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

<table>
<thead>
<tr>
<th>Time</th>
<th>Agenda Item</th>
<th>Objective (Information, Discussion, Action?)</th>
<th>Presenter(s)</th>
</tr>
</thead>
</table>
| 9:30    | Welcome & Introductions, Agenda Review  
          • Welcome and introductions  
          • Review agenda  
          ! Adopt summary of June meeting | Information  
Reference Materials:  
• Agenda  
• Draft June Meeting Summary (attached) | Rod Fleck, WCMAC Vice-Chair  
Garrett Dalan, Facilitator |
| 9:40    | Recognition for Mayor Crystal Dingler | Information | WCMAC Members |
| 10:00   | Member Updates  
          • MRC Updates  
          • Agency Updates  
          • General Coastal Updates  
          • MRAC update  
          • WCMAC Coastal Resilience Recommendations  
          • Green Grab Management | Information | Garrett Dalan, Facilitator  
WCMAC Members  
Gus Gates, member  
Allen Pleus, WDFW |
| 10:40   | Update on WCMAC 2022 Meetings | Information | Rod Fleck, WCMAC Vice-Chair |
| 10:45   | September Special Session on Off-shore Wind  
          • Update from Grays Harbor Wind  
          • Member discussion | Information  
Reference Materials:  
• [https://www.graysharborwind.com/](https://www.graysharborwind.com/) | Garrett Dalan, Facilitator  
Alia Weinstein, member |
| 11:15   | Public Comment | Public/Observers | Garrett Dalan, Facilitator |

Break until 1:00pm

| 1:00    | Presentation and Discussion  
          • Regulatory Roadmap for offshore wind projects  
          • Data and information used in project evaluation | Information  
Reference Materials:  
• Roadmap Website Guide (attached) | Necy Sumait, BOEM  
Sara Guiltinan, BOEM |
| 1:30    | Presentation and Discussion  
          • WA’s Marine Spatial Plan Necessary Data and Info.  
          • Update and review of MSP Data Viewer | Information  
Reference Materials:  
• Full Marine Spatial Plan  
• Data Viewer | Casey Dennehy, Ecology |
| 2:00    | WCMAC Action Items for Off-shore Wind  
          • Transition from information gathering to shaping recommendations | Information | Rod Fleck, WCMAC Vice-Chair |
| 2:40    | WCMAC Work Plan Update | | Rod Fleck, WCMAC Vice-Chair |
| 2:50    | Public Comment | Public/Observers | Garrett Dalan, Facilitator |
| 3:00    | Adjourn | | Rod Fleck, WCMAC Vice-Chair |
Microsoft Teams meeting

**Join on your computer or mobile app**

[Click here to join the meeting](#)

**Or call in (audio only)**

+1 564-999-2000,,769787616#  United States, Olympia

Phone Conference ID: 769 787 616#

[Find a local number](#) | [Reset PIN](#)

[Learn More](#) | [Meeting options](#)
Following is the schedule of regular meetings for the Washington Coastal Marine Advisory Council for 2022.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Location*</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 16, 2022</td>
<td>Start time 9:30 AM</td>
<td>Virtual</td>
</tr>
<tr>
<td>June 15, 2022</td>
<td>Start time 9:30 AM</td>
<td>Virtual or Port of Grays Harbor Commission Chambers Room 111 S. Wooding Street, Aberdeen, WA 98520</td>
</tr>
<tr>
<td>September 14, 2022</td>
<td>Start time 9:30 AM</td>
<td>Virtual or Port of Grays Harbor Commission Chambers Room 111 S. Wooding Street, Aberdeen, WA 98520</td>
</tr>
<tr>
<td>December 14, 2022</td>
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</tbody>
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*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](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.
Bureau of Ocean Energy Management
Regulatory Roadmap for Offshore Wind Commercial Leases on the Outer Continental Shelf

2. Click on the “Regulatory Roadmap” tab (third tab from the left)

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
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:
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

Locations:
- Lummi Bay
- Drayton Harbor
- Salish Sea
- Coast
- Makah Bay
- Grays Harbor
- Willapa Bay
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.

