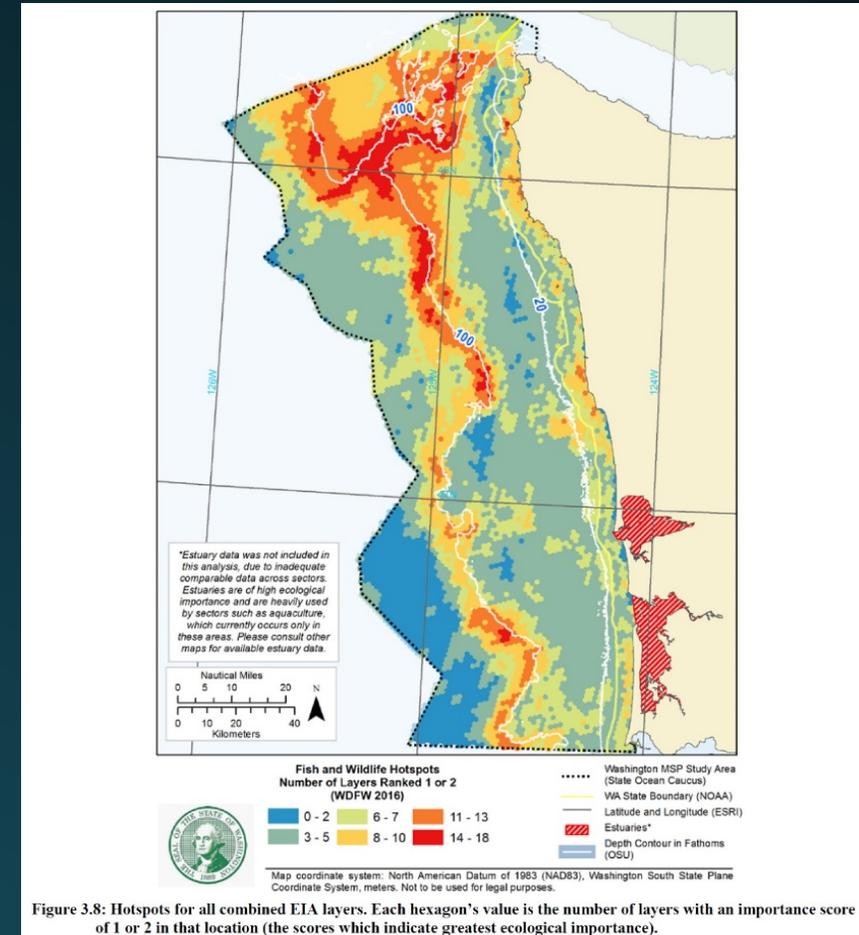


# Plan Contents

- Chapter 1: Introduction
- Chapter 2: Current Conditions and Future Trends
- Chapter 3: Spatial Analyses
- Chapter 4: MSP Management Framework
- Chapter 5: WCMAC MSP Policy Recommendations
- Appendices

# Chapter 3: Spatial Analysis

- Seabird and marine mammal ecological modeling
- Ecologically Important Areas Analysis
- Use Analysis
  - Overlay analysis
  - Marxan analysis



# Marxan Analysis

- Decision support tool
- Siting exercise
- Did NOT recommend areas for new ocean uses
- Demonstrated use conflicts throughout study area

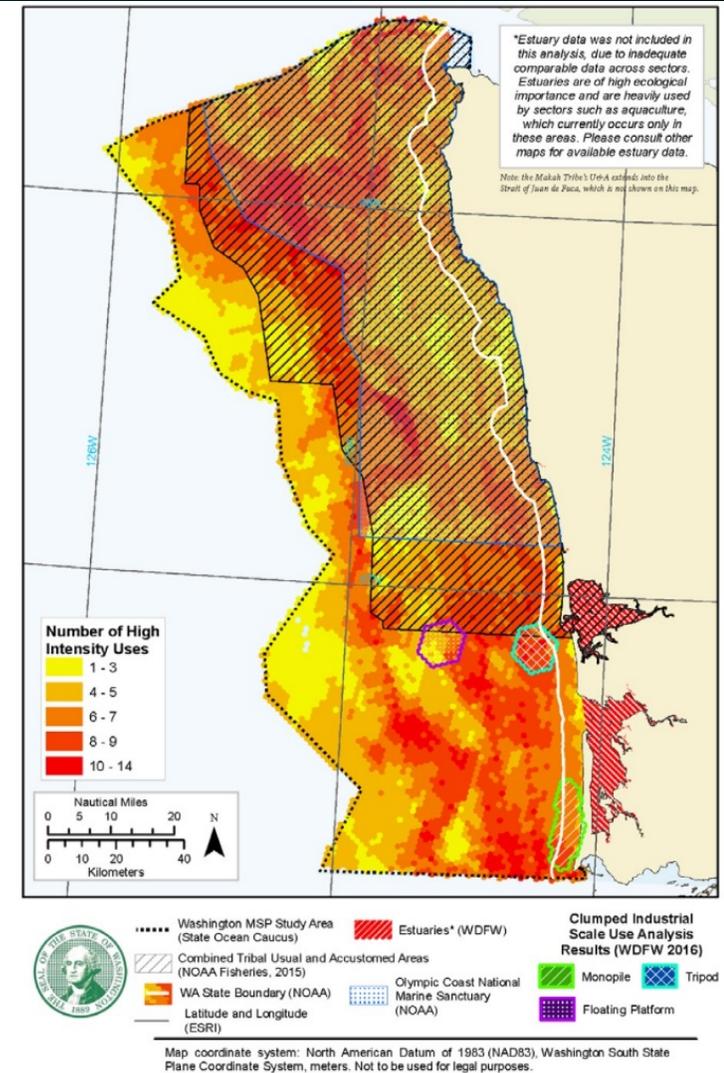


Figure 3.17: Number of high-intensity existing uses and resources (out of a possible total of 16), with Marxan clumped results. Use Analysis maps do not identify areas recommended for development, or areas with a lack of potential conflict. Analysis outputs represent theoretical scenarios and any potential development would require project- and site-specific analysis.



