



**Legend**

Unit Break Points

Undefined

**Immobile Substrates**

- 1 - Bedrock - CC 1-20 - VE
- 2 - Bedrock - CC 1-20 - E
- 3 - Bedrock/Boulder - CC 1-23, 32, 33 - SE
- 4 - Bedrock/Gravel - CC 1-23, 33 - SP
- 5 - Bedrock/Gravel - CC 1-23,33 - P/VP

**Mobile/Partially Mobile Substrates**

- 6 - Sand & Gravel - CC 24-26, 32 - SP
- 7 - Sand & Gravel - CC 24-26,32 - VP/P
- 8 - Estuary or Sand/Mud - CC 27-31 - VP/P/SP
- 9 - Sediment - CC 21 - 30 - SE/E
- 10 - Bedrock or Sediment - CC 34 - VP/P/SP

**Current Dominated**

**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

N  
W  
S  
E

**CC Type**

Rock Shore Types - characterized by a lack of clastic sediments such as gravel or sand.

- 1 Black Ramp, Wide
- 2 Rock Platform, Wide
- 3 Black Cliff, Narrow
- 4 Black Ramp, Narrow
- 5 Black Platform, Narrow

**Rock and Sediment Shore Types - rock and pockets of clastic sediments**

- 6 Beach with Gravel Beach, Wide
- 7 Platform with Gravel Beach, Wide
- 8 Cliff with Gravel Beach
- 9 Beach with Gravel Beach, Narrow
- 10 Platform with Gravel Beach, Narrow
- 11 Beach with Sand and Gravel Beach, Wide
- 12 Platform with Sand and Gravel Beach, Wide
- 13 Cliff with Sand and Gravel Beach
- 14 Beach with Sand and Gravel Beach, Narrow
- 15 Platform with Sand and Gravel Beach, Narrow
- 16 Cliff with Sand Beach
- 17 Beach with Sand Beach, Wide
- 18 Cliff with Sand Beach
- 19 Beach with Sand Beach, Narrow
- 20 Platform with Sand Beach, Narrow

**Man-Made Materials**

- 21 Man-made, permeable
- 22 Man-made, impermeable
- 23 Current Dominated
- 24 Channel
- 25 Tidal Lagoon

## 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 biomapper looks at the along-shore Units as designated and described by the physical map, 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

Wave Exposure

- 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
- 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 OC/CHL Original spp/hab table from Gwaii Haanas Habitat Classification based on Visible Macro-Biota Assemblages for the Queen Charlotte shoreline										
SUBSTRATE STABILITY MAJOR SUBSTRATE COASTAL CLASSES EXPOSURE COMMUNITY CODE (4-10)	IMMOBILE SUBSTRATES					MOBILE OR PARTIALLY MOBILE SUBSTRATES				CURRENT-DOMINATED NATURAL BEDROCK OR SEDIMENT
	BEDROCK	BEDROCK	BEDROCK/BOULDER	BEDROCK/GRAVEL	BEDROCK/GRAVEL	SAND & GRAVEL	SAND & GRAVEL	ESTUARY or SAND/MUD	SEDIMENT	
	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
	VE	E	SE	SP	VP, P	SP	VP, P	VP, P, SP	SE, E	VP, P, SP
upper	1 <i>Forrecaria</i>	2 <i>Forrecaria</i>	3 <i>Forrecaria</i> <i>Entosomopsis</i> <i>Balanus glandula</i> <i>Fucus distichus</i>	4 <i>Forrecaria</i> <i>Entosomopsis</i> <i>Balanus glandula</i> <i>Fucus distichus</i>	5 <i>Forrecaria</i> <i>Entosomopsis</i> <i>Balanus glandula</i> <i>Fucus distichus</i>	6 <i>Forrecaria</i> <i>Entosomopsis</i> <i>Balanus glandula</i> <i>Fucus distichus</i>	7 <i>Forrecaria</i> <i>Entosomopsis</i> <i>Balanus glandula</i> <i>Fucus distichus</i>	8 <i>Forrecaria</i> <i>Entosomopsis</i> <i>Balanus glandula</i> <i>Fucus distichus</i>	9 <i>Forrecaria</i> <i>Entosomopsis</i> <i>Balanus glandula</i> <i>Fucus distichus</i>	10 <i>Forrecaria</i> <i>Entosomopsis</i> <i>Balanus glandula</i> <i>Fucus distichus</i>
middle	11 <i>Forrecaria</i> <i>Entosomopsis</i> <i>Balanus glandula</i> <i>Fucus distichus</i>	12 <i>Forrecaria</i> <i>Entosomopsis</i> <i>Balanus glandula</i> <i>Fucus distichus</i>	13 <i>Forrecaria</i> <i>Entosomopsis</i> <i>Balanus glandula</i> <i>Fucus distichus</i>	14 <i>Forrecaria</i> <i>Entosomopsis</i> <i>Balanus glandula</i> <i>Fucus distichus</i>	15 <i>Forrecaria</i> <i>Entosomopsis</i> <i>Balanus glandula</i> <i>Fucus distichus</i>	16 <i>Forrecaria</i> <i>Entosomopsis</i> <i>Balanus glandula</i> <i>Fucus distichus</i>	17 <i>Forrecaria</i> <i>Entosomopsis</i> <i>Balanus glandula</i> <i>Fucus distichus</i>	18 <i>Forrecaria</i> <i>Entosomopsis</i> <i>Balanus glandula</i> <i>Fucus distichus</i>	19 <i>Forrecaria</i> <i>Entosomopsis</i> <i>Balanus glandula</i> <i>Fucus distichus</i>	20 <i>Forrecaria</i> <i>Entosomopsis</i> <i>Balanus glandula</i> <i>Fucus distichus</i>
midlow	21 <i>Alaria</i> 'sensu morph'	22 <i>Alaria</i> 'sensu morph'	23 <i>Alaria</i> 'sensu morph'	24 <i>Alaria</i> 'sensu morph'	25 <i>Alaria</i> 'sensu morph'	26 <i>Alaria</i> 'sensu morph'	27 <i>Alaria</i> 'sensu morph'	28 <i>Alaria</i> 'sensu morph'	29 <i>Alaria</i> 'sensu morph'	30 <i>Alaria</i> 'sensu morph'
lower	31 <i>Laminaria</i> 'sensu morph'	32 <i>Laminaria</i> 'sensu morph'	33 <i>Laminaria</i> 'sensu morph'	34 <i>Laminaria</i> 'sensu morph'	35 <i>Laminaria</i> 'sensu morph'	36 <i>Laminaria</i> 'sensu morph'	37 <i>Laminaria</i> 'sensu morph'	38 <i>Laminaria</i> 'sensu morph'	39 <i>Laminaria</i> 'sensu morph'	40 <i>Laminaria</i> 'sensu morph'
subtidal	41 <i>Alaria</i> 'sensu morph'	42 <i>Alaria</i> 'sensu morph'	43 <i>Alaria</i> 'sensu morph'	44 <i>Alaria</i> 'sensu morph'	45 <i>Alaria</i> 'sensu morph'	46 <i>Alaria</i> 'sensu morph'	47 <i>Alaria</i> 'sensu morph'	48 <i>Alaria</i> 'sensu morph'	49 <i>Alaria</i> 'sensu morph'	50 <i>Alaria</i> 'sensu morph'

