



Legend	
	Unit Break Points
	Undefined
Immobility 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 - PNP
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
	10 - Bedrock or Sediment - CC 34 - VP/P/SP
	11 - Bedrock or Sediment - CC 35 - VP/P/SP
Tidal Lagoon	
	12 - Tidal Lagoon

CC	Type	CC	Type
Rock Shore Types - characterized by a lack of classic sediments such as gravel or sand.		Sediment Shore Types - have substrates that have little or no bedrock cropping out.	
1) Rock Ramp, Wide	21) Gravel Flat, Wide	22) Gravel Beach	
2) Rock Platform, Wide	23) Gravel Flat or Fan	24) Sand and Gravel Flat or Fan, Wide	
3) Rock Cliff, Narrow	25) Sand and Gravel Beach	26) Sand and Gravel Beach	
4) Rock Platform, Narrow	27) Sand and Gravel Flat or Fan, Narrow	28) Sand Beach, Wide	
5) Beach with Gravel Beach, Wide	29) Mud Flat	30) Sand Beach, Narrow	
6) Cliff with Gravel Beach	31) Cliffs		
7) Beach with Gravel Beach, Narrow	32) Man-made, permeable		
8) Platform with Gravel Beach, Wide	33) Man-made, impermeable		
9) Platform with Gravel Beach, Narrow	34) Channel		
10) Platform with Sand and Gravel Beach	35) Tidal Lagoon		
11) Beach with Sand and Gravel Beach, Wide			
12) Cliff with Sand and Gravel Beach			
13) Beach with Sand and Gravel Beach, Narrow			
14) Platform with Sand and Gravel Beach, Wide			
15) Platform with Sand Beach, Wide			
16) Beach with Sand Beach, Wide			
17) Platform with Sand Beach, Narrow			
18) Cliff with Sand Beach			
19) Beach 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. records the observations of the biobands in the unit and looks for indicator species,
2. assigns a bio-(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 biobands observed,
- 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 - Very high wave exposure, open ocean swells 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-35 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 MAJOR SUBSTRATE COASTAL CLASSES EXPOSURE (OBS-OBS) COMMUNITY CODE (HAB-OBS)	IMMOBILE SUBSTRATES				MOBILE OR PARTIALLY MOBILE SUBSTRATES				CURRENT-DOMINATED	TIDAL LAGOON
	BEDROCK	BEDROCK/BOULDER	BEDROCK/GRAVEL	BEDROCK/GRAVEL	SAND & GRAVEL	SAND & GRAVEL	SAND/MUD	SEDIMENT		
1-20	1-23, 32, 33	1-23, 33	1-23, 33	1-23, 33	24-30, 32	24-30, 32	24-30, 31	24-30	34	35
SE	SE	SP	VP, P	VP, P	no SAL band	has SAL band	VP, P, SP	SE, E	VP, P, SP	VP, P, SP
2	3	4	5	6	7	8	9	10	11	
upper	<i>Verrucaria</i>	<i>Verrucaria</i> <i>Enteromorpha</i>	<i>Verrucaria</i> <i>Enteromorpha</i>	<i>Verrucaria</i> <i>Enteromorpha</i>	<i>Verrucaria</i> <i>Enteromorpha</i>	<i>Verrucaria</i> <i>Enteromorpha</i>	<i>grasses & rushes</i> <i>Salicornia</i> <i>virginica</i>			
middle	<i>Polysiphonia</i> <i>Mytilus californianus</i> <i>Semibalanus cariosus</i>	<i>Mytilus californianus</i> <i>Semibalanus cariosus</i>	<i>Mytilus californianus</i> <i>Semibalanus cariosus</i>	<i>Mytilus californianus</i> <i>Semibalanus cariosus</i>	<i>Mytilus californianus</i> <i>Semibalanus cariosus</i>	<i>Mytilus californianus</i> <i>Semibalanus cariosus</i>	<i>Mytilus californianus</i> <i>Semibalanus cariosus</i>			
mid/low	<i>Alaria</i> 'sensu' morph	<i>Hydrodictyon</i> 'sensu'	<i>Hydrodictyon</i> 'sensu'	<i>Hydrodictyon</i> 'sensu'	<i>Hydrodictyon</i> 'sensu'	<i>Hydrodictyon</i> 'sensu'	<i>Hydrodictyon</i> 'sensu'			
lower	<i>Laminaria</i> 'sensu'	<i>Laminaria</i> 'sensu'	<i>Laminaria</i> 'sensu'	<i>Laminaria</i> 'sensu'	<i>Laminaria</i> 'sensu'	<i>Laminaria</i> 'sensu'	<i>Laminaria</i> 'sensu'			
subtidal	<i>Nereocystis lachnana</i>	<i>Nereocystis lachnana</i>	<i>Nereocystis lachnana</i>	<i>Nereocystis lachnana</i>	<i>Nereocystis lachnana</i>	<i>Nereocystis lachnana</i>	<i>Nereocystis lachnana</i>			

