



**Legend**

Unit Break Points	
Undefined	
<b>Immobile Substrates</b>	
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	
<b>Tidal Lagoon</b>	
6 - Sand & Gravel - CC 24-26, 32 - SP	
7 - Sand & Gravel - CC 24-26, 32 - VP/VP	
8 - Estuary or Sand/Mud - CC 27-31 - VP/SP	
9 - Sediment - CC 21 - 30 - SE/E	
<b>Current Dominated</b>	
10 - Bedrock or Sediment - CC 34 - VP/P/SP	
11 - Bedrock or Sediment - CC 35 - VP/P/SP	
<b>Rock Shores</b>	
Rock shores characterized by a lack of clastic sediments such as gravel or sand.	
Rock shores 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 Gravel Beach
4 Rock Ram, Narrow	24 Sand and Gravel Fan, Wide
5 Rock Platform Narrow	25 Sand and Gravel Beach
6 Ram w/ Gravel Beach, Wide	26 Sand Beach, Wide
7 Platform w/ Gravel Beach, Wide	27 Sand Beach, Narrow
8 Ram w/ Gravel Beach, Narrow	28 Sand Beach
9 Ram w/ Gravel Beach, Narrow	29 Sand Beach, Narrow
10 Platform w/ Gravel Beach, narrow	30 Littoral
11 Cliff w/ Sand and Gravel Beach	31 Cliffs
12 Platform w/ Sand and Gravel Beach	32 Gravel, permeable
13 Cliff w/ Sand and Gravel Beach	33 Gravel, impermeable
14 Ram w/ Sand and Gravel Beach, narrow	
15 Platform w/ Sand and Gravel Beach, narrow	
16 Ram w/ Sand Beach, Wide	
17 Ram w/ Sand Beach, Wide	
18 Ram w/ Sand Beach, narrow	
19 Ram w/ Sand Beach, narrow	
20 Platform w/ 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 a 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

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 (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 LAGOON
	MAJOR SUBSTRATE	BEDROCK	BEDROCK/BOULDER	BEDROCK/GRAVEL	BEDROCK/GRANITE		
COASTAL CLASSES	1-20	1-23, 32, 33	1-23, 33	1-23, 33	24 - 30, 32	24 - 30, 32	BEDROCK OR SEDIMENT
EXPOSURE	E	SE	SP	VP, P	no SAL band	no SAL band	BEDROCK OR SEDIMENT
COMMUNITY CODE	2	3	4	5	SP	VP, P	SP
old class						VP, P, SP	VP, P, SP
upper	Verrucaria	Verrucaria	Verrucaria	Verrucaria	Verrucaria	grasses & rushes	
	Enteromorpha	Enteromorpha	Enteromorpha	Enteromorpha	Enteromorpha	algae & seagrass	
	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	veggies	
	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus	Balanus glandula	
middle	Polyplex polymers	Mytilis californiana	Mytilis californiana	Mytilis californiana	Mytilis californiana	grass & rushes	
	Mytilis californiana	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	algae & seagrass	
		Utricularia spp.	Utricularia spp.	Utricularia spp.	Utricularia spp.	veggies	
						Balanus glandula	
						Fucus distichus	
mid low	Hedophyllum setosum	Aleuria marginata morph	Laminaria groenlandica	Laminaria saccharina	Laminaria saccharina	no visible microfauna due to sediment mobility	
	Phyllospadix scouleri	Aleuria marginata morph	Laminaria groenlandica	Aleuria marginata morph	Aleuria marginata morph		
			Lithothamnion	Lithothamnion	Lithothamnion		
lower	Lessonia littoralis	Aleuria marginata morph	Laminaria groenlandica	Laminaria saccharina	Laminaria saccharina		
		Strengosiphon franciscanus	Aleuria marginata morph	Aleuria marginata morph	Strengosiphon franciscanus		
					Zostera marina		
subtidal	Noevoecystis laevis	Noevoecystis laevis	Noevoecystis laevis	Noevoecystis laevis	Noevoecystis laevis		
		Marecystis integrifolia	Marecystis integrifolia	Marecystis integrifolia	Marecystis integrifolia		
		Agarum spp.	Agarum spp.	Agarum spp.	Agarum spp.		
		Strongylocodium franciscanus	Strongylocodium franciscanus	Strongylocodium franciscanus	Strongylocodium franciscanus		
			Zostera marina	Zostera marina	Zostera marina		

