

Data Source:
Shoreline Type
GeoBC Coastal Resource Shorezone Database, 2008
Base Information
1:20,000 GeoBC Terrain Resource Information
Management (TRIM) Database

1:20,000

N
W E S

0 0.25 0.5 1

Kilometers

Legend

- | | | | |
|--|---|--|-------------------------------------|
| ○ | Unit Break Points | Mobile/Partially Mobile Substrates | |
| | Undefined | 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/P/SP
9 - Sediment - CC 21 - 30 - SE/E | |
| Immobile Substrates | | Current Dominated | |
| 1 - Bedrock - CC 1-20 - VE | | 10 - Bedrock or Sediment - CC 34 - VP/P/SP | |
| 2 - Bedrock - CC 1-20 - E | | Tidal Lagoon | |
| 3 - Bedrock/Boulder - CC 1-23, 32, 33 - SE | | 11 - Bedrock or Sediment - CC 35 - VP/P/SP | |
| 4 - Bedrock/Gravel - CC 1-23, 33 - SP | | | |
| 5 - Bedrock/Gravel - CC 1-23,33 - P/VP | | | |
| CC | Type | CC | Type |
| Rock Shore Types - characterized by a lack of clastic sediments such as gravel or sand. | | Sediment Shore Types - have substrates that have little or no bedrock cropping or exposure. | |
| 1 | Rock Ramp, Wide | 21 | Gravel Flat, Wide |
| 2 | Rock Platform Wide | 22 | Gravel Beach |
| 3 | Rock Cliff Narrow | 23 | Gravel Flat or Fan |
| 4 | Rock Ramp, Narrow | 24 | Sand and Gravel Flat or Fan, Wide |
| 5 | Rock Platform Narrow | 25 | Sand and Gravel Beach |
| Rock and Sediment Shore Types - rock and pockets of clastic sediments | | 26 | Sand and Gravel Flat or Fan, Narrow |
| 6 | Ramp with Gravel Beach, Wide | 27 | Sand Beach, Wide |
| 7 | Platform with Gravel Beach, Wide | 28 | Sand Flat |
| 8 | Cliff with Gravel Beach | 29 | Mud Flat |
| 9 | Ramp with Gravel Beach, Narrow | 30 | Sand Beach, Narrow |
| 10 | Platform with Gravel Beach, Narrow | 31 | Estuaries |
| 11 | Ramp with Sand and Gravel Beach, Wide | Man-Made Materials | |
| 12 | Platform with Sand and Gravel Beach, Wide | 32 | Man-made, permeable |
| 13 | Cliff with Sand and Gravel Beach | 33 | Man-made, impermeable |
| 14 | Ramp with Sand and Gravel Beach, Narrow | Current Dominated | |
| 15 | Platform with Sand and Gravel Beach, Narrow | 34 | Channel |
| 16 | Ramp with Sand Beach, Wide | 35 | Tidal Lagoon |
| 17 | Platform with Sand Beach, Wide | | |
| 18 | Cliff with Sand Beach | | |

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.

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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, a

To determine the habitat type, the biomapper looks at the along-shore units as designated and described by the physical mapper, a
1.□ records the observations of the biobands in the unit and looks for indicator species,
2.□ assigns a bio (wave) exposure category.

- 2.□ assigns a bio-(ware) 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

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 biota observed

- the biobands observed,
- the wave exposure as indicated by the bands, and

- the wave exposure as indicated by the bands, and
- the substrate types in the unit.

Legend Definitions
CC = Coastal Classification number

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Wave Exposure
E - Exposed - Very high wave exposure, open ocean swellsm usually fetches >500km

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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

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
GP - Great Protection - Major bays, inlets, estuaries, sheltered from all but the largest swells, fetches less than 50km

Table WCVI_GOES WITH BIO AREAS WCVI, SCVI, WCVINorth, JdF
Habitat Classification for “Exposure Bio” (EXP_BIO) and “Habitat Observed” (HAB_OBS) based on visible macro-biota assemblages for the West Coast Vancouver Island bio-mapping.

