



**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/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

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

CC	Type	Substrate
1	Ramp, Wide	Sediments, 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 Platform, Narrow	23 Sand and Gravel Flat or Fan, Narrow
5	Rock Platform, Narrow	24 Sand and Gravel Flat or Fan, Wide
6	Ramp 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, Wide
9	Platform with Gravel Beach, Narrow	28 Sand Beach, Narrow
10	Platform with Gravel Beach, narrow	29 Sand Beach, Narrow
11	Cliff with Sand and Gravel Beach, Wide	30 Cliffs
12	Cliff with Sand and Gravel Beach, Wide	31 Cliffs
13	Cliff with Sand and Gravel Beach, narrow	32 Cliffs
14	Cliff with Sand and Gravel Beach, narrow	33 Cliffs
15	Platform with Sand and Gravel Beach, narrow	34 Channel
16	Platform with Sand and Gravel Beach, narrow	35 Total Lagoon
17	Ramp with Sand Beach, Wide	36 Protected
18	Ramp with Sand Beach, Wide	37 Semi-Protected
19	Ramp with Sand Beach, narrow	38 Protected
20	Ramp with Sand Beach, narrow	39 Semi-Protected

## 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 information, and

2. assigns a bio-stratigraphic 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 along-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 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 (IAB\_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	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				
	Enseromeria	Enseromeria	Enseromeria	Enseromeria	Enseromeria	Enseromeria	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	Palpiger polymorph	Mytilus californianus	Mytilus californianus	Mytilus californianus	Mytilus californianus	Mytilus californianus	grasses & rushes				
	Mytilus californianus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	Salicornia				
		Utricularia spp.	Utricularia spp.	Utricularia spp.	Utricularia spp.	Utricularia spp.	Vegetation				
mid low	Aleuria nemor morph	Hedophyllum sente	Phyllospadix scouleri								
lower	Lessonia littoralis			Laminaria groenlandica	Laminaria saccharina	Laminaria saccharina					
				Alaria marginata morph	Alaria marginata morph	Alaria marginata morph					
				Lithothamnion	Lithothamnion	Lithothamnion					
subtidal	Neorocystis laevigata	Neorocystis laevigata	Macrocystis integrifolia	Macrocystis integrifolia	Macrocystis integrifolia	Macrocystis integrifolia					
			Agarum spp.	Agarum spp.	Agarum spp.	Agarum spp.					
			Stronylegma franciscanus	Stronylegma franciscanus	Stronylegma franciscanus	Stronylegma franciscanus					
			Zoster marina	Zoster marina	Zoster marina	Zoster marina					