<table>
<thead>
<tr>
<th>Action Area</th>
<th>2019 Captures</th>
<th>2020 Captures</th>
<th>2021 Captures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drayton Harbor</td>
<td>38</td>
<td>253</td>
<td>134</td>
</tr>
<tr>
<td>Lummi Bay</td>
<td>23</td>
<td>5</td>
<td>0**</td>
</tr>
<tr>
<td>Lummi Sea Pond</td>
<td>41</td>
<td>2,670</td>
<td>&gt;76,000</td>
</tr>
</tbody>
</table>

*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

Graph shows long-term monitoring data from only Stackpole site in Willapa Bay

Data from Yamada/PSMFC

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<th>2020 Captures</th>
<th>2021 Captures *</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grays Harbor</td>
<td>150</td>
<td>857</td>
<td>4,307</td>
</tr>
<tr>
<td>Willapa Bay</td>
<td>176</td>
<td>1,517</td>
<td>5,126</td>
</tr>
<tr>
<td>Makah Bay</td>
<td>1,441</td>
<td>1,072</td>
<td>1,364</td>
</tr>
</tbody>
</table>

*Number captures pending partner submission and final analysis.
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

• Prevention
• Early detection
• Assessment
• Local removal/control
• Transboundary cooperation
• Research
• Collaborative management
• Resource protection
• Adaptive management

• WA Coastal Action Plan for Invasive European Green Crab

- No previous funding to coordinate development
# Emergent Funding Needs

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<tr>
<th>EGC Emergency Measures Actions</th>
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<th>2022 Supplemental Legislative Funds</th>
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<tr>
<td></td>
<td>FY22</td>
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<tr>
<td></td>
<td>Jan 1 – Mar 31</td>
<td>Apr 1 – Jun 30</td>
</tr>
<tr>
<td>WDFW AIS Statewide</td>
<td>718,000</td>
<td>570,000</td>
</tr>
<tr>
<td>WDFW Coastal Grant</td>
<td>32,000</td>
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</tr>
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<td>47,000</td>
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<td>100,000</td>
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<td>WA Sea Grant</td>
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<td>94,000</td>
</tr>
<tr>
<td>RCO Multiagency Coord Group</td>
<td>10,000</td>
<td>10,000</td>
</tr>
<tr>
<td>RCO Rapid Response IAA Fund</td>
<td>9,000</td>
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<td><strong>Total</strong></td>
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<td>1,418,000</td>
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This budget request was sent to the Governor’s Office on December 14th under WDFW’s Emergency measures statute RCW 77.135.090
# Emergent Funding Needs

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This budget request was sent to the Governor’s Office on December 14th under WDFW’s Emergency measures statute RCW 77.135.090.
Questions?

Allen Pleus

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)

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

AIS Impacts:
- Food web
- Predation
- Habitat

Management:
- Prevention
- Early Detection
- Rapid Response
- Control
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
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
Floating offshore wind off the cost of Washington state

WindFloat Atlantic, Portugal, 2019
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:
  o Oceans continue to warm and become more acidic;
  o Mountain and polar glaciers continue melting leading to sea level rise

• Offshore Wind contributes to:
  o Energy generation without CO2 emissions
  o Air quality, clean water supply
  o Diversification of renewable energy mix
  o 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
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:

a) Submittal of an Unsolicited Lease Request to BOEM that leads to an RFI

b) Governor’s request to initiate offshore wind planning that leads to a CALL

**BOEM conducts NEPA**

a) EA on site characterization and assessment activities prior a lease award

b) EIS after developer submits Construction and Operation Plan (COP)
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
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

Marine Spatial Plan for Washington’s Pacific Coast

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

The Data

WASHINGON MARINE SPATIAL PLANNING

[Image of map with various themes and layers]
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
Shipping
MSP.WA.GOV
Data Viewer
Data Viewer

