

## Appendices

### Appendix A Summary of OPWG Recommendations

Draft Recommendation	Who implements?
<p>SUSTAINABLE FISHERIES</p> <p>Recommendation 1-1 <i>Support groundfish management on a regional level, which could have a smaller geographic scope than West Coast-wide, by: 1) collaborating to increase data collection and analysis and 2) encouraging the Pacific Fishery Management Council to incorporate regional differences into fisheries management on the West Coast.</i></p>	WDFW
<p>Recommendation 1-2 <i>Collaborate on benthic habitat research efforts, including nearshore and shelf habitat characterization and mapping.</i></p>	WDFW
<p>AQUACULTURE</p> <p>Recommendation 1-3 <i>Organize a stakeholder process on all issues of finfish aquaculture through the William D. Ruckelshaus Center or other appropriate consensus facilitator.</i></p>	Gov.
<p>Recommendation 1-4 <i>Continue to pursue state agency, legislative, and public input in order to provide clear state input on the development of national aquaculture policy, such as the National Offshore Aquaculture Bill.</i></p>	Team
<p>Recommendation 1-5 <i>The state, tribes, and academia should pursue increased research on the potential physical and socioeconomic effects of marine fish enhancement and finfish aquaculture.</i></p>	Team coordinates

<p>ECOSYSTEM-BASED MANAGEMENT</p> <p>Recommendation 1-6  <i>Assess coastal and ocean resources and trends to facilitate an ecosystem-based approach in management of ocean and coastal resources. Develop performance measures and key indicators to evaluate progress toward ecosystem health.</i></p>	<p>Team</p>
<p>Recommendation 1-7  <i>Over the long-term, the state should continue to explore and consider using various management tools for coastal and ocean resources through a collaborative state, tribal, and federal process.</i></p>	<p>Team</p>
<p>OCEAN ENERGY</p> <p>Recommendation 1-8  <i>The state should support extension of the offshore oil and gas moratorium in perpetuity.</i></p>	<p>Gov.</p>
<p>Recommendation 1-9  <i>Integrate policy for marine and ocean renewable energy among state agencies. Interact with the Minerals Management Service on offshore energy issues. Evaluate potential impacts on existing uses and investigate developing comprehensive guidelines for renewable ocean energy such as through a Programmatic Environmental Impact Statement.</i></p>	<p>Team</p>
<p>Recommendation 1-10  <i>Promote only environmentally responsible marine renewable energy development and solicit further input from stakeholder groups from Washington, Oregon, and British Columbia.</i></p>	<p>Team</p>
<p>COASTAL HAZARDS</p> <p>Recommendation 2-1  <i>Increase coordination for coastal hazard planning and preparedness among state agencies including partnering with federal, tribal, and local governments to prioritize data collection, improving outreach and dissemination of resources for local communities, and strengthening communication.</i></p>	<p>Team/  Ecology  (EMD, DNR,  DOT)</p>

<p>Recommendation 2-2  <i>Enhance public education on tsunamis and other coastal hazards with additional resources from the state and federal government. NOAA's tsunami program and workshops in communities are examples of successful models for education.</i></p>	<p>Team/  Ecology  (EMD &amp;  DNR)</p>
<p>Recommendation 2-3  <i>Address gaps in hazards research and planning. Advance baseline data and research on coastal hazards conducted by state agencies. Improve technical and financial assistance provided by state agencies to coastal communities for land-use planning.</i></p>	<p>Ecology</p>
<p>Recommendation 2-4  <i>Analyze effectiveness of shoreline policies, regulations, and education at reducing hazard risks.</i></p>	<p>Ecology</p>
<p>Recommendation 2-5  <i>The federal government should adjust coastal hazard programs to reduce hazard risk such as reducing incentives, improving coordination, and modernizing flood mapping.</i></p>	<p>Gov.</p>
<p>Recommendation 2-6  <i>The state should evaluate current programs and take actions needed to reduce impacts of coastal hazards including: prioritizing grant applications for projects that provide flood mitigation, conducting workshops on "No Adverse" impact, and considering changes to state guidelines and laws.</i></p>	<p>Team</p>
<p>Recommendation 2-7  <i>Fix aging and critical infrastructure on outer coast through additional resources for Washington State Department of Transportation (WSDOT) bridge retrofit program.</i></p>	<p>WSDOT</p>
<p>Recommendation 2-8  <i>Encourage the state and federal government to complete the All Hazards Alert Broadcast network for Washington's outer coast and straits. This network will warn of a hazard event and enable a timely response.</i></p>	<p>Gov.</p>

