Base Information 1:20,000 GeoBC Terrain Resource Information Management (TRIM) Database 1:20,000 W 0 0.25 0.5 Kilometers Legend Mobile/Partially Mobile Substrates Unit Break Points 6 - Sand & Gravel - CC 24-26, 32 -SP Undefined 7 - Sand & Gravel - CC 24-26,32 - VP/P Immobile Substrates

1 - Bedrock - CC 1-20 - VE ✓ 9 - Sediment - CC 21 - 30 - SE/E 2 - Bedrock - CC 1-20 - E

Data Source: Shoreline Type

GeoBC Coastal Resource Shorezone Database, 2008

- 8 Estuary or Sand/Mud CC 27-31 VP/P/SP
- 3 Bedrock/Boulder CC 1-23, 32, 33 SE **Current Dominated**
- 10 Bedrock or Sediment CC 34 VP/P/SP 4 - Bedrock/Gravel - CC 1-23, 33 - SP

5 - Bedrock/Gravel - CC 1-23,33 - P/VP 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 bedcrock cropping out 1 Dack Rome Wide Rock Shore Types - characterized by a fack of clastic sediments such as graved and the sediment sediment sediments such as graved and sediment 21 Gravel Flat, Wide 22 Gravel Beach 23 Gravel Flat or Fan 24 Sand and Gravel Flat or Fan, Wide 25 Sand and Gravel Beach 26 Sand and Gravel Beach 26 Sand and Gravel Flat or Fan, Narrow 27 Sand Beach, Wide 6 Ramp with Gravel Beach, Wide 7 Platform with Gravel Beach, Wide 28 Sand Flat 8 Cliff with Gravel Beach 9 Ramp with Gravel Beach, Narrow 10 Platform with Gravel Beach, Narrow 11 Ramp with Sand and Gravel Beach, Wide 12 Platform with Sand and Gravel Beach, Wide 13 Cliff with Sand and Gravel Beach 14 Ramp with Sand and Gravel Beach, Narrow 15 Platform with Sand and Gravel Beach, Narrow 29 Mud Flat 29 Mud Flat 30 Sand Beach, Narrow 31 Estuaries Man-Made Materials 32 Man-made, permeable 33 Man-made, impermeable Current Dominated Current Dominated 15 Platform with Sand and Gravel Beach, Narrow 16 Ramp with Sand Beach, Wide 17 Platform with Sand Beach, Wide 18 Cliff with Sand Beach 19 Ramp with Sand Beach, Narrow 20 Platform with Sand Beach, Narrow 34 Channel 35 Tidal Lagoon

features.

• the biobands observed,

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

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SUBSTRATE STABILITY	IMMOBILE SUBST							
MAJOR SUBSTRATE	BEDROCK	BEDROCK	BEDROCK/BOULDER					
COASTAL CLASSES	1-20	1-20	1-23, 32, 33					
EXPOSURE (EXP BIO)	VE	E	SE SE					
COMMUNITY CODE (HAB_OBS)	1	2	3					
upper	Verrucaria	Vernucaria	Verrucaria Enteromorpha					
	Balanus glandula	Balanus giandula	Balanus glandula Fucus distichus					
middle	Pollicipes polymerus Mytilus californianus	Pollicipes polymerus Mytilus californianus	Mytilus californianus					
	[Semibalanus carriosus]	Semibalanus carriosus	Semibalanus carriosus					
mid/low	[Alaria 'nana' morph]	<i>Alaria 'nana'</i> morph	Halosaccion glandiforme Hedophyllum sessile Codium fragile Phyllospadix scouleri					
lower	Lessoniopsis littoralis [Laminaria setchelli] lush foliose coralline reds: Bossiella/ Calliarthron/Corallina	<i>Lessoniopsis littoralis</i> <i>Laminaria setchelli</i> foliose coralline reds	Egregia menziesti Laminaria setchelli Laminaria groenlandica diverse mixed red algae Alaria 'marginata'morph					
subtidal	Lithothannion Nereocystis luetkeana	Lithothamnion Nereocystis Inetkeana	Lithothanmion Nereocystis luetkeana Macrocystis integrifolia Agarum spp. Strongylocentrotus franciscanus					
* Bolding species as:	indicates diagnostic sp semblages are as diagno	ecies used to distinguis ostic as species' presen	sh "communities". Squa ce. Community Code t					

aanas a Assemblages for the Queen Charlotte shoreline									
		MOBILE	BILE	CURRENT-					
RATES			SUBSTRATES				NATED		
	BEDROCK/GRAVEL	BEDROCK/GRAVEL	SAND & GRAVEL	SAND & GRAVEL	ESTUARY or SAND/MUD	SEDIMENT	BEDROCK OR SEDIMENT		
	1-23.33	1-23-33	24, 25, 26, 32	24 25 26 32	27, 28, 29, 30,	21-30	34		
Ī	SP	VP, P	SP	VP, P	VP, P, SP	SE, E	VP, P, SP		
	4	5	6	7	8	9	10		
	Verrucaria Enteromorpha Ralanus alandula	Verrucaria Enteromorpha Balanus alandula	Verrucaria Enteromorpha Balanus alandula	Verrucaria Enteromorpha Rajanus alandula	grasses & rushes Salicornia virginica Rajanus alandula		tidal current		
	Fucus distichus Mytilus trossulus Semibalanus carriosus Ulva' Ulvaria spp.	Fucus distichus Mytilus trossulus Ulva/ Ulvaria spp.	Fucus distichus Mytilus trossulus Semibalanus carriosus Ulva/ Ulvaria spp.	Mytilus trossulus	Fucus di stichus Mytilus trossulus Ulva/Ulvaria	no visible	dominated; may be a protected wave exposure but shows an assemblage of indicator species		
	Halosaccion glandiforme Codium fragile	Halosaccion glandiforme	Halosaccion glandiforme Codium fragile	Halosaccion glandiforme		intertidal macrobiota due to sediment mobility	from higher wave exposures. Assemblage observed is 'anomalous' for		
	Laminaria groenlandica Laminaria saccharina Alaria 'marginata'morph Lithothamnion	Laminaria saccharina	Laminaria groenlandica Laminaria saccharina Alaria 'marginata'morph Lithothamnion	Laminaria saccharina			the wave energy of the site.		
	Nereocystis luetkeana Macrocystis integrifolia Agarum spp. Strongylocentrotus franciscanus	Macrocystis integrifolia Agarum spp.	Nereocystis luetkeana Macrocystis integrifolia Agarum spp. Strongylocentrotus franciscanus	Macrocystis integrifolia Agarum spp.					
_	Zostera marina	Zostera marina	Zostera marina	Zostera marina	Zostera marina				