# Chapter 4: Management Framework

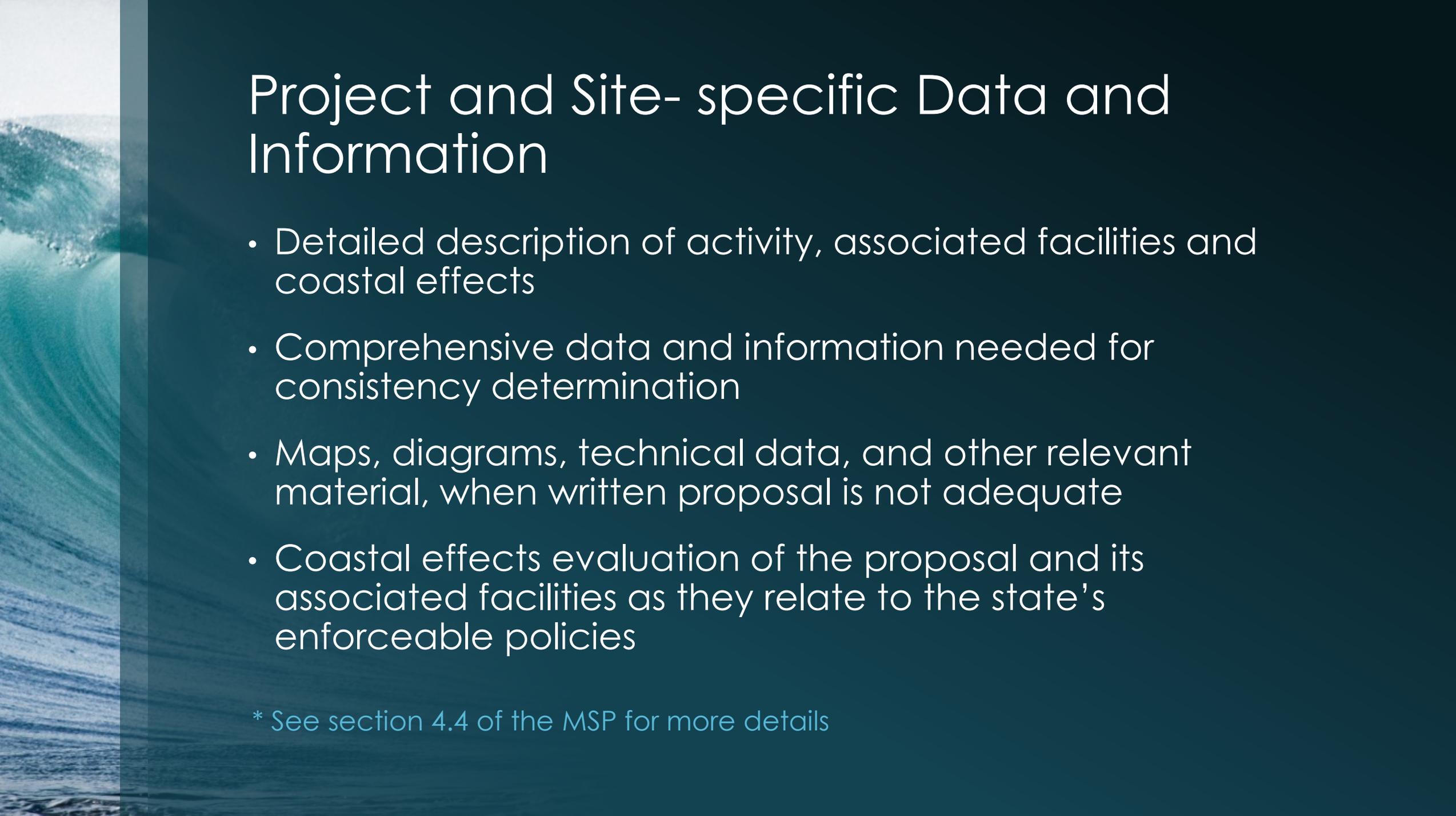
- Existing policies and authorities
- Implementation plan
  - Consultation, coordination, and engagement
- Spatial designations and recommendations
  - Important, Sensitive and Unique Areas (ISUs)
- Necessary data and information
- Effects evaluation
  - Ecological
  - Current uses
  - Natural and other hazards
  - Cumulative effects
- Siting, development, construction and operation standards



# Permits and Authorizations

- Will likely require (but is not limited to):
  - Section 401 Certification (Ecology)
  - Aquatic lands lease (DNR)
  - Shoreline Management Permits (Local government & Ecology)
  - Hydraulic Project Approval (WDFW)
  - Right of Way Permit (WA Parks)
  - Federal Consistency review (Ecology)
  - Other state and local permits and authorizations

