



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

- 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	22 Gravel Beach	23 Gravel Flat or Fan
2 Rock Platform, Wide	24 Sand and Gravel Flat or Fan, Wide	25 Sand and Gravel Beach	26 Sand and Gravel Flat or Fan, Narrow
3 Rock Cliff, Narrow	27 Sand Beach, Wide	28 Sand Flat	29 Mud Flat
4 Rock Ramp, Narrow	30 Sand Beach, Narrow	31 Shallows	
5 Rock Platform, Narrow	32 Sand Beach, Wide	33 Man-made, permeable	
6 Beach with Gravel Beach, Wide	34 Man-made, impermeable	35 Current Dominated	
7 Platform with Gravel Beach, Wide	36 Sand Beach, Wide	37 Platform with Sand and Gravel Beach, Wide	
8 Cliff with Gravel Beach	38 Platform with Sand Beach, Wide	39 Platform with Sand Beach, Wide	
9 Beach with Gravel Beach, Narrow	39 Platform with Sand Beach, Wide	40 Platform with Sand Beach, Wide	
10 Platform with Gravel Beach, Narrow	41 Platform with Sand Beach, Wide	42 Platform with Sand Beach, Wide	
11 Platform with Sand and Gravel Beach, Wide	43 Platform with Sand Beach, Wide	44 Platform with Sand Beach, Wide	
12 Cliff with Sand and Gravel Beach	45 Platform with Sand Beach, Wide	46 Platform with Sand Beach, Wide	
13 Beach with Sand and Gravel Beach, Narrow	47 Platform with Sand Beach, Wide	48 Platform with Sand Beach, Wide	
14 Platform with Sand and Gravel Beach, Wide	49 Platform with Sand Beach, Wide	50 Platform with Sand Beach, Wide	
15 Platform with Sand Beach, Wide	51 Platform with Sand Beach, Wide	52 Platform with Sand Beach, Wide	
16 Platform with Sand Beach, Wide	53 Platform with Sand Beach, Wide	54 Platform with Sand Beach, Wide	
17 Platform with Sand Beach, Wide	55 Platform with Sand Beach, Wide	56 Platform with Sand Beach, Wide	
18 Platform with Sand Beach, Wide	57 Platform with Sand Beach, Wide	58 Platform with Sand Beach, Wide	
19 Platform with Sand Beach, Wide	59 Platform with Sand Beach, Wide	60 Platform with Sand Beach, Wide	
20 Platform with Sand Beach, Wide	61 Platform with Sand Beach, Wide	62 Platform with Sand Beach, Wide	

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 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 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 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 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 COASTAL CLASSES EXPOSURE COMMUNITY CODE (100-400)	IMMOBILE SUBSTRATES					MOBILE OR PARTIALLY MOBILE SUBSTRATES			
	BEDROCK	BEDROCK	BEDROCK/BOULDER	BEDROCK/GRAVEL	BEDROCK/GRAVEL	SAND & GRAVEL	SAND & GRAVEL	ESTUARY or SAND/MUD	BEDROCK OR 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
	VE	E	SE	SP	VP, P	SP	VP, P	VP, P, SP	SE, E
	1	2	3	4	5	6	7	8	9
upper	<i>Terracaria</i>	<i>Terracaria</i>	<i>Terracaria</i>	<i>Terracaria</i>	<i>Terracaria</i>	<i>Terracaria</i>	<i>Terracaria</i>	<i>Terracaria</i>	<i>Terracaria</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>Balanus glandula</i>
middle	<i>Palicourea palmarum</i>	<i>Palicourea palmarum</i>	<i>Palicourea palmarum</i>	<i>Palicourea palmarum</i>	<i>Palicourea palmarum</i>	<i>Palicourea palmarum</i>	<i>Palicourea palmarum</i>	<i>Palicourea palmarum</i>	<i>Palicourea palmarum</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>	<i>Mytilus californianus</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>	<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>	<i>Laminaria</i>
	<i>Enteromorpha</i>	<i>Enteromorpha</i>	<i>Enteromorpha</i>	<i>Enteromorpha</i>	<i>Enteromorpha</i>	<i>Enteromorpha</i>	<i>Enteromorpha</i>	<i>Enteromorpha</i>	<i>Enteromorpha</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>	<i>Ulva</i>