Energy Suitability

Human Uses

- 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 Shrimp Growing Areas
Data Viewer

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
Data Viewer

WASHINGTON MARINE SPATIAL PLANNING

[Map with various themes and layers related to marine spatial planning, including energy suitability, human uses, and different types of fisheries.]
Data Viewer

Energy Suitability
Human Uses
- Aquaculture Districts
- Commercial Albacore Fishery
- Commercial Dungeness Fishery
- Commercial Groundfish Fishery
- Commercial Pacific Whiting (Hake) Fishery
- Commercial Pacific Whiting (Hake) Closure Areas
- Commercial Pacific Whiting (Hake) Fishing Effort
- Commercial Pink Shrimp Fishery
- Commercial Sablefish Fishery
Data Viewer

WASHINGTON MARINE SPATIAL PLANNING

Map Themes

Energy Suitability
- Marine Areas
  - Aquaculture Districts
  - Commercial Salish Sea Fishery
  - Commercial Pacific Halibut Fishery
  - Commercial Pacific Herring Fishery
  - Commercial Pacific Herring (Hake) Fishing Effort
  - Commercial Pink Salmon Fishery
  - Commercial Surf Perch Fishery
  - Commercial Seabird Fishery
  - Commercial Seabird Fishery
  - Commercial Shellfish Growing Areas
  - Commercial Waterways (Deep Drafts)
  - Crayfish/Thickclaw Lenses
  - Pacific Northwest oyster Operating Area
  - Ocean Deepened Shelves
  - Shoreline Public Access
  - Recreational Alliances Fishery

Search for Layers
Data Viewer

- **Commercial Pacific Whiting (Hake) Fishery**
  - Commercial Pacific Whiting (Hake) Fishing Effort
  - Legend:
    - Low
    - Medium
    - High

- **Commercial Dungeness Fishery**
  - Commercial Dungeness Crab Fishing Effort
  - Legend:
    - Low
    - Medium
    - High
Data Viewer

Options: Transparency, Show Table, Description, View Metadata
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
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
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

• MSP Data Viewer
  • http://mapview.msp.wa.gov/default.aspx

• MSP.WA.GOV
Questions?

Casey Dennehy
Washington Department of Ecology
casey.dennehy@ecy.wa.gov
360.688.0142
Regulatory Roadmap for Offshore Wind Energy Projects

Washington Coastal Marine Advisory Council Meeting
December 15, 2021

Sara Guiltinan – 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
Online at:
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
• 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
• 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**

- 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
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)
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.

- 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
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 Dingler 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 Dingler, 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)

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
Bobbak 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
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 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 5th, 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 Tenis (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 Bialock 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.
• Discussion on: Hazard disclosures
  o 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 straightforward.
  o Gus Gates agreed with this but worried about getting too deep in the details.
  o 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).
  o The recommendation was marked green and added onto the slate of recommendations for approval.

• Discussion on: Burrowing shrimp
  o There were 3 options for this recommendation—some with broader language around chemicals.
  o 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.
  o 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.
  o 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.
  o 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.
  o Rich suggested adding “and/or mechanical” after “chemical” in Option 2.
  o 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
  o Randy Lewis suggested refining the language to include a broader range of projects.
  o Larry Thevik, RD Grunbaum, and Dale Beasley were completely opposed to moving this recommendation forward.
  o This recommendation was tabled for future discussion.

• Discussion on: New Commerce FTE
  o 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.
  o The recommendation was marked green and added onto the slate of recommendations for approval.

• Discussion on: Energy supply and infrastructure assessment
  o Tristan Allen suggested replacing “appropriate agency” with “State Energy Office” under the “Implementer” column. The change was made.
  o 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.

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**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

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| Total                 | 19                            | 4   |    |         |        |

**Vacant**  
Commerce  
Economic Development  
Shipping