



# 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

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 habitat characteristics, such as substrate, wave exposure, and biobands.

biobands and indicator species present at a bedrock shoreline with no mobile sediment present.

How is Habitat Type determined?  
Each Habitat Type has its own unique set of characteristics that distinguish it from other habitat types.

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

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

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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

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:

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

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**Legend Definitions**  
CC - Coastal Classification number

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**Wave Exposure**  
E - Exposed - Very high wave exposure, open ocean swellsm usually fetches >500km

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VE - Very Exposed - Extreme high wave exposure

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

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

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**Table OCI/GH: Original spp/hab table from Gwaii Haanas**

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	BEDROCK OR SEDIMENT
Coastal Classes	1-20	1-20	1-23, 32, 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>	grasses & rushes <i>Salicornia virginica</i>		
	<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>		tidal current dominated; may be a protected wave exposure but shows an assemblage of indicator species
middle	<i>Pollipices polymerus</i> <i>Mytilus californianus</i> [ <i>Semibalanus cariosus</i> ]	<i>Pollipices polymerus</i> <i>Mytilus californianus</i> <i>Semibalanus cariosus</i>	<i>Mytilus californianus</i>	<i>Mytilus trossulus</i> <i>Semibalanus cariosus</i> <i>Ulva/ Ulvaria spp.</i>	<i>Mytilus trossulus</i> <i>Ulva/ Ulvaria spp.</i>	<i>Mytilus trossulus</i> <i>Semibalanus cariosus</i> <i>Ulva/ Ulvaria spp.</i>	<i>Mytilus trossulus</i> <i>Ulva/ Ulvaria spp.</i>	<i>Mytilus trossulus</i> <i>Ulva/ Ulvaria spp.</i>		no visible intertidal macrobiota due to sediment mobility
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>		Assemblage observed is 'anomalous' for the wave energy of the site.
			<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 setchellii</i> ] lush foliose coralline reds: <i>Bossiella/ Calliarthron/ Corallina</i>	<i>Lessoniopsis littoralis</i> <i>Laminaria setchellii</i> foliose coralline reds	<i>Laminaria setchellii</i> <i>Laminaria groenlandica</i> diverse mixed red algae <i>Alaria 'marginata' morph</i>	<i>Laminaria groenlandica</i> <i>Laminaria saccharina</i> <i>Alaria 'marginata' morph</i>	<i>Laminaria saccharina</i>	<i>Laminaria groenlandica</i> <i>Laminaria saccharina</i> <i>Alaria 'marginata' morph</i>	<i>Laminaria saccharina</i>			
	<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>Nereocystis luetkeana</i> <i>Macrocystis integrifolia</i>	<i>Macrocystis integrifolia</i>		

<i>Macrocystis integrifolia</i>	<i>Macrocystis integrifolia</i>	<i>Macrocystis integrifolia</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>Agarum spp.</i>
<i>Strongylocentrotus franciscanus</i>	<i>Strongylocentrotus franciscanus</i>	<i>Zostera marina</i>	<i>Zostera marina</i>	<i>Zostera marina</i>

