

11 - Bedrock or Sediment - CC 35 - VP/P/SP 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 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
26 Sand and Gravel Flat or Fan, Narrow 4 Rock Ramp, Narrow
5 Rock Platform Narrow
Rock and Sediment Shore Types - rock and pockets of clastic sediments 26 Sand and Gravel Flat or Fan, Narrow
27 Sand Beach, Wide
28 Sand Flat 6 Ramp with Gravel Beach, Wide 7 Platform 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 29 Mud Flat
30 Sand Beach, Narrow
31 Estuaries
Man-Made Materials
32 Man-made, permeable
33 Man-made, impermeable
Current Dominated Current Dominated 34 Channel 35 Tidal Lagoon

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

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

SP - Semi Protected - Moderate wave expsoure, partly sheltered, usually fetches 10-50km

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

MAJOR SUBSTRATE	BEDROCK/BOULDER	BEDROCK/BOULDER	BEDROCK/BOULDER	SAND & GRAVEL	SAND & GRAVEL	SAND/MUD	SEDIMENT	BEDROCK OR SEDIMENT
COASTAL CLASSES	1-20	1-23, 32, 33	1-23, 33	24, 25, 26, 32	24, 25, 26, 32	27, 28, 29, 30, 31	24 - 30	
EXPOSURE (EXP_BIO)	SE	SP	P, VP	SP	P, VP	SP, P, VP	SE, E	VP, P, SP
HABITAT OBSERVED (HAB_OBS)	3 *	4	5	6	7	8	9	10
иррег	Verrucaria	Verrucaria	Verrucaria			marsh grasses & rushes		tidal current dominated; may be a Protected wave exposure but shows an
						Salicornia virginica		
	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula		
	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus		
middle								assemblage of indicator
	Semibalanus carriosus	Semibalanus carriosus		Semibalanus carriosus				species from higher wave exposures.
		Mytilus trossulus	Mytilus trossulus	Mytilus trossulus	Mytilus trossulus	Mytilus trossulus		
		Ulva/ Ulvaria spp.	Ulva/ Ulvaria spp.	Ulva/ Ulvaria spp.	Ulva/ Ulvaria spp.	Ulva/ Ulvaria spp.		
mid/low	Anthopleura elegantissima	Anthopleura elegantissima						
	Gelidium/Gastroclonium/	Gelidium/Gastroclonium/		Gelidium/Gastroclonium/				
	Leathesia/ Prionitis/	Leathesia/ Prionitis/		Leathesia/ Prionitis/				
	other bleached reds	other bleached reds		other bleached reds				
		Crassostrea gigas	Crassostrea gigas	Crassostrea gigas	Crassostrea gigas			
		Pi saster ochraceous		Pisaster ochraceous				
lower	bleached coralline reds	bleached coralline reds						
		Agarum sp.		Agarum sp.			1	
		Laminaria saccharina	Laminaria saccharina	Laminaria saccharina	Laminaria saccharina			
	Alaria spp.							
	Sargassum muticum	Sargassum muticum	Sargassum muticum ***	Sargassum muticum	Sargassum muticum **			
		Microcladia/ Irideae type mixed filamentous and foliose reds		Microcladia/ Irideae type mixed filamentous and foliose reds				
	Lithothamnion							
subtidal	Nereocystis luetkeana	Nereocystis luetkeana		Nereocystis luetkeana				
	Strongylocentrotus	Strongylocentrotus		Strongylocentrotus				
	franciscanus	franciscanus		franciscanus				

\* The SE (Semi-exposed) shoreline 'Habitat Observed' in the Strait of Georgia was observed to have the same species assemblage as typical species assemblages found in high SP (semi-protected).

\*\* Sargassum does not occur in Very-protected (VP)

