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 1:20,000 1:20,000 1:20,000 1:20,000 1:20,000		
 Legend ○ Unit Break Points ✓ Undefined 	Mobile/Partially Mobile Substrates 6 - Sand & Gravel - CC 24-26, 32 -SP	
Immobile Substrates 1 - Bedrock - CC 1-20 - VE 2 - Bedrock - CC 1-20 - E 3 - Bedrock/Boulder - CC 1-23, 32, 33 - 5 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 1 Rock Ramp, Wide 2 Rock Platform Wide	Image: CC Type Sediment Shore Types - have substrates that have little or no bedcrock cropping out Image: CC Type Image: Sediment Shore Types - have substrates that have little or no bedcrock cropping out Image: Image: Sediment Shore Types - have substrates that have little or no bedcrock cropping out Image: Im	The Habitat been mapper features. Each Habita Semi-expose biobands an How is Habita To determine 1.□records t 2.□assigns a 3.□reviews t 4.□assigns t
S Rock Cliff Narrow Rock Ramp, Narrow 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 Platform with Gravel Beach, Wide Platform with Gravel Beach, Wide	23 Gravel Flat or Fan 24 Sand and Gravel Flat or Fan, Wide 25 Sand and Gravel Beach 26 Sand and Gravel Flat or Fan, Narrow 27 Sand Beach, Wide 28 Sand Flat 29 Sand Flat	detailed acro Habitat Type ∙⊡the biobar •⊡the wave •⊡the substr

34 Channel 35 Tidal Lagoon

 29
 Mud Flat

 30
 Sand Beach, Narrow

 31
 Estuaries

 Man-Made Materials

 32
 Man-made, permeable

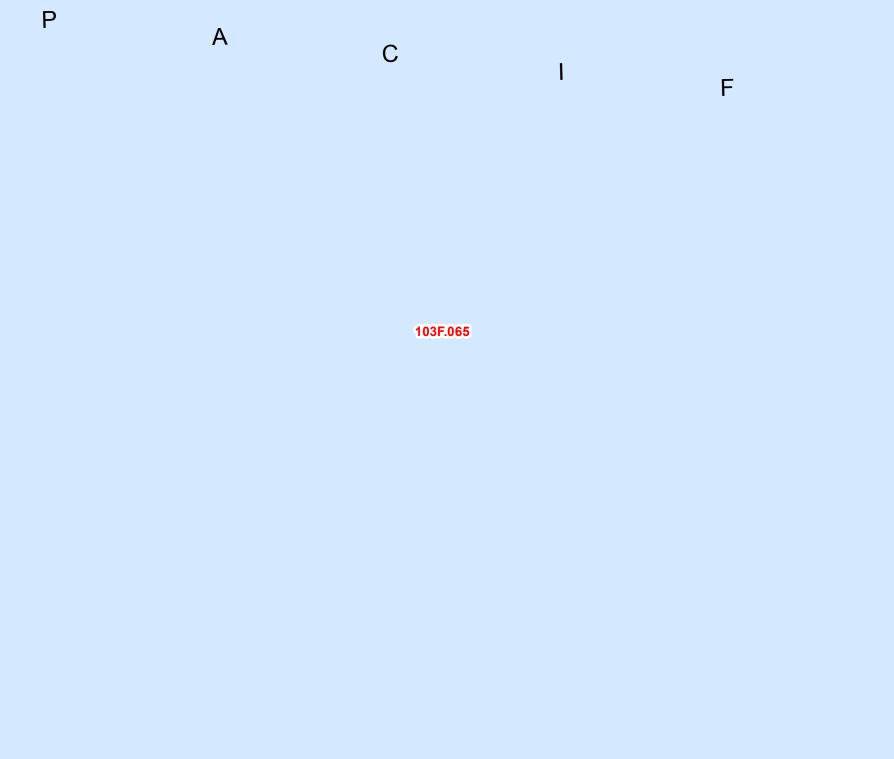
 33
 Man-made, impermeable

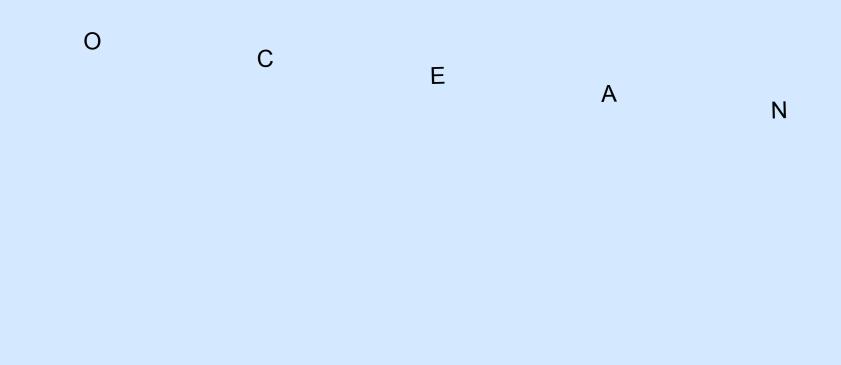
 Current Dominated

 34
 Channel

7 Platform with Gravel Beach, Wide
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, Wide
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
18 Cliff with Sand Beach
19 Ramp with Sand Beach
20 Platform with Sand Beach, Narrow

103F.065





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 at Type has a definition that includes the typical substrate, wave exposure and biobands. For example, for the sed, Immobile substrate Habitat Type, part of the definition of that class is a certain combination of the most likely ind 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, a bio-(wave) exposure category,

s the physical mapped information, and s 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 cross-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,