<p><b>EROSION &amp; SEDIMENT MANAGEMENT</b></p> <p><b>Recommendation 2-9</b>  <i>The state should adopt the following goals and principles on erosion and sediment management:</i></p> <ol style="list-style-type: none"> <li>1) Require beneficial use of dredged materials where appropriate to deal with chronic erosion.</li> <li>2) Minimize impacts to navigation and other marine resources.</li> <li>3) Enforce permit conditions set out for projects.</li> <li>4) Use a regional approach in order to increase efficiency and effectiveness of sediment management.</li> <li>5) Use best available science on coastal sediment processes as a key component for management and planning.</li> </ol>	<p>Team</p>
<p><b>Recommendation 2-10</b>  <i>Through the Governor's office, the state should actively participate in and represent the state's interests in the Lower Columbia Solutions Group.</i></p>	<p>Gov.</p>
<p><b>Recommendation 2-11</b>  <i>Provide dedicated resources to participate in and represent the state's interests in regional sediment management and permitting issues through the Department of Ecology. Tasks should include:</i></p> <ol style="list-style-type: none"> <li>a) Assisting in developing dredge disposal sites that keep sediment in the littoral drift cell.</li> <li>b) Engaging the Army Corps of Engineers in achieving the U.S. Commission on Ocean Policy's recommendations on improving regional sediment management.</li> </ol>	<p>Ecology</p>
<p><b>Recommendation 2-12</b>  <i>Conduct long-term sediment and erosion monitoring and support the Department of Ecology's Coastal Monitoring and Analysis Program.</i></p>	<p>Ecology</p>
<p><b>Recommendation 2-13</b>  <i>Provide independent analysis of sediment transport modeling tools as called for by the U.S. Commission on Ocean Policy.</i></p>	<p>Ecology</p>

<p>Recommendation 2-14  <i>The state should engage the US Army Corps of Engineers to provide resources to maintain navigability of smaller ports and related infrastructure in coastal communities.</i></p>	Team
<p>CLIMATE CHANGE</p> <p>Recommendation 2-15  <i>Improve state climate change coordination by elevating a lead agency or individual and clarifying roles and responsibilities.</i></p>	Gov.
<p>Recommendation 2-16  <i>Develop and implement effective climate change education and outreach.</i></p>	Gov.
<p>Recommendation 2-17  <i>Conduct climate research necessary to predict impacts and vulnerabilities and adapt resource planning, mitigation, and management.</i></p>	Gov.
<p>Recommendation 2-18  <i>Continue addressing the threat of climate change by promoting development of renewable energy sources, including offshore sources such as wave and wind energy; reducing greenhouse emissions; improving energy efficiency; and increasing regional alternative transportation.</i></p>	Gov.
<p>MARINE DEBRIS – DERELICT FISHING GEAR</p> <p>Recommendation 3-1  <i>Establish a statewide program approach to identifying and removing derelict fishing gear.</i></p>	Team
<p>Recommendation 3-2  <i>The Northwest Straits Commission and DNR's dive team should provide derelict fishing gear removal training and resources to local communities on the outer coast.</i></p>	NW Straits/DNR
<p>Recommendation 3-3  <i>WDFW should supply targeted education to recreational and commercial fishers regarding derelict fishing gear reporting and prevention.</i></p>	WDFW

