

Ecola Pt MCA 12.19.20 Reports

Size

Name	Area (Acres)
Ecola Pt MCA 12.19.20	159.3
<i>Total</i>	<i>159.3</i>

Adjacent County

Clatsop county is adjacent to this zone.

Islands and Rocks

This zone includes 4 acres of offshore islands.

There are 131 islands included within this zone.

Substrate Types

Subtidal Substrates

Name	Area (Acres)	Area (% of zone)
Rock	85.2	53.5
Sand	64.5	40.5
<i>Total</i>	<i>149.7</i>	<i>94.0</i>

Intertidal Substrates

Name	Area (Acres)	Area (% of zone)
Unclassified	84.5	53.1
Fine Unconsolidated Substrate	29.1	18.3
Rock Substrate	7.8	4.9
Boulder	2.8	1.7
Coarse Unconsolidated Substrate	0.3	0.2
<i>Total</i>	<i>124.4</i>	<i>78.1</i>

Sea Level Rise Risk

Nearby sites have the following estimated risk from sea level rise (slr) of 0.5, 1.0, and 1.5 meters:

Name	SLR 0.5m	SLR 1.0m	SLR 1.5m
Ecola Point	Low	Low	None
Indian Beach	Low	Low	Moderate

Ranges for Estimated SLR Risk Levels:

- Increase or Less than 10% Loss (Minor)
- 11-29% Loss (Low)
- 30-49% Loss (Moderate)
- More than 50% Loss (High)

Key Species Present

Name
<i>Bossiella spp</i>
<i>Fucus spp</i>
<i>Kornmannia spp</i>
<i>Mazzaella cordata</i>
<i>Mazzaella splendens</i>

Three Nearest Cities

Name
Gearhart
Seaside
Cannon Beach

Shoreline

- The selected designated area touches **3.5 miles** of shoreline.

Intertidal Area

This zone includes **26** acres of intertidal area in the 0m Sea Level Rise scenario.

Average Depth

Name	Average Depth (m)	Maximum Depth (m)	Minimum Depth (m)
Ecola Pt MCA 12.19.20	1.6	-12	55

Positive values for minimum depth represents elevation above mean lower low water. Unusually high values indicate cliff edges that fall within 100m of Mean High Water.

Sea Level Rise

Sea level rise is predicted to cause the following changes in the intertidal habitat within this designated area:

Sea Level Rise Scenario	Remaining Intertidal Habitat (in Acres)*
0.5 Meters	20.0
1 Meter	15.4
1.5 Meter	10.0

*due to the fact that future intertidal areas may be above present-day MHW, this analysis is based on intertidal area contained in the unclipped site polygon.

Marine Mammal Species

Name	Species	Haulout Count
Steller sea lions	<i>Eumetopias jubatus</i>	1
Northern elephant seals	<i>Mirounga angustirostris</i>	1
California sea lions	<i>Zalophus californianus</i>	1
Pacific harbor seals	<i>Phoca vitulina</i>	1
<i>Total</i>	--	<i>4</i>

Long Term Research Species Found

Name
<i>Acrosiphonia spp</i>
<i>Aglaophenia spp</i>
<i>Ahnfeltia fastigiata</i>
<i>Ahnfeltia spp</i>

Name
<i>Mazzaella</i> spp
<i>Monostroma</i> spp
<i>Mytilus californianus</i>
<i>Neorhodomela larix</i>
<i>Nucella canaliculata</i>
<i>Nucella emarginata</i>
<i>Nucella ostrina</i>
<i>Pelvetiopsis</i> spp
<i>Phyllospadix scouleri</i>
<i>Pisaster ochraceus</i>
<i>Pollicipes polymerus</i>
<i>Saccharina sessilis</i>
<i>Strongylocentrotus purpuratus</i>
<i>Tegula funebris</i>
<i>Ulva</i> spp
<i>Total</i>
<i>No key species found</i>

