

11 - Bedrock or Sediment - CC 35 - VP/P/SP										
Туре	T	сс	Туре							
ck 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							
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 Rock Ramp, Narrow		24	Sand and Gravel Flat or Fan, Wide							
5 Rock Platform Narrow		25	Sand and Gravel Beach							
ck 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-Mad	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	1									
18 Cliff with Sand Beach	T									
19 Ramp with Sand Beach, Narrow	T									

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.

VP - Very Protected - Very low wave exposure, fethces < 1km, sheltered anchorages at heads of bays and inletes

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

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 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 Balanus glandula 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
mid/low	Alaria 'nana' morph	Hedophyllum sessile Phyllospadix scouleri	ena ena app.	con contract,	CHE CHEST SP.	con contract,	one one		indicator species from higher wave exposures. Assemblage	narrow intertidal and a reduced biota in brackish water, may have
lower	Lessoniopsis littoralis Lithothamnion	Alaria 'marginata' morph Lithothamnion	Laminaria groenlandica Laminaria saccharina Alaria 'marginata' morph Lithothamnion	Laminaria saccharina	Laminaria groenlandica Laminaria saccharina Alaria 'marginata' morph Lithothamnion	Laminaria saccharina			observed is 'anomalous' for the wave energy of the site.	associated current dominated at outflow
subtidal	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			