MAJOR SUBSTRATE	BEDROCK/BOULDER	BEDROCK/BOULDER	BEDROCK/BOULDER	BEDROCK/BOULDER	SAND & GRAVEL	SAND & GRAVEL	SAND/MUD	SEDIMENT	BEDROCK OR SEDIMENT
COASTAL CLASSES	1-20	1-20	1-23, 32, 33	1-23, 33	24, 25, 26, 32	24, 25, 26, 32	27, 28, 29, 30, 31	24 - 30	
EXPOSURE (EXP BIO)	E	SE	SP	P, VP	SP	P, VP	SP, P, VP	SE, E	VP, P, SP
HABITAT OBSERVED (HAB_OBS)	2	3 *	4	5	6	7	8	9	10
upper	<i>Verrucaria</i>	<i>Verrucaria</i>	<i>Verrucaria</i>	<i>Verrucaria</i>	<i>Verrucaria</i>	<i>Verrucaria</i>	marsh grasses & rushes		
	<i>Enteromorpha</i>	<i>Enteromorpha</i>	<i>Enteromorpha</i>	<i>Enteromorpha</i>	<i>Enteromorpha</i>	<i>Enteromorpha</i>			
	<i>Balanus glandula</i>	<i>Balanus glandula</i>	<i>Balanus glandula</i>	<i>Balanus glandula</i>	<i>Balanus glandula</i>	<i>Balanus glandula</i>	<i>Salticornia virginica</i>		
	<i>Peltvetiopsis limitata</i>	<i>Fucus distichus</i>	<i>Fucus distichus</i>	<i>Fucus distichus</i>	<i>Fucus distichus</i>	<i>Fucus distichus</i>	<i>Balanus glandula</i>		
middle	<i>Semibalanus cariosus</i>	<i>Semibalanus cariosus</i>	<i>Semibalanus carriosus</i>		<i>Semibalanus carriosus</i>		<i>Fucus distichus</i>		
	<i>Pollicipes polymerus</i>		<i>Mytilus trossulus</i>	<i>Mytilus trossulus</i>	<i>Mytilus trossulus</i>	<i>Mytilus trossulus</i>	<i>Mytilus trossulus</i>		
			<i>Ulva/ Ulvaria spp.</i>	<i>Ulva/ Ulvaria spp.</i>	<i>Ulva/ Ulvaria spp.</i>	<i>Ulva/ Ulvaria spp.</i>	<i>Ulva/ Ulvaria spp.</i>		
mid/low	<i>Mytilus californianus</i>	<i>Mytilus californianus</i>							
		<i>Microcladia/Iridaea type mixed reds</i>	<i>Gigartina/Odonthalia type mixed reds</i>						
	<i>Postelsia palmaeformis</i>								
		<i>Hedophyllum sessile</i>							
		<i>Codium fragile</i>	<i>Codium fragile</i>		<i>Codium fragile</i>				
lower	<i>Lessoniopsis littoralis</i>		<i>Laminaria saccharina</i>	<i>Laminaria saccharina</i>	<i>Laminaria saccharina</i>	<i>Laminaria saccharina</i>			
		<i>Egregia menziesii</i>							
	<i>Laminaria setchellii</i>								
		<i>Laminaria groenlandica</i>	<i>Laminaria groenlandica</i>		<i>Laminaria groenlandica</i>				
	<i>Alaria nana</i>	<i>Alaria marginata</i>	<i>Alaria marginata</i>		<i>Alaria marginata</i>				
		<i>Eisenia arborea</i>							
	<i>Lithothamnion</i>	<i>Lithothamnion</i>			<i>Lithothamnion</i>				
			<i>Sargassum muticum</i>		<i>Sargassum muticum</i>				
			<i>Agarum sp</i>	<i>Agarum sp</i>	<i>Agarum sp</i>	<i>Agarum sp</i>	<i>Agarum sp</i>		
subtidal		<i>Phyllospadix scouleri</i>							
		<i>Macrocystis integrifolia</i>	<i>Macrocystis integrifolia</i>	<i>Macrocystis integrifolia</i>	<i>Macrocystis integrifolia</i>	<i>Macrocystis integrifolia</i>			
	<i>Nereocystis luetkeana</i>	<i>Nereocystis luetkeana</i>	<i>Nereocystis luetkeana</i>		<i>Nereocystis luetkeana</i>				
		<i>Stronciula tentaculata</i>	<i>Stronciula tentaculata</i>		<i>Stronciula tentaculata</i>				

