

# WASHINGTON COASTAL MARINE ADVISORY COUNCIL MEETING

Wednesday, April 20, 2022  
 Part 1 from 9:30 am – 11:30 am  
 Part 2 from 1:00 pm – 3:00 pm

Virtual Meeting: [Microsoft Teams Meeting instructions](#) are included at the bottom of the agenda

## AGENDA

Please try to call-in around 9:20 so that everyone can be online and ready to go by 9:30. **The meeting will start promptly at 9:30 a.m.**

Time	Agenda Item (Action items are marked with "I")	Objective (Information, Discussion, Action?)	Presenter(s)
9:30* (15 min)	<b>Welcome &amp; Introductions, Agenda Review</b> <ul style="list-style-type: none"> <li>Welcome and introductions</li> <li>Introduce the new facilitation team</li> <li>Review agenda</li> <li>Encourage public comments via chat</li> <li>Adopt summary of June and December meeting minutes</li> </ul>	<b>Information</b> <i>Reference Materials:</i> <ul style="list-style-type: none"> <li>April 2022 Agenda</li> <li>Draft June 2021 Meeting Summary</li> <li>Draft December 2021 Meeting Summary</li> </ul>	Bobbak Talebi, ECY TBD Mike Chang, Facilitator
9:45* (35 min)	<b>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> </ul>		WCMAC Members Mike Chang, Facilitator
10:20* (30 min)	<b>WCMAC Workplan Updates</b> <ul style="list-style-type: none"> <li>Format change proposal (excel)</li> <li>Workplan topic review</li> <li>Adopt workplan through June 2023</li> <li>Next steps</li> </ul>	<b>Information, Discussion</b> <i>Reference Materials:</i> <ul style="list-style-type: none"> <li>New WCMAC Workplan (Excel)</li> </ul>	Mike Chang, Facilitator Bobbak Talebi, ECY
10:50* (25 min)	<b>Resilience Recommendations</b> <ul style="list-style-type: none"> <li>Progress update on coastal resilience efforts                             <ul style="list-style-type: none"> <li>Economic</li> <li>Coastal hazards</li> </ul> </li> <li>Next steps</li> </ul>	<b>Information, Discussion</b> <i>Reference Materials:</i> <ul style="list-style-type: none"> <li><a href="#">2021 Resilience Recommendations</a></li> </ul>	Rod Fleck, Vice Chair Jackson Blalock, WSG Bobbak Talebi, ECY Gus Gates, Surfrider Russell Callender, WSG
11:15* (15 min)	<b>Public Comment #1</b>		Public/Observers Mike Chang, Facilitator
11:30*	<b>1.5-hour break</b> <b>Reconvene at 1:00 pm using same Microsoft Teams Link.</b>		
1:00* (60 min)	<b>Offshore Wind Update</b> <ul style="list-style-type: none"> <li>Update on offshore wind energy project.</li> </ul>	<b>Information, Discussion</b> <i>Reference Materials:</i> <ul style="list-style-type: none"> <li>PPT Presentation</li> <li><a href="https://tridentwinds.com/olympic-wind/">https://tridentwinds.com/olympic-wind/</a></li> </ul>	Alla Weinstein, Member BOEM Representative
2:00* (35 min)	<b>Integrated Pest Management / Shellfish</b> <ul style="list-style-type: none"> <li>Presentation(s) from Nicole Naar (WSG) and Rich Doenges (ECY)</li> <li>Discussion on the synergies between the IPM Workgroup and Ecosystem Based Management Workgroup.</li> </ul>	<b>Information</b> <i>Reference Materials:</i> <ul style="list-style-type: none"> <li>PPT Presentations</li> </ul>	Nicole Naar, WSG Rich Doenges, ECY
2:35* (20 min)	<b>Public Comment #2</b>		Public/Observers Mike Chang, Facilitator
2:55* (5 min)	<b>Closing/Next Steps</b> <ul style="list-style-type: none"> <li>Reminder of Dates and Times for Future Meetings                             <ul style="list-style-type: none"> <li>Agenda topic suggestions</li> </ul> </li> </ul>		WCMAC Members Mike Chang, Facilitator

Time	Agenda Item (Action items are marked with "I")	Objective (Information, Discussion, Action?)	Presenter(s)
	<ul style="list-style-type: none"> <li>Other issues or announcements</li> </ul>		
3:00*	Adjourn		TBD

\* All times are estimates and subject to change.

**Upcoming WCMAC Meeting**  
*Wednesday, June 15, 2022, Tentatively In-person*  
*Wednesday, September 14, 2022*  
*Wednesday, December 14, 2022*

## Microsoft Teams Meeting Instructions

**Join on your computer or mobile app**

[Click here to join the meeting](#)

**Or call in (audio only)**

[+1 206-413-7142,,787353408#](#) United States, Seattle

Phone Conference ID: 787 353 408#

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

[Learn More](#) | [Meeting options](#)

# 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 Dingle 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 Dingle, 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

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>				



# WASHINGTON COASTAL MARINE ADVISORY COUNCIL MEETING

## Draft Summary

Wednesday, December 15, 2021 | 9:30 – 11:30 am & 1:00 – 3:00 pm

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

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

<b>Highlights</b> <ul style="list-style-type: none"><li>• Updates from coastal groups, including staffing.</li><li>• Review and discussion of potential coastal resilience recommendations, European green crab population, and offshore wind projects.</li></ul> <b>Follow-up Items</b> <ul style="list-style-type: none"><li>• Casey will follow up with Governor's Office to understand whether a call will be issued for offshore wind energy in Washington.</li><li>• Bobbak will send a survey for who would like to participate and identify meeting times as well as ensure technical meetings are open for all to attend.</li></ul>	<b>Upcoming Meetings</b> <ul style="list-style-type: none"><li>• Date TBD</li></ul>
--	---

Council Members Present	
Alla Weinstein, Energy industry/Trident Wind	Gus Gates, Ocean Recreation
Ann Skelton, Pacific County MRC	Jay Carmony, State Parks
Arthur Grunbaum, Conservation	Larry Thevik, Commercial Fishing
Brian Sheldon, Shellfish Aquaculture	Mara Zimmerman, WA Coastal Salmon Partnership
Corey Niles, WDFW	Michal Rechner, DNR
Dale Beasley, Commercial Fishing	Mike Cassinelli, Recreational Fishing
David Fluharty, Educational Institution	Randy Lewis, Ports of Grays Harbor
Doug Kess, Pacific MRC	Rich Osborne, Science
Garrett Dalan, Grays Harbor MRC	Rod Fleck, North Pacific MRC
Genevra Harker-Klimes, Coastal Energy	Russell Callender, WA Sea Grant

Council Members Absent	
Crystal Dingler, Citizen	Rich Doenges, Dept. of Ecology
Paula Culbertson, Wahkiakum MRC	Russell Callender, WA Sea Grant
RD Grunbaum, Conservation	

<b>Others Present</b> (as noted on the sign-in sheet)	
Allen Pleus, WDFW	Key McMurry, PC MRC, Willapa Bay LE, CSP and CES
Bobbak Talebi, Ecology	Lauren Bauernschmidt, WDFW
Casey Dennehy, Ecology	Lee First, Twin Harbors Waterkeeper
Chris Burke, City of Tacoma	Natalie Lowell, Makah Tribe Office of Marine Affairs
Dean Dingler	Necitas Sumait
Don Schwerin	Paula Culbertson, PC Wahkaikum County MRC
Erin Page	Sara Guiltinan
Heather Hall, WDFW	Sarah Round
Henry Bell, Ecology	Shawn Humphreys, Pacific County
Ian Miller, WSG	Susan Chambers
Jackson Blalock, WSG	Susan Chambers, West Coast Seafood Processors Association
Justin Bush, WA Rec and Conservation, Invasive Species Council	Tommy Moore, NWIFC
Kate Litle, WSG	Trina Bayard
Kelly Rupp, LeadtoResults, LLC	Victoria Knorr, WDFW
Kevin Decker, WSG	

## **Welcome and Introductions**

The meeting opened with a review of the agenda. Gus Gates mentioned the meeting notes from June were not included in the materials. Rod decided it would best to table the approval of the June meeting notes to April to allow time for review and comments. Council members recognized and honored Crystal Dingler and her leadership.

