



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.

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

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).

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 records the observations of the bibands in the unit and looks for indicator species.

- 1.□records the observations of the biobands in the unit and looks for indicator species,
- 2.□assigns a bio-(wave) exposure category,

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- 3.□reviews the physical mapped information, and
- 4.□assigns the Habitat Type that best describes the unit

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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 species share data are summarized into one attribute. The simplified category describes the features of the whole unit.

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 highbands observed

- the biobands observed,
- the wave exposure as indicated by the bands, and

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- the substrate types in the unit.

Legend Definitions

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CC - Coastal Classification number

Wave Exposure

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 500 km

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 - Medium wave exposure, sheltered inlets, usually fetches less than 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

VP - Very Protected - very low wave exposure, fetches < 1km, sheltered anchorages at heads of bays and inlets

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Habitat Classification Based on Visible Macro-Biota Assemblages for the Queen Charlotte shoreline											
SUBSTRATE STABILITY	IMMOBILE SUBSTRATES					MOBILE OR PARTIALLY MOBILE SUBSTRATES				CURRENT-DOMINATED	
	MAJOR SUBSTRATE	BEDROCK	BEDROCK	BEDROCK/BOULDER	BEDROCK/GRAVEL	BEDROCK/GRAVEL	SAND & GRAVEL	SAND & GRAVEL	ESTUARY or SAND/MUD	SEDIMENT	
COASTAL CLASSES	1-20	1-20	1-23, 32, 33	1-23, 33	1-23, 33	1-23, 33	24, 25, 26, 32	24, 25, 26, 32	27, 28, 29, 30, 31	21-30	34
EXPOSURE (EXP BIO)	VE	E	SE	SP	VP, P	SP	VP, P	VP, P, SP	SE, E	VP, P, SP	
COMMUNITY CODE (HAB OBS)	1	2	3	4	5	6	7	8	9	10	
upper	<i>Verrucaria</i>	<i>Verrucaria</i>	<i>Verrucaria Enteromorpha</i>	<i>Verrucaria Enteromorpha</i>	<i>Verrucaria Enteromorpha</i>	<i>Verrucaria Enteromorpha</i>	<i>Verrucaria Enteromorpha</i>	<i>Verrucaria Enteromorpha</i>	grasses & rushes <i>Salicornia virginica</i>		tidal current dominated; may be a protected wave exposure but shows an assemblage of indicator species from higher wave exposures.
	<i>Balanus glandula</i>	<i>Balanus glandula</i>	<i>Balanus glandula Fucus distichus</i>	<i>Balanus glandula Fucus distichus</i>	<i>Balanus glandula Fucus distichus</i>	<i>Balanus glandula Fucus distichus</i>	<i>Balanus glandula Fucus distichus</i>	<i>Balanus glandula Fucus distichus</i>	<i>Balanus glandula Fucus distichus</i>		
middle	<i>Pollipices polymerus</i> <i>Mytilus californianus</i>	<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>Mytilus trossulus</i>	<i>Mytilus trossulus</i>	<i>Mytilus trossulus</i>		
	[<i>Semibalanus carriosis</i>]	<i>Semibalanus carriosis</i>	<i>Semibalanus carriosis</i>	<i>Semibalanus carriosis</i>	<i>Ulva/ Ulvaria spp.</i>	<i>Ulva/ Ulvaria spp.</i>	<i>Ulva/ Ulvaria spp.</i>	<i>Ulva/ Ulvaria spp.</i>	<i>Ulva/ Ulvaria spp.</i>		
mid/low	[<i>Alaria 'nana' morph</i>]	<i>Alaria 'nana' morph</i>	<i>Halosaccion glandiforme Hedophyllum sessile</i>	<i>Halosaccion glandiforme</i>	<i>Halosaccion glandiforme</i>	<i>Halosaccion glandiforme</i>	<i>Halosaccion glandiforme</i>	<i>Halosaccion glandiforme</i>			no visible intertidal macrobiota due to sediment mobility
			<i>Codium fragile</i> <i>Phyllospadix scouleri</i> <i>Egregia menziesii</i>	<i>Codium fragile</i>			<i>Codium fragile</i>				
lower	<i>Lessoniopsis littoralis</i> [<i>Laminaria setchelli</i>] lush foliose coralline reds: <i>Bossellaria</i> / <i>Calliarthron</i> / <i>Corallina</i>	<i>Lessoniopsis littoralis</i> <i>Laminaria setchelli</i>	<i>Laminaria setchelli</i> <i>Laminaria groenlandica</i> diverse mixed red algae	<i>Laminaria groenlandica</i> <i>Laminaria saccharina</i>	<i>Laminaria saccharina</i>	<i>Laminaria groenlandica</i> <i>Laminaria saccharina</i> <i>Alaria 'marginata' morph</i>	<i>Laminaria saccharina</i>				Assemblage observed is 'anomalous' for the wave energy of the site.
	<i>Lithothamnion</i>	<i>Lithothamnion</i>	<i>Lithothamnion</i>	<i>Lithothamnion</i>		<i>Lithothamnion</i>					
subtidal	<i>Nereocystis luetkeana</i>	<i>Nereocystis luetkeana</i>	<i>Nereocystis luetkeana</i> <i>Macrocystis integrifolia</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>Macrocystis integrifolia</i>			

* Bolding indicates diagnostic species used to distinguish “communities”. Square brackets [] enclose species at VE AB OBS 1 which may be present but are in reduced abundance and size. Note that the absence of

