

**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	
Current Dominated	
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	
11 - Bedrock/Gravel - CC 21-33 - P/VP	
CC	Type
Rock Shore	characterized by a lack of clastic sediments such as gravel or sand.
Sediment Type	have substrates that have little or no bedrock crossing out
1 Rock Ramp, Wide	21 Gravel Flat, Wide
2 Rock Platform, Wide	22 Gravel Beach
3 Rock Ramp, Narrow	23 Sand and Gravel Flat or Fan, Wide
4 Rock Ramp, Narrow	24 Sand and Gravel Beach
5 Rock Platform, Narrow	25 Sand Beach, Wide
6 Rampe with Gravel Beach, Wide	26 Sand Beach, Narrow
7 Platform with Gravel Beach, Wide	27 Sand Beach, Wide
8 Platform with Gravel Beach, Narrow	28 Sand Beach
9 Rampe with Gravel Beach, Narrow	29 Sand Beach, Narrow
10 Platform with Gravel Beach, narrow	30 Sand Beach, Narrow
11 Rampe with Gravel Beach, Wide	31 Estuaries
12 Platform with Gravel Beach, Wide	32 Gravel-made, permeable
13 Platform with Gravel Beach, Wide	33 Gravel-made, impermeable
14 Cliff with Sand and Gravel Beach	
15 Cliff with Sand and Gravel Beach, Narrow	
16 Rampe with Sand and Gravel Beach, Wide	
17 Rampe with Sand and Gravel Beach, Narrow	
18 Cliff with Sand Beach, Wide	
19 Rampe with Sand Beach, Narrow	
20 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. reviews the physical mapping information, 2. assigns the bio-draws exposure scores, 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 wave exposure as indicated by the bands, and
• the substrate types in the unit.

Legend Definitions
CC - Coastal Classification number
Wave Exposure
E - Exposed - High wave exposure, open ocean swellism 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 QCI/GH. Original spp/hab from Gwai Haanas

Habitat Classification Based on Visible Macro-Biota Assemblages for the Queen Charlotte shoreline

SUBSTRATE STABILITY	IMMOBILE SUBSTRATES					MOBILE OR PARTIALLY MOBILE SUBSTRATES			CERFENT-DOMINATED
	BEDROCK	BEDROCK	BEDROCK/BOULDER	BEDROCK-GRAVEL	BEDROCK-GRAVEL	SAND & GRAVEL	ESTUARY OR SALTWATER	SEDIMENT	BEDROCK OR SEDIMENT
MAJOR COASTAL CLASSES	1-20	1-20	1-23, 32, 33	1-23, 33	1-23, 33	24, 25, 26, 32	24, 25, 26, 32	31	21-30
EXPOSURE	VE	E	SE	SP	VP, P	SP	VP, P	SP	SE, E
COMMUNITY CODE	1	2	3	4	5	6	7	8	9, 10
upper	Fernaria	Fernaria	Fernaria	Fernaria	Fernaria	Fernaria	Fernaria	Fernaria	grasses & rushes
	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	Salicornia
	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus	Balanus glandula
middle	Peltigera polymorpha	Peltigera polymorpha	Athyrium filix-femina	Semibalanus cariosus	Mytilus trunculus	Mytilus trunculus	Mytilus trunculus	Mytilus trunculus	Assemblage observed in the wave energy for the wave energy of the site.
	Mitella californica	Mitella californica	Urtica Urtaria	Urtica Urtaria	Urtica Urtaria	Urtica Urtaria	Urtica Urtaria	Urtica Urtaria	assemblage observed in the wave energy for the wave energy of the site.
	(Semibalanus cariosus)	(Semibalanus cariosus)							
midlow	Florula nonis morph	Florula nonis morph	Hedysarum glabiforme	Hedysarum glabiforme	Codium fragile	Codium fragile	Codium fragile	Codium fragile	Assemblage observed in the wave energy for the wave energy of the site.
	Alaria nonis morph	Alaria nonis morph	Hedysarum glabiforme	Hedysarum glabiforme	Codium fragile	Codium fragile	Codium fragile	Codium fragile	
lower	Lemnaceps lateralis	Lemnaceps lateralis	Lemnaceps lateralis	Lemnaceps lateralis	Lemnaceps lateralis	Lemnaceps lateralis	Lemnaceps lateralis	Lemnaceps lateralis	
	Littorina scutellata	Littorina scutellata	Littorina scutellata	Littorina scutellata	Littorina scutellata	Littorina scutellata	Littorina scutellata	Littorina scutellata	
	Littorina littorea	Littorina littorea	Littorina littorea	Littorina littorea	Littorina littorea	Littorina littorea	Littorina littorea	Littorina littorea	
subtidal	Nereocystis luetkeana	Nereocystis luetkeana	Ilypnus	Ilypnus	Ilypnus	Ilypnus	Ilypnus	Ilypnus	

* Bolding indicates diagnostic species used to distinguish "communities". Square brackets [] enclose species at VE AB, OHS I which may be present but are in reduced abundance and size. Note that the absence of species assemblages are as diagnostic as species' presence. Community Code type 1 (VE - very exposed) occurs only on the southwest coast of Morest Island.