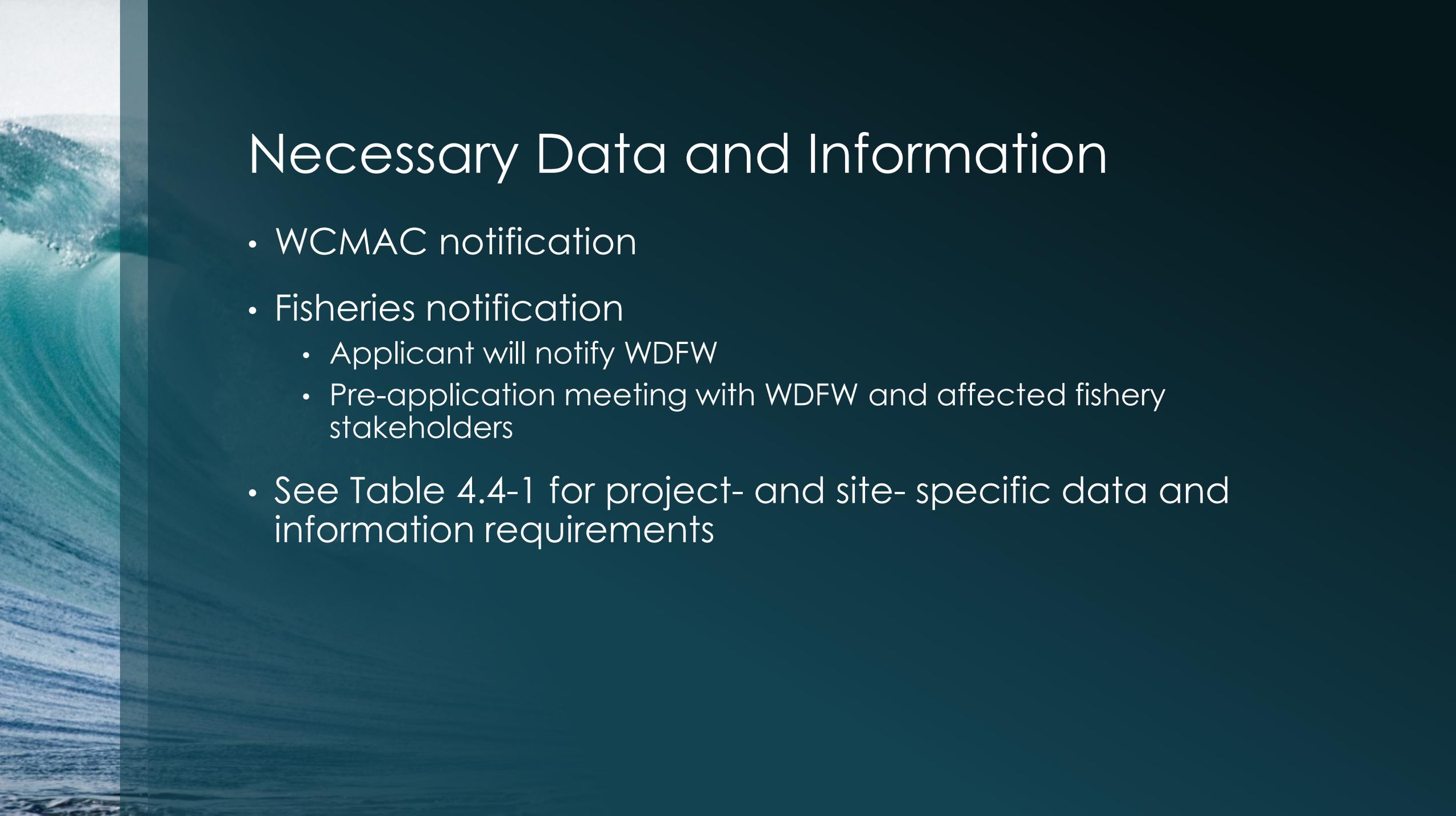
\* See Section 4.1.4 of the MSP for more details



