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## Immobile Substrates

-  1 - Bedrock - CC 1-20 - VE
-  2 - Bedrock - CC 1-20 - E
-  3 - Bedrock/Boulder - CC 1-23, 32, 33 - SE
-  4 - Bedrock/Gravel - CC 1-23, 33 - SP
-  5 - Bedrock/Gravel - CC 1-23,33 - P/P

### Mobile/Partially Mobile Substrates

-  6 - Sand & Gravel - CC 24-26, 32 - SP
  -  7 - Sand & Gravel - CC 24-26, 32 - VP/P
  -  8 - Estuary or Sand/Mud - CC 27-31 - VP/P/SP
  -  9 - Sediment - CC 21 - 30 - SE/E
- Current Dominated**
-  10 - Bedrock or Sediment - CC 34 - VP/P/SP
- Tidal Lagoon**
-  11 - Bedrock or Sediment - CC 35 - VP/P/SP

### Current Dominated

-  10 - Bedrock or Sediment - CC 34 - VP/P/SP
- Tidal Lagoon**
-  11 - Bedrock or Sediment - CC 35 - VP/P/SP

## Tidal Lagoon

- 11 - Bedrock or Sediment - CC 35 - VP/P/SP

Rock Type	Ec	Type	Ec	Type
Rock Shore Type - characterized by a lack of clastic sediments such as gravel or sand.		Rock Shore Type - has substrates that have little or no bedrock cropping out		
1 Rock Beach, Wide	21	11 Gravel Flat, Wide	21	Gravel Flat, Wide
2 Rock Platform, Wide	22	2 Gravel Beach, Wide	22	Gravel Beach, Wide
3 Rock Cliff, Narrow	23	3 Gravel Flat, Flat	23	Gravel Flat, Flat
4 Rock Beach, Narrow	24	4 Sand and Gravel Flat or Fan, Wide	24	Sand and Gravel Flat or Fan, Wide
5 Gravel Platform, Narrow	25	5 Sand and Gravel Beach	25	Sand and Gravel Beach
		6 Sand and Gravel Flat or Fan, Narrow	26	Sand and Gravel Flat or Fan, Narrow
<b>Rock and Sediment Shore Types - rock and pebbles of clastic sediments</b>				
6 Ramp with Gravel Beach, Wide	27	7 Sand Beach, Wide	27	Sand Beach, Wide
7 Platform with Gravel Beach, Wide	28	8 Sand Flat	28	Sand Flat
8 Cliff with Gravel Beach	29	9 Gravel Flat	29	Gravel Flat
9 Ramp with Gravel Beach, Narrow	30	10 Sand Beach, Narrow	30	Sand Beach, Narrow
10 Platform with Gravel Beach, Narrow	31	11 Climates	31	Climates
11 Ramp with Sand and Gravel Beach, Wide		<b>Man-Made Materials</b>		
12 Platform with Sand and Gravel Beach, Wide		12 Man-made, permeable		Man-made, permeable
13 Cliff with Sand and Gravel Beach		33 Man-made, impermeable		Man-made, impermeable
14 Ramp with Sand and Gravel Beach, Narrow		<b>Current Dominated</b>		
15 Platform with Sand and Gravel Beach, Narrow		31 Channel		Channel
16 Ramp with Sand Beach, Wide		35 Dry Lagoon		Dry Lagoon
17 Platform with Sand Beach, Wide				
18 Cliff with Sand Beach				
19 Ramp with Sand Beach, Narrow				
20 Platform with Sand Beach, Narrow				

The Habitat Type provides a simplified picture of the "look" of the unit overall, based on the detailed biophysical attributes that have been mapped. The Habitat Type category is a summary of the observations of both the units' biological and geomorphological characteristics.

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 indicator 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**

**Wave Exposure**

E - Exposed - Very high wave exposure, open shoreline, usually fetches >500km

VE - Very Exposed - Extreme high wave exposure

SE - Semi Exposed - High wave exposure, open swells, areas between fully exposed and more sheltered, usually fetches 50 to 500m

P - Protected - Low wave exposure, sheltered inlets, usually fetches less than 10km

VP - Semi Protected - Moderate wave exposure, partly sheltered, usually fetches 10-50km

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

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