

| 3 - Bedrock/Boulder - CC 1-23, 32, 33 - SE C | urrent Dominated |
|---|---|
| 4 - Bedrock/Gravel - CC 1-23, 33 - SP | 10 - Bedrock or Sediment - CC 34 - VP/P/SP |
| 5 - Bedrock/Gravel - CC 1-23,33 - P/VP T | idal Lagoon |
| | 11 - Bedrock or Sediment - CC 35 - VP/P/SP |
| СС Туре | CC Type |
| Rock Shore Types - characterized by a lack of clastic sediments such as gravel or sand. | Sediment Shore Types - have substrates that have little or no bedcrock cropping out |
| 1 Rock Ramp, Wide | 21 Gravel Flat, Wide |
| 2 Rock Platform Wide | 22 Gravel Beach |
| 3 Rock Cliff Narrow | 23 Gravel Flat or Fan |
| 4 Rock Ramp, Narrow | 24 Sand and Gravel Flat or Fan, Wide |
| 5 Rock Platform Narrow | 25 Sand and Gravel Beach |
| Rock and Sediment Shore Types - rock and pockets of clastic sediments | 26 Sand and Gravel Flat or Fan, Narrow |
| 6 Ramp with Gravel Beach, Wide | 27 Sand Beach, Wide |
| 7 Platform with Gravel Beach, Wide | 28 Sand Flat |
| 8 Cliff with Gravel Beach | 29 Mud Flat |
| 9 Ramp with Gravel Beach, Narrow | 30 Sand Beach, Narrow |
| 10 Platform with Gravel Beach, Narrow | 31 Estuaries |
| 11 Ramp with Sand and Gravel Beach, Wide | Man-Made Materials |
| 12 Platform with Sand and Gravel Beach, Wide | 32 Man-made, permeable |
| 13 Cliff with Sand and Gravel Beach | 33 Man-made, impermeable |
| 14 Ramp with Sand and Gravel Beach, Narrow | Current Dominated |
| 15 Platform with Sand and Gravel Beach, Narrow | 34 Channel |
| 16 Ramp with Sand Beach, Wide | 35 Tidal Lagoon |
| 17 Platform with Sand Beach, Wide | |
| 18 Cliff with Sand Beach | |
| 19 Ramp with Sand Beach, Narrow | |
| 20 Platform with Sand Beach, Narrow | |
| | |

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 biomapper 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 across-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

E - Exposed - Very high wave exposure, open ocean swellsm 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 expsoure, sheltered inlets, usually fetches less than 10km SP - Semi Protected - Moderate wave expsoure, partly sheltered, usually fetches 10-50km

VP - Very Protected - Very low wave exposure, fethces < 1km, sheltered anchorages at heads of bays and inletes

| SUBSTRATE STABILITY MAJOR SUBSTRATE | IMMOBILE SUBSTRATES | | | | MOBILE OR PARTIALLY MOBILE SUBSTRATES | | | | CURRENT- DOMI- NATED | TIDAL IAGOON |
|--|--|--|--|---|--|---|--|--|--|---|
| | BEDROCK | BEDROCK/BOULDER | BEDROCK/GRAVEL | BEDROCK/GRAVEL | SAND & GRAVEL | SAND & GRAVEL | SAND/MUD | SEDIMENT | BEDROCK OR SEDIMENT | BEDROCK 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 no SAL band | 24 - 30, 31 has SAL band | 24-30 | 34 | 35 |
| EXPOSURE (EXP BIO) | E | SE SE | SP | VP, P | SP | VP, P | VP, P, SP | SE, E | VP, P, SP | VP, P, SP |
| COMMUNITY CODE (HAB OBS) | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| upper | Verrucaria Balanus glandula | Verrucaria Enteromorpha Balanus glandula Fucus distichus | Verrucaria Enteromorpha Balanus glandula Pucus distichus | Verrucaria Enteromorpha Balanus glandula Fucus distichus | Verrucaria Enteromorpha Balanus glandula Fucus distichus | Verrucaria Enteromorpha Balanus glandula Pucus distichus | grasses & rushes Salicornia virginica Balanus glandula Fucus distichus | no visible | tidal current | Balanus glandula Fucus distichus |
| middle | Pollicipes polymerus Mytilus californianus Semibalanus carriosus | Mytilus californianus Semibalanus carriosus | Mytilus trossulus* Semibalanus carriosus Uwa/ Uwaria spp. | Mytilus trossulus * Uwa/ Uwaria spp. | Semibalanus carriosus Ulva/ Ulvaria spp. | Uwa/ Uwaria spp. | Mytilus trossulus** Ulva/ Ulvaria | macrobiota due to sediment mobility | dominated; may be a Protected wave exposure but shows an assemblage of indicator species from higher wave exposures. Assemblage observed is 'anomalous' for the wave energy of the site. | ponded water in lagoon creates narrow intertidal and a reduced biota in brackish water, may have associated current dominated at outflow |
| mid/low | Alaria 'nana' morph | Hedophyllum sessile Phyllospadix scouleri | | | | | | | | |
| lower | Lessoniopsis littoralis Lithothamnion | Alaria 'marginata' morph Lithothamnion | Laminaria groenlandica Laminaria saccharina Alaria 'marginata' morph Lithothamnion | Laminaria saccharina | Laminaria groenlandica Laminaria saccharina Alaria 'marginata' morph Lithothamnion | Laminaria saccharina | | | | |
| subtidal | Nereocystis luetkeana | Nereocystis luetkeana Macrocystis integrifolia Agarum spp. Strongylocentrotus franciscanus | Nereocystis luetkeana Macrocystis integrifolia Agarum spp. Strongylocentrotus franciscanus Zostera marina | Macrocystis integrifolia Agarum spp. Zostera marina | Nereocystis luetkeana Macrocystis integrifolia Agarum spp. Strongylocentrotus franciscanus Zostera marina | Macrocystis integrifolia Agarum spp. Zostera marina | Zostera marina | | | |

