



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 - PNP

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
- 11 - Bedrock or Sediment - CC 35 - VP/P/SP

Current Dominated

Tidal Lagoon

Data Source:

Shoreline Type

GeoBC Coastal Resource Shorezone 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
S
E

CC	Type	CC	Type
Rock Shore Types - characterized by a lack of classic sediments such as gravel or sand.		Sediment Shore Types - have substrates that have little or no bedrock cropping out.	
1 Black Ramp, Wide	21	Gravel Flat, Wide	22
2 Rock Platform, Wide	23	Gravel Beach	24
3 Black Cliff, Narrow	25	Gravel Flat or Fan	26
4 Black Ramp, Narrow	27	Sand and Gravel Flat or Fan, Wide	28
5 Black Platform, Narrow	29	Sand and Gravel Beach	30
6 Beach with Gravel Beach, Wide	31	Sand and Gravel Flat or Fan, Narrow	32
7 Platform with Gravel Beach, Wide	33	Sand Beach, Wide	34
8 Cliff with Gravel Beach	35	Sand Flat	36
9 Beach with Gravel Beach, Narrow	37	Mud Flat	38
10 Platform with Gravel Beach, Narrow	39	Sand Beach, Narrow	40
11 Beach with Sand and Gravel Beach, Wide	41	Cliff	42
12 Platform with Sand and Gravel Beach, Wide	43	Man-made, permeable	44
13 Cliff with Sand and Gravel Beach	45	Man-made, impermeable	46
14 Beach with Sand and Gravel Beach, Narrow	47	Current Dominated	48
15 Platform with Sand and Gravel Beach, Narrow	49	Channel	50
16 Beach with Sand Beach, Wide	51	Tidal Lagoon	52
17 Platform with Sand Beach, Wide			
18 Cliff with Sand Beach			
19 Beach 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 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 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 MIDCOAST and NORTH COAST project area which includes BCO AREAS CC, JS and NC. The Species/wave exposure/substrate table for Habitat Classification (HAB, OBS), for the Mid-coast BC study area, from Johnstone Strait/Central Coast Mapping Regions 5, 6 and 7.

SUBSTRATE STABILITY MAJOR SUBSTRATE COASTAL EXPOSURE (OBS, OBS)	IMMOBILE SUBSTRATES				MOBILE OR PARTIALLY MOBILE SUBSTRATES				CURRENT-DOMINATED BEDROCK OR SEDIMENT	TIDAL LAGOON BEDROCK OR SEDIMENT
	BEDROCK	BEDROCK/BOULDER	BEDROCK/GRAVEL	BEDROCK/GRAVEL	SAND & GRAVEL	SAND & GRAVEL	SAND/MUD	SEDIMENT		
1-20	1-23, 32, 33	1-23, 33	1-23, 33	1-23, 33	24-30, 32	24-30, 32	24-30, 32	24-30, 32	34	35
E	SE	SP	VP, P	VP, P	no SAL band	no SAL band	has SAL band	VP, P, SP	VP, P, SP	VP, P, SP
COMMUNITY CODE (OBS, OBS)	2	3	4	5	6	7	8	9	10	11
upper	<i>Vernicaria</i>	<i>Vernicaria</i> <i>Enteromorpha</i>	<i>Vernicaria</i> <i>Enteromorpha</i>	<i>Vernicaria</i> <i>Enteromorpha</i>	<i>Vernicaria</i> <i>Enteromorpha</i>	<i>Vernicaria</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>
middle	<i>Balanus glandula</i> <i>Mytilus californianus</i> <i>Semibalanus cariosus</i>	<i>Balanus glandula</i> <i>Mytilus californianus</i> <i>Semibalanus cariosus</i>	<i>Balanus glandula</i> <i>Mytilus californianus</i> <i>Semibalanus cariosus</i>	<i>Balanus glandula</i> <i>Mytilus californianus</i> <i>Semibalanus cariosus</i>	<i>Balanus glandula</i> <i>Mytilus californianus</i> <i>Semibalanus cariosus</i>	<i>Balanus glandula</i> <i>Mytilus californianus</i> <i>Semibalanus cariosus</i>	<i>Balanus glandula</i> <i>Mytilus californianus</i> <i>Semibalanus cariosus</i>	<i>Balanus glandula</i> <i>Mytilus californianus</i> <i>Semibalanus cariosus</i>	<i>Balanus glandula</i> <i>Mytilus californianus</i> <i>Semibalanus cariosus</i>	<i>Balanus glandula</i> <i>Mytilus californianus</i> <i>Semibalanus cariosus</i>
mid/low	<i>Alaria 'vase' morph</i>	<i>Hydrophyllum scutell</i>	<i>Hydrophyllum scutell</i>	<i>Hydrophyllum scutell</i>	<i>Hydrophyllum scutell</i>	<i>Hydrophyllum scutell</i>	<i>Hydrophyllum scutell</i>	<i>Hydrophyllum scutell</i>	<i>Hydrophyllum scutell</i>	<i>Hydrophyllum scutell</i>
lower	<i>Laminaria digitata</i>	<i>Laminaria digitata</i>	<i>Laminaria digitata</i>	<i>Laminaria digitata</i>	<i>Laminaria digitata</i>	<i>Laminaria digitata</i>	<i>Laminaria digitata</i>	<i>Laminaria digitata</i>	<i>Laminaria digitata</i>	<i>Laminaria digitata</i>
subtidal	<i>Nereocystis lachnana</i>	<i>Nereocystis lachnana</i>	<i>Nereocystis lachnana</i>	<i>Nereocystis lachnana</i>	<i>Nereocystis lachnana</i>	<i>Nereocystis lachnana</i>	<i>Nereocystis lachnana</i>	<i>Nereocystis lachnana</i>	<i>Nereocystis lachnana</i>	<i>Nereocystis lachnana</i>