## **Coastal Updates**

### MRAC Update

- Garrett Dalan and Gus Gates shared last meeting notes from June 2021
- Interest in raising awareness of ocean acidification
- Currently identifying new ways to address this challenge in WA State work with policy working group
  - Question of who is at the table and who should be included

### Wahkiakum Marine Resources Committee (MRC) Updates

- Staffing changes, in process of hiring additional staff

### Grays Harbor Marine Resources Committee (MRC) Updates

- Potential changes in WDFW's role with WCMAC
- Trying to find opportunities for a summit
- Posted a restoration coordinator position
  - Focus on MRCs and REFGs – adding additional capacity

### North Pacific Coast Marine Resources Committee (MRC) Updates

- Hiring for staff

- Doug Kess shared curiosity regarding developing a rolling science conference, including nomination of presentations and highlighting public work
- In process of scoring and ranking research efforts for highlights

#### State Parks Update

- Jay Carmony shared job openings in high level management.
- Installation of 3 tsunami sirens in partnership with Gray Harbor County
  - Passed first test

#### Ecology Update

- Rich Doenges shared Ecology workshops are tabled until Spring 2022
- Facilitator updates
- Transition to a new listserv platform. Rich reminded members to check junk mail if not receiving WCMAC notifications

#### Commercial Fishing Update

- Dale Beasley shared he will be attending the offshore wind proposal
- Crab season started off on schedule for the first time in 7-years
- Larry Thevik commented some crab fishing areas are closed in large portions of WA State

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

- In response to the [Governor's Request in 2018](#), WCMAC finalized recommendations for coastal resilience and sent to the Governor's Office
  - Recommendations:
    - [https://www.ezview.wa.gov/Portals/1962/Documents/WCMAC/WCMAC%20Resilience%20Recommendations%20to%20Gov.%20FINAL%20%2007.29.2021\\_Signed.pdf](https://www.ezview.wa.gov/Portals/1962/Documents/WCMAC/WCMAC%20Resilience%20Recommendations%20to%20Gov.%20FINAL%20%2007.29.2021_Signed.pdf)
- WCMAC invested work over 4-year period, and an emphasis on coordinated strategy for communication and outreach is necessary to see progress
- SLR Planning is currently in proposed legislation and moving forward with proposed legislation for 2022
  - Ecology has been in discussion with the Governor's Office
    - Too late for consideration of supplemental budget
  - Governor's Office and Agency leadership asked Ecology to for hazards resilience recommendation package
  - A more comprehensive update will occur during next WCMAC meeting
- ASAP Planning Process is moving forward with WSG Funding

### **European Green Crabs Update**

- Funds have been appropriated by state legislature to multiple organizations and Tribes
- Populations of green crabs are climbing, increasing dangerous population size
  - Network of co-managers and partners help with detection and response
  - Control of population is possible, but not with current capacity

Many efforts to help Lummi Nation address the 750-acre sea pond green crab problem. The sea pond has become a massive rearing habitat for green crab for population into Salish Sea.

- Average capture rate from September-November 2021: 10k crabs/week

- 500 set traps, equating to one trap per 1.5-acre
- No detection in capture rate reduction, indicating extremely high populations

Currently in reduced winter management status for 2021-2022. The action plan is outdated and requires Tribal and other members input, but there is no current plan for the coast. A proposed funding scenario for emergency measures and actions were put into a 1.3-million-dollar budget and sent to the Governor's Office on December 14, 2021 under the WDFW emergency measures statute.

- Process will start in January 2022
- Approximately 7.5 million requested from 2022 supplemental legislative funds, including funding for multiagency coordination and IAAs
- Proposed creation of competitive grant program to support local communities address aquatic invasive species

## **Offshore Wind Update**

Offshore wind is operating in Portugal and United Kingdom.

Siting:

- DOD expressed nothing can be developed inside their range
- Quinault Indian Nation expressed they do not want to develop within their U&A
- Distance to shoreline must be greater than 30-miles due to DOD flight corridors
- Alla Weinstein introduced new area being considered for development is a total of 1000 square miles, further south and further offshore than the original proposed area.

Permitting pathway:

- Still pursuing an unsolicited lease request.
  - Would result in solicitation of interest for other interested parties for application
  - Separately, the Governor could request to initiate offshore wind planning
- Regardless of competitive or non-competitive path, BOEM will conduct NEPA
  - EIS will be conducted after the developer submits construction and operation plan, which Alla Weinstein says is the same process whether competitive or non.

State coordination process:

- Intergovernmental task force:
  - Led by BOEM, nongovernmental bodies cannot be members
- A potential Governor's request to BOEM to initiate OSW planning would allow for Governor to form a state working group that could include non-governmental members. Alla is advocating for the Governor to initiate a state working group and include fishing organizations with the goal for additional participation.

Construction location:

- WAPC ports do not have capacity to build the units and there is concern regarding the height restriction of FAA
- Facilities in other parts of the West Coast likely need to be upgraded to construct the units
- Final elements of construction of the units may be possible in Puget Sound
- Maintenance and operations could be conducted from the WAPC ports

Possibility of Governor Task Force:

- Governor has not expressed interest yet
- Federal administration has opened up a call to other states, but not WA State

#### Land Siting:

- Questions and public comment were proposed about development of more wind capacity on coastal land.
  - Alla could not provide input regarding land development.

#### **Public Comment Re: Offshore Wind**

- Larry commented on WA's viable area for wind energy and its conflicts limits feasibility and amount of wind power potential. He recommended additional special meetings before making recommendations due to volume of information and data, but lack of time to digest and discuss.
- Dale suggested special sessions. Further, he stated all fisheries are connected and when one is pinched, it impacts all. More socioeconomic data is needed.
- Rich does not believe offshore wind is feasible in WA.
- Bobbak stated recommendations are ongoing and asked what WCMAC can recommend now in addressing concerns and potential issues.
  - Data updates are needed and have been delegated to Rod.
- Corey commented on intent of MSO to do forward planning to identify suitable sites. He asked what areas within Alla's identified space would be preferred?
- David F. stated that proposal has huge cost imposed by the state via unsolicited requests. He asked can estimate be developed.
- Gus asked if the WCMAC group is for WA State? He stated that adequate funding resources, including funding for costs of meetings and data, are required to help with process. In addition, leadership is required and a term limit on members needs to be figured out by Governor's Office.

#### **BOEM Presentation – Regulatory Roadmap for Offshore Wind Energy Projects**

Sarah Guiltinan and Necy Sumair presented.

#### Initiating:

- Two ways: unsolicited request or BOEM initiation in collaboration with state
- BOEM coordinates and consults with affected Tribal, state, and local and federal government agencies

#### Unsolicited lease:

- Case by case, applicant must meet specific qualifications
- BOEM may issue a request for interest (RFI) to determine if other applicants are interested in the same area, which could result in a competitive process

#### Competitive process:

- Publishes a call for information and nominations
- Consideration of many factors to determine potential areas for offshore wind energy
  - Some have thresholds
- BOEM conducts first environmental review and consultations, including site characterization and assessment

#### Non-competitive process:

- Publishes determination of no competitive interest
- Conduct environmental review and mandatory consultations
- Required consistency certificate, necessary data and information for applicable CZM agency
- BOEM may offer a non-competitive lease the applicant could accept

Whether it is competitive or non-competitive, an environmental assessment takes place. This is done prior to an issuance of a lease and the EIS occurs once project plans are submitted. Once there is a lessee for a lease term of 25-years, a site assessment is held up to five years and construction lasts approximately three years.

