



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

CC Type	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 bedrock cropping out.
13 Rock Ramp, Wide	21 Gravel Flat, Wide
14 Rock Platform, Wide	22 Gravel Beach
15 Rock Cliff, Narrow	23 Gravel Flat or Fan
16 Rock Ramp, Narrow	24 Sand and Gravel Flat or Fan, Wide
17 Rock Platform, Narrow	25 Sand and Gravel Beach
Rock and Sediment Shore Types - rock and pockets of clastic sediments	26 Sand and Gravel Flat or Fan, Narrow
18 Beach with Gravel Beach, Wide	27 Sand Beach, Wide
19 Platform with Gravel Beach, Wide	28 Sand Flat
20 Cliff with Gravel Beach	29 Mud Flat
21 Beach with Gravel Beach, Narrow	30 Sand Beach, Narrow
22 Platform with Gravel Beach, Narrow	31 Estuary
23 Beach with Sand and Gravel Beach, Wide	32 Main Marine
24 Cliff with Sand and Gravel Beach	33 Main Marine, permeable
25 Beach with Sand and Gravel Beach, Narrow	34 Main Marine, impermeable
26 Platform with Sand and Gravel Beach, Narrow	35 Channel
27 Beach with Sand Beach, Wide	36 Tidal Lagoon
28 Cliff with Sand Beach	
29 Beach with Sand Beach, Narrow	
30 Platform with Sand Beach, Narrow	

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 units 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 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 ocean swells 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 SOG, GOES WITH SNOG AND NSOG, part of CR
Habitat Classification for "Exposure Bio" (EXP_BIO) and "Habitat Observed" (HAB_OBS) based on visible macro-biota assemblages for the Georgia Basin. Species assemblages revised according to analysis of field observations. See summary in Table 5 and Table 6.

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
upper	<i>Torresia</i>	<i>Torresia</i>	<i>Torresia</i>			<i>marx grasses & muck</i>		
middle	<i>Palmyra alpinella</i>	<i>Palmyra alpinella</i>	<i>Palmyra alpinella</i>	<i>Palmyra alpinella</i>	<i>Palmyra alpinella</i>	<i>Palmyra alpinella</i>		this current dominant, may be a <i>Pentacostis</i> weedy species but due to washage of rocks or pebbles from higher exposure
	<i>Sesuvium portulacastrum</i>	<i>Sesuvium portulacastrum</i>	<i>Sesuvium portulacastrum</i>	<i>Sesuvium portulacastrum</i>	<i>Sesuvium portulacastrum</i>	<i>Sesuvium portulacastrum</i>		
midlow	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>		no visible macrofauna due to sediment mobility
	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>		
lower	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>		
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lower	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>		
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midlow	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>		
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lower	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>		
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midlow	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>		
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lower	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>		
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lower	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>		
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midlow	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>		
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lower	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>		
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midlow	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>		
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lower	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>		
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lower	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>		
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lower	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>	<i>Chrysomelids</i>		
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