<p>Recommendation 3-4 <i>DNR should re-examine the marine plastics program and provide recommendations on potential dedicated funding sources.</i></p>	DNR
<p>OIL SPILLS</p> <p>Recommendation 3-5 <i>The Oil Spills Advisory Council (OSAC) should continue its process and detailed work on improving the state's oil spill prevention, preparedness, and response.</i></p>	OSAC
<p>Recommendation 3-6 <i>Maintain a year-round response and rescue tug at Neah Bay.</i></p>	OSAC
<p>Recommendation 3-7 <i>Eliminate the backlog of commercial vessels identified by DNR's Derelict Vessel Program.</i></p>	OSAC/DNR
<p>OCEAN RESEARCH AND OBSERVING</p> <p>Recommendation 4-1 <i>Develop an ocean research, monitoring, and observing summary report and strategic plan which summarizes current and prioritizes future research, monitoring, and observing efforts.</i></p>	Team
<p>4-1A Conduct an ocean research, monitoring, and observing conference to prioritize, plan, and coordinate future Washington's observing, monitoring, and research needs.</p>	Team
<p>4-1B Collaborate with other West Coast states, Olympic National Marine Sanctuary, tribes, local governments, and Sea Grant on strategic research planning work.</p>	Team
<p>4-1C Report on the status of Washington's observing systems and explore potential for federal partnership for long-term ocean observations.</p>	Team
<p>4-1D Identify key biodiversity and ocean ecosystem health indicators. Monitor indicators and management actions over the long-term.</p>	Team
<p>4-1E Identify new scientific research and observing needs for the state's programs, policies, and planning.</p>	Team
<p>4-1F Examine the feasibility of a scientific advisory committee or similar structure for future state ocean policy efforts.</p>	Team

<p>Recommendation 4-2 <i>Collaborate with Oregon and California on ocean research, monitoring, and observing.</i></p>	Team/Gov
<p>Recommendation 4-3 <i>Pursue installation of Doppler RADAR facility on Washington's outer coast and promote placement of additional buoys and sensors on outer coast. Integrate observing networks.</i></p>	Gov.
<p>Recommendation 4-4 <i>The state should support installation and expansion of the proposed NEPTUNE cabled observatory project to improve ocean research, monitoring, and observation on the outer coast.</i></p>	Gov.
<p>OCEAN EDUCATION</p> <p>Recommendation 4-5 <i>Improve ocean literacy in Washington by developing an ocean education inventory and strategic plan.</i></p>	Team
<p>4-5A Commission a report to inventory and assess current ocean literacy efforts at all educational levels.</p>	Team
<p>4-5B Develop a statewide ten-year strategic plan to guide ocean education.</p>	Team
<p>4-5C Conduct an ocean education conference in order to facilitate assessment and strategic planning.</p>	Team
<p>4-5D Identify links between coastal community education opportunities and socioeconomic needs that may benefit local communities.</p>	Team
<p>Recommendation 4-6 <i>Promote ocean education programs for coastal tribes. Reinstitute a program that encourages tribal students to attain science college degrees.</i></p>	Gov.
<p>Recommendation 4-7 <i>Identify successful public ocean education programs and provide resources to expand them around the state.</i></p>	Team
<p>Recommendation 4-8 <i>Increase public access to educational opportunities through additional interpretive centers. Identify and provide resources to build and maintain interpretive centers in coastal communities.</i></p>	Gov.