Important Bird Colonies

Importance	Number of Colonies
High	8
Medium	317
Low	12
<i>Total</i>	<i>337</i>

- **High-importance** bird colonies are offshore colonies/complexes with ≥ 5,000 breeding birds, OR offshore or mainland colonies with Tufted Puffins, OR offshore colonies with Leach’s Storm Petrels or Fork-tailed Storm Petrels.
- **Medium-importance** colonies include all rocks, reefs, and islands of Oregon Islands and Three Arch Rocks NWRs with breeding seabirds that were not included in Importance level 1, OR mainland seabird breeding sites with ≥ 1,000 breeding birds.
- **Low-importance** colonies are all other colonies.

Bird Species Present

Name
Unidentified cormorant
Pelagic cormorant
Double-crested cormorant
Brandt's cormorant
Seabirds
Pigeon guillemot
Black oystercatcher
Common murre
West./glaucous-winged gull

Critical Habitats

Common Name	Species
Total	--

Kelp

X The selected designated area **does not** overlap with any observed kelp areas.

Overlap with Gray Whale Migration Pathways

X The selected designated area **does not** overlap with any Gray Whale migration pathways.

Name
<i>Ahnfeltiopsis linearis</i>
<i>Ahnfeltiopsis</i> spp
<i>Alaria marginata</i>
<i>Amphissa columbiana</i>
<i>Anthopleura artemisia</i>
<i>Anthopleura elegantissima</i>
<i>Anthopleura sola</i>
<i>Anthopleura xanthogrammica</i>
<i>Antithamnionella</i> spp
<i>Aplidium arenatum</i>
<i>Aplidium californicum</i>
<i>Aplidium propinquum</i>
<i>Aplidium solidum</i>
<i>Aplidium</i> spp
<i>Balanus crenatus</i>
<i>Balanus glandula</i>
<i>Blue green algae</i>
<i>Boringclam</i>
<i>Bossiella</i> spp
<i>Bugula</i> spp
<i>Calliarthron</i> spp
<i>Callithamnion pikeanum</i>
<i>Callothrix</i>
<i>Cancer antennarius</i>
<i>Cancer magister</i>
<i>Centroceras</i> spp
<i>Ceramium</i> spp
<i>Chthamalus dalli</i>
<i>Chthamalus fissus</i>
<i>Cladophora columbiana</i>
<i>Colonial diatom</i>
<i>Colpomenia</i> spp
<i>Constantinea simplex</i>
<i>Corallina</i> spp
<i>Corallophila</i> spp
<i>Crustose corallines</i>
<i>Cryptopleura</i> spp
<i>Cryptosiphonia woodii</i>
<i>Derbesia marina</i>
<i>Desmarestia ligulata</i>
<i>Dilsea californica</i>
<i>Dodecaceria</i> spp
<i>Edulis</i>
<i>Endarachne</i> spp
<i>Endocladia muricata</i>
<i>Erythrophyllum delesserioides</i>
<i>Farlowia</i> spp
<i>Flustrellidra corniculata</i>
<i>Fucus</i> spp
<i>Galloprovincialis</i>
<i>Gelidium coulteri</i>
<i>Grateloupia californica</i>
<i>Halichondria</i> spp
<i>Halymenia</i> spp
<i>Hemigrapsus nudus</i>
<i>Hermisenda crassicornis</i>
<i>Hildenbrandia</i> spp
<i>Hydroid</i>
<i>Hymenena</i> spp
<i>Idotea</i> spp

Ports

The three nearest ports are:

Name	Distance (Miles)
Port Of Nehalem	14
Port Of Astoria	18.9
Port Of Garibaldi	25

State Parks

The three nearest state parks are:

Name	Distance (Miles)
Ecola	0
John Yeon	0.4
Elmer Feldenheimer	0.4

NPDES Outfalls

There are 1 NPDES outfalls within 1 mile of this designated area.

