



Legend

Unit Break Points	
Undefined	
Immobile Substrates	
1 - Bedrock - CC 1-20 - VE	
2 - Bedrock - CC 21 - 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	
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	
Current Dominated	
10 - Bedrock or Sediment - CC 34 - VP/P/SP	
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 Ram, Wide	21 Gravel Flat, Wide
2 Rock Platform Wide	22 Gravel Beach
3 Rock Ram, Narrow	23 Sand Beach, Wide
4 Rock Ram, Narrow	24 Sand and Gravel Flat or Fan, Wide
5 Rock Platform Narrow	25 Sand and Gravel Fan, Narrow
6 Ramy with Gravel Beach, Wide	26 Sand Beach, Narrow
7 Platform with Gravel Beach, Wide	27 Sand Beach, Wide
8 Platform with Gravel Beach, Narrow	28 Sand Beach
9 Ramy with Gravel Beach, Narrow	29 Sand Beach, Narrow
10 Platform with Gravel Beach, narrow	30 Littoral
11 Ramy with Gravel Beach, narrow	31 Estuaries
12 Platform with Sand and Gravel Beach, Wide	32 Man-made, permeable
13 Cliff with Sand and Gravel Beach	33 Man-made, impermeable
14 Ramy with Sand and Gravel Beach, narrow	
15 Platform with Sand and Gravel Beach, narrow	34 Channel
16 Ramy with Sand Beach, Wide	35 Total Lagoon
17 Ramy with Sand Beach, narrow	
18 Cliff with Sand Beach, narrow	
19 Ramy 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 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, and

2. assigns a bio-breakage exposure category,

3. reviews the physical mapping 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

VP - 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 estuaries, 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_OBS), 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
	MAJOR SUBSTRATE	BEDROCK	BEDROCK/BOULDER	BEDROCK/GRAVEL	BEDROCK/GRAVEL	SAND & GRAVEL	SAND & GRAVEL	SAND/MUD	SEDIMENT	BEDROCK OR 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	grasses & rushes				
	Enserophora	Enserophora	Enserophora	Enserophora	Enserophora	Enserophora	Salicornia				
	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					
middle	Palicourea polymorpha	Mytilis californianus	Mytilis californianus	Mytilis californianus	Mytilis californianus	Mytilis californianus					
	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus					
	Utricularia spp.	Utricularia spp.	Utricularia spp.	Utricularia spp.	Utricularia spp.	Utricularia spp.					
mid low	Hedophyllum setosum	Alaria marginata morph	Lithothamnion	Laminaria groenlandica	Laminaria groenlandica	Laminaria saccharina					
	Phyllospadix scouleri	Phyllospadix scouleri		Alaria marginata	Alaria marginata	Alaria marginata					
lower	Lessonia littoralis			Lithothamnion	Lithothamnion	Lithothamnion					
subtidal	Neorocystis laevis	Macrocystis integrifolia	Macrocystis integrifolia	Macrocystis integrifolia	Macrocystis integrifolia	Macrocystis integrifolia					
		Agarum spp.	Agarum spp.	Agarum spp.	Agarum spp.	Agarum spp.					
		Strongylocodium franciscanum	Strongylocodium franciscanum	Strongylocodium franciscanum	Strongylocodium franciscanum	Strongylocodium franciscanum					
		Zostera marina	Zostera marina	Zostera marina	Zostera marina	Zostera marina					

