Data Source:

Legend

Undefined

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

0 0.25 0.5

1:20,000 W Kilometers Mobile/Partially Mobile Substrates • Unit Break Points 6 - Sand & Gravel - CC 24-26, 32 -SP 7 - Sand & Gravel - CC 24-26,32 - VP/P Immobile Substrates 8 - Estuary or Sand/Mud - CC 27-31 - VP/P/SP 1 - Bedrock - CC 1-20 - VE features. ✓ 9 - Sediment - CC 21 - 30 - SE/E 2 - Bedrock - CC 1-20 - E biobands and indictor species present at a bedrock shoreline with no mobile sediment present. 3 - Bedrock/Boulder - CC 1-23, 32, 33 - SE **Current Dominated** How is Habitat Type determined? 2. assigns a bio-(wave) exposure category, 3. reviews the physical mapped information, and 4. assigns the Habitat Type that best describes the unit.

	1	1 - Bedrock or Sediment - CC 35 - VP/P/SP
Туре	CC	Туре
k Shore Types - characterized by a lack of clastic sediments such as gravel or sand.	Sed	ment Shore Types - have substrates that have little or no bedcrock cropping out
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
k 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	Mai	-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	Cur	ent 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		
19 Ramp with Sand Beach, Narrow		
20 Platform with Sand Beach, Narrow		

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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 biologial and geomorphological 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

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. records the observations of the biobands in the unit and looks for indicator species,

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 biobands observed,

 □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 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 expsoure, sheltered inlets, usually fetches less than 10km SP - Semi Protected - Moderate wave expsoure, partly sheltered, usually fetches 10-50km VP - Very Protected - Very low wave exposure, fethces < 1km, sheltered anchorages at heads of bays and inletes

Table MIDCO The Species/ w	AST and NORTH C vave exposure/ subst	COAST project area w trate table for Habitat	which includes BIO_AF t Classification (HAB_0	REAS CC, JS and NC OBS)., for the Mid-co	ast BC study area, fro	om Johnstone Strait/G	Central Coast Ma	pping Region	is 5, 6 and 7.	
SUBSTRATE STABILITY	IMMOBILE SUBSTRATES				MOBILE OR PARTIALLY MOBILE SUBSTRATES				CURRENT- DOMI- NATED	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	34	35
EXPOSURE (EXP BIO)	E	SE	SP	VP, P	SP	VP, P	VP, P, SP	SE, E	VP, P, SP	VP, P, SP
COMMUNITY CODE (HAB OBS)	2	3	4	5	6	7	8	9	10	11
upper	Verrucaria Balanus glandula	Verrucaria Enteromorpha Balanus glandula	Verrucaria Enteromorpha Balanus glandula	Verrucaria Enteromorpha Balanus glandula	Verrucaria Enteromorpha Balanus glandula	Verrucaria Enteromorpha Balanus glandula	grasses & rushes Salicornia virginica Balanus glandula			Balanus glandula
middle	Pollicipes polymerus Mytilus californianus Semibalanus carriosus	Fucus distichus Mytilus californianus Semibalanus carriosus	Fucus distichus Mytilus trossulus* Semibalanus carriosus Ulva/ Ulvaria spp.	Fucus distichus Mytilus trossulus * Ulva/ Ulvaria spp.	Fucus distichus Semibalanus carriosus Ulva/ Ulvaria spp.	Fucus distichus Ulva/ Ulvaria spp.	Fucus distichus Mytilus trossulus* Ulva/ Ulvaria	no visible macrobiota due to sediment mobility	tidal current dominated; may be a Protected wave exposure but shows an assemblage of	Fucus distichus
mid/low	Alaria 'nana' morph	Hedophyllum sessile Phyllospadix scouleri]	indicator species from higher wave exposures. Assemblage	narrow intertidal and a reduced biota in brackish water, may have
lower	Lessoniopsis littoralis Lithothannion	Alaria 'marginata' morph Lithothamnion	Laminaria groenlandica Laminaria saccharina Alaria 'marginata' morph Lithothamnion	Laminaria saccharina	Laminaria groenlandica Laminaria saccharina Alaria 'marginata' morph Lithothamnion	Laminaria saccharina			observed is 'anomalous' for the wave energy of the site.	associated current dominated at outflow
subtidal	Nereocystis luetkeana	Nereocystis luetkeana Macrocystis integrifolla Agarum spp. Strongylocentrotus franciscanus	Nereocystis luetkeana Macrocystis integrifolia Agarum spp. Strongylocentrotus franciscanus Zostera marina	Macrocystis integrifolia Agarum spp. Zostera marina	Nereocystis luetkeana Macrocystis integrifolia Agarum spp. Strongylocentrotus franciscanus Zostera marina	Macrocystis integrifolia Agarum spp. Zostera marina	Zostera marina			





