		Ρ
ata Source: horeline Type eoBC Coastal Resource Shorezone Database, 2008		
ase Information 20,000 GeoBC Terrain Resource Information anagement (TRIM) Database 1:20,000		
0 0.25 0.5 1 S L I I I I I I S Kilometers		
 Unit Break Points Undefined Imobile Substrates 	Mobile/Partially Mobile Substrates 6 - Sand & Gravel - CC 24-26, 32 -SP 7 - Sand & Gravel - CC 24-26,32 - VP/P	The Ha
 1 - Bedrock - CC 1-20 - VE 2 - Bedrock - CC 1-20 - E 	 8 - Estuary or Sand/Mud - CC 27-31 - VP/P/SP 9 - Sediment - CC 21 - 30 - SE/E 	been m features Each H Semi-ex biobanc
 3 - Bedrock/Boulder - CC 1-23, 32, 33 4 - Bedrock/Gravel - CC 1-23, 33 - SP 5 - Bedrock/Gravel - CC 1-23,33 - P/VF 	10 - Bedrock or Sediment - CC 34 - VP/P/SP	How is Each H To dete 1.□reco 2.□assi 3.□revio
Type tock Shore Types - characterized by a lack of clastic sediments such as gravel or si 1 Rock Ramp, Wide 2 Rock Platform Wide 3 Rock Cliff Narrow 4 Rock Ramp, Narrow 5 Rock Platform Narrow	CC Type and. Sediment Store Types - have substrates that have little or no bedcrock cropping out and. 21 Gravel Flat, Wide and. 22 Gravel Beach and. 23 Gravel Flat or Fan and. 24 Sand and Gravel Flat or Fan, Wide 25 Sand and Gravel Beach	4.⊡assi The Hal detailed Habitat
S Rock Platform Narrow Rock and Sediment Shore Types - rock and pockets of clastic sediments Rock and Sediment Shore Types - rock and pockets of clastic sediments Rock Platform with Gravel Beach, Wide Cliff with Gravel Beach P Ramp with Gravel Beach, Narrow	25 Sand and Gravel Beach 26 Sand and Gravel Flat or Fan, Narrow 27 Sand Beach, Wide 28 Sand Flat 29 Mud Flat 30 Sand Beach, Narrow	•⊡the bi •⊡the w •⊡the su
 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 	31 Estuaries Man-Made Materials 32 Man-made, permeable 33 Man-made, impermeable	Legend CC - Co Wave E
14 Ramp with Sand and Gravel Beach, Narrow 15 Platform with Sand and Gravel Beach, Narrow 16 Ramp with Sand Beach, Wide 17 Platform with Sand Beach, Wide	Current Dominated 34 35 Tidal Lagoon	E - Expo VE - Vel SE - Se

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

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С Α

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Shoreline Habitat

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

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

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

It Type is based on the whole unit and is similar to the physical mappers use of the 'Coastal Class' category, in that the pross-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: ands observed,