# Project and Site- specific Data and Information

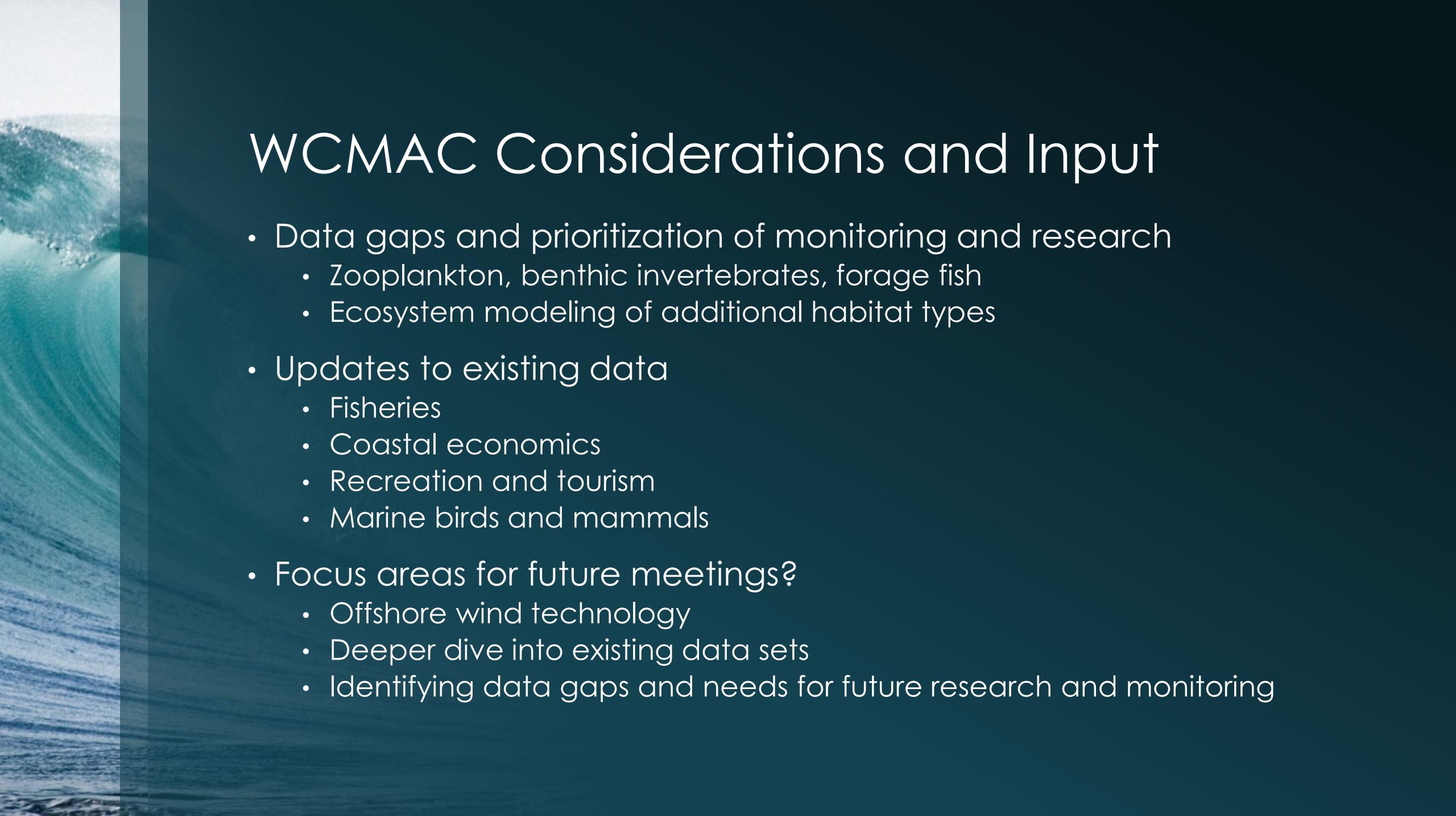
- Detailed description of activity, associated facilities and coastal effects
- Comprehensive data and information needed for consistency determination
- Maps, diagrams, technical data, and other relevant material, when written proposal is not adequate
- Coastal effects evaluation of the proposal and its associated facilities as they relate to the state's enforceable policies

\* See section 4.4 of the MSP for more details



# Necessary Data and Information

- WCMAC notification
- Fisheries notification
  - Applicant will notify WDFW
  - Pre-application meeting with WDFW and affected fishery stakeholders
- See Table 4.4-1 for project- and site- specific data and information requirements



# WCMAC Considerations and Input

- Data gaps and prioritization of monitoring and research
  - Zooplankton, benthic invertebrates, forage fish
  - Ecosystem modeling of additional habitat types
- Updates to existing data
  - Fisheries
  - Coastal economics
  - Recreation and tourism
  - Marine birds and mammals
- Focus areas for future meetings?
  - Offshore wind technology
  - Deeper dive into existing data sets
  - Identifying data gaps and needs for future research and monitoring

# Resources

- Ecology's Marine Spatial Planning Website
  - <https://ecology.wa.gov/Water-Shorelines/Shoreline-coastal-management/Ocean-management/Marine-spatial-planning>
- Full Marine Spatial Plan
  - <https://apps.ecology.wa.gov/publications/documents/1706027.pdf>
- MSP Data Viewer
  - <http://mapview.msp.wa.gov/default.aspx>
- [MSP.WA.GOV](http://MSP.WA.GOV)



# Questions?

Casey Dennehy  
Washington Department of Ecology  
[casey.dennehy@ecy.wa.gov](mailto:casey.dennehy@ecy.wa.gov)  
360.688.0142





**BOEM** Bureau of  
Ocean Energy Management

# Regulatory Roadmap for Offshore Wind Energy Projects

---

Washington Coastal Marine Advisory Council Meeting  
December 15, 2021

Sara Gultinan – Renewable Energy Specialist, Pacific Regional Office  
Necy Sumait – Renewable Energy Section Chief, Pacific Regional Office

# Presentation Topics

- **Regulatory roadmap**
  - Compare/contrast competitive and noncompetitive processes
- **Data and information considered**
- **Fisheries mitigation workshops and Request for Information**



# BOEM Regulatory Roadmap for Offshore Wind Commercial Leases

Online at:

<https://www.boem.gov/renewable-energy/regulatory-framework-and-guidelines>

The screenshot shows the BOEM website's 'Regulatory Framework and Guidelines' page. The header includes the BOEM logo, navigation links for 'OPERATING STATUS', 'CONTACT US', 'EMPLOYMENT', and 'CORONAVIRUS UPDATES', and a social media bar. A secondary navigation bar lists categories like 'ABOUT BOEM', 'REGIONS', 'NEWSROOM', 'OIL & GAS ENERGY', 'RENEWABLE ENERGY', 'ENVIRONMENT', and 'MARINE MINERALS'. The main content area features a breadcrumb trail: 'HOME | RENEWABLE ENERGY | REGULATORY FRAMEWORK AND GUIDELINES'. The title 'Regulatory Framework and Guidelines' is followed by sub-navigation tabs: 'Overview', 'Workplace Safety', 'Regulatory Roadmap' (highlighted), 'National and Regional Guidelines', 'Application and Leasing Guidance', and 'Plan Submittals'. The 'Regulatory Roadmap' section contains a descriptive paragraph, a second paragraph, and a four-step process flowchart. The flowchart steps are: 1. Planning & Analysis (~ 2 YEARS), 2. Leasing (~ 1-2 YEARS), 3. Site Assessment (UP TO 5 YEARS), and 4. Construction & Operations (~ 2 YEARS (+25)). Each step includes a list of key activities.

