



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 unit's biological and geomorphological features.

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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.

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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. uses the observed information and

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.

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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 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 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

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

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

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	IMMOBILE SUBSTRATES				MOBILE OR PARTIALLY MOBILE SUBSTRATES				Current-Dominated	Tidal Lagoon
Major Substrate	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	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	<i>Verrucaria</i> <i>Balanus glandula</i>	<i>Verrucaria Enteromorpha</i> <i>Balanus glandula</i>	<i>Verrucaria Enteromorpha</i> <i>Balanus glandula</i>	<i>Verrucaria Enteromorpha</i> <i>Balanus glandula</i>	<i>Verrucaria Enteromorpha</i> <i>Balanus glandula</i>	<i>Verrucaria Enteromorpha</i> <i>Balanus glandula</i>	grasses & rushes <i>Salicornia virginica</i>			
middle	<i>Pollipices polymerus</i> <i>Mytilus californianus</i>	<i>Mytilus californianus</i>	<i>Mytilus trossulus*</i>	<i>Mytilus trossulus *</i>			<i>Mytilus trossulus**</i>			<i>Balanus glandula</i> <i>Fucus distichus</i>
	<i>Semibalanus cariosus</i>	<i>Semibalanus cariosus</i>	<i>Semibalanus cariosus</i>	<i>Ulva/ Ulvaria spp.</i>	<i>Semibalanus cariosus</i>	<i>Ulva/ Ulvaria spp.</i>	<i>Ulva/ Ulvaria spp.</i>	<i>Ulva/ Ulvaria spp.</i>		
mid/low	<i>Alaria 'nana' morph</i>	<i>Hedophyllum sessile</i>								
lower	<i>Lessoniopsis littoralis</i>	<i>Laminaria groenlandica</i>	<i>Laminaria saccharina</i>	<i>Laminaria saccharina</i>	<i>Laminaria groenlandica</i>	<i>Laminaria saccharina</i>	<i>Laminaria saccharina</i>			
	<i>Alaria 'marginata' morph</i>	<i>Alaria 'marginata' morph</i>	<i>Lithothamnion</i>	<i>Lithothamnion</i>	<i>Alaria 'marginata' morph</i>	<i>Lithothamnion</i>	<i>Alaria 'marginata' morph</i>	<i>Lithothamnion</i>		
subtidal	<i>Nereocystis luetkeana</i>	<i>Nereocystis luetkeana</i>	<i>Macrocystis integrifolia</i>	<i>Macrocystis integrifolia</i>	<i>Nereocystis luetkeana</i>	<i>Macrocystis integrifolia</i>	<i>Macrocystis integrifolia</i>	<i>Agarum spp.</i>	<i>Agarum spp.</i>	
			<i>Agarum spp.</i>	<i>Agarum spp.</i>				<i>Strongylocentrotus franciscanus</i>	<i>Strongylocentrotus franciscanus</i>	

