

**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**

CC	Type	CC	Type
Rock Shores	characterized by a lack of clastic sediments such as gravel or sand.	Sediment shores	shores that have substrates that have little or no bedrock crossing out
1 Rock Ram, Wide	2 Rock Platform, Wide	21 Gravel Flat, Wide	22 Gravel Beach
2 Rock Ram, Narrow	3 Rock Platform, Narrow	23 Gravel Flat or Fan, Narrow	24 Gravel Beach
3 Rock Ram, Narrow	4 Rock Platform, Narrow	25 Sand Beach, Wide	26 Sand Beach, Narrow
4 Rock Ram, Wide	5 Rock Platform, Wide	27 Sand Beach, Wide	28 Sand Beach, Narrow
5 Rock Ram, and pockets of clastic sediments	6 Ram with Gravel Beach, Wide	29 Sand Beach, Narrow	30 Sand Beach, Narrow
6 Ram with Gravel Beach, Wide	7 Platform with Gravel Beach, Wide	31 Clusters	
7 Platform with Gravel Beach, Narrow	8 Platform with Gravel Beach, Narrow		
8 Platform with Gravel Beach, Narrow	9 Platform with Gravel Beach, Narrow		
9 Platform with Gravel Beach, Narrow	10 Platform with Gravel Beach, Narrow		
10 Platform with Gravel Beach, Narrow	11 Ram with Gravel Beach, Wide		
11 Ram with Gravel Beach, Wide	12 Platform with Sand and Gravel Beach, Wide		
12 Platform with Sand and Gravel Beach, Wide	13 Cliff with Sand and Gravel Beach		
13 Cliff with Sand and Gravel Beach	14 Ram with Sand and Gravel Beach, Wide		
14 Ram with Sand and Gravel Beach, Wide	15 Ram with Sand and Gravel Beach, Narrow		
15 Ram with Sand and Gravel Beach, Narrow	16 Ram with Sand Beach, Wide		
16 Ram with Sand Beach, Wide	17 Ram with Sand Beach, Narrow		
17 Ram with Sand Beach, Narrow	18 Cliff with Sand Beach, Narrow		
18 Cliff with Sand Beach, Narrow	19 Ram with Sand Beach, Narrow		
19 Ram 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,
- 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

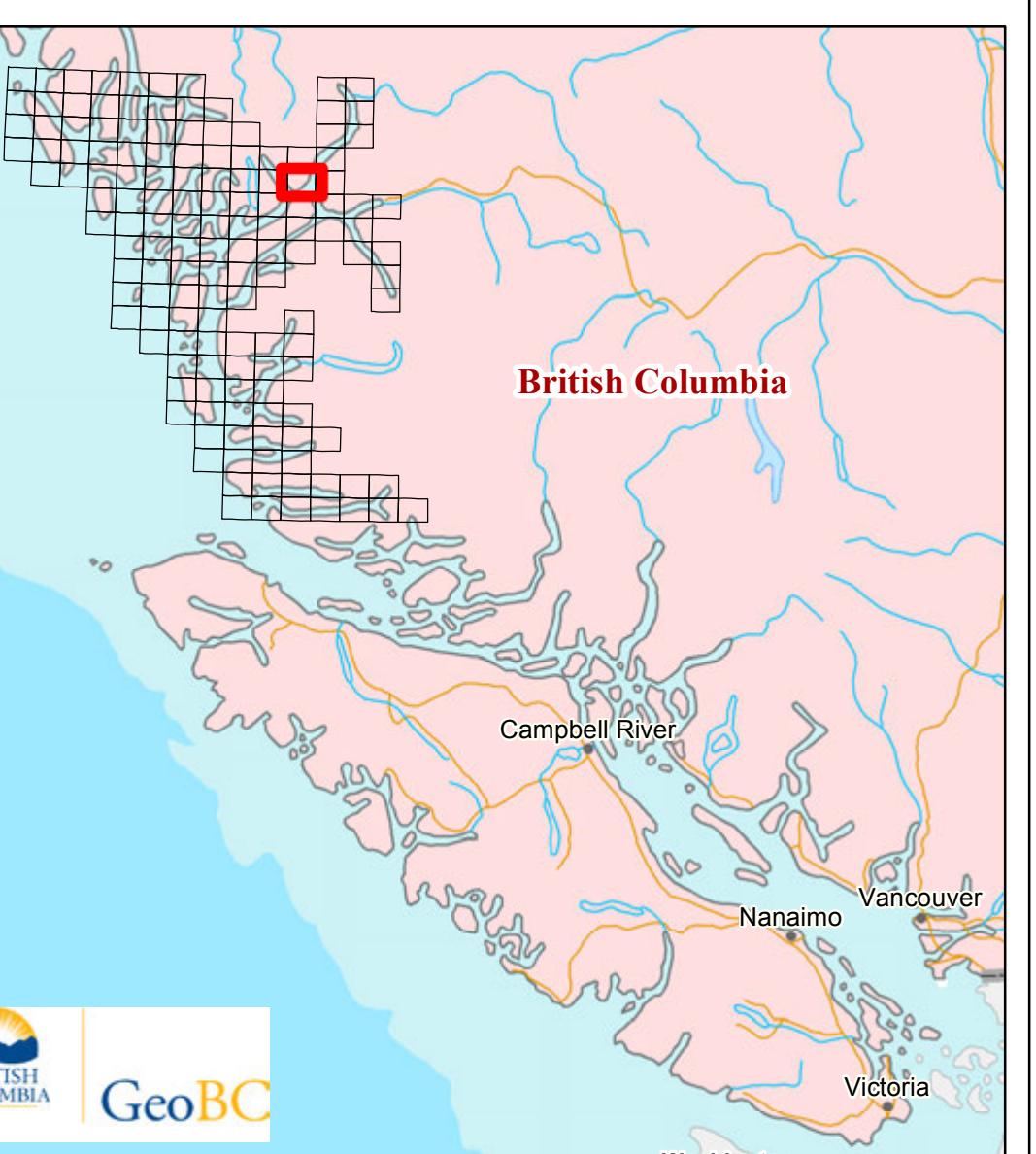
P - Protected - Low wave exposure, sheltered inlets, usually fetches less than 10km

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\_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, no SAL band	24 - 30, 32, no SAL band	24 - 30, 31, has SAL band	24-30	35		
EXPOSURE	E	SE	SP	VP, P	SP	VP, P	VP, P, SP	SE, E	VP, P, SP	VP, P, SP	
COMMUNITY CODE	old 100m	2	3	4	5	6	7	8	9	10	11
upper	Vernonia	Vernonia	Vernonia	Vernonia	Vernonia	Vernonia	Vernonia	grasses & rushes			
		Enicornorpha	Enicornorpha	Enicornorpha				Salicornia			
			Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	Vegetation			
			Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus				
middle	Palicourea polymorpha	Mytilis californianus	Mytilis californianus	Mytilis californianus	Mytilis californianus	Mytilis californianus	Mytilis californianus	grass & rushes			
								Salicornia			
		Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	Vegetation			
mid low		Utricularia	Utricularia	Utricularia	Utricularia	Utricularia	Utricularia	Utricularia	Utricularia	Utricularia	Utricularia
		Utricularia	Utricularia	Utricularia	Utricularia	Utricularia	Utricularia	Utricularia	Utricularia	Utricularia	Utricularia
lower											
subtidal											



British Columbia  
Campbell River  
Nanaimo  
Victoria  
Washington

GeoBC