**Regulatory Roadmap**

This "Regulatory Roadmap" provides guidance on the requirements for acquiring an offshore wind commercial lease on the Outer Continental Shelf (OCS), pursuant to 30 CFR 585. The Bureau of Ocean Energy Management (BOEM) is providing this document to clarify the steps and approvals necessary to develop an OCS wind facility.

This document is intended to be used as guidance to developers to outline the requirements of BOEM and other agencies that industry must follow when developing offshore wind projects. For public guidance outlining the process for overseeing renewable energy projects on the OCS and opportunities for public involvement, please see *A Citizen's Guide*.

Planning & Analysis	Leasing	Site Assessment	Construction & Operations
~ 2 YEARS	~ 1-2 YEARS	UP TO 5 YEARS	~ 2 YEARS (+25)
<ul style="list-style-type: none"><li>Intergovernmental Task Force</li><li>Request for Information or Call for Information and Nominations</li><li>Area Identification</li><li>Environmental Reviews</li></ul>	<ul style="list-style-type: none"><li>Publish Leasing Notices</li><li>Conduct Auction or Negotiate Lease Terms</li><li>Issue Lease(s)</li></ul>	<ul style="list-style-type: none"><li>Site Characterization</li><li>Site Assessment Plan</li></ul>	<ul style="list-style-type: none"><li>Construction and Operations Plan</li><li>Facility Design Report and Fabrication and Installation Report</li><li>Decommissioning</li><li>Environmental and Technical Reviews</li></ul>



# Initiating the BOEM Leasing and Planning Process

## Potential Path

- BOEM receives an unsolicited lease request

## Potential Path

- BOEM, in collaboration with a State, initiates offshore wind planning

- BOEM will coordinate and consult with affected Tribal, State, and local governments and other Federal agencies
- BOEM provides multiple opportunities for public input



# Unsolicited Lease Request received: what happens next?



- BOEM receives an unsolicited lease request



- BOEM will consider unsolicited requests for a lease on a case-by-case basis



- Applicant must meet legal, technical, & financial qualifications



- BOEM may issue a **Request for Interest (RFI)** to determine if competitive interest in requested area



- If competitive interest exists, BOEM initiates the competitive leasing process



- If no competitive interest, BOEM will review the lease request and may offer a non-competitive lease



# Competitive Process



## Planning & Analysis

<https://www.boem.gov/renewable-energy/planning-analysis>



## Leasing

<https://www.boem.gov/renewable-energy/competitive-process>

• BOEM publishes Call for Information and Nominations (“Call”). Areas under consideration are **Call Areas**.

• Area Identification: BOEM will identify areas for environmental review and consideration for leasing. Areas under consideration are **Wind Energy Areas**.

• BOEM conducts first environmental review and consultations on lease issuance and associated site characterization and site assessment activities.

• BOEM publishes Sale Notices that include terms and conditions developed through the environmental review and consultation processes; BOEM identifies qualified bidders.

• BOEM hold competitive lease auction per Final Sale Notice and awards lease. Areas offered and awarded are **Lease Areas**. Lessees file financial assurance.



# Considerations for Identifying Potential Areas for Offshore Wind Energy Development

- Wind resource
- BOEM authority (e.g., excludes National Marine Sanctuaries)
- Oceanographic factors (e.g., water depths, slope)
- Interconnection locations for electrical grid access
- Nominations of commercial interest received in response to a Call
- Protected species and habitats
- Vessel traffic
- Commercial and recreational fishing considerations
- Compatibility with Department of Defense activities
- Other ocean uses
- Cultural and archaeological resources
- Port infrastructure



# Noncompetitive Process Summarized



Leasing

<https://www.boem.gov/renewable-energy/noncompetitive-process>

• If no competitive interest, BOEM publishes a notice of Determination of No Competitive Interest

• BOEM conducts environmental review and mandatory consultations

• Applicant submits any required consistency certification and necessary data and information to the applicable State Coastal Zone Management Act agency and BOEM

• BOEM may offer a noncompetitive lease, which includes stipulations developed through consultations and environmental review

• Applicant accepts lease terms and conditions, files financial assurance



# Now there's a lessee: what happens next?



## Site Assessment

**UP TO 5 YEARS**

- Site Characterization
- Site Assessment Plan



## Construction & Operations

**~ 3 YEARS (+25)**

- Construction & Operations Plan
- Facility Design Report and Fabrication & Installation Report
- Decommissioning
- Environmental and Technical Reviews



# National Environmental Policy Act (NEPA)

NEPA requires Federal agencies to assess the environmental effects of their proposed action prior to a decision

## First Review

- Issuance of commercial wind energy lease(s), which includes areas within Federal waters that might be used for energy production, collection, and transmission
- Site Characterization Activities – biological, geotechnical, geophysical, and archaeological surveys
- Site Assessment Activities – deployment of one or more buoys to gather oceanographic and meteorological data

## Second Review

- Potential impacts of project construction and operations are considered once a Construction & Operations Plan is submitted



# BOEM Consultations with Agencies

- National Historic Preservation Act (NHPA, Section 106)
  - Requires that BOEM take into account the effects of undertakings on historic properties
- Coastal Zone Management Act (CZMA)
- Endangered Species Act (ESA Section 7) – NOAA NMFS and U.S. Fish & Wildlife Service
- Magnuson-Stevens Fishery Conservation and Management Act (Essential Fish Habitat [EFH]) – NOAA NMFS



