

# WASHINGTON OCEAN USES ATLAS PROJECT

## OCEAN USES MAP BOOK



### Introduction

This map book contains cartographic products derived from the Washington Ocean Uses Atlas participatory mapping workshops conducted in Port Angeles on April 15-16, 2013 (at the Clallam County Courthouse) and Aberdeen on April 18-19, 2013 (at Grays Harbor College). These participatory mapping workshops were designed to collect spatial data from regional ocean uses experts and stakeholders for a wide range of activities that occur throughout the coastal and marine waters offshore of Washington. Through facilitated discussion and hands-on digital mapping, workshop participants documented areas where uses occur, variation in use patterns and historical and/or community perspectives on how the use has evolved over recent years.

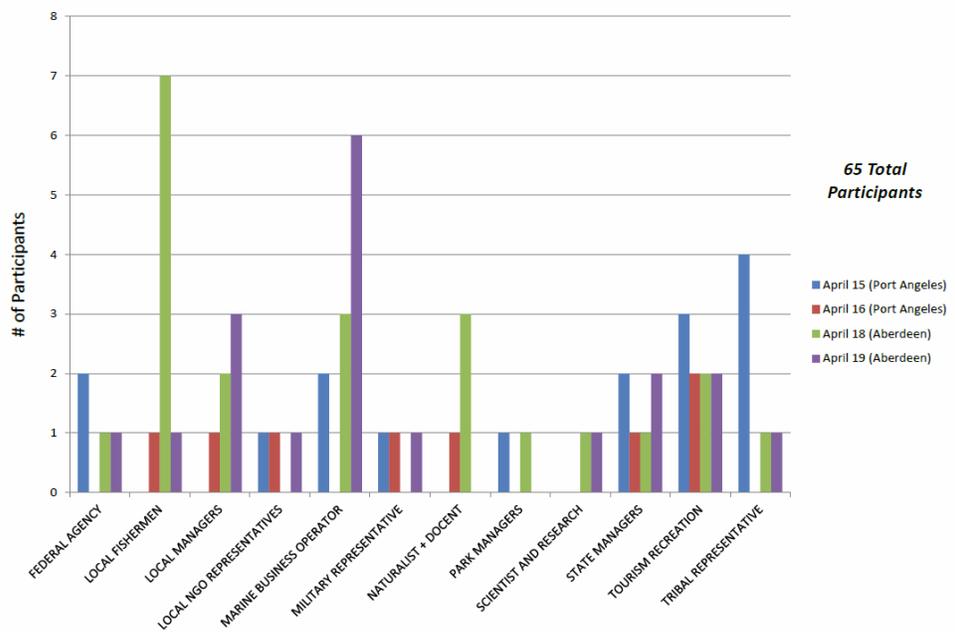
The Washington Ocean Uses Atlas project is a collaborative effort between NOAA, the Bureau of Ocean Energy Management, and Washington state agencies designed to collect spatial data on ocean uses throughout Washington's coastal and offshore waters to inform the state's marine spatial planning process and planning for potential offshore renewable energy development. The project was funded by the U.S. Department of the Interior, Bureau of Ocean Energy Management, through an Interagency Agreement with the U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Ocean Service.

### Workshop Attendance

The four days of participatory mapping workshops were facilitated by 7 staff from both NOAA Coastal Services Center and NOAA's Marine Protected Areas Center.

In total over the 4 days, 65 participants attended from throughout the state, representing all use sectors, including tribal representatives from the Makah Tribe, Quileute Nation and Quinault Indian Nation. The participants spanned a wide range of expertise, as shown on the adjacent plot.

