



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/V	
<b>Tidal Lagoon</b>	
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	
<b>Mobile/Partially Mobile Substrates</b>	
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	
<b>Rock Shores</b> characterized by a lack of clastic sediments such as gravel or sand.	
1 - Bare Rock, Wide	
2 - Rock Platform, Wide	
3 - Rock Platform, Narrow	
4 - Rock Ramp, Narrow	
5 - Rock Platform, Narrow	
6 - Bare Rock, Patches of clastic sediments	
7 - Platform with Gravel Beach, Wide	
8 - Platform with Gravel Beach, Narrow	
9 - Bare Rock with Gravel Beach, Narrow	
10 - Platform with Gravel Beach, narrow	
11 - Bare Rock with Gravel Beach, Wide	
12 - Platform with Sand and Gravel Beach, Wide	
13 - Cliff with Sand and Gravel Beach	
14 - Bare Rock, Very narrow	
15 - Platform with Sand and Gravel Beach, Narrow	
16 - Bare Rock with Sand Beach, Wide	
17 - Bare Rock with Sand Beach, Narrow	
18 - Cliff with Sand Beach, Wide	
19 - Bare Rock 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 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 for the biobands in the unit and looks for indicator species,

2. assigns a bio-breakage 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, 6 and 7.

SUBSTRATE STABILITY	IMMOBILE SUBSTRATES				MOBILE OR PARTIALLY MOBILE SUBSTRATES				CURRENT DOMINATED	TIDAL LAGOON
	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						
upper	Verrucaria	Verrucaria	Verrucaria	Verrucaria						
	Enteromorpha	Enteromorpha	Enteromorpha	Enteromorpha						
	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula						
	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus						
middle	Palicourea polymorpha	Mytilis californiana	Mytilis californiana	Mytilis californiana						
	Mytilis californiana	Mytilis californiana	Mytilis californiana	Mytilis californiana						
	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus						
	Utricularia spp.	Utricularia spp.	Utricularia spp.	Utricularia spp.						
mid low	Aleuria lutescens	Hedophyllum sente	Laminaria groenlandica	Laminaria saccharina						
	Phyllospadix scouleri		Alaria marginata	Alaria marginata						
	Lithothamnion		Lithothamnion	Lithothamnion						
lower	Leptoclinides littoralis		Laminaria groenlandica	Laminaria saccharina						
			Alaria marginata	Alaria marginata						
			Striolaria franciscana	Striolaria franciscana						
subtidal	Neorocystis 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						

