

Oregon Ocean Planning

# 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> |
| <i>Mazzaella spp</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>            | --                             | 4             |

**Long Term Research Species Found**

| Name                          |
|-------------------------------|
| <i>Acrosiphonia spp</i>       |
| <i>Aglaophenia spp</i>        |
| <i>Ahnfeltia fastigiata</i>   |
| <i>Ahnfeltia spp</i>          |
| <i>Ahnfeltiopsis linearis</i> |
| <i>Ahnfeltiopsis spp</i>      |

| Name                                 |
|--------------------------------------|
| <i>Monostroma spp</i>                |
| <i>Mytilus californianus</i>         |
| <i>Neorhodomela larix</i>            |
| <i>Nucella canaliculata</i>          |
| <i>Nucella emarginata</i>            |
| <i>Nucella ostrina</i>               |
| <i>Pelvetiopsis spp</i>              |
| <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 spp</i>                      |
| Total                                |

**Important Bird Colonies**

| Importance | Number of Colonies |
|------------|--------------------|
| High       | 8                  |
| Medium     | 317                |
| Low        | 12                 |
| Total      | 337                |

- **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.

**Ports**

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

**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                            |
|---------------------------------|
| <i>Laminaria sinclairii</i>     |
| <i>Leathesia spp</i>            |
| <i>Lirabuccinum dirum</i>       |
| <i>Littorina plena</i>          |
| <i>Littorina scutulata</i>      |
| <i>Lottia austrodigitalis</i>   |
| <i>Lottia conus</i>             |
| <i>Lottia digitalis</i>         |
| <i>Lottia paradigitalis</i>     |
| <i>Lottia pelta</i>             |
| <i>Lottia scabra</i>            |
| <i>Lottia scutum</i>            |
| <i>Lottia strigatella</i>       |
| <i>Mastocarpus spp</i>          |
| <i>Mazzaella cordata</i>        |
| <i>Mazzaella parksii</i>        |
| <i>Mazzaella splendens</i>      |
| <i>Mazzaella spp</i>            |
| <i>Melanosiphon spp</i>         |
| <i>Microcladia borealis</i>     |
| <i>Monostroma spp</i>           |
| <i>Mytilus californianus</i>    |
| <i>Mytilus trossulus</i>        |
| <i>Neoptilota spp</i>           |
| <i>Neorhodomela larix</i>       |
| <i>Neorhodomela oregona</i>     |
| <i>Nucella canaliculata</i>     |
| <i>Nucella emarginata</i>       |
| <i>Nucella ostrina</i>          |
| <i>Ocenebra circumtexta</i>     |
| <i>Odonthalia floccosa</i>      |
| <i>Ophlitaspongia pennata</i>   |
| <i>Osmundea spectabilis</i>     |
| <i>Pagurus granosimanus</i>     |
| <i>Pagurus hirsutiussculus</i>  |
| <i>Pagurus samuelis</i>         |
| <i>Pelvetiopsis spp</i>         |
| <i>Petalonia spp</i>            |
| <i>Petrocelis</i>               |
| <i>Peyssonnelia spp</i>         |
| <i>Phaeostrophion spp</i>       |
| <i>Phyllospadix scouleri</i>    |
| <i>Phyllospadix serrulatus</i>  |
| <i>Phyllospadix torreyi</i>     |
| <i>Pikeya spp</i>               |
| <i>Pisaster ochraceus</i>       |
| <i>Pista spp</i>                |
| <i>Plocamium oregonum</i>       |
| <i>Plocamium pacificum</i>      |
| <i>Plocamium violaceum</i>      |
| <i>Pollicipes polymerus</i>     |
| <i>Polysiphonia spp</i>         |
| <i>Potamilla ocellata</i>       |
| <i>Prionitis lanceolata</i>     |
| <i>Prionitis linearis</i>       |
| <i>Prionitis spp</i>            |
| <i>Prionitis sternbergii</i>    |
| <i>Pterosiphonia bipinnata</i>  |
| <i>Pterosiphonia dendroidea</i> |
| <i>Pterosiphonia pennata</i>    |
| <i>Ptilota spp</i>              |

| Name                                 |
|--------------------------------------|
| <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>                         |

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