NEPA will conduct a first and second review involving consultation with state and federal agencies to assess the environmental effects of the proposed action. This includes biological, physical, socio-cultural considerations, data and information, public comment, studies and surveys, literature, WA MSP, PFMC, NOAA Fisheries, and data portals. Socio-economic analysis is required under NEPA and it is premature to say whether BOEM will be undertaking a planning process.

## **Marine Spatial Plan Data and Information**

Presented by Casey Dennehy in Ecology.

- The baseline data includes socioeconomics, archeological and historical, current use, recreation, fisheries, shipping, and other baselines.
  - Information is found on the MSP mapping application
  - A tutorial provided by msp.wa.gov on how to use MSP data viewer
- The plan does not identify preferred areas for new ocean uses, but does include current conditions and trends, spatial analyses, including Marxan Analysis, MSP management framework, and WCMAC MSP Policy recommendations.
- Casey will follow up with the Governor's Office to understand whether a call will be issued for offshore wind energy in WA State.

## **Public Comment**

- Bobbak commented on members not receiving communication on ECY listservs.

## **Closing/Next Steps**

For future meeting, ensure technical meetings are open for all to attend. Bobbak will send a survey for who would like to participate and identify future meeting times.

## WASHINGTON COASTAL MARINE ADVISORY COUNCIL

*c/o Washington of Ecology SEA Program PO Box 47600 Olympia WA 98504-7600*

The Honorable Jay Inslee  
Governor of Washington  
PO Box 40002  
Olympia, 98504-0002

July 29, 2021

RE: Washington Coast Marine Advisory Council 2021 Recommendations

Dear Governor Inslee:

The members of the Washington Coastal Marine Advisory Council (WCMAC) wish to thank you for your strong support for coastal Washington. We appreciate your leadership in facing coastal hazards head-on and recognizing the often-struggling coastal economies, and we appreciate the expertise and energy of state agency staff. This letter conveys WCMAC's recommendations on addressing coastal resilience.

WCMAC was created, in part, to provide recommendations to the governor and legislature on coastal resource management issues (43.143.060 RCW). In 2018, you asked us to identify high priority needs and actions to carry out the recommendations from the "Washington State Coast Resilience Assessment".<sup>1</sup>

At our June 2021 meeting, WCMAC came to consensus on a list of the most urgent and actionable evidence-based recommendations (attachment A). Our recommendations represent the culmination of a multi-year collaborative effort (attachment B). We believe this inclusive process accurately represents the many interests present on the Washington coast and provides a collective vision for supporting resilience across the region.

Our recommendations focus on building the organizational infrastructure for a sustained partnership with State agencies that will help our coastal communities address the challenging issues of the present and shape a prosperous future. Coastal erosion and flooding already cause hundreds of thousands of dollars in damage each year. Unless we begin to plan and adapt, sea-level rise and the increasing frequency of severe storms will exacerbate these hazards, causing hundreds of millions of dollars in additional damages. Ocean acidification and invasive species are unrelentingly destroying shellfish, habitat and lucrative fisheries. Families who have made their living in these industries for generations are unable to continue. Taken together, this outlook will cripple the economy of our coastal communities.

---

<sup>1</sup> William D. Ruckelshaus Center "Washington State Coastal Resilience Assessment (2017)": <https://ruckelshauscenter.wsu.edu/projects/past-projects/>

Environmentally and economically, we cannot wait to take action. Hard-pressed counties and communities have limited capacity to plan for future conditions on their own. The planning that is being done is incident-specific and lacks coordination with neighboring jurisdictions, tribes, and potential project partners. Coastal governments need the State to fund personnel to coordinate and develop long-term plans. This would help guide planning efforts, develop project proposals, test theories, and initiate funding streams. Without this support, the Washington coast will continue to lack the resilience to come back strongly from economic and environmental hazards.

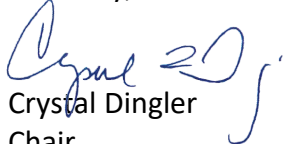
The WCMAC membership is committed to following through on these recommendations using our capacity as a group and through the organizations we represent. To accomplish our resilience goals for Coastal Washington, we ask you to consider the following requests:

- Commit to work with agencies to further detail and prioritize our recommendations.
- Consider where and how our recommendations can be advanced, including through your budget and policy actions.
- Join us for a coastal resilience briefing to disseminate our resilience recommendations with state legislatures and congressional delegates, Nation and Tribal representatives, agency leaders, and other key partners.
- Work with our State legislature and congressional delegation to implement our recommendations.

Please give your support to our voices so that our Washington coast can be resilient, thrive, and contribute strongly to the state's overall healthy economy.

Feel free to have your staff contact me at 360-581-5386 or [cdingler@osgov.com](mailto:cdingler@osgov.com).

Sincerely,



Crystal Dingler  
Chair

WA Coastal Marine Advisory Council

CC:

- Senator Reuven Carlyle, Chair, Senate Environment, Energy & Technology Committee
- Senator Liz Lovelett, Vice Chair, Senate Environment, Energy & Technology Committee
- Senator Kevin Van De Wege, Chair, Senate Agriculture, Water, Natural Resources & Parks Committee
- Senator Jesse Salomon, Vice Chair, Senate Agriculture, Water, Natural Resources & Parks Committee
- Senator Jeff Wilson, 19<sup>th</sup> Legislative District
- Representative Steve Tharinger, 24<sup>th</sup> Legislative District
- Representative Joe Fitzgibbon, Chair, House Environment & Energy Committee
- Representative Davina Duerr, Vice Chair, House Environment & Energy Committee



- Representative Mike Chapman, Chair, House Rural Development, Agricultural & Natural Resource Committee
- Representative Sharon Shewmake, Vice Chair, House Rural Development, Agricultural & Natural Resource Committee
- Representative Cindy Ryu, Chair, House Community & Economic Development
- Representative Dave Paul, Vice Chair, House Community & Economic Development
- Representative Jim Walsh, 19<sup>th</sup> Legislative District
- Representative Joel McEntire, 19<sup>th</sup> Legislative District
- US Representative Derek Kilmer, 6<sup>th</sup> District
- US Representative Jaime Herrera Beutler, 3<sup>rd</sup> District
- US Senator Maria Cantwell
- US Senator Patty Murray
- Jennifer Hennessey, Office of the Governor
- Members, Washington Coastal Marine Advisory Council
- Bobbak Talebi, Department of Ecology

## Attachment A: WCMAC Coastal Resilience Recommendations

Type	Short Name	Recommendation	Desired Outcome	Implementers
<b>Hazards</b>	<b>Establish a Coastal Hazards Organizational Resilience Team (COHORT)</b>	WCMAC recommends that the WA Legislature and the Governor create and fund a Coastal Hazards Organizational Resilience Team (COHORT). The COHORT will coordinate state and federal resources and assistance through staff located on the coast. These entities will draw from their individual network of resources and collaborate to provide strategic services to local governments, communities, and project leaders.	Provide long-term state assistance for a coast-wide resilience initiative, <sup>2</sup> including: <ul style="list-style-type: none"> <li>• Bridging coordination and collaboration with other state and federal agencies (e.g., Commerce, WDFW MRC Coordinator, USACE, etc.)</li> <li>• Developing resilience strategies</li> <li>• Facilitating regional and local partnerships</li> <li>• Exchanging knowledge</li> <li>• Assessing risk and vulnerability</li> <li>• Integrating planning</li> <li>• Developing project scopes and design</li> <li>• Coordinating grant writing and strategic investments across agency programs</li> <li>• Organizing conferences</li> <li>• Strengthening networking opportunities and access to resources through an online data and resilience hub</li> <li>• Programming educational programs</li> <li>• Providing business incubation</li> <li>• Providing job training to: <ul style="list-style-type: none"> <li>○ Increase local innovation,</li> <li>○ Support intergenerational participation in resilience initiatives, and</li> <li>○ Support emerging local leaders</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• WA Sea Grant</li> <li>• Ecology</li> <li>• WSU Extension</li> <li>• EMD</li> <li>• Commerce</li> </ul>
<b>Hazards</b>	<b>Options to increase local staffing capacity for resilience work</b>	WCMAC recommends that the WA Legislature and the Governor fund a study to develop options to increase staffing capacity in tribes, local governments, and special districts with the experience and skills to accomplish resilience objectives	Identify the most strategic and feasible options to increase and sustain local capacity to focus on coastal resilience. This includes the need for additional coastal planners, project coordinators, GIS/data specialists, and hazard mitigation coordinators who could complete risk and vulnerability assessments, planning integration, project scoping and design, and grant writing. Options to consider include: <ul style="list-style-type: none"> <li>• Regional and local partnerships/cost-sharing</li> <li>• Grants and Fellowship opportunities</li> <li>• Other funding opportunities to increase local capacity</li> </ul>	<ul style="list-style-type: none"> <li>• WCMAC/ Ecology</li> </ul>

