



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/VP
- Tidal Lagoon**
 - 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

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

Rock Shores characterized by a lack of clastic sediments such as gravel or sand.

CC	Type	Type
Rock Shores	characterized by a lack of clastic sediments such as gravel or sand.	have substrates that have little or no bedrock crossing out
1	Ramp, Wide	21 - Gravel Flat, Wide
2	Rock Platform, Wide	22 - Gravel Beach
3	Rock Ramp, Flat	23 - Sand & Gravel
4	Rock Ramp, Narrow	24 - Sand & Gravel Flat or Fan, Narrow
5	Rock Platform, Narrow	25 - Sand & Gravel Beach
6	Rock Ramp with Gravel Beach, Wide	26 - Sand Beach
7	Platform with Gravel Beach, Wide	27 - Sand Beach, Wide
8	Platform with Gravel Beach, Flat	28 - Sand
9	Platform with Gravel Beach, Narrow	29 - Sand Beach, Narrow
10	Platform with Gravel Beach, narrow	30 - Clusters
11	Cliff with Sand & Gravel Beach, Wide	31 - Clusters
12	Cliff with Sand & Gravel Beach, Flat	32 - Clusters
13	Cliff with Sand & Gravel Beach, Narrow	33 - Clusters
14	Cliff with Sand & Gravel Beach, Very narrow	34 - Channel, permeable
15	Platform with Sand & Gravel Beach, Narrow	35 - Total Lagoon
16	Platform with Sand Beach, Wide	
17	Platform with Sand Beach, Flat	
18	Cliff with Sand Beach, Wide	
19	Cliff 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 the biobands, 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 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	SAND/MUD	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	no SAL band	24-30	34
EXPOSURE	E	SE	SP	VP, P	SP	VP, P	VP, P, SP	SE, E	VP, P, SP	VP, P, SP	35
COMMUNITY CODE	2	3	4	5	6	7	8	9	10	11	
old class											
upper	Verrucaria	Verrucaria	Verrucaria	Verrucaria	Verrucaria	Verrucaria	Verrucaria	grasses & rushes			
	Enchytridion	Enchytridion	Enchytridion	Enchytridion	Enchytridion	Enchytridion	Enchytridion	algae & vegeta			
	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	vegat			
	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus				
middle	Polyplex polymers	Mytilis californiana	Mytilis californiana	Mytilis californiana	Mytilis californiana	Mytilis californiana	Mytilis californiana	no visible			
	Mytilis californiana	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	Utricularia spp.	Utricularia spp.	microfota			
						Utricularia spp.	Utricularia spp.	due to sediment			
								mobility			
mid low	Hedophyllum setosum	Aleuria marginata	Laminaria groenlandica	Laminaria saccharina	Laminaria saccharina						
	Phyllospadix scouleri	Aleuria marginata	Laminaria groenlandica	Aleuria marginata	Aleuria marginata						
			Laminaria groenlandica	Laminaria saccharina	Laminaria saccharina						
lower	Lessonia littoralis	Aleuria marginata	Laminaria groenlandica	Aleuria marginata	Aleuria marginata						
	Lithothamnion	Lithothamnion	Lithothamnion	Lithothamnion	Lithothamnion						
subtidal	Neorocystis laevigata	Macrocystis integrifolia	Macrocystis integrifolia	Macrocystis integrifolia	Macrocystis integrifolia						
		Agarum spp.	Agarum spp.	Agarum spp.	Agarum spp.						
		Strongylocodium franciscanum	Strongylocodium franciscanum	Strongylocodium franciscanum	Strongylocodium franciscanum						
		Zostera marina	Zostera marina	Zostera marina	Zostera marina						

