



- 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
  - Current Dominated**
  - 10 - Bedrock or Sediment - CC 34 - VP/P/SP

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 Sand with Gravel Beach, Wide	27 Sand Flat		
8 Cliff with Gravel Beach	28 Mud Flat		
9 Sand with Gravel Beach, Narrow	29 Sand Beach, Narrow		
10 Platform with Gravel Beach, Narrow	30 Shallow		
11 Platform 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 Platform with Sand Beach, Wide			
17 Cliff with Sand Beach			
18 Beach with Sand Beach, Narrow			
19 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 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 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 OCCHL Original spp/hab table from Gwaii Haanas Habitat Classification Based on Visible Macro-Biota Assemblages for the Queen Charlotte shoreline									
SUBSTRATE STABILITY MAJOR SUBSTRATE	IMMOBILE SUBSTRATES					MOBILE OR PARTIALLY MOBILE SUBSTRATES			CURRENT-DOMINATED SEDIMENT
	BECKROCK	BECKROCK	BECKROCK/BOULDER	BECKROCK/GRAVEL	BECKROCK/GRAVEL	SAND & GRAVEL	SAND & GRAVEL	ESTUARY or SAND/MUD	
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	34
EXPOSURE	VE	E	SE	SP	VP, P	SP	VP, P	VP, P, SP	VP, P, SP
COMMUNITY CODE (HAB CODE)	1	2	3	4	5	6	7	8	9
upper	<i>Ferrucaria</i>	<i>Ferrucaria</i>	<i>Ferrucaria</i>	<i>Ferrucaria</i>	<i>Ferrucaria</i>	<i>Ferrucaria</i>	<i>Ferrucaria</i>	<i>Ferrucaria</i>	
	<i>Balanus glandula</i>	<i>Balanus glandula</i>	<i>Balanus glandula</i>	<i>Balanus glandula</i>	<i>Balanus glandula</i>	<i>Balanus glandula</i>	<i>Balanus glandula</i>	<i>Balanus glandula</i>	
	<i>Mytilus californianus</i>	<i>Mytilus californianus</i>	<i>Mytilus californianus</i>	<i>Mytilus californianus</i>	<i>Mytilus californianus</i>	<i>Mytilus californianus</i>	<i>Mytilus californianus</i>	<i>Mytilus californianus</i>	
middle	<i>Polysiphonia</i>	<i>Polysiphonia</i>	<i>Polysiphonia</i>	<i>Polysiphonia</i>	<i>Polysiphonia</i>	<i>Polysiphonia</i>	<i>Polysiphonia</i>	<i>Polysiphonia</i>	
	<i>Semibalanus cariosus</i>	<i>Semibalanus cariosus</i>	<i>Semibalanus cariosus</i>	<i>Semibalanus cariosus</i>	<i>Semibalanus cariosus</i>	<i>Semibalanus cariosus</i>	<i>Semibalanus cariosus</i>	<i>Semibalanus cariosus</i>	
midlow	<i>Alaria</i>	<i>Alaria</i>	<i>Alaria</i>	<i>Alaria</i>	<i>Alaria</i>	<i>Alaria</i>	<i>Alaria</i>	<i>Alaria</i>	
lower	<i>Laminaria</i>	<i>Laminaria</i>	<i>Laminaria</i>	<i>Laminaria</i>	<i>Laminaria</i>	<i>Laminaria</i>	<i>Laminaria</i>	<i>Laminaria</i>	
subtidal	<i>Ulva</i>	<i>Ulva</i>	<i>Ulva</i>	<i>Ulva</i>	<i>Ulva</i>	<i>Ulva</i>	<i>Ulva</i>	<i>Ulva</i>	