<sup>2</sup> For more information, see: [“Options and Considerations for Implementing the Coastal Hazards Organizational Resilience Team \(COHORT\)”](#)

<b>Hazards</b>	<b>Coastal erosion technical assistance program</b>	WCMAC recommends that the WA Legislature and the Governor fund the expansion of Ecology's Coastal Monitoring & Analysis Program (CMAP).	Collect and provide coast-wide erosion data, coastal process analysis, education and outreach, and technical assistance to evaluate risk. Work with state and federal agencies, local partners, and tribes to develop comprehensive strategies and multi-benefit resilience projects.	<ul style="list-style-type: none"> <li>• Department of Ecology</li> </ul>
<b>Hazards</b>	<b>Pursue modifications to federal standards</b>	<p>WCMAC recommends that the Governor work with the WA Congressional Delegation to pursue modifications to federal standards that create significant barriers for smaller, rural, and under-resourced communities and tribes. Including:</p> <ul style="list-style-type: none"> <li>• Reducing matching requirements.</li> <li>• Providing flexibility for projects to investigate beyond the traditional benefit-cost analysis as defined in the National Economic Development Plan.</li> <li>• Allowing for advanced payments in lieu of reimbursable expenses.</li> <li>• Designating portions of existing federal funding programs specifically for smaller, rural, and under-resourced communities and tribes.</li> </ul>	Incorporate environmental justice considerations in funding programs so federal investments are equally accessible, competitive, and distributed to smaller, rural, and under-resourced coastal communities and tribes.	<ul style="list-style-type: none"> <li>• Congress</li> </ul>
<b>Hazards</b>	<b>Sea level rise planning</b>	WCMAC recommends that the WA Legislature and the Governor develop State requirements for local governments to address sea level rise and provide adequate funding, guidance, and tools for sea level rise planning	Communities plan for and have strategies in place to comprehensively address and adapt to the impacts of sea level rise	<ul style="list-style-type: none"> <li>• Commerce and Ecology</li> </ul>

<b>Hazards</b>	<b>Hazard disclosures</b>	WCMAC recommends that the WA Legislature and the Governor update disclosure requirements to require disclosure of coastal hazard risks (including erosion, sea level rise, and tsunamis) in property sales	Reduce public liability and promote coastal hazards adaptation. This would also require disclosure of whether the property has ever received disaster aid. Disclosures would rely upon updated maps and delineation of hazards zones.	<ul style="list-style-type: none"> <li>• Washington State's Real Estate Commission, in coordination with</li> <li>• Ecology,</li> <li>• Commerce,</li> <li>• DNR, and</li> <li>• Emergency Management Division</li> </ul>
<b>Economic</b>	<b>Area Sector Analysis Planning</b>	WCMAC recommends that the WA Legislature and the Governor fund Area Sector Analysis Planning (ASAP) for the Washington Coast to assist rural coastal communities in developing an economic development strategy.	Develop an economic development strategy for the WA Coast.	<ul style="list-style-type: none"> <li>• Western Rural Development Center</li> </ul>
<b>Economic</b>	<b>Coastal Conservation Corps</b>	WCMAC recommends that the WA Legislature and the Governor fund and direct the development of curricula, training and certifications for a Coastal Conservation Corps to implement a variety of restoration activities on the WA coast and build on the work and leverage existing programs from the WA Conservation Commission, Conservation Districts, and the WA Conservation Corps.	Support training and workforce development for coastal residents and youth while achieving conservation and restoration outcomes.	<ul style="list-style-type: none"> <li>• WA Conservation Commission</li> <li>• WA Conservation Corps</li> </ul>
<b>Economic</b>	<b>New Commerce FTE</b>	WCMAC recommends that the WA Legislature and the Governor create a Coastal Economic Resilience Community Outreach Specialist at the Department of Commerce to connect communities with state and federal resources, develop and organize training events, connect with educational institutions on special research projects, and implement model practices from other jurisdictions.	<p>Support from the Department of Commerce to support community and economic resilience for the WA Coast.</p> <p>This recommendation can support other multiple recommendations related to coastal hazards and economic resilience.</p>	<ul style="list-style-type: none"> <li>• Legislature</li> <li>• Governor</li> <li>• Commerce</li> </ul>
<b>Economic</b>	<b>Coastal Rural Broadband</b>	WCMAC recommends that the WA Legislature and the Governor increase broadband access and infrastructure for WA coastal communities by leveraging current regulations and federal support.	Increase internet broadband access.	<ul style="list-style-type: none"> <li>• Legislature</li> <li>• Governor</li> </ul>

<b>Economic</b>	<b>Energy supply and infrastructure assessment</b>	WCMAC recommends that the WA Legislature and the Governor fund an assessment that 1) identifies vulnerabilities for coastal communities related to their electrical power supply, particularly where there are single points of failure, and work with those communities to suggest potential solutions for restoring power quickly after a critical event (e.g., storms, landslides, earthquakes, tsunamis) and 2) identifies potential economic barriers in installing energy infrastructure for businesses and industries.	Identification of coastal power vulnerabilities and solutions.	<ul style="list-style-type: none"> <li>• State Energy Office</li> </ul>
<b>Economic</b>	<b>Burrowing shrimp</b>	WCMAC recommends that the Governor implement an emergency program to allow shellfish growers on the SW Coast to use chemical and/or mechanical control of burrowing shrimp until a pest management tool is in place that meets common agricultural parameters around damage density.	Emergency program to allow shellfish growers on the SW Coast to control burrowing shrimp and their associated impacts.	<ul style="list-style-type: none"> <li>• Governor</li> </ul>

***Recent Recommendation to the Governor:***

WCMAC sent this recommendation to the Governor on December 16, 2020. This recommendation remains a high priority for coastal economic resilience.

Economic	<b>Green Crab</b>	We ask that you and our state legislators use your authority to support the convening of a policy forum to provide policy-level advice on the management and eradication of the highly invasive European green crab in Washington.
----------	-------------------	--

