



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	
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.
Rock Shores	have substrates that have little or no bedrock crossing out
1 Rock Rampe, Wide	21 Gravel Flat, Wide
2 Rock Platform, Wide	22 Gravel Beach
3 Rock Rampe, Narrow	23 Gravel Beach, narrow
4 Rock Rampe, Narrow	24 Sand and Gravel Flat or Fan, Wide
5 Rock Platform, Narrow	25 Sand and Gravel Beach
6 Rampe with Gravel Beach, Wide	26 Sand Beach, Wide
7 Platform with Gravel Beach, Wide	27 Sand Beach, Wide
8 Rampe with Gravel Beach, Narrow	28 Sand Beach, narrow
9 Platform with Gravel Beach, Narrow	29 Sand Beach, narrow
10 Platform with Gravel Beach, narrow	30 Sand Beach, narrow
11 Cliff with Gravel Beach, Wide	31 Cliffs
12 Cliff with Gravel Beach, Narrow	32 Gravel, permeable
13 Cliff with Gravel Beach, Wide	33 Gravel, impermeable
14 Cliff with Gravel Beach, Narrow	
15 Platform with Sand and Gravel Beach, Wide	
16 Platform with Sand and Gravel Beach, Narrow	
17 Platform with Sand and Gravel Beach, Wide	
18 Cliff with Sand Beach, Wide	
19 Cliff with Sand Beach, Narrow	
20 Platform with Sand Beach, Narrow	
21 Cliff with Sand Beach, Wide	
22 Cliff with Sand Beach, Narrow	
23 Cliff with Sand Beach, Wide	
24 Cliff with Sand Beach, Narrow	
25 Platform with Sand Beach, Wide	
26 Platform with Sand Beach, Narrow	
27 Platform with Sand Beach, Wide	
28 Platform with Sand Beach, Narrow	
29 Platform with Sand Beach, Wide	
30 Platform with Sand Beach, Narrow	
31 Platform with Sand Beach, Wide	
32 Platform with Sand Beach, Narrow	
33 Total 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 information, and the biobands in the unit and looks for indicator species,
- 2: assigns a bio-break (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 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 IAGOON
	SAND & GRAVEL	SAND & GRAVEL	SAND & GRAVEL	SEDIMENT	BEDROCK OR SEDIMENT	BEDROCK OR SEDIMENT				
MAJOR SUBSTRATE	BEDROCK	BEDROCK/BOULDER	BEDROCK/GRAVEL	BEDROCK/GRAVEL						
COASTAL CLASSES	1-20	1-23, 32, 33	1-23, 33	1-23, 33						
EXPOSURE	E	SE	SP	VP, P	SP	VP, P	VP, P, SP	SE, E	VP, P, SP	VP, P, SP
COMMUNITY CODE (old version)	2	3	4	5	6	7	8	9	10	11
upper	Verrucaria	Verrucaria	Verrucaria	Verrucaria	Verrucaria	Verrucaria	grasses & rushes			
	Enchytrorhiza	Enchytrorhiza	Enchytrorhiza	Enchytrorhiza	Enchytrorhiza	Enchytrorhiza	algae & vegeta-			
	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula			
	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus			
middle	Polyplex polymers	Mytilis californianus	Mytilis californianus	Mytilis troxulus*	Mytilis troxulus*	Mytilis troxulus*	no visible			
	Mytilis californianus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	microfauna			
		Utricularia spp.	Utricularia spp.	Utricularia spp.	Utricularia spp.	Utricularia spp.	due to sediment			
							mobility			
mid low	Atria margin morph	Hedophyllum setosum	Atria margin morph	Laminaria groenlandica	Laminaria groenlandica	Laminaria groenlandica				
		Phyllospadix scouleri		Atria marginata'	Atria marginata'	Atria marginata'				
				Lithothamnion	Lithothamnion	Lithothamnion				
lower	Lessonia littoralis			Laminaria saccharina	Laminaria saccharina	Laminaria saccharina				
				Atria marginata'	Atria marginata'	Atria marginata'				
				Lithothamnion	Lithothamnion	Lithothamnion				
subtidal	Nereocystis laevigata	Nereocystis laevigata	Nereocystis laevigata	Macrocystis integrifolia	Macrocystis integrifolia	Macrocystis integrifolia				
				Agarum spp.	Agarum spp.	Agarum spp.				
				Strongylocodium franciscanum	Strongylocodium franciscanum	Strongylocodium franciscanum				
				Zostera marina	Zostera marina	Zostera marina				