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

finitions tal Classification number

sure

E - 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

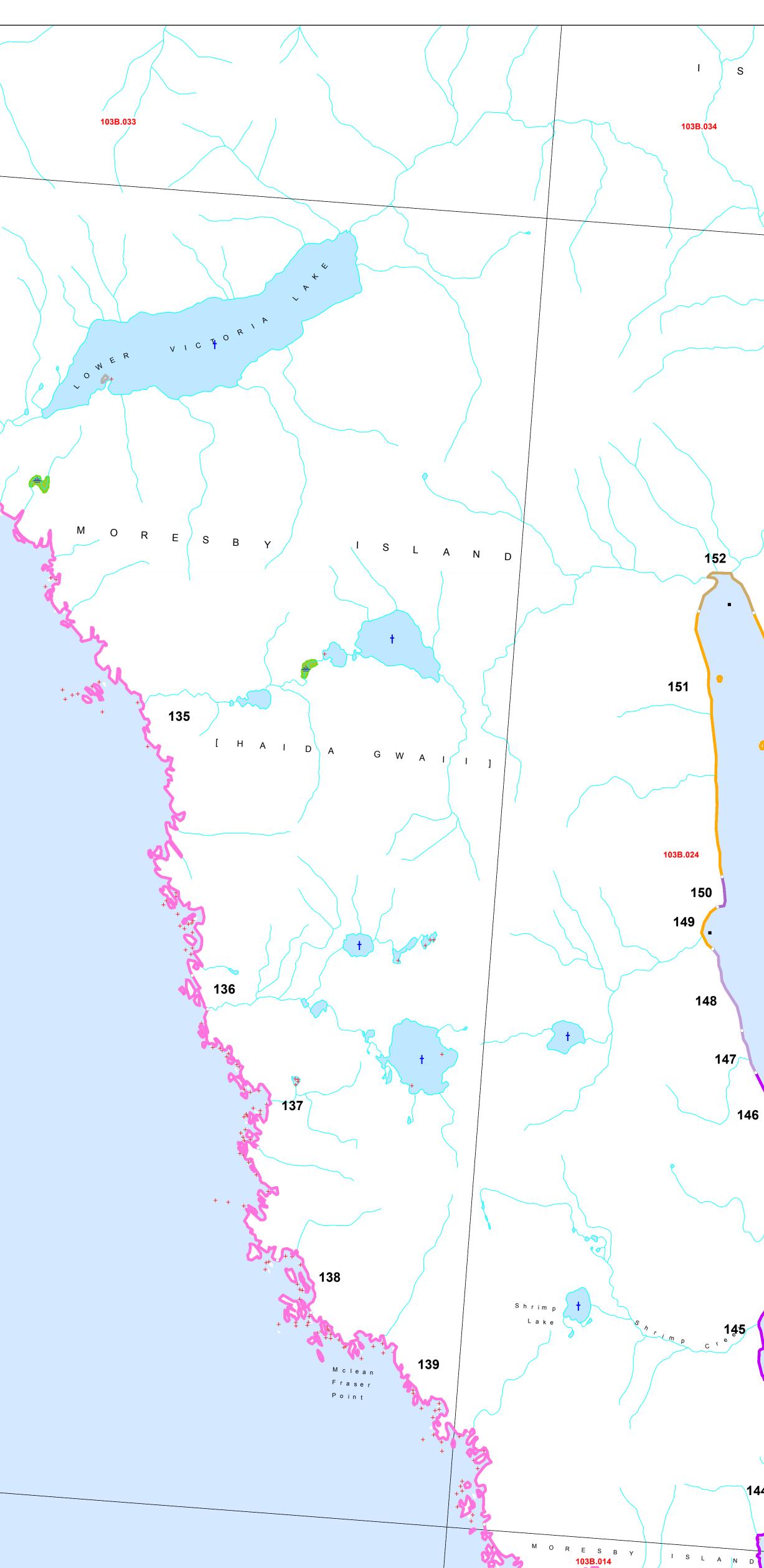
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Table QCI/GH. Original spp/hab table from Gwaii Haa Habitat Classification Based on Visible Macro-Biota A

SUBSTRATE STABILITY		IMMO	BILE SUBST
MAJOR SUBSTRATE	BEDROCK	BEDROCK	BEDROCK/BOULDER
COASTAL			
CLASSES	1-20	1-20	1-23, 32, 33
EXPOSURE (EXP BIO)	VE	E	SE
COMMUNITY CODE (HAB_OBS)	1	2	3
upper	Verrucaria	Verrucaria	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]	Alaria 'nana' morph	Halosaccion glandiforme Hedophyllum sessile
	<i>[лиана папа</i> тогра <i>ј</i>	Ataria nana morph	Codium fragile Phyllospadix scouleri Egregia menziesii
lower	Lessoniopsis littoralis [Laminaria setchelli] lush foliose coralline reds: Bossiella' Calliarthron/ Corallina	<i>Lessoniopsis littoralis Laminaria setchelli</i> foliose coralline reds	Laminaria setchelli Laminaria groenlandica diverse mixed red algae Alaria 'marginata' morph
	Lithothannion	Lithothamnion	Lithothamnion
subtidal	Nereocystis luetkeana	Nereocystis iuetkeana	Nereocystis luetkeana Macrocystis integrifolia Agarum spp. Strongylocentrotus franciscanus