## Attachment B: Timeline of Associated Events

- 2015 After a severe winter in 2015, coastal entities in Grays Harbor County, in partnership with the office of U.S. Representative Derek Kilmer’s Office and the Washington State Department of Ecology (Ecology), convened a coast-wide event focused on strengthening regional partnerships to overcome the chronic crisis of disasters caused by natural hazards.
- 2016 An alliance of local, tribal, state and federal partners formed the [Grays Harbor Resilience Coalition \(GHRC\)](#) to address both immediate and future natural hazards through collaborative research, planning, and investment in capital projects. The effort was spearheaded by Ocean Shores Mayor Crystal Dingler, with ongoing support from Ecology and U.S. Rep. Derek Kilmer. With the additional support of State Rep. Steve Tharinger, the Washington Legislature included \$200,000 in the state’s 2016-17 supplemental capital budget to support the GHRC effort. Ecology received an additional \$25,000 from FEMA to support the GHRC.
- 2017 At the beginning stages of the GHRC, staff from U.S. Rep. Kilmer’s office and Ecology contacted the William D. Ruckelshaus Center seeking independent facilitation services to meet the group’s objectives. Through a series of conversations, the Center suggested that while the GHRC may decide to continue pursuing a short-term budget request specific to Grays Harbor County, there also appears to interest in and an opportunity for multiple coastal communities to work together on a more durable coast-wide approach to hazards resilience. With support from the GHRC, Ecology and U.S. Rep. Kilmer’s office contracted with the Ruckelshaus Center to complete the “Washington State Coast Resilience Assessment.”
- 2017 The Washington Coastal Marine Advisory Council (WCMAC) invited guest speakers to member meetings to better understand the issues and existing community efforts, and began discussions to determine how to best support the growing hazards resilience initiative on the coast.
- 2017 WCMAC created a coastal resilience technical work group and asked that they prepare a working definition that aligns with the Council’s role and identify priorities to help members determine how to advance resilience goals and objectives. During the December meeting, members discussed the following items:
1. An inclusive working definition of resilience that recognizes economic well-being as critical aspect of community resilience.
  2. A prioritized list of Ruckelshaus recommendations that WCMAC could assist with implementing.
  3. A prioritized list of Ruckelshaus recommendations that WCMAC should advocate for/recommend financing or otherwise support.
- 2018 In a letter dated March 28, 2018, Governor Inslee expressed his full support for WCMAC’s desire to build on the work recently completed by the Ruckelshaus Center’s [“Washington State](#)

[Coast Resilience Assessment,](#)” and requested that WCMAC help to “identify high priority needs and actions to carry out the recommendations from the assessment regarding coastal hazards.”

- 2019 After a year of discussion and investigation, the WCMAC decided that a priority should be placed on implementing the recommendation to “Establish a Coast-Wide Resilience Initiative to Enhance and Integrate Efforts.” To best address this need, the Center’s report highlighted that there needs to be a core group of entities who would partner together as integrators, provide backbone services, and work as a team to address resilience issues coast-wide. The Center recommended the formation of a “Coastal Hazards Organizational Resilience Team” (COHORT). The COHORT effort builds on the experiences and lessons learned from past efforts, most notably the Governor-convened Southwest Coast Erosion Task Force (1999) and the Flood Hazard Reduction Projects and Agency Coordination (funded by SB 3110 in 1998). Experience gained from these previous efforts should make this effort more durable and effective. The support from and collaboration among multiple agencies; the State support for a community-led initiative; and the fact that this effort is envisioned from the outset as a long-term initiative sets it apart.
- 2019 WCMAC launched a partnership with Ecology and Washington Sea Grant that acquired grant funding from NOAA to pilot the Ruckelshaus Center’s recommendation of establishing a Coastal Hazards Organizational Resilience Team (COHORT) to enhance and integrate coast-wide resilience efforts. The 18-month (2020-2021) [Resilience Action Demonstration Project \(RAD\)](#) pilot program was a proof of concept which tested the logistics of the interagency COHORT model and identified strategies for improving and better coordinating agencies’ hazards assistance to Washington’s coastal communities by accomplishing the following:
- a. WCMAC and Ecology funded a follow-up study conducted by the Ruckelshaus Center to fully detail [“Options and Considerations for Implementing the Coastal Hazards Organizational Resilience Team \(COHORT\)”](#)
  - b. Local and regional outreach was conducted with coastal MRCs, tribes, local jurisdictions, state and county emergency managers, special districts, state and federal agency officials, and local project proponents, resulting in an inventory of hazards priorities, hurdles, and opportunities across the Pacific coast of Washington.
  - c. The pilot identified over 175 “on the shelf” projects that are ready for deployment as funding and opportunity arises.
  - d. The pilot developed a framework of resilience project principles and an assessment of hazards resilience programs to inform the scoping and development of locally-led resilience projects.
  - e. The pilot assisted three locally-led projects to scope and submit funding requests, resulting in combined \$845,000 in expected funding for hazards resilience planning and community development on the coast.
  - f. Developed findings that helped inform WCMAC in refining final recommendations to key state entities, the Governor, State Legislature, and members of the Washington Congressional Delegation.

- 2020 WCMAC acknowledged the importance of the Ruckelshaus finding that the “well-being of communities and the coastal natural environment are intimately linked; therefore, it is important to consider the intersection of economic prosperity, community health, ecology, infrastructure, and governance when considering how to improve coastal resilience.” WCMAC decided to pursue economic resilience as an additional priority. A WCMAC economic resilience workgroup was formed to begin preparing for an in-person workshop to build awareness, share knowledge and experiences, and discuss next steps for improving economic resilience on the coast. However, WCMAC had to pivot from their in-person workshop to an online webinar series due to the COVID-19 pandemic. WCMAC hosted a series of four webinars that invited key experts, presenters, stakeholders, and tribes to explore the tourism industry, forestry industry, marine/coastal industries, and economic resilience ([recorded and posted on the WCMAC website](#)). After these workshops, the WCMAC economic resilience workgroup sent out a survey to workshop participants to solicit ideas for economic resilience recommendations.
- 2021 WCMAC staff and facilitators combined hazards and economic resilience recommendations into a final draft. WCMAC convened a series of three coastal resilience technical workgroup workshops to synthesize findings, refine recommendations, and prepare a draft decision package for full member consideration on June 16, 2021.
- 2021 WCMAC reviewed and discussed the proposed recommendations and provided an opportunity for public comments. WCMAC came to a consensus on a final set of resilience recommendations (attachment A).





WindFloat Atlantic, Portugal, 2019



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

# The World Must Act Now to Address Climate Change



- **April 4 2022**, UN Intergovernmental Panel on Climate Change (IPCC) report:  
**“it's 'now or never' to limit warming”**
  - Unless efforts are accelerated to cut emissions from fossil fuels, the goal of limiting global warming by 2.7 degrees F, will likely be out of reach by the end of this decade
  - Our state and our world are seeing the effects of climate change
  - Increased carbon emissions are rapidly warming the ocean and making it more acidic
  - Mountain and polar glaciers continue melting leading to sea level rise
  - Action must be taken to limit global warming and promote ocean health

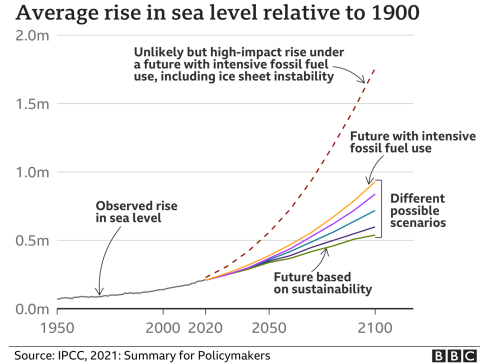
# Offshore Wind (OSW) is Happening

## Addresses Climate Change

- Offshore Wind contributes to:
  - Energy generation without CO2 emissions
  - Reducing need for fossil fuels
  - 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





## Washington Marine Spatial Plan (MSP)

### **The MSP was created to provide information and guidance for new ocean users**

- WA state agencies conducted extensive engagement with coastal communities
- WCMAC members led shaping of the plan and making recommendations
- WCMAC held 25 meetings between March 2012 and May 2017
- MSP is based on ocean data gathered over a 20-year period