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

Legend Definitions CC - Coastal Classification number

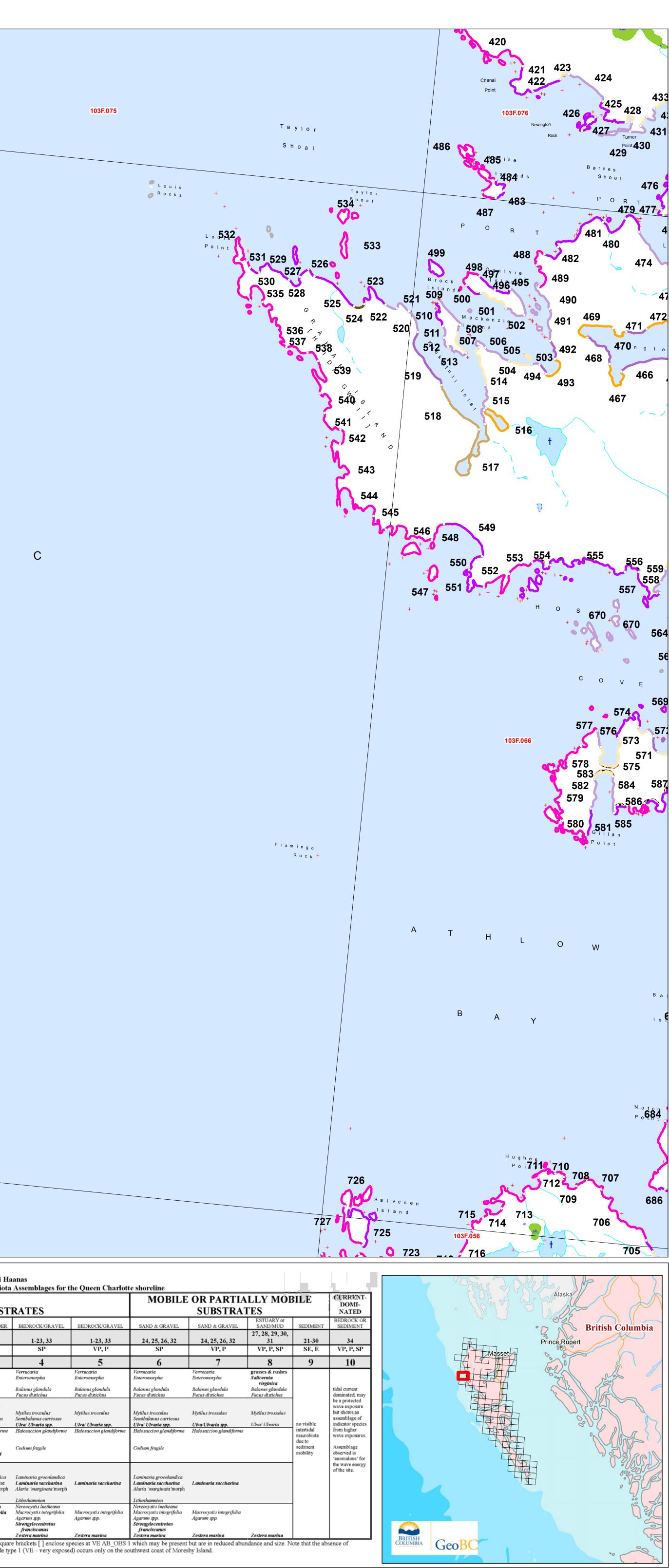
103F.055

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 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	Vernicaria	Verrucaria Enteromorpha
	Balanus glandula	Balanus glandula	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
			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 luetkeana	Nereocystis luetkeana Macrocystis integrifolia Agarum spp. Strongylocentrolus franciscanus



aanas 1 Assemblages for tl	he Oueen Charlott	e shoreline			1. A	
RATES		MOBILE OR PARTIALLY MOBILE SUBSTRATES			BILE	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 di stichus Mytilus trossulus Semibalanus carriosus Ulva/Ulvaria spp. Halosaccion glandiforme Codium fragile	Verrucaria Enteromorpha Balanus glandula Fucus distichus Mytilus trossulus Ulva/Ulvaria spp. Halosaccion glandiforme	Verrucaria Enteromorpha Balanus glandula Fucus di stichus Mytilus trossulus Semibalanus carriosus Ulva/Ulvaria spp. Halosaccion glandiforme Codium fragile	Verrucaria Enteromorpha Balanus glandula Fucus di stichus Mytilus trossulus Ulva/Ulvaria spp. Halosaccion glandiforme	grasses & rushes Salicornia virginica Balanus glandula Fucus distichus Mytilus trossulus Ulva/ Ulvaria	no visible intertidal macrobiota due to sediment mobility	tidal current dominated; may be a protected wave exposure but shows an assemblage of indicator species from higher wave exposures. Assemblage observed is 'anomalous' for
Laminaria groenlandica Laminaria saccharina Alaria 'marginata'morph Lithothammion Nereocystis luetkeana Macrocystis integrifolia Agarum app.	Laminaria saccharina Macrocystis integrifolia Agarum spp.	Laminaria groenlandica Laminaria saccharina Alaria 'marginata' morph Lithothamnion Nereocystis luetkeana Macrocystis integrifolia Agarum spp.	Laminaria saccharina Macrocystis integrifolia Agarum spp.			the wave energy of the site.
Agarian spp. Strongylocentrotus franciscanus Zostera marina re brackets [] enclose sp.	Zostera marina	Strongylocentrotus franciscanus Zostera marina	Zostera marina	Zostera marina	ota that the cho	ance of