# Environmental Resources and Socio-cultural Considerations



## Biological

- Marine Mammals and Sea Turtles
- Fish and Essential Fish Habitat
- Marine Habitats
- Avian and Bat Species
- Threatened and Endangered Species



## Physical

- Air Quality
- Water Quality
- Geology/ Geohazards



## Socio-cultural

- Tribal Perspectives
- Historic Properties
- Commercial and Recreational Fishing
- Environmental Justice
- Tourism and Recreation
- Demographics and Employment
- Military Use
- Navigation/Vessel Traffic

# Data and Information Considered

- Comments received in response to public notices, public meetings
- Information received through coordination and consultation
- Studies and surveys (by BOEM and others)
- Scientific and economic literature
- Existing data and information (e.g., WA Marine Spatial Plan, PFMC, NOAA Fisheries)
- Portals for access to spatial data (e.g., California Offshore Wind Energy Gateway, OROWindMap)



# Guidance for Mitigating Impacts to Commercial and Recreational Fisheries

- BOEM headquarters-led effort in consultation with NOAA Fisheries and affected coastal states to develop guidance for the mitigation of impacts from offshore wind energy projects on commercial and recreational fishing communities.
- The first step in this process is to gain knowledge from the people and organizations that know and use these areas.
- Request for Information published Nov 23, 2021: <https://www.regulations.gov/document/BOEM-2021-0083-0001>
  - Comment due date: Jan 7, 2022
- **West Coast Fishing Workshop – Dec 13, 2021**
  - Opportunity to learn about the purpose and intent of the guidance and themes in the 2014 document Development of Mitigation Measures to Address Potential Use Conflicts between Commercial Wind Energy Lessees/Grantees and Commercial Fishermen on the Atlantic Outer Continental Shelf
  - Chance to share thoughts and discuss issues that could help us as we develop the draft guidance
  - Workshop summaries will be posted on BOEM website within 1-2 weeks of event
- **BOEM contact: Brian Hooker, [brian.hooker@boem.gov](mailto:brian.hooker@boem.gov)**



# BOEM

Bureau of Ocean Energy  
Management

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# WASHINGTON COASTAL MARINE ADVISORY COUNCIL MEETING

## Draft Summary

Wednesday, June 17, 2021 | 9:00am – 12:30pm

All meeting materials and presentations can be found on the WCMAC website:

<http://www.ecy.wa.gov/programs/sea/ocean/advisorycouncil.html>

### Highlights

- Updates from coastal groups.
- Review and discussion of potential coastal resilience recommendations.

### Summary of Decisions

- ! Slate of coastal resilience recommendations approved.

### Follow-up Items

- Discuss flagged potential coastal resilience recommendations that were marked yellow.
- Crystal Dangler to draft a letter to elected leaders that includes the approved slate of coastal resilience recommendations.
- Bobbak will put out a bid for a new WCMAC facilitator.

### Upcoming Meetings

- September: exact date TBD

### Council Members Present

Rich Osborne, Science	Brian Sheldon, Shellfish Aquaculture
RD Grunbaum, Conservation	Corey Niles, WDFW
Dale Beasley, Commercial Fishing	David Fluharty, Educational Institution
Doug Kess, Pacific MRC	Garrett Dalan, Grays Harbor MRC
Genevra Harker-Klimes, Coastal Energy	Gus Gates, Recreation
Jay Carmony, State Parks	Paula Culbertson, Wahkiakum MRC
Mike Cassinelli, Recreational Fishing	Larry Thevik, Commercial Fishing
Rod Fleck, North Pacific MRC	Russell Callender, WA Sea Grant
Hannah Blackstock (filling in for Mike Rechner)	Crystal Dangler, Citizen
Randy Lewis, Ports	Rich Doenges, Dept. of Ecology
Mara Zimmerman, WA Coastal Salmon Partnership	

### Council Members Absent

Jen Hennessey, Governor's Office	Mike Rechner (substituted by Hannah Blackstock)
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### Others Present (as noted on the sign-in sheet)

Mike Chang, Cascadia Consulting	Susan Gulick, Sound Resolutions
Aaron Tam, Cascadia Consulting	Scott McMullen, Oregon Fishermen's Cable Committee
Bobak Talebi, Ecology	Shane Phillips, Moffat & Nichol
Cynthia Toop, Shoalwater Bay Indian Tribe	Shawn Humphreys, Pacific County
Gary Morishima, Quinault Indian Nation	Susan Chambers
Henry Bell, Ecology	Mike Nordin
Tami Pokorny, Jefferson County	Molly Bold, Port of Grays Harbor
Jackson Blalock, WA Sea Grant	Tommy Moore, NWIFC
Jamie Judkins, Shoalwater Bay Indian Tribe	Tristan Allen, Commerce

Jill Silver, 10,000 Years Institute	Ann Skelton, Pacific MRC
Kelly Rupp, LeadtoResults, LLC	Kris Wall, NOAA
Kevin Decker, WA Sea Grant	Lori Steele

## **Welcome and Introductions**

Crystal Dingler welcomed everyone to the June WCMAC meeting and wished Susan farewell. Susan asked for edits to the previous meeting summary. Larry Thevik wanted to update the minutes in two ways:

1. In the last bullet under “Agency updates”, Larry asked that the summary add that he noted that the statute does not mention limits of two terms for WCMAC membership.
2. Replace the phrase “wind development” with “offshore wind energy development.”

The summary was approved with these changes.