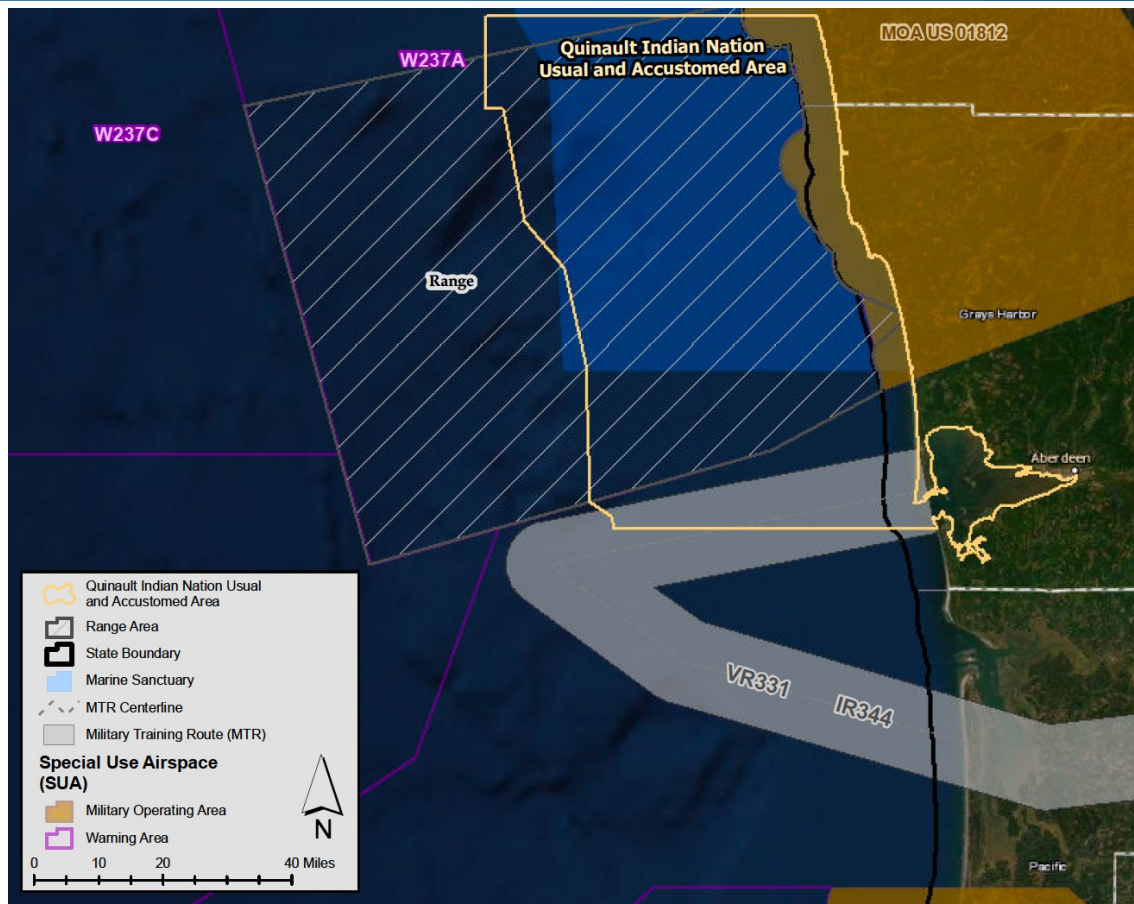
### **Plan goals/objectives:**

- Protect existing uses
- Protect cultural uses/resources
- Preserve environment
- Integrate decision-making

### **Trident Winds Unsolicited Lease Request (ULR)**

- Olympic Wind project ULR used data presented in the MSP
- Trident Winds conducting notifications as directed in the MSP – WCMDC, WDFW, PFMC

# WA Offshore Jurisdictional Constraints



OCNMS (lighter blue)

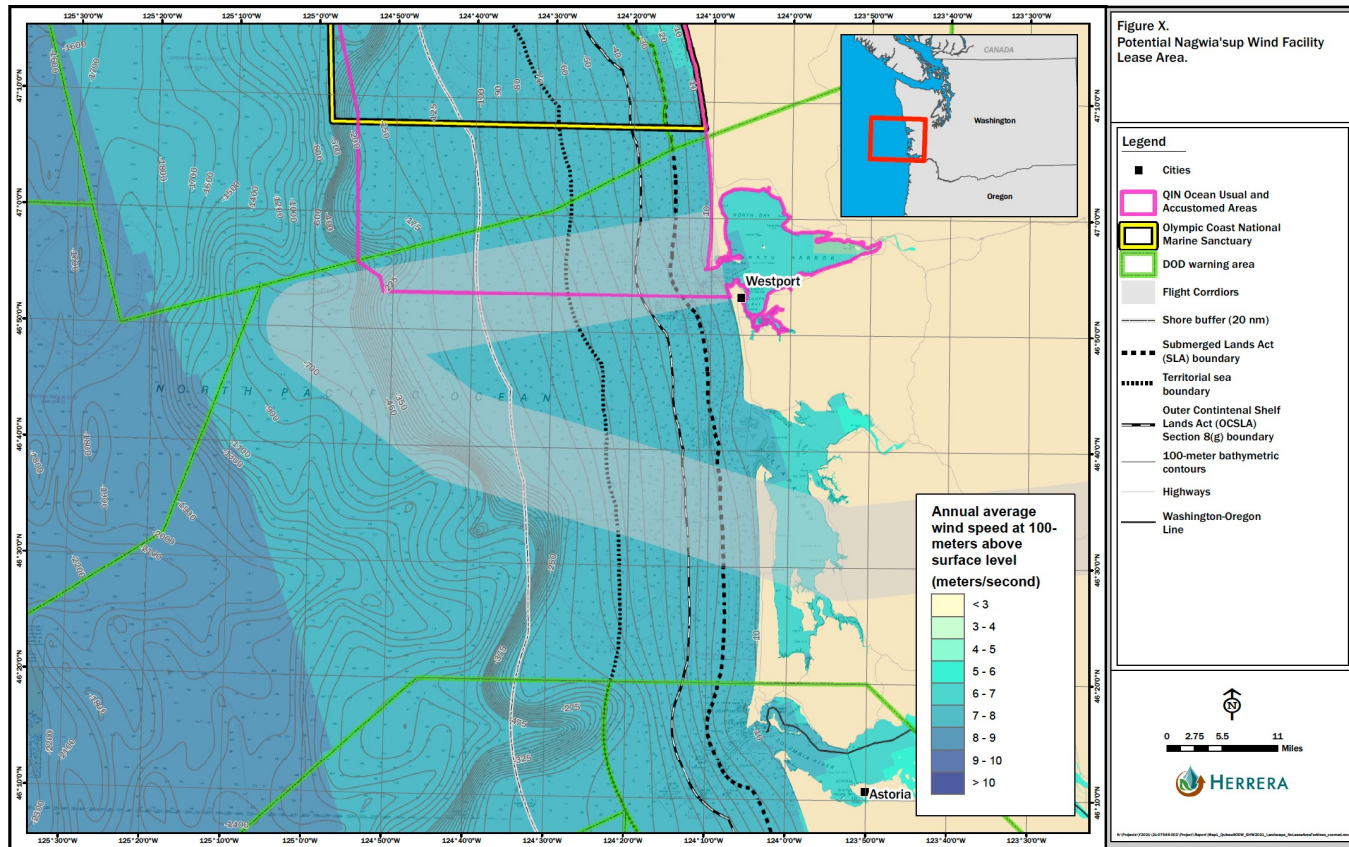
- There are no regulations on siting OSW in a sanctuary
- BOEM is not authorized to lease OCS locations in a sanctuary