Attendance at Nearby Parks

Parking lot visitor counts for nearby OPRD parking lots for the years 2016-2018:

Name	Bin	Trend	2016	2017	2018
Ecola State Park	339056	375472	355604	200,000-500,000	Increasing

Overlap with Long Term Research Areas

The selected designated area overlaps with long term research areas.

Recreational Activities

Recreational activities in or near this designated area:

Activity Name	Count
Beach going (dog walking, kite flying, jogging, etc.)	7
Photography	4
Scenic enjoyment	1
Tide pooling	8
Total	21
Watching birds and/or other marine life from shore	1

These data are the panel point results from the following studies:

- **Boating Recreational Ocean Users Study.** This group aggregated the following activities: sailing, power boating, personal water crafts, windsurfing, kite boarding, charter trips, and tow-in surfing
- **The Human-powered group in the Recreational Ocean Users Study.** This group aggregated the following activities: Kayaking, Surfing, Swimming, Scuba diving, Snorkeling and Skimboarding.
- **The Shore group of the Recreational Ocean Users Study.** This group aggregated the following activities: beach going, hang-gliding, scenic enjoyment, storm watching, biking/hiking, off-road vehicles, and photography.
- Additional **Shore group of the Recreational Ocean Users Study.** This group aggregated the following activities: bird watching, tide-pooling and whale watching.

The data were collected to create a baseline of use patterns for Oregon's recreational non-consumptive ocean users. These data include only the last trip data collected over the summer of 2010. These data were collected as part of Oregon's Territorial Sea Plan revision.

Name

Kornmannia spp

Lacuna spp

Laminaria setchellii

Laminaria sinclairii

Leathesia spp

Lirabuccinum dirum

Littorina plena

Littorina scutulata

Lottia austrodigitalis

Lottia conus

Lottia digitalis

Lottia paradigitalis

Lottia pelta

Lottia scabra

Lottia scutum

Lottia strigatella

Mastocarpus spp

Mazzaella cordata

Mazzaella parksii

Mazzaella splendens

Mazzaella spp

Melanosiphon spp

Microcladia borealis

Monostroma spp

Mytilus californianus

Mytilus trossulus

Neoptilota spp

Neorhodomela larix

Neorhodomela oregona

Nucella canaliculata

Nucella emarginata

Nucella ostrina

Ocenebra circumtexta

Odonthalia floccosa

Ophlitaspongia pennata

Osmundea spectabilis

Pagurus granosimanus

Pagurus hirsutiusculus

Pagurus samuelis

Pelvetiopsis spp

Petalonia spp

Petrocelis

Peyssonnelia spp

Phaeostrophion spp

Phyllospadix scouleri

Phyllospadix serrulatus

Phyllospadix torreyi

Pikea spp

Pisaster ochraceus

Pista spp

Plocamium oregonum

Plocamium pacificum

Plocamium violaceum

Pollicipes polymerus

Polysiphonia spp

Potamilla ocellata

Prionitis lanceolata

Prionitis linearis

Prionitis spp

Prionitis sternbergii

Name
<i>Pterosiphonia bipinnata</i>
<i>Pterosiphonia dendroidea</i>
<i>Pterosiphonia pennata</i>
<i>Ptilota spp</i>
<i>Pugettia gracilis</i>
<i>Pugettia producta</i>
<i>Pugettia richii</i>
<i>Pyropia spp</i>
<i>Ralfsiaceae</i>
<i>Saccharina sessilis</i>
<i>Schizymenia spp</i>
<i>Sculpins</i>
<i>Scytosiphon spp</i>
<i>Semibalanus cariosus</i>
<i>Silvetia compressa</i>
<i>Smallimpet</i>
<i>Smallmytilus spp</i>
<i>Strongylocentrotus purpuratus</i>
<i>Tegula funebris</i>
<i>Tiffaniella snyderiae</i>
<i>Tonicella lineata</i>
<i>Tonicella lokii</i>
<i>Tricellaria spp</i>
<i>Ulva spp</i>
<i>Total</i>