



Legend

- Unit Break Points
- Undefined
- Immobile Substrates**
 - 1 - Bedrock - CC 1-20 - VE
 - 2 - Bedrock - CC 21 - 30 - 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/V
- Tidal Lagoon**
 - 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/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

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/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

CC Type

Rock Shores characterized by a lack of clastic sediments such as gravel or sand.

1 Rock Rampe, Wide	Sediment types have substrates that have little or no bedrock crossing out
2 Rock Platform, Wide	21 Gravel Flat, Wide
3 Rock Platform, Narrow	22 Gravel Beach
4 Rock Rampe, Narrow	23 Sand and Gravel Flat or Fan, Narrow
5 Rock Platform, Narrow	24 Sand and Gravel Flat or Fan, Wide
6 Rampe with Gravel Beach, Wide	25 Sand Beach, Wide
7 Platform with Gravel Beach, Wide	26 Sand Beach, Narrow
8 Platform with Gravel Beach, Narrow	27 Sand Beach, Narrow
9 Rampe with Gravel Beach, Narrow	28 Sand
10 Platform with Gravel Beach, narrow	29 Gravel
11 Cliff with Sand and Gravel Beach, Wide	30 Gravel
12 Platform with Sand and Gravel Beach, Wide	31 Clusters
13 Cliff with Sand and Gravel Beach, Narrow	32 Gravel, permeable
14 Rampe with Sand and Gravel Beach, Narrow	33 Gravel, impermeable
15 Rampe with Sand and Gravel Beach, Narrow	34 Channel
16 Rampe with Sand Beach, Wide	35 Tidal Lagoon
17 Rampe with Sand Beach, Narrow	
18 Cliff with Sand Beach, Narrow	
19 Rampe with Sand Beach, Narrow	
20 Platform with Sand Beach, Narrow	

Rock Shores characterized by small pockets of clastic sediments

35 Tidal Lagoon

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 mapping for the biobands in the unit and looks for indicator species,

2. assigns a bio-breakage 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, 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 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, and 7.

SUBSTRATE STABILITY	IMMOBILE SUBSTRATES				MOBILE OR PARTIALLY MOBILE SUBSTRATES				CURRENT DOMINATED	TIDAL IAGOON
	MAJOR SUBSTRATE	BEDROCK	BEDROCK/BOULDER	BEDROCK/GRAVEL	BEDROCK/GRAVEL	SAND & GRAVEL	SAND & GRAVEL	SAND/MUD	SEDIMENT	BEDROCK OR SEDIMENT
COASTAL CLASSES	1-20	1-23, 32, 33	1-23, 33	1-23, 33	24 - 30, 32, no SAL band	24 - 30, 32, no SAL band	24 - 30, 31, has SAL band	24-30	34	35
EXPOSURE	E	SE	SP	VP, P	SP	VP, P	VP, P, SP	SE, E	VP, P, SP	VP, P, SP
COMMUNITY CODE	2	3	4	5	6	7	8	9	10	11
old class										
upper	Vernonia	Vernonia	Vernonia	Vernonia	Vernonia	Vernonia	Vernonia	grasses & rushes		
	Enseromeria	Enseromeria	Enseromeria	Enseromeria	Enseromeria	Enseromeria	Enseromeria	Salicornia		
	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	Vegetation		
	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus			
middle	Polyplex polymers	Mytilus californianus	Mytilus californianus	Mytilus californianus	Mytilus californianus	Mytilus californianus	Mytilus californianus	grasses & rushes		
	Mytilus californianus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	Utricularia spp.	Utricularia spp.	Salicornia		
						Utricularia spp.	Utricularia spp.	Vegetation		
mid low	Hedophyllum setosum	Alaria marginata morph	Lithothamnion	Laminaria groenlandica	Laminaria groenlandica	Laminaria saccharina	Laminaria saccharina	no visible microfauna due to sediment mobility		
	Phyllospadix scouleri	Phyllospadix scouleri		Alaria marginata	Alaria marginata	Alaria marginata	Alaria marginata			
				Lithothamnion	Lithothamnion	Lithothamnion	Lithothamnion			
lower	Lessonia leptiralis									
subtidal	Neorcyathus laevis	Macrocystis integrifolia	Macrocystis integrifolia	Macrocystis integrifolia	Macrocystis integrifolia	Agarum spp.	Agarum spp.			
		Agarum spp.	Agarum spp.	Agarum spp.	Agarum spp.	Styela clava	Styela clava			
						Styela clava	Styela clava			