<p>SUSTAINABLE AND RESILIENT COMMUNITIES</p> <p>Land Use Planning</p> <p>Recommendation 5-1  <i>Assist coastal communities in implementing high-impact projects that significantly improve the quality of life of their citizens through creation of Community Action Teams in the Department of Community, Trade and Economic Development (CTED).</i></p>	<p>CTED</p>
<p>Recommendation 5-2  <i>Target state agency planning funds and staff resources to coordinate and assist with local planning efforts and to increase communication among planning agencies.</i></p>	<p>CTED</p>
<p>Infrastructure</p> <p>Recommendation 5-1  <i>Assist coastal communities in implementing high-impact projects that significantly improve the quality of life of their citizens through creation of Community Action Teams in the Department of Community, Trade and Economic Development (CTED).</i></p>	<p>CTED</p>
<p>Recommendation 5-3  <i>Establish funding targets for infrastructure development in and between coastal communities by appropriate state and federal agencies.</i></p>	<p>Team</p>
<p>Recommendation 5-4  <i>Connect coastal communities with infrastructure programs that are appropriate to their needs. The state should identify appropriate ways to facilitate training and assistance on infrastructure programs for coastal communities.</i></p>	<p>CTED/Team</p>
<p>Business &amp; Industry</p> <p>Recommendation 5-1  <i>Assist coastal communities in implementing high-impact projects that significantly improve the quality of life of their citizens.</i></p>	<p>CTED</p>

<p>Recommendation 5-5  <i>Enhance the strength of local businesses by expanding the cluster-based approach to economic development in coastal communities. CTED should provide short and mid-range economic development through adjusted current resources or additional resources to local communities. This includes the research needed to correctly identify existing industry clusters in the local regions.</i></p>	<p>CTED</p>
<p>Workforce development, training, &amp; education</p> <p>Recommendation 5-6  <i>Create a focused, coordinated, and targeted effort for workforce development in coastal communities with existing resources.</i></p>	<p>Team/CTED</p>
<p>Research</p> <p>Recommendation 5-7  <i>To support economic decision-making and community planning, CTED should update the economic vitality index for the coastal counties.</i></p>	<p>CTED</p>
<p>Recommendation 5-8  <i>Establish better links between economy and ocean research and education. Expand work at existing centers such as Friday Harbor Labs and Olympic Natural Resource Center and explore establishing new research centers.</i></p>	<p>Team</p>
<p>Recommendation 5-9  <i>Diversify and strengthen local coastal economies by supporting new research on emerging coastal industries for expanded or new production through entities such as CTED, state universities, and the Washington State Department of Agriculture.</i></p>	<p>CTED</p>

<p>GOVERNANCE</p> <p>Recommendation 6-1 <i>Establish the WASHINGTON INTERAGENCY OCEAN POLICY TEAM</i></p> <p>The OPWG recommends initiating a clearly defined collaborative process involving core ocean and coastal state agencies, that includes regular consultation and collaboration with federal agencies, neighboring states and provinces, tribes, local governments, ports, industry, non-profit organizations, schools, colleges and universities and interested citizens.</p>	<p>Team</p>
<p>Recommendation 6-2 <i>Provide intergovernmental collaboration within Washington State.</i></p>	<p>Gov./Team</p>
<p>Recommendation 6-3 <i>Promote and enhance relationship between State-Federal government.</i></p>	<p>Gov.</p>
<p>Recommendation 6-4 <i>Collaborate with the West Coast governments on ocean policy issues.</i></p>	<p>Gov.</p>
<p>Recommendation 6-5 <i>Review existing ocean related laws, including the Ocean Resources Management Act (ORMA), and offer recommendations for updating laws to align with contemporary ocean issues.</i></p>	<p>Team</p>
<p>Recommendation 6-6 <i>Examine the enforceable policies of Washington's Coastal Zone Management Program for purposes of federal consistency determinations. In particular, assess gaps in coverage and the feasibility of adding applicable state coastal and ocean resource laws to the Coastal Zone Management Program's enforceable policies.</i></p>	<p>Team</p>
<p>Funding</p> <p>Recommendation 6-7 <i>Review funding mechanisms and provide update on potential and recommended funding for various OPWG recommendations, as appropriate.</i></p>	<p>Team</p>