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

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

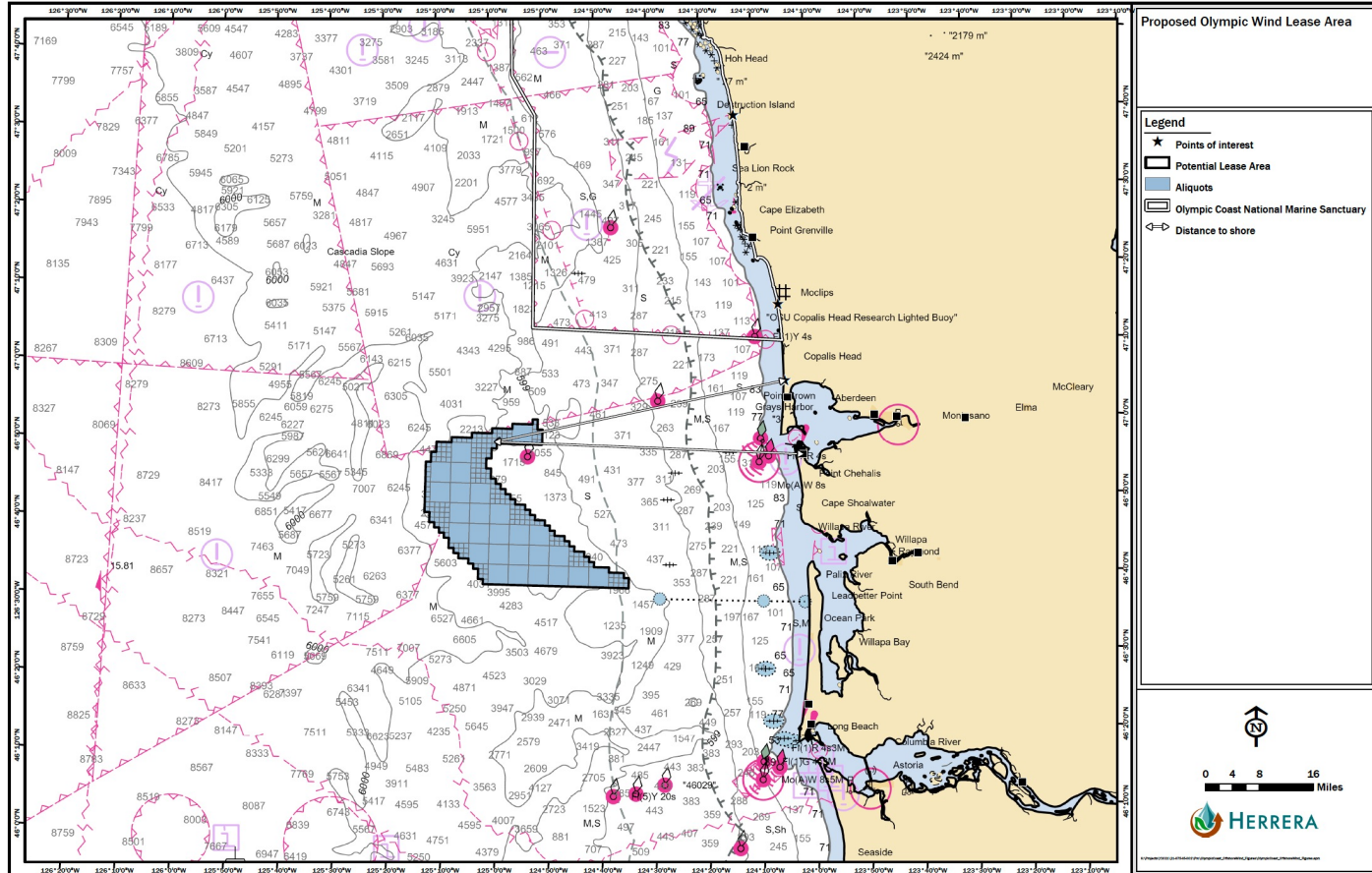


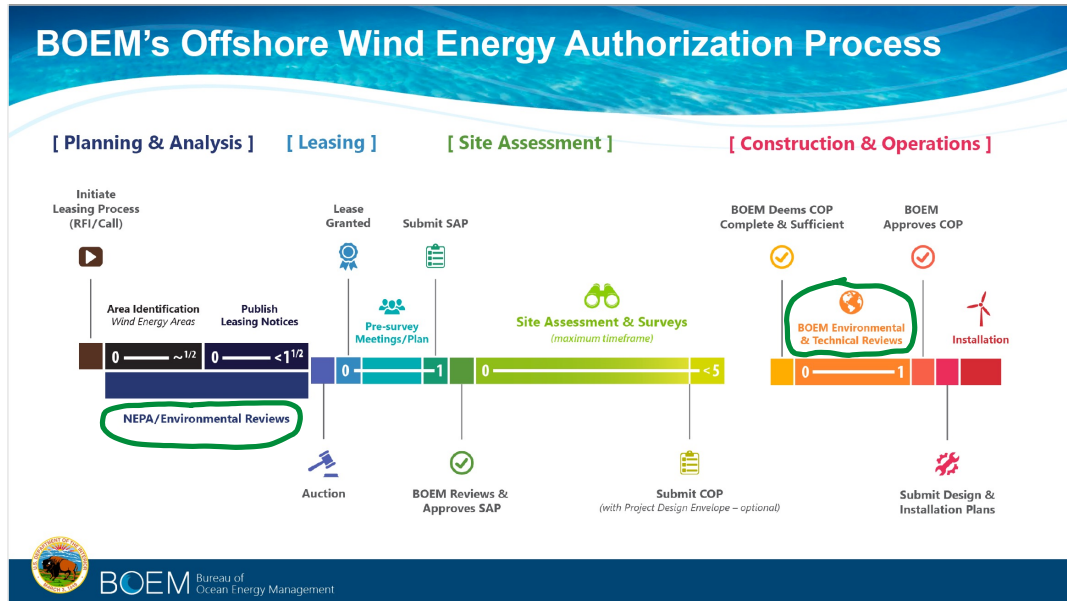
# Where Could OSW Development Occur off WA Coast?



- 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

# Unsolicited Lease Request Area





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

## State led OSW Coordination with BOEM

- Governor forms a State led Working Group that would be inclusive of all parties, like a very successful Lower Columbia Solutions Group
- Does not require formation of an Intergovernmental Task Force
- BOEM manages the Federal/State process via Interagency Coordination

## 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



Questions?

**Alla Weinstein**

Trident Winds LLC

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

206.300.7721



# Washington Coast Shellfish Aquaculture Study

## Willapa Bay-Grays Harbor Ecosystem-based Management Collaborative

Nicole Naar\*, Jackson Blalock, Kate Litle

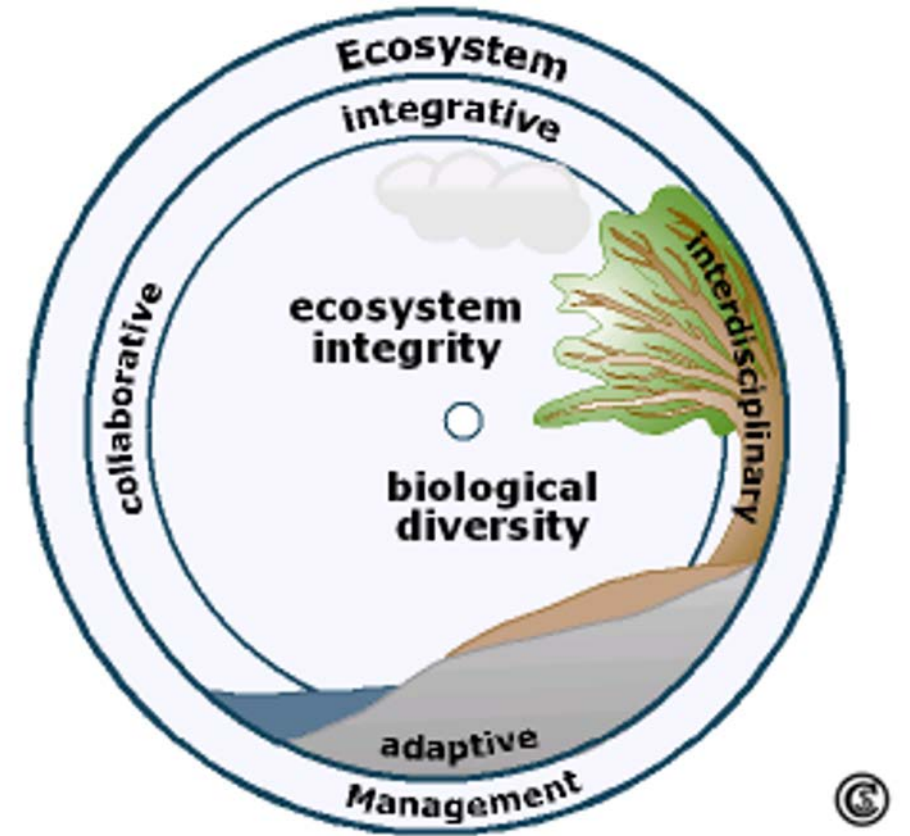
WCMAC Meeting  
April 20, 2022





# Ecosystem-based Management

- Landscape-scale
- Collaborative
- Interdisciplinary
- Adaptive management



# Why EBM here?





# Mission

- Increase resilience
- Build trust and common understandings
- EBM principles
- Sustainability



