

**Legend**

○	Unit Break Points
~~~~~	Undefined
Immobile Substrates	
1 - Bedrock - CC 1-20 - VE	6 - Sand & Gravel - CC 24-26, 32 - SP
2 - Bedrock - CC 1-20 - E	7 - Sand & Gravel - CC 24-26,32 - VP/P
3 - Bedrock/Boulder - CC 1-23, 32, 33 - SE	8 - Estuary or Sand/Mud - CC 27-31 - VP/SP
4 - Bedrock/Gravel - CC 1-23, 33 - SP	9 - Sediment - CC 21 - 30 - SE/E
5 - Bedrock/Gravel - CC 1-23,33 - P/V	10 - Bedrock or Sediment - CC 34 - VP/P/SP
Tidal Lagoon	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.
1 Rock Ramp, Wide	Sediment types have substrates that have little or no bedrock crossing out
2 Rock Platform, Wide	21 Gravel Flat, Wide
3 Rock Ramp, Narrow	22 Gravel Beach
4 Rock Ramp, Narrow	23 Sand & Gravel Flat
5 Rock Platform, Narrow	24 Sand & Gravel Flat or Fan, Narrow
6 Rampe with Gravel Beach, Wide	25 Sand Beach, Wide
7 Platform with Gravel Beach, Wide	26 Sand Beach, Fan
8 Rampe with Gravel Beach, Narrow	27 Sand Beach, Narrow
9 Rampe with Gravel Beach, Narrow	28 Sand Flat
10 Platform with Gravel Beach, narrow	29 Sand Beach, Narrow
11 Cliff with Sand and Gravel Beach, Wide	30 Clusters
12 Cliff with Sand and Gravel Beach, Wide	31 Clusters
13 Cliff with Sand and Gravel Beach, Narrow	32 Man-made, permeable
14 Cliff with Sand and Gravel Beach, Narrow	33 Man-made, impermeable
15 Rampe with Sand and Gravel Beach, Narrow	34 Channel
16 Rampe with Sand Beach, Wide	35 Tidal Lagoon
17 Rampe with Sand Beach, Wide	
18 Cliff with Sand Beach, Narrow	
19 Rampe 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 information,
- 2: assigns a bio-breakwave 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

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 (HA-BIO 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	2	3	4	5	6	7	8	9	10	11
old class										
upper	Vernonia	Vernonia	Vernonia	Vernonia	Vernonia	Vernonia	grasses & rushes			
	Enicornorpha	Enicornorpha	Enicornorpha	Enicornorpha	Enicornorpha	Enicornorpha	Salicornia			
							vegatation			
	Balanus glandula	Balanus glandula	Balanus glandula							
	Fucus distichus	Fucus distichus	Fucus distichus							
middle										
	Polyplex polymers	Mytilis californiensis	Mytilis californiensis	Mytilis californiensis	Mytilis californiensis	Mytilis californiensis	grasses & rushes			
	Mytilis californiensis	Mytilis californiensis	Salicornia							
	Semibalanus cariosus	Semibalanus cariosus	vegatation							
	Utricularia spp.	Utricularia spp.	Balanus glandula							
mid low										
	Hedophyllum setosum									
	Alaria marginata morph									
	Phyllospadix scouleri									
lower										
	Lessonia littoralis									
	Lithothamnion									
subtidal										
	Nereocystis luetkeana	Nereocystis luetkeana								
	Macrocystis integrifolia	Macrocystis integrifolia								
	Agarum spp.	Agarum spp.								
	Strongylocodium franciscanum	Strongylocodium franciscanum								
	Zostera marina	Zostera marina								

