



Legend

Unit Break Points
Undefined
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/VP

Tidal Lagoon

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/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

Shoreline Habitat

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 unit's biological and geomorphological features.

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 a Habitat Type, the biomapper looks at the along-shore Units as designated and described by the physical mapper, and

1. reviews the physical mapping information,
2. assigns a bio-breakwave 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 wave exposure as indicated by the bands, and
- the substrate types in the unit.

Legend Definitions

CC - Coastal Classification number

Wave Exposure

E - Exposed - High wave exposure, open ocean swellism 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, fetches < 1km, sheltered anchorages at heads of bays and inlets

Table MIDCOAST and NORTH COAST project area which includes BIO AREAS CC, JS and NC. The Species wave exposure/substrate table for Habitat Classification (HAIB_OHS), for the Mid-coast BC study area, from Johnstone Strait/Central Coast Mapping Regions 5, 6 and 7.

SUBSTRATE STABILITY	IMMOBILE SUBSTRATES				MOBILE OR PARTIALLY MOBILE SUBSTRATES				CURRENT-DOMINATED	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	1-23, 33	24 - 30, 32	24 - 30, 32	24 - 30, 31	no SAL band	24-30	35
EXPOSURE	E	SE	SP	VP, P	SP	VP, P	VP, P, SP	VP, P	SP	VP, P, SP	VP, P, SP
COMMUNITY CODE	2	3	4	5	6	7	8	9	10	11	
old class											
upper	<i>Verrucaria</i>	<i>Verrucaria</i>	<i>Verrucaria</i>	<i>Verrucaria</i>	<i>Verrucaria</i>	<i>Verrucaria</i>	<i>Verrucaria</i>	<i>Verrucaria</i>	grasses & rushes		
		<i>Enteromorpha</i>	<i>Enteromorpha</i>	<i>Enteromorpha</i>	<i>Enteromorpha</i>				algae & seagrass		
		<i>Balanus glandula</i>	<i>Balanus glandula</i>	<i>Balanus glandula</i>	<i>Balanus glandula</i>				vegatation		
		<i>Fucus distichus</i>	<i>Fucus distichus</i>	<i>Fucus distichus</i>	<i>Fucus distichus</i>						
middle	<i>Palicourea polystachys</i>	<i>Mytilis californiana</i>	<i>Mytilis californiana</i>	<i>Mytilis californiana</i>	<i>Mytilis californiana</i>	<i>Mytilis californiana</i>	<i>Mytilis californiana</i>	<i>Mytilis californiana</i>	grass & rushes		
		<i>Mytilis californiana</i>	<i>Semibalanus cariosus</i>	<i>Semibalanus cariosus</i>	<i>Semibalanus cariosus</i>	<i>Semibalanus cariosus</i>	<i>Semibalanus cariosus</i>	<i>Semibalanus cariosus</i>	algae & seagrass		
			<i>Utricularia spp.</i>	<i>Utricularia spp.</i>	<i>Utricularia spp.</i>	<i>Utricularia spp.</i>	<i>Utricularia spp.</i>	<i>Utricularia spp.</i>	vegatation		
mid-low	<i>Azolla filicinoides</i>	<i>Hedophyllum sente</i>	<i>Phyllospadix scouleri</i>	<i>Lithothamnion</i>	<i>Laminaria groenlandica</i>	<i>Laminaria saccharina</i>	<i>Laminaria saccharina</i>	<i>Laminaria saccharina</i>	no visible microfauna due to sediment mobility		
					<i>Alaria marginata</i>	<i>Alaria marginata</i>	<i>Alaria marginata</i>	<i>Alaria marginata</i>			
						<i>Lithothamnion</i>	<i>Lithothamnion</i>	<i>Lithothamnion</i>			
lower	<i>Lessonia littoralis</i>	<i>Phyllospadix scouleri</i>	<i>Lithothamnion</i>	<i>Nereocystis luetkeana</i>	<i>Laminaria groenlandica</i>	<i>Laminaria saccharina</i>	<i>Laminaria saccharina</i>	<i>Laminaria saccharina</i>	tidal current dominated, may be a protected area, but shows an assemblage of intertidal species from higher wave exposure. A common feature observed is variation in the wave energy of the site.		
					<i>Nereocystis luetkeana</i>	<i>Alaria marginata</i>	<i>Alaria marginata</i>	<i>Alaria marginata</i>			
						<i>Lithothamnion</i>	<i>Lithothamnion</i>	<i>Lithothamnion</i>			
subtidal	<i>Nereocystis luetkeana</i>	<i>Macrocystis integrifolia</i>	<i>Macrocystis integrifolia</i>	<i>Macrocystis integrifolia</i>	<i>Nereocystis luetkeana</i>	<i>Agarum spp.</i>	<i>Agarum spp.</i>	<i>Agarum spp.</i>	predominant wave in narrow intertidal areas, and a reduced wave climate in rockshelter areas may have associated species		
		<i>Agarum spp.</i>	<i>Strongylocodium franciscanum</i>	<i>Strongylocodium franciscanum</i>	<i>Macrocystis integrifolia</i>	<i>Strongylocodium franciscanum</i>	<i>Zostera marina</i>	<i>Zostera marina</i>			