MARK NOWLIN / THE SEATTLE TIMES



# Origin: WCSAS



Working group





# WCSAS Process





# WCSAS Products

1. Draft charter
2. Science synthesis report
3. Online outreach materials
  - Aquaculture timeline  
<https://bit.ly/AQtimeline>
  - Prioritized information needs  
<https://bit.ly/wcsas-pin>

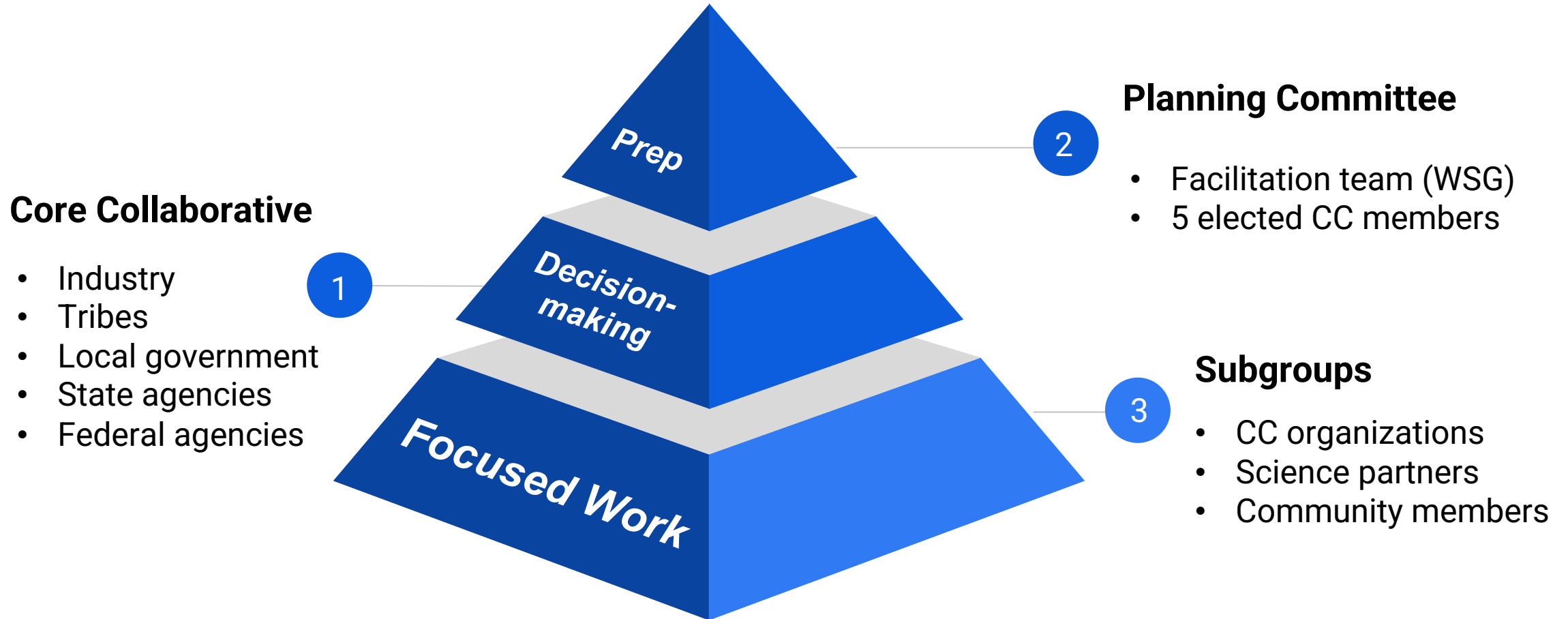


1929

SHELLFISH AND CULTIVATION

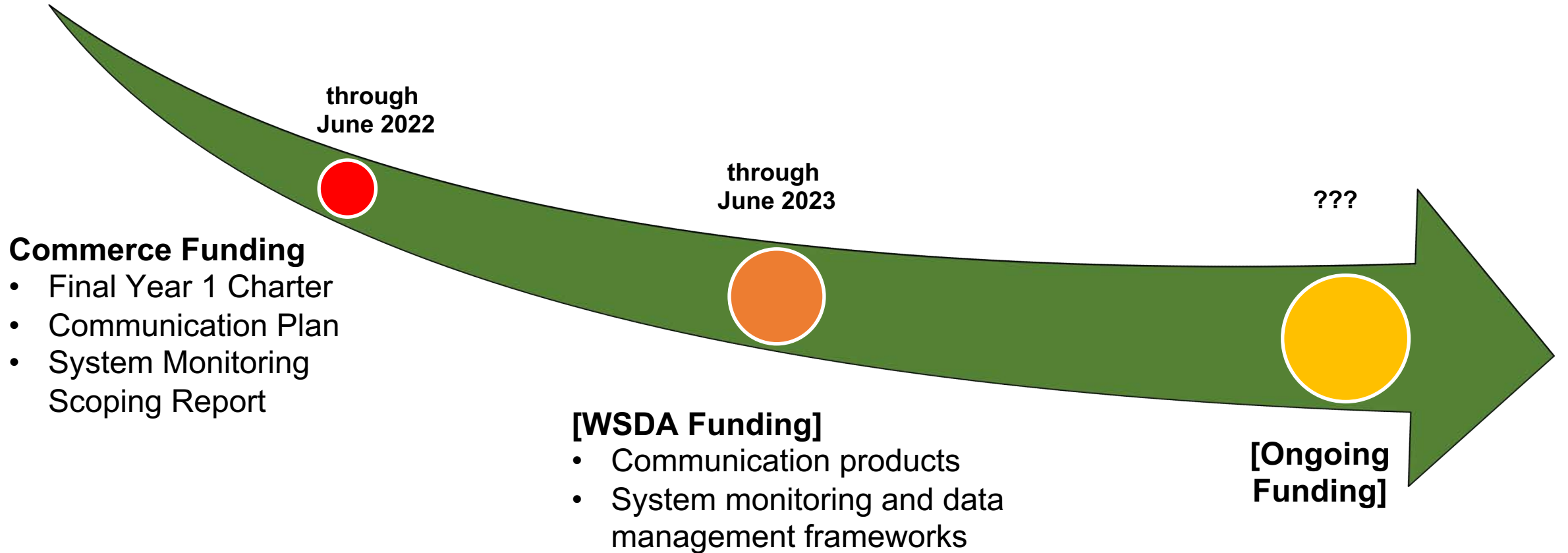
Baypoint Oyster Farms and three other growers plant *Crassostrea gigas* in Willapa (Kincaid 1968).

# Collaborative Structure





# Short-term Plan



# Long-term Vision

- Communication between managers
- Coordination across management initiatives
- Research and tools to support scenario planning and decision-making
- Education/outreach for the community and general public



# Contact Information

WCSAS Website: <https://bit.ly/wsg-wcsas>



Nicole Naar  
[nanaar@uw.edu](mailto:nanaar@uw.edu)



Jackson Blalock  
[jackbla@uw.edu](mailto:jackbla@uw.edu)



Kate Litle  
[kalitle@uw.edu](mailto:kalitle@uw.edu)

# EBM Collaborative vs. IPM Workgroup

	EBM Collaborative	IPM Workgroup
<i>Origin</i>	WA Coast Shellfish Aquaculture Study	Settlement agreement
<i>Funding</i>	State (short-term), TBD (long-term)	State (annual basis)
<i>Coordination</i>	Washington Sea Grant	ECY and WGHOGA
<i>Scale</i>	Social-ecological system	Shellfish farms
<i>Time horizon</i>	Long-term	Short-term
<i>Membership</i>	Broader	More targeted
<i>Goal</i>	<b>System resilience, stakeholder relationships</b>	<b>Viable tools/techniques for burrowing shrimp control</b>