



Data Source:
 Shoreline Type
 GeoBC Coastal Resource Shorezone Database, 2008
 Base Information
 1:20,000 GeoBC Terrain Resource Information
 Management (TRIM) Database
 1:20,000
 0 0.25 0.5 1
 Kilometers

| CC Type | CC Type |
|--|--|
| Rock Shoals - Rides characterized by a lack of clastic sediments such as gravel or sand. | Sediment Shoals - Rides have substrates that have little or no bedrock cropping out. |
| 1-Rock Platform, Wide | 21-Coastal Flat, Wide |
| 2-Rock Platform, Wide | 22-Coastal Beach |
| 3-Rock Platform, Narrow | 23-Coastal Flat or Fan |
| 4-Rock Platform, Narrow | 24-Sand and Gravel Flat or Fan, Wide |
| 5-Rock Platform, Narrow | 25-Sand and Gravel Beach |
| 6-Rock Platform, Narrow | 26-Sand and Gravel Flat or Fan, Narrow |
| 7-Rock Platform, Narrow | 27-Sand Beach, Wide |
| 8-Rock Platform, Narrow | 28-Sand Flat |
| 9-Rock Platform, Narrow | 29-Mud Flat |
| 10-Rock Platform, Narrow | 30-Sand Beach, Narrow |
| 11-Rock Platform, Narrow | 31-Ultimate |
| 12-Rock Platform, Narrow | 32-Mud Beach, Wide |
| 13-Rock Platform, Narrow | 33-Mud Beach, Wide |
| 14-Rock Platform, Narrow | 34-Mud Beach, Wide |
| 15-Rock Platform, Narrow | 35-Mud Beach, Wide |
| 16-Rock Platform, Narrow | 36-Mud Beach, Wide |
| 17-Rock Platform, Narrow | 37-Mud Beach, Wide |
| 18-Rock Platform, Narrow | 38-Mud Beach, Wide |
| 19-Rock Platform, Narrow | 39-Mud Beach, Wide |
| 20-Rock Platform, Narrow | 40-Mud Beach, Wide |

Shoreline Habitat

The Habitat Type provides a simplified picture of the "look" of the unit overall, based on the detailed biophysical attributes that have been mapped. The Habitat Type category is a summary of the observations of both the units biological and geomorphological features. Each Habitat Type has a definition that includes the typical substrate, wave exposure and biobands. For example, for the Semi-exposed, immobile substrate Habitat Type, part of the definition of that class is a certain combination of the most likely biobands and indicator species present at a bedrock shoreline with no mobile sediment present.

How is Habitat Type determined?
 Each Habitat Type has typical biological features (including both an indicator species list and typical associated biobands). To determine the Habitat Type, the biographer looks at the along-shore units as designated and described by the physical mapper, and:
 1. records the observations of the biobands in the unit and looks for indicator species,
 2. assigns a bio-wave exposure category,
 3. reviews the physical mapped information, and
 4. assigns the Habitat Type that best describes the unit.

The Habitat Type is based on the whole unit and is similar to the physical mappers use of the 'Coastal Class' category, in that the detailed cross-shore data are summarized into one attribute. The simplified category describes the features of the whole unit.

Habitat Type is a summary of the biophysical classification of the whole shore unit, based on:
 • the biobands observed,
 • the wave exposure as indicated by the bands, and
 • the substrate types in the unit.

Legend Definitions
 CC - Coastal Classification number
 VE - Exposed - Very high wave exposure, open ocean swells usually fetches >500km
 VE - Very Exposed - Extreme high wave exposure
 SE - Semi Exposed - High wave exposure, open shorelines, areas between fully exposed and more sheltered, usually fetches 50 to 500km
 P - Protected - Low wave exposure, sheltered inlets, usually fetches less than 10km
 SP - Semi Protected - Moderate wave exposure, partly sheltered, usually fetches 10-50km
 VP - Very Protected - Very low wave exposure, fetches < 1km, sheltered anchorages at heads of bays and inlets

Table MIDCOAST and NORTH COAST project area which includes BIO AREAS CC, JS and NC. The Species' wave exposure/ substrate table for Habitat Classification (HAB, OBS), for the Mid-coast BC study area, from Johnstone Strait/Central Coast Mapping Regions 5, 6 and 7.

