

#### Legend

○	Unit Break Points
○	Undefined
<b>Immobile Substrates</b>	
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/VP	
<b>Tidal Lagoon</b>	
11 - Bedrock or Sediment - CC 35 - VP/P/SP	
<b>CC</b>	<b>Type</b>
Rock Shores	characterized by a lack of clastic sediments such as gravel or sand.
Rock Shores	Substrate types - have substrates that have little or no bedrock crossing out
1 Rock Ramp, Wide	1 Gravel Flat, Wide
2 Rock Platform Wide	2 Gravel Beach
3 Rock Ramp, Narrow	3 Gravel Flat or Fan, Narrow
4 Rock Ramp, Narrow	4 Gravel Flat or Fan, Wide
5 Rock Platform Narrow	5 Gravel Beach
6 Ram with Gravel Beach, Wide	6 Gravel Beach, Wide
7 Ram with Gravel Beach, Wide	7 Gravel Beach, Wide
8 Ram with Gravel Beach, Narrow	8 Gravel Beach, Narrow
9 Ram with Gravel Beach, Narrow	9 Gravel Beach, Narrow
10 Ram with Gravel Beach, narrow	10 Gravel Beach, Narrow
11 Ram with Gravel Beach, narrow	11 Gravel Beach, narrow
12 Platform with Sand and Gravel Beach, Wide	12 Gravel, permeable
13 Platform with Sand and Gravel Beach, Wide	13 Gravel, impermeable
14 Cliff with Sand and Gravel Beach, Wide	14 Channel
15 Ram with Sand and Gravel Beach, narrow	15 Total Lagoon
16 Ram with Sand Beach, Wide	
17 Ram with Sand Beach, Wide	
18 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 biobands in the unit and looks for indicator species,

2. assigns a bio-draw (wave exposure) map,

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

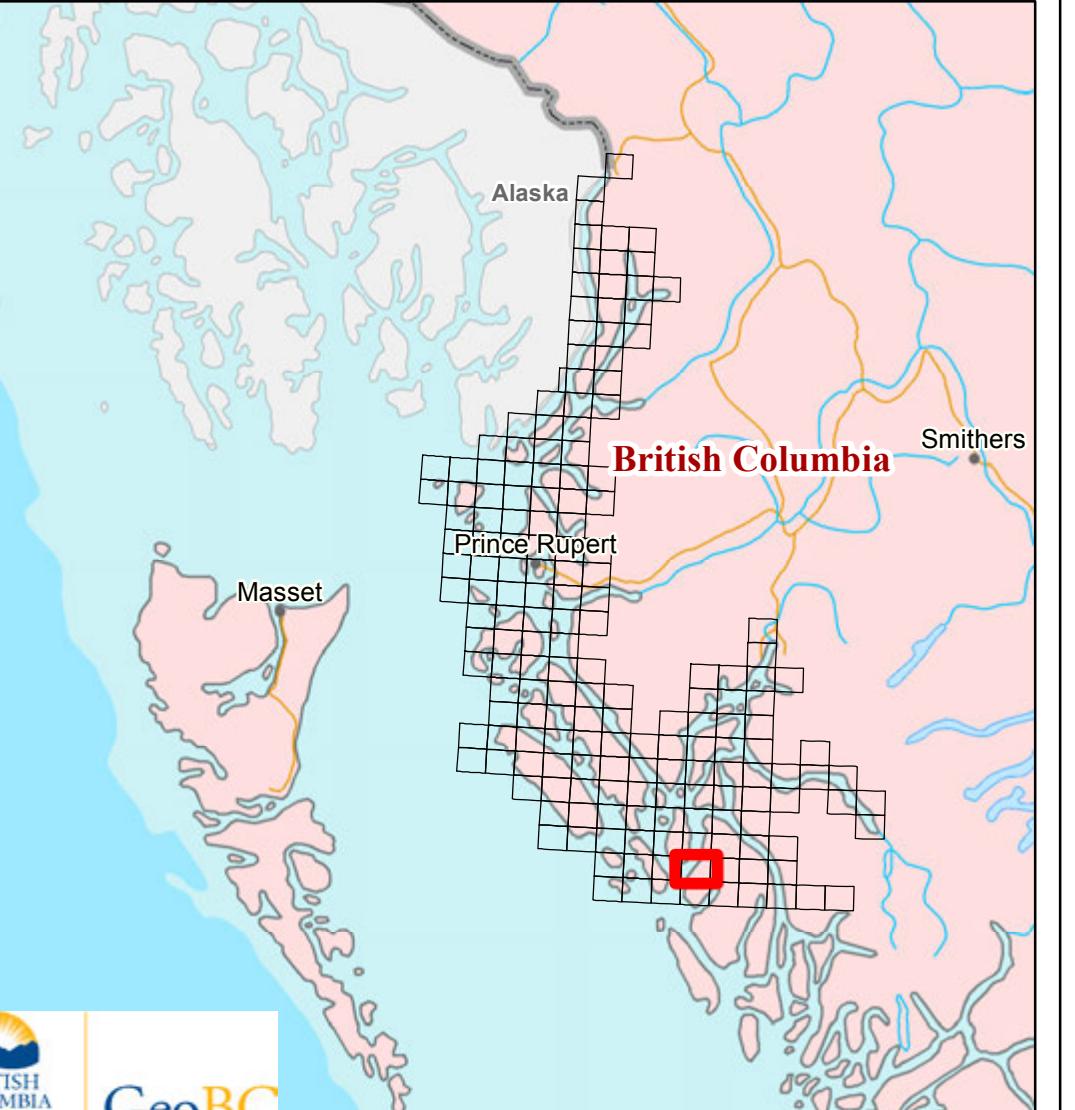
P - Protected - Low wave exposure, sheltered inlets, usually fetches less than 10km

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	SP	VP, P	VP, P, 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	grasses & rushes			
	Enteromorpha	Enteromorpha	Enteromorpha	Enteromorpha	Enteromorpha	Enteromorpha	algae			
	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	grass & rushes			
middle	Palicourea polymorpha	Mytilis californianus	Mytilis californianus	Mytilis trostulus *	Mytilis trostulus *	Mytilis trostulus *				
	Mytilis californianus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	algae			
		Utricularia spp.	Utricularia spp.	Utricularia spp.	Utricularia spp.	Utricularia spp.	vegatation			
mid low	Aleuria nonne morph	Hedophyllum sente	Phyllospadix scouleri	Lithothamnion	Laminaria groenlandica	Laminaria saccharina	Laminaria saccharina			
					Alaria marginata morph	Alaria marginata morph	Alaria marginata morph			
lower	Lesonotus littoralis				Lithothamnion	Lithothamnion	Lithothamnion			
subtidal	Nereocystis luetkeana	Marecaites integrifolia	Marecaites integrifolia	Macrocystis integrifolia	Nereocystis luetkeana	Marecaites integrifolia	Macrocystis integrifolia			
		Agardhiella spp.	Agardhiella spp.	Agardhiella spp.		Agardhiella spp.	Agardhiella spp.			
		Strongylocodium franciscanum	Strongylocodium franciscanum	Strongylocodium franciscanum		Strongylocodium franciscanum	Strongylocodium franciscanum			
		Zoster marina	Zoster marina	Zoster marina		Zoster marina	Zoster marina			



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