



#### Legend

○	Unit Break Points
○	Undefined
<b>Immobile Substrates</b>	
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	
<b>Current Dominated</b>	
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	
CC	Type
Rock Shores	characterized by a lack of clastic sediments such as gravel or sand.
Rock Shores	have substrates that have little or no bedrock crossing out
1 Rock Ramp, Wide	23 Gravel Flat, Wide
2 Rock Platform, Wide	23 Gravel Beach
3 Rock Ramp, Narrow	24 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	25 Sand Beach, Narrow
7 Platform with Gravel Beach, Wide	26 Sand Beach, Narrow
8 Platform with Gravel Beach, Narrow	27 Sand Beach, Wide
9 Rampe with Gravel Beach, Narrow	27 Sand Beach, Narrow
10 Platform with Gravel Beach, narrow	28 Sand Beach, Wide
11 Platform with Gravel Beach, narrow	28 Sand Beach, Narrow
12 Platform with Sand and Gravel Beach, Wide	29 Gravel, permeable
13 Cliff with Sand and Gravel Beach, Wide	30 Gravel, impermeable
14 Cliff with Sand and Gravel Beach, Narrow	31 Cliffs
15 Platform with Sand and Gravel Beach, Narrow	32 Channel
16 Rampe with Sand Beach, Wide	33 Total Lagoon
17 Rampe with Sand Beach, Narrow	
18 Cliff with Sand Beach, Narrow	
19 Platform 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.

How is Habitat Type determined?

Each Habitat Type has typical biological features (including both an indicator species list and typical associated biobands).

To determine a Habitat Type, the biomapper looks at the along-shore Units as designated and described by the physical mapper, and

1. reviews the physical mapped information, and

2. assigns a bio-draw (wave exposure diagram).

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 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 substrate type in the unit,

• 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 Gwaii 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	
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	21-30	34
EXPOSURE	VE	E	SE	SP	VP, P	SP	VP, P	SE, E	VP, P, SP
COMMUNITY CODE	1	2	3	4	5	6	7	8	9, 10
upper	Fernaria	Fernaria	Fernaria	Fernaria	Fernaria	Fernaria	Fernaria	grasses & rushes	
								Salicornia	
								Balanus glandula	
								Fucus distichus	
middle	Palicourea polymorpha	Palicourea polymorpha	Mytilis californiana	Alytina recurvata	Mytilis truncata	Mytilis truncata	Mytilis truncata	grasses & rushes	
	(Semebalana carinosa)	(Semebalana carinosa)		Semebalana carinosa	Semebalana carinosa	Ulmia Urticaria	Ulmia Urticaria	Salicornia	
								Balanus glandula	
								Fucus distichus	
midlow	Florula nonosa	Florula nonosa	Alaria nonosa	Hedophyllum glomeratum	Hedophyllum glomeratum	Hedophyllum glomeratum	Hedophyllum glomeratum		
	(morph)	(morph)	(morph)	Codium fragile	Codium fragile	Codium fragile	Codium fragile		
lower	Lemnaceae littoralis	Lemnaceae littoralis	Lemnaceae littoralis	Lemnaria acuminata	Lemnaria acuminata	Lemnaria acuminata	Lemnaria acuminata	Lemnaria acuminata	
subtidal	Nereocystis luetkeana	Nereocystis luetkeana	Nereocystis luetkeana	Ilypnus	Ilypnus	Ilypnus	Ilypnus		

\* Bolding indicates diagnostic species used to distinguish "communities". Square brackets [ ] enclose species at VE AB, OHS 1 which may be present but are in reduced abundance and size. Note that the absence of

species assemblies as diagnostic as species' presence. Community Code type 1 (VE - very exposed) occurs only on the southwest coast of Moreby Island.

