

• 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

Habitat Type is a summary of the biophysical classification of the whole shore unit, based on:

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.

1 Rock Ramp, Wide
2 Rock Platform Wide
3 Rock Cliff Narrow
4 Rock Ramp, Narrow
5 Rock Platform Narrow
Rock and Sediment Shore Types - rock and pockets of clastic sediments
6 Ramp with Gravel Reach, Wide

6 Ramp with Gravel Beach, Wide

7 Platform with Gravel Beach, Wide
8 Cliff 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, Narrow
20 Platform with Sand Beach, Narrow

7 Platform with Gravel Beach, Wide

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
26 Sand and Gravel Flat or Fan, Narrow

26 Sand and Gravel Flat or Fan, Narrow
27 Sand Beach, Wide
28 Sand Flat

29 Mud Flat
30 Sand Beach, Narrow
31 Estuaries
Man-Made Materials
32 Man-made, permeable
33 Man-made, impermeable
Current Dominated
34 Channel

IMMOBILE SUBSTRATES				MOBILE OR PARTIALLY MOBILE SUBSTRATES				CURRENT- DOMI- NATED	TIDAL IAGOON
PEDROCK	REDROCK/BOLLI DER	BEDBOCK/GRAVEI	REDROCK/GRAVET	SAND & GRAVEI	SAND & GRAVEI	SANDATID	SEDIMENT	BEDROCK OR SEDIMENT	BEDROCK OR SEDIMENT
				24 – 30, 32	24 – 30, 32	24 - 30, 31			35
E	SE	SP	VP, P	SP SP	VP, P	VP, P, SP	SE, E	VP, P, SP	VP, P, SP
2	3	4	5	6	7	8	9	10	11
Verrucaria	Verrucaria Enteromorpha	Verrucaria Enteromorpha	Verrucaria Enteromorpha	Verrucaria Enteromorpha	Verrucaria Enteromorpha	grasses & rushes Salicornia			
Balanus glandula	Balanus glandula Fucus distichus	Balanus glandula Fucus distichus	Balanus glandula Fucus distichus	Balanus glandula Fucus distichus	Balanus glandula Fucus distichus	Balanus glandula	no visible macrobiota due to sediment mobility	tidal current dominated; may be a Protected wave exposure but shows an	Balanus glandula Fucus distichus
Pollicipes polymerus Mytilus californianus Semibalanus carriosus	Mytilus californianus Semibalanus carriosus	Mytilus trossulus* Semibalanus carriosus	Mytilus trossulus *	Semibalanus carriosus		Mytilus trossulus**			ponded water in
		Ulva/ Ulvaria spp.	Ulva/ Ulvaria spp.	Ulva/ Ulvaria spp.	Ulva/ Ulvaria spp.	Ulva/ Ulvaria	,	assemblage of	lagoon creates narrow intertidal
Alaria 'nana' morph	Hedophyllum sessile Phyllospadix scouleri							from higher wave exposures. Assemblage	and a reduced biota in brackish water, may have associated current dominated at outflow
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.	
Nereocystis luetkeana	Nereocystis luetkeana Macrocystis integrifolia Agarum spp. Strongylocentrotus	Nereocystis luetkeana Macrocystis integrifolia Agarum spp. Strongylocentrotus	Macrocystis integrifolia Agarum spp.	Nereocystis luetkeana Macrocystis integrifolia Agarum spp. Strongylocentrotus	Macrocystis integrifolia Agarum spp.				