### Expert Representation



## Targeted Uses

Industry/Military Sector	Extractive Sector	Non-Extractive Sector
<ul style="list-style-type: none"> <li>• Commercial Shipping</li> <li>• Mariculture</li> <li>• Marine Debris</li> <li>• Military Operations</li> <li>• Mining and Mineral Extraction</li> <li>• Ocean Dumping</li> <li>• Renewable Energy</li> <li>• Underwater Transmission Cables</li> <li>• Underwater Pipelines</li> </ul>	<ul style="list-style-type: none"> <li>• Commercial Dive Fishing</li> <li>• Commercial Fishing with Benthic Mobile &amp; Fixed Gear</li> <li>• Commercial Intertidal Harvest</li> <li>• Commercial Pelagic Fishing</li> <li>• Commercial Seaweed Harvest</li> <li>• Kayak Fishing</li> <li>• Recreational Dive Fishing</li> <li>• Recreational Fishing from Boats for Benthic &amp; Pelagic Species</li> <li>• Recreational Fishing from Shore</li> <li>• Recreational Intertidal Harvest</li> <li>• Subsistence Fishing and Harvest</li> </ul>	<ul style="list-style-type: none"> <li>• Beach Use</li> <li>• Cruise Ships</li> <li>• Cultural Use</li> <li>• Motorized Boating</li> <li>• Paddling</li> <li>• Permanent Research Areas</li> <li>• Sailing</li> <li>• SCUBA/Snorkeling</li> <li>• Surface Board Sports</li> <li>• Swimming</li> <li>• Tide Pooling</li> <li>• Wildlife Viewing at Sea</li> </ul>

The following is the list of uses that were mapped in the workshops. Maps for each of these uses are provided at various scales in this map book and include definitions for each use category.

## Generalized Workshop Process

At the start of the workshop, participants were assigned to a work group and an associated mapping station. With guidance from facilitators, participants were asked to draw use areas based on their knowledge and observation of where this type of activity is known to occur. For some uses, existing data was presented and participants were asked to review, if necessary, modify the existing data for completeness and accuracy. Each use was explicitly defined (see uses list) and participants were asked to map the general use footprint and dominant use areas, as described below. Participants were also asked to record relevant supplemental information (e.g., seasonality, social and cultural significance, historical patterns) that was compiled and added to the final use maps. The following provides detail for type of information collected for each use category:

- **General Use Footprint:** The general use footprint includes all areas in which the use is *known to occur with some regularity* (over the past 3-5 years), regardless of its frequency or intensity. The general use footprint does not include areas where the use may occur once or twice or where it might *conceivably* occur now or in the future.
- **Dominant Use Areas:** Dominant use areas are defined as *ocean areas routinely used by most users most of the time* (within the seasonal patterns for that use). Dominant use areas must be drawn within the general use footprint. Participants were asked to work together to draw dominant use areas as they occur throughout the study region.
- **Supplemental Use Data:** Participants were asked to provide supplemental information on the *ocean use information form*. For some uses, participants noted specific locations on the map where variation of the use occurs (e.g. fishing for special events, night vs. day fishing). This information was compiled and added to the use maps in the notes section.

Tribal uses of the ocean were not mapped explicitly, though tribal chairs and/or their designated representatives were formally invited by BOEM to participate in the mapping workshops. The sharing of tribal use information was dependent upon each tribe's determination of whether the mapping

workshops were an appropriate forum for sharing such information. Any tribal use information shared during the workshops was incorporated into the defined use categories. Thus, the atlas data and map products do not explicitly depict tribal use.

## Maps

Data compiled during the workshop were processed to create maps documenting the use patterns as drawn by the workshop participants. The following maps show patterns for each use mapped in the workshops and include the general use footprint and dominant use areas, as well as a compilation of the supplemental data provided by participants throughout the mapping process. In creating the use maps, note the following protocol used to create the general use footprint and dominant use areas.

The **general use footprint** includes **ALL** areas that were mapped as general use by **ANY** of the groups that mapped that particular use over the four days of workshops.

The **dominant use areas** shown on the maps include **ONLY** those areas that were mapped as dominant by a **MAJORITY** of the groups that mapped that particular use over the four days of workshops.

The maps have been reviewed by workshop participants prior to publication. Slight revisions and modifications were made to some of the draft maps based on the collective participant feedback. For access to the spatial data (including detailed metadata on processing, review and revisions) please visit the Washington Marine Spatial Planning ([www.msp.wa.gov](http://www.msp.wa.gov)) online mapping application.