## **Coastal Updates**

### Marine Resources Committee (MRC) Updates

- Doug Kess said that Pacific MRC is working on hosting a virtual and in-person MRC conference.
- Tami Pokorny mentioned that University of Washington (UW) master’s degree students are working on a study regarding river otter predation on European Green Crabs (EGC) on the Makah reservation. Tami mentioned that they would be launching a request for proposals in the coming month. The Olympic National Park staff and U.S. Geological Survey are studying disease on clam gills. Recordings on the study presentation are available online.
- Paula Culbertson noted that there the resilience proposals exceed the current funding in her MRC. There are 9 proposals totaling \$45,000 when there is only \$38,000 in funding.

### Agency Updates

- Jay Carmony announced that on Monday July 5<sup>th</sup>, State Parks and other volunteers will be handing out garbage bags at most ocean beach approach roads for folks to clean up after the Fourth of July.
- Tristan Allen is a new Commerce employee focused on community engagement, and he noted that there has been a recent expansion of the Department of Commerce’s outreach and engagement team which will help communities with FEMA policies and rural broadband.
- Rich Doenges noted that the Department Ecology has an integrated pest management workgroup that will have resources for field trials. The workgroup is looking to update the settlement agreement between oyster growers and Ecology.
- Bobbak Talebi noted that the WCMAC budget and administrative duties moved into the Department of Ecology. He will be spearheading a competitive request for proposal process for a new facilitator.
- Russell Callender noted that Sea Grant is once again in the President’s budget. This could enhance Washington’s capacity for coastal resilience. Hershman Marine Fellowship workshops are starting soon and will be getting fellows out into the community to engage on marine resource policies.

### General Coastal Updates

- Larry Thevik shared that there was a biotoxin event with European Green Crabs (EGC). The season opened much later than much of the rest of the coast. He worked on an evisceration order and pursued legislative action. The legislation failed despite unanimous, bipartisan through the House. Larry expects this season to be valued in excess-

close to \$50 million. This year fishers benefitted, but it was difficult the year before. The Washington Fisheries still have not received any benefit from the CARES Act relief effort by Congress.

- Dale Beasley mentioned that there was a Department of Ecology WAC and Shoreline Master Plan (SMP) crosswalk document that was helpful. There is an SMP update in the works.
- Brian Sheldon shared that oyster growers continue to lose hundreds of acres of their farm. The growers are walking away from their oyster beds. Peppermint oil and other solutions are not working. Oyster growers are facing roadblocks against using chemicals. EGC have infested the Spartina, and they need to be eviscerated. There was a toxin, yessotoxin, that was killing oysters, and there is uncertainty about how to control that toxin. Center for Biological Diversity challenged his permit for chemical use to control shrimp.
  - Russell Callender shared more information in the chat: <https://doi.org/10.1016/j.hal.2021.102032>.
- Mara Zimmerman mentioned that her organization is receiving \$10 million through the Washington Coast Marine Restoration funding. Her organization will have their next grant round in early 2022. They are also hosting a symposium on habitat restoration in a climate change era.

#### MRAC Update

- Garrett Dalan (in chat) shared that the Grays Harbor MRC (GH MRC) had some recent, new appointees to the committee. This has led to the group reviewing goals and mission which the group will be working on this Fall.
- Grays Harbor MRC will update their website with links to tools for teachers which was developed by Julie Tennis (PIE) with MRC funding. MRAC plans to meet on Tuesday June 29th. Garrett encouraged people to reach out if they would like an invitation.

### **WCMAC Coastal Resilience Potential Recommendations**

Susan facilitated a discussion on each of the potential coastal resilience recommendations and whether they should be added to the slate. Bobbak gave a brief overview of each of the recommendations and explained the process of developing these recommendations which was vetted with hundreds of participants through the Ruckelshaus Center and through a series of economic resilience webinars for the past two years.

#### Discussion on Potential Recommendations from the Workshop

- Corey Niles asked about advantages of having recommendations finalized now versus later:
  - Rod Fleck clarified that the advantage is to have the Governor's budget finalized before legislative session.
- Discussion on: *Increase funds for MRCs to accomplish resilience objectives*.
  - Doug Kess expressed strong support for this. Had a lot of complaints that the coordinators are taking time from other work to do MRC work.
  - Rich Doenges asked a clarifying question around whether there has been a decrease in support funding from DFW.
  - Jackson Blalock mentioned that this is also about restructuring the management and funding as the other MRCs operate under a different structure, via the NW Straits Foundation and Commission. This results in more work and results in their communities.
  - Randy Lewis believed that this needed a little more work because MRCs are not adequately funded currently. This recommendation would add another layer of work, and he suggested modifying it to acknowledge the current capacity gap.
  - This will be held for further discussion by WCMAC.
- Discussion on: *Hazards resilience-focused funding*
  - This was the #1 priority ranked recommendation from the survey.
  - Corey asked for clarification on where the funding goes, and he believed it needed more specificity.