	BEDROCK 1-20 E 2 Verrucaria Balanus glandula Pollicipes polymerus Mytilus californianus Semibalanus carriosus Alaria 'nana' morph Lessoniopsis littoralis Lithothamnion	BEDROCK BEDROCK/BOULDER 1-20 1-23, 32, 33 E SE 2 3 Verrucaria Verrucaria Enteromorpha Balanus glandula Balanus glandula Fucus distichus Pollicipes polymerus Mytilus californianus Semibalanus carriosus Semibalanus carriosus Hedophyllum sessile Phyllospadix scouleri Lessoniopsis littoralis Alaria 'marginata' morph Lithothamnion Nereocystis luetkeana Macrocystis luetkeana Macrocystis integrifolia Agarum spp.	BEDROCK BEDROCK/BOULDER BEDROCK/GRAVEL 1-20 1-23, 32, 33 1-23, 33 E SE SP 2 3 4 Verrucaria Verrucaria Enteromorpha Enteromorpha Balamus glandula Balamus glandula Fucus distichus Pollicipes polymerus Mytilus californianus Mytilus californianus Semibalamus carriosus Mytilus carriosus Semibalamus carriosus Hedophyllum sessile Alaria 'nana' morph Lessoniopsis littoralis Lessoniopsis littoralis Laminaria groenlandica Laminaria saccharina Alaria 'marginata' morph Lithothamnion Nereocystis luetkeana Macrocystis luetkeana Macrocystis luetkeana Macrocystis integrifolia Agarum spp. Nereocystis luetkeana Macrocystis integrifolia Agarum spp.	BEDROCK BEDROCK/BOULDER BEDROCK/GRAVEL 1-20 1-23, 32, 33 1-23, 33 1-23, 33 E SE SP VP, P 2 3 4 5 Verrucaria Verrucaria Enteromorpha Enteromorpha Balamus glandula Balamus glandula Fucus distichus Pucus distichus Pollicipes polymerus Mytilus californianus Mytilus californianus Mytilus californianus Semibalamus carriosus Mytilus carriosus Mytilus rossulus* Semibalamus carriosus Mytilus trossulus* Semibalamus carriosus Mytilus trossulus* Semibalamus carriosus Ulva' Ulvaria spp. Laminaria groenlandica Laminaria saccharina Alaria 'marginata' morph Lithothamnion Nereocystis luetkeana Macrocystis luetkeana Macrocystis luetkeana Macrocystis integrifolia Agarum spp. Macrocystis integrifolia Agarum spp. Macrocystis integrifolia Agarum spp.	BEDROCK BEDROCK/BOULDER BEDROCK/GRAVEL BEDROCK/GRAVEL SAND & GRAVEL 1-20 1-23, 32, 33 1-23, 33 1-23, 33 1-23, 33 no SAL band E SE SP VP, P SP 2 3 4 5 6 Verrucaria Verrucaria Enteromorpha Enteromorpha Enteromorpha Enteromorpha Balanus glandula Balanus glandula Fucus distichus Fucus distichus Fucus distichus Pollicipes polymerus Mytilus californianus Mytilus californianus Semibalanus carriosus Ulva' Ulvaria spp. Hedophyllum sessile Alaria 'nana' morph Lithothamnion Lithothamnion Lithothamnion Nereocystis luetkeana Macrocystis integrifolia Agarum spp. Nereocystis luetkeana Macrocystis integrifolia Agarum spp. BEDROCK/GRAVEL SAND & GRAVEL 24 – 30, 32 no SAL band 24 – 30, 32 no SAL band E24 – 30, 32 no SAL	BEDROCK BEDROCK/BOULDER BEDROCK/GRAVEL BEDROCK/GRAVEL SAND & GRAVEL SAND & GRAVEL	BEDROCK BEDROCK/BAVEL BEDROCK/GRAVEL BEDROCK/GRAVEL SAND & GRAVEL SAND MODE GRAVEL SAND MOD	BEDROCK BEDROCK/BOULDER BEDROCK/GRAVEL BEDROCK/GRAVEL SAND & GRAVEL SAND & GRAVEL SAND MUD SEDIMENT 24-30, 32 24-30, 32 24-30, 31 1-23, 33 1-23, 33 1-23, 33 1-23, 33 1-23, 33 1-23, 33 1-23, 33 1-23, 33 1-23, 33 1-23, 33 1-23, 33 1-23, 33 1-23, 33 1-23, 33 1-23, 33 1-23, 33 1-23, 34 1-23, 35	BEDROCK BEDROCK/GRAVEL BEDROCK/GRAVEL SAND & GRAVEL SAND & GRAVEL SAND & GRAVEL SAND METER SEDIMENT 1-20 1-23, 32, 33 1-23, 33 1