## Contacts

If you have questions about this project, please contact:

Mimi D'lorio  
Ocean Use Mapping Coordinator  
On detail to NOAA Coastal Services Center  
Mimi.Diorio@noaa.gov

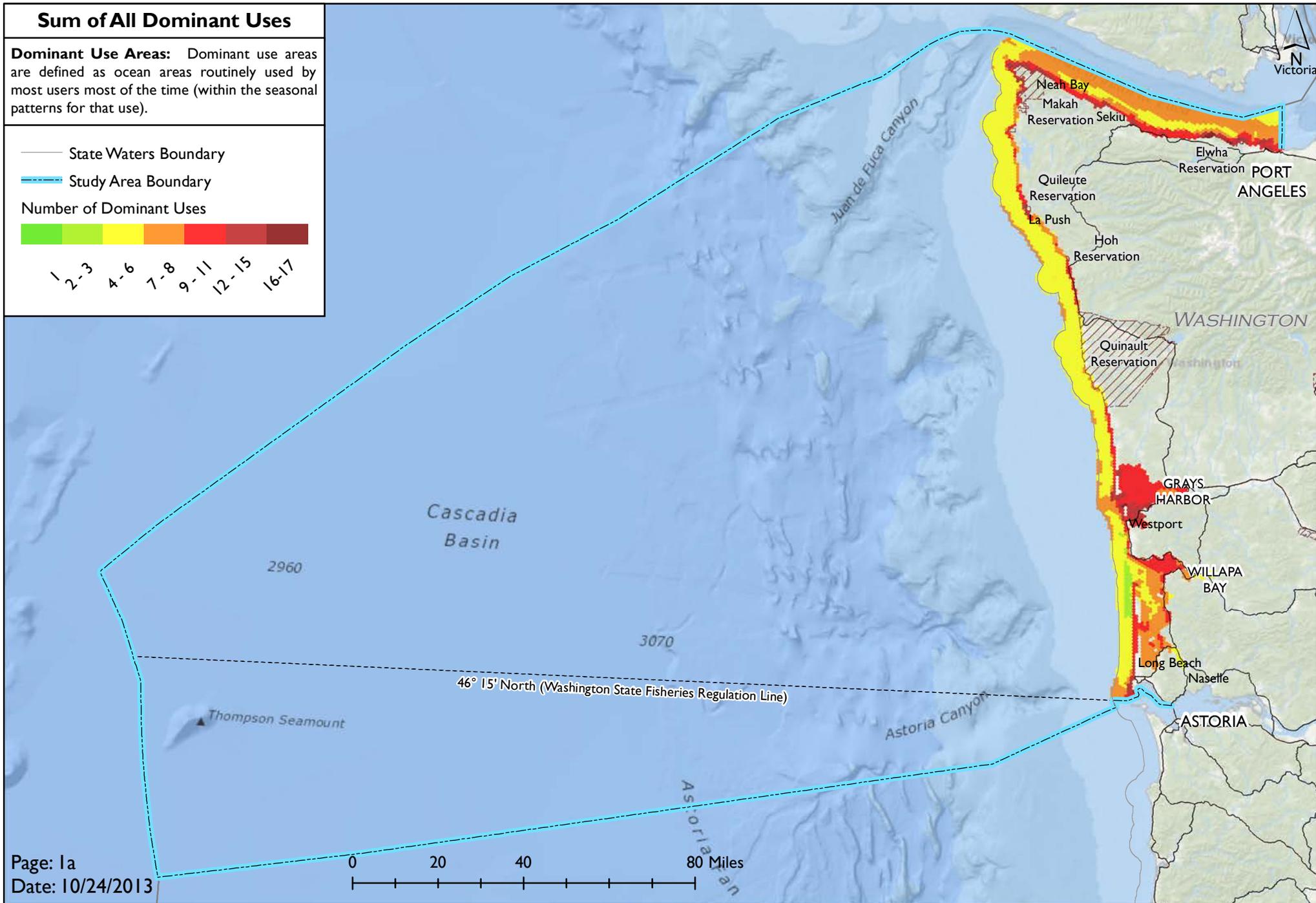
Hugo Selbie  
Pacific Regional Ocean Uses Atlas Project Coordinator  
Hugo.Selbie@noaa.gov



