



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
- 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

E

S

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	
2 Rock Platform, Wide		22 Gravel Beach	
3 Rock Cliff, Narrow		23 Gravel Flat or Fan	
4 Rock Ramp, Narrow		24 Sand and Gravel Flat or Fan, Wide	
5 Rock Platform, Narrow		25 Sand and Gravel Beach	
6 Beach with Gravel Beach, Wide		26 Sand and Gravel Flat or Fan, Narrow	
7 Platform with Gravel Beach, Wide		27 Sand Beach, Wide	
8 Cliff with Gravel Beach		28 Mud Flat	
9 Beach with Gravel Beach, Narrow		29 Mud Flat	
10 Platform with Gravel Beach, Wide		30 Sand Beach, Narrow	
11 Beach with Sand and Gravel Beach, Wide		31 Estuary	
12 Cliff with Sand and Gravel Beach		32 Man-made, permeable	
13 Beach with Sand and Gravel Beach, Narrow		33 Man-made, impermeable	
14 Platform with Sand and Gravel Beach, Wide		34 Channel	
15 Beach with Sand Beach, Wide		35 Tidal Lagoon	
16 Platform with Sand Beach, Wide			
17 Cliff with Sand Beach			
18 Beach with Sand Beach, Narrow			
19 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 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 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	IMMOBILE SUBSTRATES					MOBILE OR PARTIALLY MOBILE SUBSTRATES					CURRENT-DOMINATED	TIDAL LAGOON
	BEDROCK	BEDROCK/BOULDER	BEDROCK/GRAVEL	BEDROCK/GRAVEL	SAND & GRAVEL	SAND & GRAVEL	SAND/MUD	SEDIMENT	BEDROCK OR SEDIMENT	BEDROCK OR SEDIMENT		
COASTAL EXPOSURE	1-20	1-23, 32, 33	1-23, 33	1-23, 33	24-30, 32	24-30, 32	24-30, 32	24-30	24-30	24-30	34	35
COMMUNITY CODE (HAB, OBS)	E	SE	SP	VP, P	SP	VP, P	VP, P, SP	VP, P, SP	VP, P, SP	VP, P, SP	VP, P, SP	VP, P, SP
upper	<i>Verrucaria</i>	<i>Verrucaria</i> <i>Enteromorpha</i>	<i>Verrucaria</i> <i>Enteromorpha</i>	<i>Verrucaria</i> <i>Enteromorpha</i>	<i>Verrucaria</i> <i>Enteromorpha</i>	<i>Verrucaria</i> <i>Enteromorpha</i>	<i>grasses & rushes</i> <i>Salicornia</i> <i>virginica</i>					
middle	<i>Balanus glandula</i>	<i>Balanus glandula</i> <i>Pucus distichus</i>	<i>Balanus glandula</i> <i>Pucus distichus</i>	<i>Balanus glandula</i> <i>Pucus distichus</i>	<i>Balanus glandula</i> <i>Pucus distichus</i>	<i>Balanus glandula</i> <i>Pucus distichus</i>	<i>Balanus glandula</i> <i>Pucus distichus</i>					
mid/low	<i>Polysiphonia polymorpha</i> <i>Mytilus californianus</i> <i>Semibalanus cariosus</i>	<i>Mytilus californianus</i> <i>Semibalanus cariosus</i>	<i>Mytilus californianus</i> <i>Semibalanus cariosus</i>	<i>Mytilus californianus</i> <i>Semibalanus cariosus</i>	<i>Mytilus californianus</i> <i>Semibalanus cariosus</i>	<i>Mytilus californianus</i> <i>Semibalanus cariosus</i>	<i>Mytilus californianus</i> <i>Semibalanus cariosus</i>					
lower	<i>Levinseniella littoralis</i>	<i>Levinseniella littoralis</i>	<i>Levinseniella littoralis</i>	<i>Levinseniella littoralis</i>	<i>Levinseniella littoralis</i>	<i>Levinseniella littoralis</i>	<i>Levinseniella littoralis</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>					

