



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/P/P

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

- 10 - Bedrock or Sediment - CC 34 - VP/P/SP

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

W N E S

CC	Type	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 bedrock 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		
6 Sand and Gravel Flat or Fan, narrow	26 Sand Beach, Wide		
7 Platform with Gravel Beach, Wide	27 Sand Flat		
8 Cliff with Gravel Beach	28 Mud Flat		
9 Beach with Gravel Beach, Narrow	29 Sand Beach, Narrow		
10 Platform with Gravel Beach, Narrow	30 Shrub		
11 Beach with Sand and Gravel Beach, Wide	31 Man-made, permeable		
12 Cliff with Sand and Gravel Beach	32 Man-made, impermeable		
13 Beach with Sand and Gravel Beach, Narrow	33 Current Dominated		
14 Platform with Sand and Gravel Beach, Narrow	34 Channel		
15 Beach with Sand Beach, Wide	35 Tidal Lagoon		
16 Cliff with Sand Beach			
17 Beach with Sand Beach, Narrow			
18 Platform with Sand Beach, Narrow			

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 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 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

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 OCICHL 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	IMMOBILE SUBSTRATES					MOBILE OR PARTIALLY MOBILE SUBSTRATES				CURRENT-DOMINATED SEDIMENT
	BEDROCK	BEDROCK	BEDROCK/BOULDER	BEDROCK/GRAVEL	BEDROCK/GRAVEL	SAND & GRAVEL	SAND & GRAVEL	ESTUARY or SAND/MUD	SEDIMENT	
EXPOSURE	VE	E	SE	SP	VP, P	SP	VP, P	VP, P, SP	SE, E	VP, P, SP
COMMUNITY CODE (VH-001)	1	2	3	4	5	6	7	8	9	10
upper	<i>Ferrucaria</i>	<i>Ferrucaria</i>	<i>Ferrucaria</i> <i>Enteromorpha</i>	<i>Ferrucaria</i> <i>Enteromorpha</i>	<i>Ferrucaria</i> <i>Enteromorpha</i>	<i>Ferrucaria</i> <i>Enteromorpha</i>	<i>Ferrucaria</i> <i>Enteromorpha</i>	<i>Ferrucaria</i> <i>Enteromorpha</i>	<i>Ferrucaria</i> <i>Enteromorpha</i>	<i>Ferrucaria</i> <i>Enteromorpha</i>
middle	<i>Balanus glandula</i> <i>Mytilus californianus</i> <i>Semibalanus cariosus</i>	<i>Balanus glandula</i> <i>Mytilus californianus</i>	<i>Balanus glandula</i> <i>Mytilus californianus</i>	<i>Balanus glandula</i> <i>Mytilus californianus</i>	<i>Balanus glandula</i> <i>Mytilus californianus</i>	<i>Balanus glandula</i> <i>Mytilus californianus</i>	<i>Balanus glandula</i> <i>Mytilus californianus</i>	<i>Balanus glandula</i> <i>Mytilus californianus</i>	<i>Balanus glandula</i> <i>Mytilus californianus</i>	<i>Balanus glandula</i> <i>Mytilus californianus</i>
midlow	<i>Alaria 'nana' morph</i>	<i>Alaria 'nana' morph</i>	<i>Alaria 'nana' morph</i>	<i>Alaria 'nana' morph</i>	<i>Alaria 'nana' morph</i>	<i>Alaria 'nana' morph</i>	<i>Alaria 'nana' morph</i>	<i>Alaria 'nana' morph</i>	<i>Alaria 'nana' morph</i>	<i>Alaria 'nana' morph</i>
lower	<i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i>	<i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i>	<i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i>	<i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i>	<i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i>	<i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i>	<i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i>	<i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i>	<i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i>	<i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i>
subtidal	<i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i>	<i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i>	<i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i>	<i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i>	<i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i>	<i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i>	<i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i>	<i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i>	<i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i>	<i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i> <i>Ulva lactuca</i>