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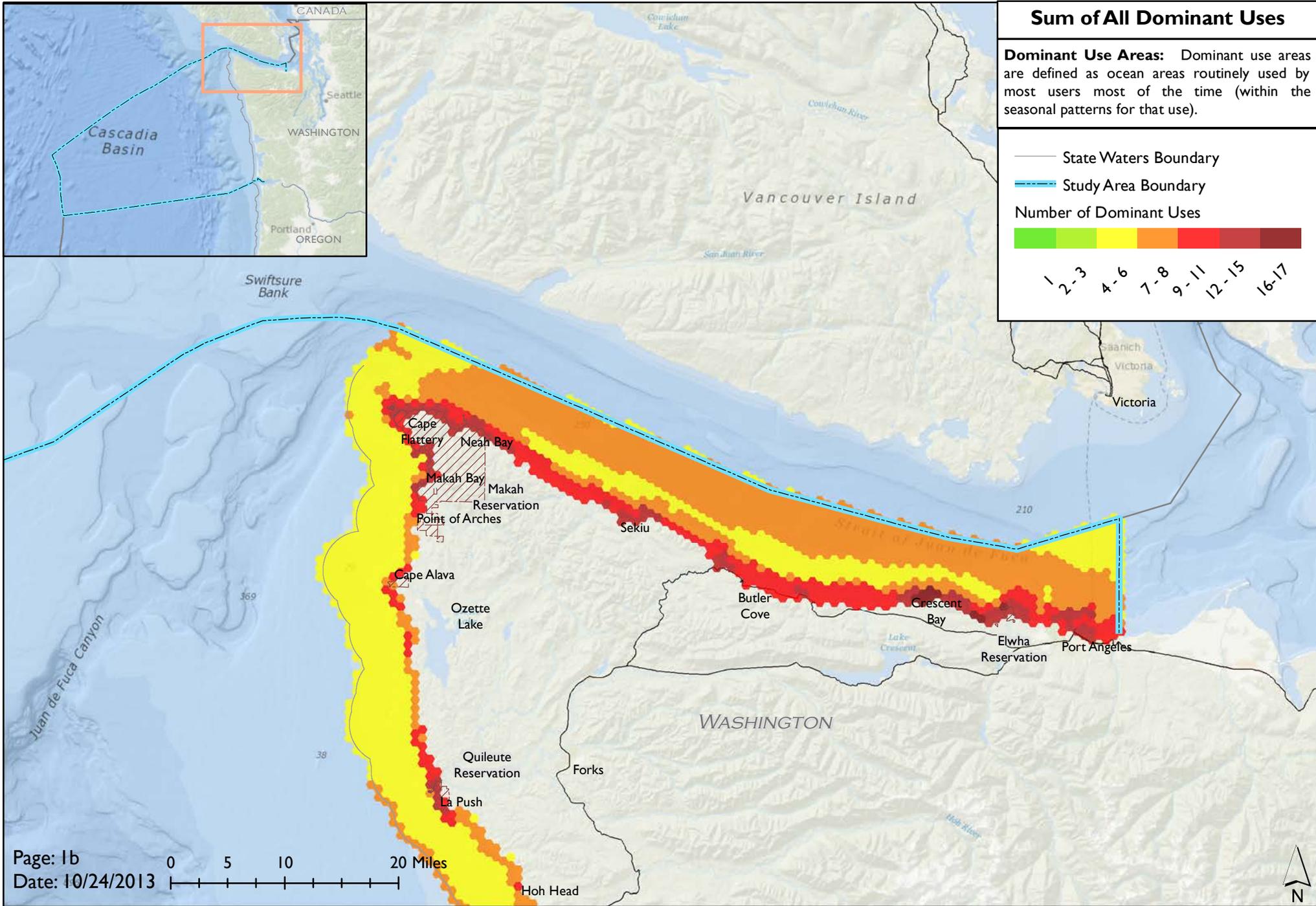
# THE WASHINGTON OCEAN USES ATLAS

Participatory ocean use mapping to inform marine spatial planning in Washington's marine waters



