

		• 11 - E	Bedrock or Sediment - CC 35 - VP/P/SP
СС Туре		lcc	Туре
tock Shore Types - characterized by a lack of clastic sediments such as gravel or s	sand.		Shore Types - have substrates that have little or no bedcrock cropping out
1 Rock Ramp, Wide			Gravel Flat, Wide
2 Rock Platform Wide			Gravel Beach
3 Rock Cliff Narrow		23	Gravel Flat or Fan
4 Rock Ramp, Narrow		24	Sand and Gravel Flat or Fan, Wide
5 Rock Platform Narrow		25	Sand and Gravel Beach
ock and Sediment Shore Types - rock and pockets of clastic sediments		26	Sand and Gravel Flat or Fan, Narrow
6 Ramp with Gravel Beach, Wide		27	Sand Beach, Wide
7 Platform with Gravel Beach, Wide		28	Sand Flat
8 Cliff with Gravel Beach		29	Mud Flat
9 Ramp with Gravel Beach, Narrow		30	Sand Beach, Narrow
10 Platform with Gravel Beach, Narrow		31	Estuaries
11 Ramp with Sand and Gravel Beach, Wide		Man-Made	e Materials
12 Platform with Sand and Gravel Beach, Wide		32	Man-made, permeable
13 Cliff with Sand and Gravel Beach		33	Man-made, impermeable
14 Ramp with Sand and Gravel Beach, Narrow		Current Do	ominated
15 Platform with Sand and Gravel Beach, Narrow		34	Channel
16 Ramp with Sand Beach, Wide		35	Tidal Lagoon
17 Platform with Sand Beach, Wide		·	
18 Cliff with Sand Beach			
19 Ramp with Sand Beach, Narrow			
20 Platform with Sand Beach, Narrow			

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 exposure, sheltered inlets, usually fetches less than 10km

SP - Semi Protected - Moderate wave exposure, 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 OR PARTIALLY MOBILE SUBSTRATES				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)	Е	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	Verrucaria Enteromorpha	Verrucaria Enteromorpha	Verrucaria Enteromorpha	Verrucaria Enteromorpha	Verrucaria Enteromorpha	grasses & rushes Salicornia virginica			
	Balanus glandula	Balanus glandula Fucus distichus	Balanus glandula Fucus distichus	Balanus glandula Fucus distichus	Balanus glandula Fucus distichus	Balanus glandula Fucus distichus	Balanus glandula Fucus distichus	no visible	tidal current	Balanus glandul Fucus distichus
middle	Pollicipes polymerus Mytilus californianus	Mytilus californianus	Mytilus trossulus*	Mytilus trossulus *			Mytilus trossulus™	macrobiota due to sediment	dominated; may be a Protected wave exposure	
	Semibalanus carriosus	Semibalanus carriosus	Semibalanus carriosus Ulva/ Ulvaria spp.	Ulva/ Ulvaria spp.	Semibalanus carriosus Ulva/ Ulvaria spp.	Ulva/ Ulvaria spp.	Ulva/ Ulvaria	mobility	but shows an assemblage of	ponded water in lagoon creates
mid/low		Hedophyllum sessile							indicator species from higher	narrow intertidal and a reduced
	Alaria 'nana' morph	Phyllospadix scouleri							wave exposures. Assemblage	biota in brackish water, may have
lower	Lessoniopsis littoralis	Alaria 'marginata' morph	Laminaria groenlandica Laminaria saccharina Alaria 'marginata' morph	Laminaria saccharina	Laminaria groenlandica Laminaria saccharina Alaria 'marginata' morph	Laminaria saccharina			observed is 'anomalous' for the wave energy of the site.	associated current dominated at outflow
	Lithothamnion	Lithothamnion	Lithothamnion		Lithothamnion					
subtidal	Nereocystis luetkeana	Nereocystis inetkeana Macrocystis integrifolia Agarum spp. Strongylocentrotus franciscanus	Nereocystis luetkeana Macrocystis integrifolia Agarum spp. Strongylocentrotus franciscanus	Macrocystis integrifolia Agarum spp.	Nereocystis luetkeana Macrocystis integrifolia Agarum spp. Strongylocentrotus franciscanus	Macrocystis integrifolia Agarum spp.				
		,	Zostera marina	Zostera marina	Zostera marina	Zostera marina	Zostera marina			