i Haanas iota Assemblages for the Queen Charlotte shoreline								
RATES		MOBILE OR PARTIALLY MOBILE SUBSTRATES				CURRENT- DOMI- 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, 31	21-30	34		
SP	VP, P	SP	VP, P	VP, P, SP	SE, E	VP, P, SP		
4	5	6	7	8	9	10		
Verrucaria Enteromorpha Balanus glandula Fucus distichus	Verrucaria Enteromorpha Balanus glandula Fucus distichus	Verrucaria Enteromorpha Balanus glandula Fucus distichus	Verrucaria Enteromorpha Balanus glandula Fucus distichus	grasses & rushes Salicornia virginica Balanus glandula Fucus distichus		tidal current dominated; may be a protected wave exposure		
Mytilus trossulus Semibalanus carriosus Ulva/ Ulvaria spp.	Mytilus trossulus Ulva/ Ulvaria spp.	Mytilus trossulus Semibalanus carriosus Utra/ Utr aria spp.	Mytilus trossulus Ulva/Ulvaria spp.	Mytilus trossulus Ulva/ Ulvaria	no visible	but shows an assemblage of indicator species		
Halosaccion glandiforme Codium fragile	Halosaccion glandiforme	Halosaccion glandiforme Codium fragile	Halosaccion glandiforme		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 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				
	Assemblages for the second sec	Assemblages for the Queen Charlott RATES BEDROCK/GRAVEL BEDROCK/GRAVEL 1-23, 33 1-23, 33 SP VP, P 4 5 Verrucaria Enteromorpha Balanus glandula Fucus distichus Balanus glandula Fucus distichus Balanus glandula Fucus distichus Mytilus trossulus Semibalanus carriosus Ulva' Ulvaria spp. Mytilus trossulus Ulva' Ulvaria spp. Halosaccion glandiforme Halosaccion glandiforme Laminaria groenlandica Alaria 'marginata 'morph Laminaria saccharina Alaria 'marginata 'morph Nereocystis luetkeana Macrocystis integrifolia Agarum spp. Macrocystis integrifolia Agarum spp.	Assemblages for the Queen Charlotte shoreline MOBILE RATES BEDROCK/GRAVEL BEDROCK/GRAVEL SAND & GRAVEL 1-23, 33 1-23, 33 24, 25, 26, 32 SP VP, P SP 4 5 6 Verrucaria Enteromorpha Enteromorpha Balanus glandula Balanus glandula Balanus glandula Fucus di stichus Mytilus trossulus Semibalanus carriosus Ubra' Ulvaria spp. Ubra' Ulvaria spp. Halosaccion glandiforme Halosaccion glandiforme Halosaccion glandiforme Halosaccion glandiforme Codium fragile Laminaria saccharina Macrocystis integrifolia Macrocystis integrifolia Agarum spp. Nereocystis luetkeana Macrocystis integrifolia Agarum spp. Strongylocentrotus Strongylocentrotus Macrocystis integrifolia Agarum spp.	Assemblages for the Queen Charlotte shoreline MOBILE OR PARTIA SUBSTRAT RATES BEDROCK/GRAVEL SAND & GRAVEL BEDROCK/GRAVEL SAND & GRAVEL 1-23, 33 1-23, 33 24, 25, 26, 32 24, 25, 26, 32 PEDROCK/GRAVEL SAND & GRAVEL 1-23, 33 1-23, 33 24, 25, 26, 32 24, 25, 26, 32 PLA 5 formorpha Peruscaria Enteromorpha VP, P SP VP, P Advise forstallas Enteromorpha Verrucaria Enteromorpha Verrucaria Enteromorpha Verrucaria Enteromorpha Verrucaria Enteromorpha Merrucaria Enteromorpha Merrucaria Enteromorpha Mytilus trossulus Semibalanus carriosus Ubw/ Ubvaria spp. Ubw/ Ubvaria spp. Mytilus trossulus Mytilus trossulus Mytilus trossulus Ubw/ Ubvaria spp. Halosaccion glandiforme Halosaccion glandiforme Laminaria saccharina Alaria 'marginata 'morph	Assemblages for the Queen Charlotte shoreline MOBILE OR PARTIALLY MOR BEDROCK/GRAVEL BEDROCK/GRAVEL SAND & GRAVEL SAND & GRAVEL SAND & GRAVEL SAND MUD 1-23, 33 1-23, 33 1-23, 33 24, 25, 26, 32 24, 25, 26, 32 27, 28, 29, 30, 31 SP VP, P SP VP, P VP, P VP, P VP, P 4 5 6 7 8 Verrucaria Enteromorpha Enteromorpha Enteromorpha Balanus glandula Balanus glandula	Assemblages for the Queen Charlotte shoreline MOBILE OR PARTIALLY MOBILE SUBSTRATES BEDROCK/GRAVEL BEDROCK/GRAVEL SAND & GRAVEL SAND & GRAVEL SAND MUD SEDIMENT 1-23, 33 1-23, 33 1-23, 33 24, 25, 26, 32 24, 25, 26, 32 27, 28, 29, 30, 31 21-30 SP VP, P SP VP, P SP, SP VP, P SF, E 4 5 6 7 8 9 Verrucaria Enteromorpha Verrucaria Enteromorpha grasses & rushes Enteromorpha grasses & sushes Seliconia salianus glandula Pucus distichus Balanus glandula Balanus glandula Balanus glandula Fucus distichus Balanus glandula Balanus glandula Balanus glandula Fucus distichus Mytilus trossulus Balanus glandula Mytilus		



140

