092L.076			
P A S S A G E		RAIT	
S S A G E			
NUMAS + BANK +		C ^t george bank _t	Η
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 0 0.25 0 0.25 0 0.25 0 0.25 0 0.25 0 0.25 0 0.25 0 0.25 0 0.5 1 0.5 1 0.5 1 0.5			
Kilometers Kilometers Legend Onlight Break Points Undefined Immobile Substrates Onlight Break Points Onlight Break Po	Mobile/Partially Mobile Substrates 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 - V 9 - Sediment - CC 21 - 30 - SE/E Current Dominated 10 - Bedrock or Sediment - CC 34 - VP/ Tidal Lagoon 11 - Bedrock or Sediment - CC 35 - VP/ CC Type Sediment Shore Types - have substrates that have little or no bedcro 21 Gravel Flat, Wide 22 Gravel Flat or Fan 23 Gravel Flat or Fan 24 Sand and Gravel Flat or Fan, Narrow 27 Sand Beach, Narrow 33 Estuaries Man-Made Materials 32 Man-made, permeable 33 Man-made, impermeable Current Dominated 33 Man-made, permeable 33 Man-made, japper and the substrates of the substrates	P/P/SP P/SP <u>* cropping out</u>	The Habitat Type probeen mapped. The features. Each Habitat Type h Semi-exposed, Imm biobands and indicted How is Habitat Type Fach Habitat Type Fach Habitat Type for determine the Hat 1. records the obset 2. assigns a bio-(w 3. reviews the physe 4. assigns the Habitat Type is detailed across-show the biobands obs to the wave exposure the substrate type for the sub

17 Platform with Sand Beach, Wide

18 Cliff with Sand Beach

19 Ramp with Sand Beach, Narrow 20 Platform with Sand Beach, Narrow





Shoreline Habitat

Type provides a simplified picture of the "look" of the unit overall, based on the detailed biophysical attributes that have . The Habitat Type category is a summary of the observations of both the unit's biologial and geomorphological at Type has a definition that includes the typical substrate, wave exposure and biobands. For example, for the ed, Immobile substrate Habitat Type, part of the definition of that class is a certain combination of the most likely d indictor species present at a bedrock shoreline with no mobile sediment present.

itat Type determined? at Type has typical biological features (including both an indicator species list and typical associated biobands). e the Habitat Type, the biomapper looks at the along-shore Units as designated and described by the physical mapper, and the observations of the biobands in the unit and looks for indicator species,

a bio-(wave) exposure category, the physical mapped information, and the Habitat Type that best describes the unit.

t Type is based on the whole unit and is similar to the physical mappers use of the 'Coastal Class' category, in that the ross-shore data are summarized into one attribute. The simplified category describes the features of the whole unit.

e is a summary of the biophysical classification of the whole shore unit, based on: nds observed,

exposure as indicated by the bands, and rate types in the unit.

nitions I Classification number

- Very high wave exposure, open ocean swellsm usually fetches >500km

VP - Very Protected - Very low wave exposure, fethces < 1km, sheltered anchorages at heads of bays and inletes

posed - 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

** Sargassum does not occur in Very-protected (VP)

Table SOG. GOES WITH SSOG AND NSOG, part of CR Habitat Classification for "Exposure Bio" (EXP_BIO) and "Habitat Observed" (HAB_OBS) based on visible macro-biota assemblages for the Georgia Basin. Species assemblages revised according to analysis of field observations. See summary in Table 5 and Table 6.

MAJOR SUBSTRATE	BEDROCK/BOULDER	BEDROCK/BOULDER	BEDROCK/BOULDER	SAND & GRAVEL	SAND & GRAVEL	SAND/MUD	SEDIMENT	BEDROCK OR SEDIMENT
COASTAL CLASSES	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)	SE	SP	P, VP	SP	P, VP	SP, P, VP	SE, E	VP, P, SP
HABITAT OBSERVED (HAB_OBS)	3 *	4	5	6	7	8	9	10
upper	Verrucaria	Verrucaria	Verrucaria			marsh grasses & rushes		
						Salicomia virginica		tidal current dominated;
	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula		may be a Protected wave
	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus		exposure but shows an
middle								assemblage of indicator
	Semibalanus carriosus	Semibalanus carriosus		Semibalanus carriosus				species from nighter wave
		Mytilus trossulus	Mytilus trossulus	Mytilus trossulus	Mytilus trossulus	Mytilus trossulus	no visible macrobiota	exposures.
		Ulva/ Ulvaria spp.	Ulva/ Ulvaria spp.	Ulva/ Ulvaria spp.	Ulva/ Ulvaria spp.	Ulva/ Ulvaria spp.	due to sediment mobility	
mid/low	Anthopleura elegantissima	Anthopleura elegantissima						
	Gelidium/Gastroclonium/ Leathesia/ Prionitis/ other bleached reds	Gelidium/Gastroclonium/ Leathesia/ Prionitis/ other bleached reds		Gelidium/Gastroclonium/ Leathesia/ Prionitis/ other bleached reds				
		Crassostrea gigas	Crassostrea gigas	Crassostrea gigas	Crassostrea gigas		1	
		Pisaster ochraceous		Pisaster ochraceous	~~~~~		1	
lower	bleached coralline reds	bleached coralline reds					1	
		Agarum sp.		Agarum sp.			1	
		Laminaria saccharina	Laminaria saccharina	Laminaria saccharina	Laminaria saccharina		1	
	Alaria spp.						1	
	Sargassum muticum	Sargassum muticum	Sargassum muticum ***	Sargassum muticum	Sargassum muticum **		1	
		Microcladia/ Irideae type mixed filamentous and foliose reds		Microcladia/ Irideae type mixed filamentous and foliose reds				
	Lithothamnion						1	1
subtidal	Nereocystis luetkeana	Nereocystis luetkeana		Nereocystis luetkeana]	
	Strongylocentrotus	Strongylocentrotus		Strongylocentrotus				
	franciscanus	franciscanus		franciscanus				
		Zostera marina	Zostera marina	Zostera marina	Zostera marina	Zostera marina]	



