



Legend

○	Unit Break Points
~~~~~	Undefined
Immobile Substrates	
1 - Bedrock - CC 1-20 - VE	6 - Sand & Gravel - CC 24-26, 32 - SP
2 - Bedrock - CC 21-20 - 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/VP	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 Ramp, Wide	21 Gravel Flat, Wide
2 Rock Platform, Wide	22 Gravel Beach
3 Rock Ramp, Narrow	23 Sand Beach, Wide
4 Rock Ramp, Narrow	24 Sand and Gravel Flat or Fan, Wide
5 Rock Platform, Narrow	25 Sand and Gravel Flat or Fan, Narrow
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 Sand and Gravel Beach, Wide	31 Cliffs
12 Cliff with Sand and Gravel Beach, Wide	32 Man-made, permeable
13 Cliff with Sand and Gravel Beach, Wide	33 Man-made, impermeable
14 Cliff with Sand and Gravel Beach, narrow	34 Channel
15 Platform with Sand and Gravel Beach, narrow	35 Tidal Lagoon
16 Rampe with Sand Beach, Wide	
17 Rampe with Sand Beach, Wide	
18 Rampe 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-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	
	MAJOR SUBSTRATE	BEDROCK	BEDROCK/BOULDER	BEDROCK/GRAVEL	BEDROCK/GRAVEL	SAND & GRAVEL	SAND & GRAVEL	SANDMUD	SEDIMENT	BEDROCK OR SEDIMENT	BEDROCK OR SEDIMENT
COASTAL CLASSES	1-20	1-23, 32, 33	1-23, 33	1-23, 33	24 - 30, 32	24 - 30, 32	24 - 30, 31	no SAL band	24-30	34	35
EXPOSURE	E	SE	SP	VP, P	SP	VP, P	VP, P, SP	SP	SE, E	VP, P, SP	VP, P, SP
COMMUNITY CODE	2	3	4	5	6	7	8	9	10	11	
old class											
upper	Verrucaria	Verrucaria	Verrucaria	Verrucaria	Verrucaria	Verrucaria	Verrucaria	grasses & rushes			
	Environomyces	Environomyces	Environomyces	Environomyces	Environomyces	Environomyces	Environomyces	Salicornia			
	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	Balanus glandula			
								Fucus distichus			
middle	Peltigera polymorpha	Mytilis californianus	Mytilis californianus	Mytilis californianus	Mytilis californianus	Mytilis californianus	Mytilis californianus	Mytilis troxulus			
	Mytilus californianus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	Utricularia spp.	Utricularia spp.	Utricularia spp.	Utricularia spp.
								Utricularia spp.	Utricularia spp.	Utricularia spp.	Utricularia spp.
mid low	Aleuria nemor morph	Hedophyllum sente									
		Phyllospadix scouleri									
lower	Leptosiphon littoralis		Laminaria groenlandica	Laminaria saccharina	Laminaria saccharina	Laminaria groenlandica	Laminaria saccharina				
				Alaria marginata morph	Alaria marginata morph		Alaria marginata morph				
				Lithothamnion	Lithothamnion		Lithothamnion				
subtidal	Nereocystis laevigata		Nereocystis laevigata	Micrometra integrifolia	Micrometra integrifolia	Nereocystis laevigata	Micrometra integrifolia	Agarum spp.			
				Agarum spp.	Agarum spp.		Agarum spp.				
				Strongylocentrotus franciscanus	Strongylocentrotus franciscanus		Strongylocentrotus franciscanus	Zostera marina	Zostera marina	Zostera marina	Zostera marina

