

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

1:20,000
0 0.25 0.5 1 Kilometers

Legend	
○ Unit Break Points	
~ Undefined	
Immobile Substrates	
1 - Bedrock - CC 1-20 - VE	6 - Sand & Gravel - CC 24-26, 32 - SP
2 - Bedrock - CC 1-20 - E	7 - Sand & Gravel - CC 24-26,32 - VP/P
3 - Bedrock/Boulder - CC 1-23, 32, 33 - SE	8 - Estuary or Sand/Mud - CC 27-31 - VP/P/SP
4 - Bedrock/Gravel - CC 1-23, 33 - SP	9 - Sediment - CC 21 - 30 - SE/E
5 - Bedrock/Gravel - CC 1-23, 33 - P/V	10 - Bedrock or Sediment - CC 34 - VP/P/SP
Tidal Lagoon	11 - Bedrock or Sediment - CC 35 - VP/P/SP
Rock Shores - characterized by a lack of clastic sediments such as gravel or sand.	Sediment types - have substrates that have little or no bedrock crossing out
1 Rock Ramp, Wide	2 Gravel Flat, Wide
2 Rock Platform, Wide	3 Gravel Beach, Wide
3 Rock Ramp, Narrow	4 Sand and Gravel Flat or Fan, Narrow
4 Rock Ramp, Narrow	5 Sand Beach, Wide
5 Rock Platform, Narrow	6 Sand Beach, Narrow
Rock Platforms - characterized by rock and pockets of clastic sediments	7 Gravel Beach, Narrow
6 Ram, Gravel Beach, Wide	8 Gravel Beach, Narrow
7 Platform with Gravel Beach, Wide	9 Gravel Beach, Narrow
8 Platform with Gravel Beach, Narrow	10 Gravel Beach, Narrow
9 Ram with Gravel Beach, Narrow	11 Gravel Beach, Narrow
10 Platform with Gravel Beach, Narrow	12 Gravel Beach, Narrow
11 Ram with Gravel Beach, Wide	13 Gravel Beach, Narrow
12 Platform with Sand and Gravel Beach, Wide	14 Gravel Beach, Permeable
13 Cliff with Sand and Gravel Beach, Wide	15 Channel
14 Cliff with Sand and Gravel Beach, Narrow	16 Tidal Lagoon
15 Ram with Sand and Gravel Beach, Narrow	
16 Ram with Sand Beach, Wide	
17 Ram with Sand Beach, Narrow	
18 Cliff with Sand Beach, Narrow	
19 Ram with Sand Beach, Narrow	
20 Platform with Sand Beach, Narrow	

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

Current Dominated

- 10 - Bedrock or Sediment - CC 34 - VP/P/SP
- 11 - Bedrock or Sediment - CC 35 - VP/P/SP

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 map to identify the biobands in the unit and looks for indicator species,

2. assigns a bio-break 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 wave exposure as indicated by the bands,

- 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 MIDCOAST and NORTH COAST project area which includes BIO AREAS CC, JS and NC.

The Species wave exposure/substrate table for Habitat Classification (HAB_OHS), for the Mid-coast BC study area, from Johnstone Strait/Central Coast Mapping Regions 5, 6 and 7.

SUBSTRATE STABILITY	IMMOBILE SUBSTRATES				MOBILE OR PARTIALLY MOBILE SUBSTRATES				CURRENT DOMINATED	TIDAL IAGOON
	SAND & GRAVEL	SAND & GRAVEL	SAND/MUD	SEDIMENT	BEDROCK OR SEDIMENT	BEDROCK OR SEDIMENT				
MAJOR SUBSTRATE	BEDROCK	BEDROCK/BOULDER	BEDROCK/GRAVEL	BEDROCK/GRAVEL						
COASTAL CLASSES	1-20	1-23, 32, 33	1-23, 33	1-23, 33						
EXPOSURE	E	SE	SP	VP, P						
COMMUNITY CODE	2	3	4	5						
upper	Verrucaria	Verrucaria	Verrucaria	Verrucaria						
	Enseromeria	Enseromeria	Enseromeria	Enseromeria						
	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula						
	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus						
middle	Polyplex polymers	Mytilis californiana	Mytilis californiana	Mytilis troxulus *						
	Mytilis californiana	Semibalanus cariosus	Semibalanus cariosus	Mytilis troxulus *						
		Utricularia spp.	Utricularia spp.	Mytilis troxulus *						
				Utricularia spp.						
mid low	Hedophyllum setosum	Alaria marginata morph	Laminaria groenlandica	Laminaria saccharina						
	Phyllospadix scouleri	Alaria marginata morph	Laminaria saccharina	Laminaria saccharina						
		Lithothamnion	Alaria marginata morph	Alaria marginata morph						
lower	Lessonia littoralis	Nereocystis luetkeana	Lithothamnion	Lithothamnion						
		Macrocystis integrifolia								
		Agarum spp.								
		Strongylocentrotus franciscanus								
subtidal	Nereocystis luetkeana	Nereocystis luetkeana	Macrocystis integrifolia	Macrocystis integrifolia						
		Agarum spp.	Agarum spp.	Agarum spp.						
		Strongylocentrotus franciscanus	Strongylocentrotus franciscanus	Strongylocentrotus franciscanus						
		Zostera marina	Zostera marina	Zostera marina						

