



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	Type
Rock Shores - characterized by a lack of clastic sediments such as gravel or sand.	Sediment 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 Sand Beach, Wide
4 Rock Platform, Narrow	24 Sand and Gravel Flat or Fan, Wide
5 Rock Platform, narrow	25 Sand and Gravel Beach
Rock Shores - characterized by small pools of clastic sediments	26 Sand Beach, Narrow
6 Rampe with Gravel Beach, Wide	27 Sand Beach, Wide
7 Platform with Gravel Beach, Wide	28 Sand Flat
8 Rampe with Gravel Beach, Narrow	29 Sand Beach, Narrow
9 Platform with Gravel Beach, narrow	30 Littoral
10 Rampe with Gravel Beach, narrow	31 Estuaries
11 Cliff with Sand and Gravel Beach, Wide	32 Man-Made, permeable
12 Cliff with Sand and Gravel Beach, narrow	33 Man-Made, impermeable
13 Cliff with Sand Beach, Wide	34 Channel
14 Cliff with Sand Beach, narrow	35 Tidal Lagoon
15 Rampe with Sand and Gravel Beach, narrow	
16 Rampe with Sand Beach, Wide	
17 Rampe with Sand Beach, narrow	
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 for the biobands in the unit and looks for indicator species,

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

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 (HAB_OHS), for the Mid-coast BC study area, from Johnstone Strait/Central Coast Mapping Regions 5, 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	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						
COMMUNITY CODE	2	3	4	5						
old class										
upper	Verrucaria	Verrucaria	Verrucaria	Verrucaria	Verrucaria	Verrucaria	Verrucaria	grasses & rushes		
	Enteromorpha	Enteromorpha	Enteromorpha	Enteromorpha	Enteromorpha	Enteromorpha	Enteromorpha	algae & seagrass		
	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	vegatation		
	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus			
middle										
	Peltigera polymorpha	Mytilis californianus	Mytilis californianus	Mytilis californianus	Mytilis californianus	Mytilis californianus	Mytilis californianus	grass & rushes		
	Mytilus californianus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	algae & seagrass		
		Utricularia spp.	Utricularia spp.	Utricularia spp.	Utricularia spp.	Utricularia spp.	Utricularia spp.	vegatation		
mid low										
	Hedophyllum setosum	Azolla margin. morph	Laminaria groenlandica	Laminaria saccharina	Laminaria groenlandica	Laminaria saccharina	Laminaria saccharina	no visible macrofauna due to sediment mobility		
	Phyllospadix scouleri	Lithothamnion	Azolla margin. morph	Azolla margin. morph	Azolla margin. morph	Azolla margin. morph	Azolla margin. morph			
lower										
	Lessonia littoralis		Lithothamnion	Lithothamnion	Lithothamnion	Lithothamnion	Lithothamnion			
subtidal										
	Nereocystis luetkeana	Macrocystis integrifolia	Macrocystis integrifolia	Macrocystis integrifolia	Nereocystis luetkeana	Macrocystis integrifolia	Macrocystis integrifolia			
		Agarum spp.	Agarum spp.	Agarum spp.		Agarum spp.	Agarum spp.			
		Strongylocodium franciscanum	Strongylocodium franciscanum	Strongylocodium franciscanum		Strongylocodium franciscanum	Strongylocodium franciscanum			
		Zostera marina	Zostera marina	Zostera marina		Zostera marina	Zostera marina			