| SUBSTRATE STABILITY MAJOR SUBSTRATE | IMMOBILE SUBSTRATES | | | | | MOBILE OR PARTIALLY MOBILE SUBSTRATES | | | | CURRENT-DOMINATED | TIDAL LAGOON |
|-------------------------------------|--|---|---|--|---|---|--|---|--|---|--------------|
| | BEFROCK | BEFROCK/BOULDER | BEFROCK/GRAVEL | BEFROCK/GRAVEL | SAND & GRAVEL | SAND & GRAVEL | SAND/MUD | SEDIMENT | BEFROCK OR SEDIMENT | | |
| COASTAL CLASSES | 1-20 | 1-23, 32, 33 | 1-23, 33 | 1-23, 33 | 24-30, 32 no SAL band | 24-30, 32 has SAL band | 24-30, 31 | 24-30 | 34 | 35 | |
| EXPOSURE | E | SE | SP | VP, F | SP | VP, P | VP, P, SP | SE, E | VP, P, SP | VP, P, SP | |
| COMMUNITY CODE (BIO OBS) | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | |
| upper | <i>Ferrocarya</i> | <i>Ferrocarya</i> <i>Enteromorpha</i> | <i>Ferrocarya</i> <i>Enteromorpha</i> | <i>Ferrocarya</i> <i>Enteromorpha</i> | <i>Ferrocarya</i> <i>Enteromorpha</i> | <i>Ferrocarya</i> <i>Enteromorpha</i> | <i>Ferrocarya</i> <i>Enteromorpha</i> | grasses & rushes <i>Salicornia</i> <i>Virginica</i> | | | |
| middle | <i>Balanus glandula</i> <i>Mytilus californianus</i> <i>Semibalanus cariosus</i> | <i>Balanus glandula</i> <i>Mytilus californianus</i> <i>Semibalanus cariosus</i> | <i>Balanus glandula</i> <i>Mytilus californianus</i> <i>Semibalanus cariosus</i> | <i>Balanus glandula</i> <i>Mytilus californianus</i> <i>Semibalanus cariosus</i> | <i>Balanus glandula</i> <i>Mytilus californianus</i> <i>Semibalanus cariosus</i> | <i>Balanus glandula</i> <i>Mytilus californianus</i> <i>Semibalanus cariosus</i> | <i>Balanus glandula</i> <i>Mytilus californianus</i> <i>Semibalanus cariosus</i> | <i>Aplysia prolifera</i> | no visible macrobiota due to sediment mobility | tidal current dominated may be a Protected wave exposure but shows an increase in wave exposure. Anomalous observed in "anomalous" for the wave energy of the site. | |
| lower | <i>Alaria 'sensu morph'</i> <i>Laminaria littoralis</i> | <i>Hydrophyllum scaberr</i> | <i>Laminaria groenlandica</i> <i>Laminaria saccharina</i> <i>Alaria 'marginata' morph</i> <i>Lithothamnion</i> | <i>Laminaria saccharina</i> | <i>Laminaria groenlandica</i> <i>Laminaria saccharina</i> <i>Alaria 'marginata' morph</i> <i>Lithothamnion</i> | <i>Laminaria groenlandica</i> <i>Laminaria saccharina</i> <i>Alaria 'marginata' morph</i> <i>Lithothamnion</i> | <i>Laminaria saccharina</i> | | | poorly water in lagoons creates narrow intertidal and a reduced water, may have associated current dominated at outflow | |
| subtidal | <i>Nereocystis luetkeana</i> | <i>Nereocystis luetkeana</i> <i>Macrocystis integrifolia</i> <i>Agavea spp</i> <i>Strongylocentrotus purpuratus</i> <i>Zostera marina</i> | <i>Nereocystis luetkeana</i> <i>Macrocystis integrifolia</i> <i>Agavea spp</i> <i>Strongylocentrotus purpuratus</i> <i>Zostera marina</i> | <i>Macrocystis integrifolia</i> <i>Agavea spp</i> | <i>Nereocystis luetkeana</i> <i>Macrocystis integrifolia</i> <i>Agavea spp</i> | <i>Macrocystis integrifolia</i> <i>Agavea spp</i> | <i>Macrocystis integrifolia</i> <i>Agavea spp</i> | | | | |

