



Data Source:
Shoreline Type
GeoBC Coastal Resource Shoreline Database, 2008
Base Information
1:20,000 GeoBC Terrain Resource Information
Management (TRIM) Database
1:20,000

0 0.25 0.5 1
Kilometers

N
W E
S

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

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	
2 Rock Platform, Wide	23 Gravel Flat or Fan	24 Sand and Gravel Flat or Fan, Wide	
3 Rock Cliff, Narrow	25 Sand and Gravel Beach	26 Sand and Gravel Beach, Narrow	
4 Rock Platform, Narrow	27 Sand and Gravel Beach, Wide	28 Sand and Gravel Beach, Wide	
5 Platform with Gravel Beach, Wide	29 Sand and Gravel Beach, Wide	30 Sand and Gravel Beach, Wide	
6 Platform with Gravel Beach, Wide	31 Sand and Gravel Beach, Wide	32 Sand and Gravel Beach, Wide	
7 Platform with Gravel Beach, Wide	33 Sand and Gravel Beach, Wide	34 Sand and Gravel Beach, Wide	
8 Platform with Gravel Beach, Wide	35 Sand and Gravel Beach, Wide	36 Sand and Gravel Beach, Wide	
9 Platform with Gravel Beach, Wide	37 Sand and Gravel Beach, Wide	38 Sand and Gravel Beach, Wide	
10 Platform with Gravel Beach, Wide	39 Sand and Gravel Beach, Wide	40 Sand and Gravel Beach, Wide	
11 Platform with Sand and Gravel Beach, Wide	41 Sand and Gravel Beach, Wide	42 Sand and Gravel Beach, Wide	
12 Platform with Sand and Gravel Beach, Wide	43 Sand and Gravel Beach, Wide	44 Sand and Gravel Beach, Wide	
13 Platform with Sand and Gravel Beach, Wide	45 Sand and Gravel Beach, Wide	46 Sand and Gravel Beach, Wide	
14 Platform with Sand and Gravel Beach, Wide	47 Sand and Gravel Beach, Wide	48 Sand and Gravel Beach, Wide	
15 Platform with Sand and Gravel Beach, Wide	49 Sand and Gravel Beach, Wide	50 Sand and Gravel Beach, Wide	
16 Platform with Sand and Gravel Beach, Wide	51 Sand and Gravel Beach, Wide	52 Sand and Gravel Beach, Wide	
17 Platform with Sand and Gravel Beach, Wide	53 Sand and Gravel Beach, Wide	54 Sand and Gravel Beach, Wide	
18 Platform with Sand and Gravel Beach, Wide	55 Sand and Gravel Beach, Wide	56 Sand and Gravel Beach, Wide	
19 Platform with Sand and Gravel Beach, Wide	57 Sand and Gravel Beach, Wide	58 Sand and Gravel Beach, Wide	
20 Platform with Sand and Gravel Beach, Wide	59 Sand and Gravel Beach, Wide	60 Sand and Gravel 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 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 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 OC/CH. 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 (CC/SP)	IMMOBILE SUBSTRATES					MOBILE OR PARTIALLY MOBILE SUBSTRATES			
	BEDROCK	BEDROCK	BEDROCK/BOULDER	BEDROCK/GRAVEL	BEDROCK/GRAVEL	SAND & GRAVEL	SAND & GRAVEL	ESTUARY or SAND/MUD	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
	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>Terracina</i>	<i>Terracina</i>	<i>Terracina</i>	<i>Terracina</i>	<i>Terracina</i>	<i>Terracina</i>	<i>Terracina</i>	<i>Terracina</i>	<i>Terracina</i>
middle	<i>Polysiphonia confervacea</i>	<i>Polysiphonia confervacea</i>	<i>Polysiphonia confervacea</i>	<i>Polysiphonia confervacea</i>	<i>Polysiphonia confervacea</i>	<i>Polysiphonia confervacea</i>	<i>Polysiphonia confervacea</i>	<i>Polysiphonia confervacea</i>	<i>Polysiphonia confervacea</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>
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>
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>