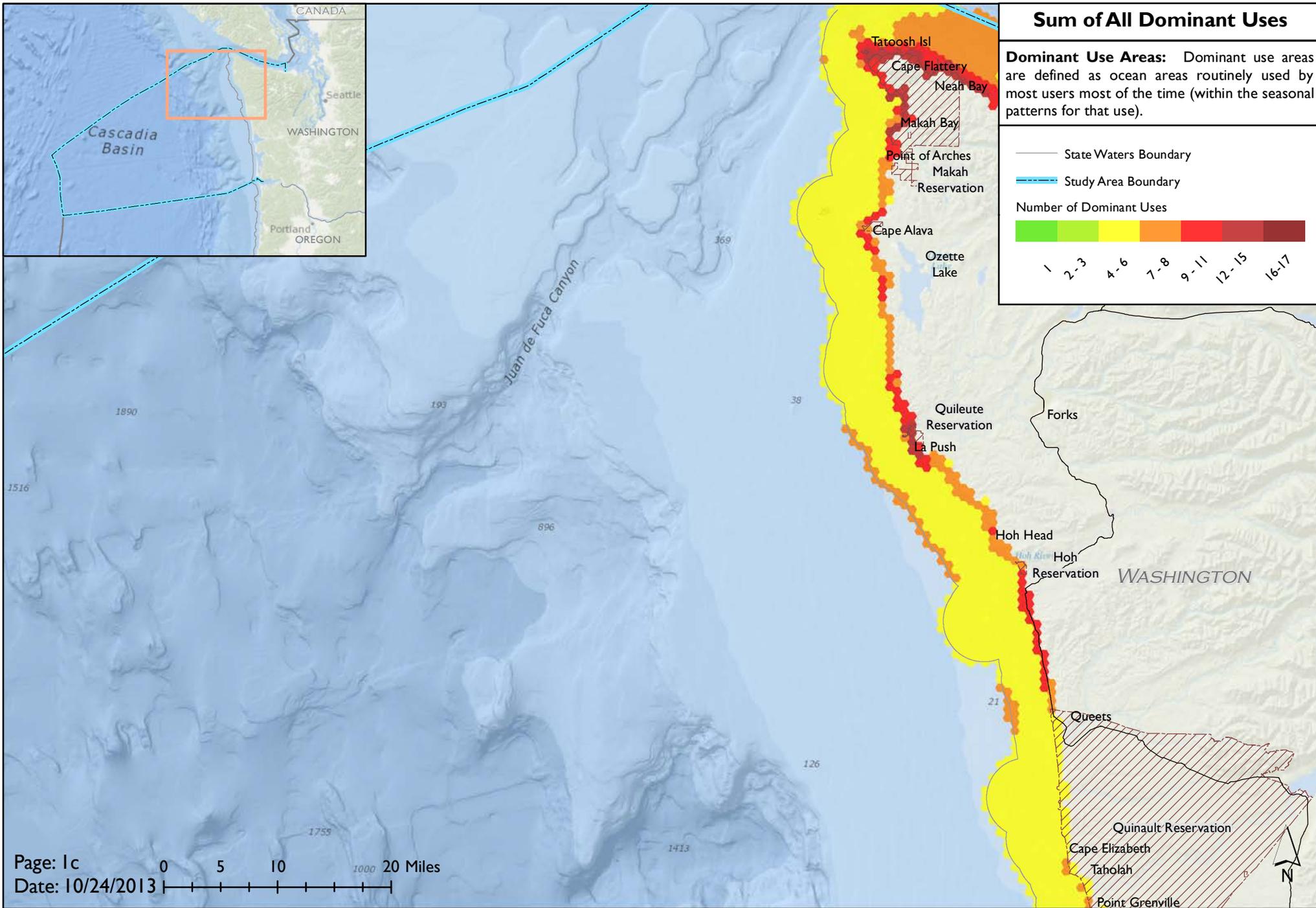
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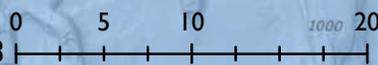
**Sum of All Dominant Uses**

**Dominant Use Areas:** Dominant use areas are defined as ocean areas routinely used by most users most of the time (within the seasonal patterns for that use).

— State Waters Boundary  
 - - - Study Area Boundary

Number of Dominant Uses

1	2-3	4-6	7-8	9-11	12-15
					16-17



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