

103K.026

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

 A nock Rome Nucle
 21 council Flat Nucle

 1 Rock Ramp, Wide 2 Rock Platform Wide 3 Rock Cliff Narrow 4 Rock Ramp, Narrow 5 Rock Platform Narrow
 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
 Rock and Sediment Shore Types - rock and pockets of clastic sediments 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 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 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 _____ 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 Current Dominated 14 Ramp with Sand and Gravel Beach, Narrow 15 Platform 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

biobands and indictor species present at a bedrock shoreline with no mobile sediment present. How is Habitat Type determined? 2.□assigns a bio-(wave) exposure category,

- the biobands observed, • the substrate types in the unit.
- Legend Definitions CC Coastal Classification number Wave Exposure

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

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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,

3.□reviews the physical mapped information, and
 4.□assigns the Habitat Type that best describes the unit.

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 wave exposure as indicated by the bands, and

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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	Habitat Classifi	cation Based on V	isible Macro-Biota	Assemblages for t	he Queen Charlot	te shoreline			_	
SUBSTRATE STABILITY	IMMOBILE SUBSTRATES					MOBILE OR PARTIALLY MOBILE SUBSTRATES				CURRENT- DOMI- NATED
MAJOR SUBSTRATE	BEDROCK	BEDROCK	BEDROCK/BOULDER	BEDROCK/GRAVEL	BEDROCK/GRAVEL	SAND & GRAVEL	SAND & GRAVEL	ESTUARY or SAND/MUD	SEDIMENT	BEDROCK OR SEDIMENT
COASTAL CLASSES	1-20	1-20	1-23, 32, 33	1-23, 33	1-23, 33	24, 25, 26, 32	24, 25, 26, 32	27, 28, 29, 30, 31	21-30	34
EXPOSURE (EXP BIO)	VE	Е	SE	SP	VP, P	SP	VP, P	VP, P, SP	SE, E	VP, P, SP
COMMUNITY CODE (HAB_OBS)	1	2	3	4	5	6	7	8	9	10
upper	Verrucaria	Verrucaria	Verrucaria Enteromorpha	Verrucaria Enteromorpha	Verrucaria Enteromorpha	Verrucaria Enteromorpha	Verrucaria Enteromorpha	grasses & rushes Salicornia virginica		
	Balanus glandula	Balanus glandula	Balanus glandula Fucus distichus	Balanus glandula Fucus distichus	Balanus glandula Fucus distichus	Balanus glandula Fucus distichus	Balanus glandula Fucus di stichus	Balanus glandula Fucus distichus		tidal current dominated; may
middle	Pollicipes polymerus Mytilus californianus [Semibalanus carriosus]	Pollicipes polymerus Mytilus californianus Semibalanus carriosus	Mytilus californianus Semibalanus carriosus	Mytilus trossulus Semibalanus carriosus	Mytilus trossulus	Mytilus trossulus Semibalanus carriosus	Mytilus trossulus	Mytilus trossulus	no visible intertidal macrobiota due to sediment mobility	be a protected wave exposure but shows an assemblage of indicator species from higher wave exposures. Assemblage observed is 'anomalous' for the wave energy of the site.
mid/low	[Alaria 'nana' morph]	Alaria 'nana' morph	Halosaccion glandiforme Hedophyllum sessile Codium fragile Phyllomady, scauleri	Ulva' Ulvaria spp. Halosaccion glandiforme Codium fragile	Ulva/Ulvaria spp. Halosaccion glandiforme	Ulva/Ulvaria spp. Halosaccion glandiforme Codium fragile	Ulva/Ulvaria spp. Halosaccion glandiforme	Ulva/ Ulvaria		
lower	Lessoniopsis littoralis [Laminaria setchelli] lush foliose coralline reds: Bossiella/ Calliarthron/Corallina Lithothannion	<i>Lessoniopsis littoralis</i> <i>Laminaria setchelli</i> foliose coralline reds <i>Lithothamnion</i>	Egregia menziesii Laminaria setchelli Laminaria groenlandica diverse mixed red algae Alaria 'marginata' morph Lithothamnion	Laminaria groenlandica Laminaria saccharina Alaria 'marginata'morph Lithothamnion	Laminaria saccharina	Laminaria groenlandica Laminaria saccharina Alaria 'marginata'morph Lithothannion	Laminaria saccharina			
subtidal	Nereocystis luetkeana	Nereocystis luetkeana	Nereocystis luetkeana Macrocystis integrifolia 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		

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