- This will be held for further discussion by WCMAC.
- Discussion on: *Hazard disclosures*
  - Randy Lewis expressed concern that the recommendation as written could make the responsibility of hazard disclosure fall on the property owner. He suggested asking the Governor or legislature not to simply require disclosure but also provide tools for making that straight forward.
  - Gus Gates agreed with this but worried about getting too deep in the details.
  - Bobbak remarked that the working group that drafted this thought it would be important to structure this recommendation to leave the appropriate entities to lead the discussion (Real Estate Commission and Legislature).
  - The recommendation was marked green and added onto the slate of recommendations for approval.
- Discussion on: *Burrowing shrimp*
  - There were 3 options for this recommendation—some with broader language around chemicals.
  - Brian Sheldon remarked that he wrote the names of two specific pesticides because those two have very strong datasets and a long history of the effects. They have minimal drift and short-term non-target impacts. The Environmental Protection Agency has strong data around these two chemicals. Regardless of the impact to oyster growers, Brian noted that shrimp affect other species and destroy habitat.
  - Rich Doenges noted that they approved permits for these chemicals but then the market changed. Growers asked to cancel the permit. There is no legal way for the Governor to approve these two specific chemicals. The chemicals may be effective, but there are downsides that DNR expressed opposition to. Growers were sued by environmental groups over use of Carbaryl. Shellfish growers reached a settlement to phase out carbaryl. Rich encouraged that the group focus on the issue and direct the governor to use his emergency powers to help.
  - Gus Gates noted that he heard about promising preliminary results in field trials that included physical control. He suggested adding “physical control” to Option 2.
  - Brian Sheldon said that he believed Option 2 used to have language saying “pesticides available to them.” Brian refuted the earlier comments, and he said that he would reluctantly support option 2.
  - Rich suggested adding “and/or mechanical” after “chemical” in Option 2.
  - This action was marked green and added onto the slate of recommendations for approval after the change.
- Discussion on: *Clear, certain, achievable state permitting for large commercial and industrial projects*
  - Randy Lewis suggested refining the language to include a broader range of projects.
  - Larry Thevik, RD Grunbaum, and Dale Beasley were completely opposed to moving this recommendation forward.
  - This recommendation was tabled for future discussion.
- Discussion on: *New Commerce FTE*
  - Tristan Allen noted that there is a new outreach team being hired already, and he suggested that this recommendation could specify that this outreach team aid WCMAC.
  - The recommendation was marked green and added onto the slate of recommendations for approval.
- Discussion on: *Energy supply and infrastructure assessment*
  - Tristan Allen suggested replacing “appropriate agency” with “State Energy Office” under the “Implementer” column. The change was made.
  - The recommendation was marked green and added onto the slate of recommendations for approval.

Approve Selected Recommendations by Consensus

There was a request to move recommendation #1 (*Establish a Coastal Hazards Organizational Resilience Team*) onto the slate of recommendations for approval. After discussion, there was agreement to do this. Susan asked for a consensus vote on the package of recommendations 1, 2, 4, 6, 7, 8, 9, 10, 12, 13, 14, 15 for approval (see table below for the approved list of recommendations). This package of recommendations was approved by consensus (see *attached voting form* for the vote record). The recommendations marked yellow were tabled for future discussion.

#	Type	Short Name
1	Hazards	Establish a Coastal Hazards Organizational Resilience Team (COHORT)
2	Hazards	Options to increase local staffing capacity for resilience work
4	Hazards	Coastal erosion technical assistance program
6	Hazards	Pursue modifications to federal standards
7	Hazards	Sea level rise planning
8	Hazards	Hazard disclosures
9	Economic	Area Sector Analysis Planning
10	Economic	Coastal Conservation Corps
12	Economic	New Commerce FTE
13	Economic	Coastal Rural Broadband
14	Economic	Energy supply and infrastructure assessment
15	Economic	Burrowing shrimp

### **Public Comment**

- Doug and Larry requested one to two minutes of time for public comment for each recommendation; however, this motion was denied by the Chair due to time constraints.
- Mike Nordin said that five minutes for public comment is insufficient. He expressed frustration and said, “Shellfish farmers have not had a tool for 8 years, and the Bay has been decimated already beyond what imidacloprid could have done.” He urged WCMAC to approve Option 1 for the *Burrowing shrimp* recommendation.
- Jill Silver (in chat) advocated for the need for continuous, year-round management of invasive species like Scotch broom and ecological restoration through the *Coastal Conservation Corps* recommendation.

### **Closing/Next Steps**

Crystal Dingler reminded the group that we hope to schedule the next meeting in September (date to be determined) and adjourned the meeting.

## WCMAC Record of Voting

Action: *Package of Coastal Resilience Recommendations*

Date: 6/16/2021

<b>Name</b>	<b>Seat</b>	<b>Yes</b>	<b>No</b>	<b>Abstain</b>	<b>Absent</b>
Alla Weinstein	Energy industry or org.				X
Brian Sheldon	Shellfish Aquaculture				X
Corey Niles	WDFW	X			
Crystal Dingler	Citizen Rep	X			
Dale Beasley	Commercial fishing	X			
Dave Fluharty	Educational institution	X			
Doug Kess	Pacific MRC	X			
Garrett Dalan	Grays Harbor MRC	X			
Genevra Harker-Kilmes	Coastal Energy	X			
Gus Gates	Recreation	X			
Jay Carmony	State Parks	X			
Jennifer Hennessey	Gov's Office				X
Larry Thevik	Commercial fishing	X			
Mara Zimmerman	WCSSP	X			
Michal Rechner	DNR				X
Mike Cassinelli	Recreational fishing	X			
Randy Lewis	Ports	X			
RD Grunbaum	Conservation	X			
Rich Doenges	Ecology	X			
Rich Osborne	Science	X			
Rod Fleck	N. Pacific MRC	X			
Russell Calendar	Sea Grant	X			
Paula Culbertson	Wahkiakum MRC	X			
<b>Total</b>		<b>19</b>			<b>4</b>
<i>Vacant</i>	<i>Commerce</i>				
<i>Vacant</i>	<i>Economic Development</i>				
<i>Vacant</i>	<i>Shipping</i>				