

3 - Bedrock/Boulder - CC 1-23, 32, 33 - SE Current Dominated 4 - Bedrock/Gravel - CC 1-23, 33 - SP 10 - Bedrock or Sediment - CC 34 - VP/P/SP 5 - Bedrock/Gravel - CC 1-23,33 - P/VP Tidal Lagoon 11 - Bedrock or Sediment - CC 35 - VP/P/SP

c c	1'7PC		1	,pc		
Rock Shoi	re Types - characterized by a lack of clastic sediments such as gravel or sand.		Sediment Sh	nore Types - have substrates that have little or no bedcrock cropping out		
:	1 Rock Ramp, Wide		21 🤆	Gravel Flat, Wide		
	2 Rock Platform Wide		22 🤄	Gravel Beach		
;	3 Rock Cliff Narrow		23 🤄	Gravel Flat or Fan		
4	4 Rock Ramp, Narrow		24 S	and and Gravel Flat or Fan, Wide		
į	5 Rock Platform Narrow		25 S	and and Gravel Beach		
Rock and Sediment Shore Types - rock and pockets of clastic sediments			26 S	and and Gravel Flat or Fan, Narrow		
(6 Ramp with Gravel Beach, Wide		27 S	and Beach, Wide		
	7 Platform with Gravel Beach, Wide		28 S	and Flat		
	8 Cliff with Gravel Beach		29 N	մud Flat		
ç	9 Ramp with Gravel Beach, Narrow		30 S	and Beach, Narrow		
10	0 Platform with Gravel Beach, Narrow		31 E	stuaries		
13	1 Ramp with Sand and Gravel Beach, Wide		Man-Made Materials			
12	2 Platform with Sand and Gravel Beach, Wide		32 N	Man-made, permeable		
13	3 Cliff with Sand and Gravel Beach		33 N	vlan-made, impermeable		
14	Ramp with Sand and Gravel Beach, Narrow		Current Don	urrent Dominated		
1!	5 Platform with Sand and Gravel Beach, Narrow		34 C	Channel		
10	6 Ramp with Sand Beach, Wide		35 T	idal Lagoon		
1:	7 Platform with Sand Beach, Wide					
18	8 Cliff with Sand Beach					
19	9 Ramp with Sand Beach, Narrow					
20	0 Platform with Sand Beach, Narrow					

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 biobands and indictor species present at a bedrock shoreline with no mobile sediment present.

How is Habitat Type determined? 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,

2. □ assigns a bio-(wave) exposure category,
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 biobands observed, • the wave exposure as indicated by the bands, and • □ the substrate types in the unit.

Legend Definitions
CC - Coastal Classification number

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

SUBSTRATE STABILITY	IMMOBILE SUBSTRATES				MOBILE	CURRENT- DOMI- NATED	TIDAL IAGOON			
MAJOR SUBSTRATE	BEDROCK	BEDROCK/BOULDER	BEDROCK/GRAVEL	BEDROCK/GRAVEL	SAND & GRAVEL	SAND & GRAVEL	SAND/MUD	SEDIMENT	BEDROCK OR SEDIMENT	BEDROCK OR SEDIMENT
COASTAL CLASSES	1-20	1-23, 32, 33	1-23, 33	1-23, 33	24 – 30, 32 no SAL band	24 – 30, 32 no SAL band	24 - 30, 31 has SAL band	24-30	34	35
EXPOSURE (EXP BIO)	E	SE	SP	VP, P	SP	VP, P	VP, P, SP	SE, E	VP, P, SP	VP, P, SP
COMMUNITY CODE (HAB OBS)	2	3	4	5	6	7	8	9	10	11
upper	Verrucaria Balanus glandula	Verrucaria Enteromorpha Balanus glandula Fucus distichus	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 Bakanus glanduka Fucus distichus	no visible tidal current		Balanus glandula Fucus distichus
middle	Pollicipes polymerus Mytilus californianus Semibalanus carriosus	Mytilus californianus Semibalanus carriosus	Mytilus trossulus* Semibalanus carriosus Ulva/ Ulvaria spp.	Mytilus trossulus * Ulva/ Ulvaria spp.	Semibalanus carriosus Ulva/ Ulvaria spp.	Ulva/ Ulvaria spp.	Mytilus trossulus** Ulva/ Ulvaria	macrobiota due to sediment mobility	dominated; may be a Protected wave exposure but shows an assemblage of	ponded water in lagoon creates narrow intertidal and a reduced biota in brackish water, may have
mid/low	Alaria 'nana' morph	Hedophyllum sessile Phyllospadix scouleri								
lower	Lessoniopsis littoralis Lithothannion	Alaria 'marginata' morph Lithothamnion	Laminaria groenlandica Laminaria saccharina Lan Ilaria 'marginata' Alaria 'marginata' morph norph		Laminaria groenlandica Laminaria saccharina Alaria 'marginala' morph Lithothamnion	Laminaria saccharina			observed is 'anomalous' for the wave energy of the site.	associated current dominated at outflow
subtidal	Nereocystis luetkeana	Nereocystis inetkeana 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			

