



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

Current Dominated

- 10 - Bedrock or Sediment - CC 34 - VP/P/SP

CC Type

Rock Shore Types - characterized by a lack of classic sediments such as gravel or sand.

- 13 Rock Ramp, Wide
- 23 Rock Platform, Wide
- 24 Rock Cliff, Narrow
- 25 Rock Ramp, Narrow
- 26 Rock Platform, Narrow

Rock and Sediment Shore Types - rock and pockets of classic sediments

- 27 Beach with Gravel Beach, Wide
- 28 Platform with Gravel Beach, Wide
- 29 Cliff with Gravel Beach
- 30 Beach with Gravel Beach, Narrow
- 31 Platform with Gravel Beach, Narrow
- 32 Beach with Sand and Gravel Beach, Wide
- 33 Platform with Sand and Gravel Beach, Wide
- 34 Cliff with Sand and Gravel Beach
- 35 Beach with Sand and Gravel Beach, Narrow
- 36 Platform with Sand and Gravel Beach, Narrow
- 37 Beach with Sand Beach, Wide
- 38 Cliff with Sand Beach
- 39 Beach with Sand Beach, Narrow
- 40 Platform with Sand Beach, Narrow

Marine Muds

- 41 Mud, Muddy, permeable
- 42 Mud, Muddy, impermeable
- 43 Current Dominated
- 44 Channel
- 45 Tidal Lagoon

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 OC/CHL Original spp/hab table from Gwaii Haanas Habitat Classification Based on Visible Macro-Biota Assemblages for the Queen Charlotte shoreline									
SUBSTRATE STABILITY MAJOR SUBSTRATE	IMMOBILE SUBSTRATES					MOBILE OR PARTIALLY MOBILE SUBSTRATES			
	BEDROCK	BEDROCK	BEDROCK/BOULDER	BEDROCK/GRAVEL	BEDROCK/GRAVEL	SAND & GRAVEL	SAND & GRAVEL	ESTUARY or SAND/MUD	CURRENT-DOMINATED SEDIMENT
COASTAL CLASSES	1-20	1-20	1-23, 32, 33	1-23, 33	1-23, 33	24, 25, 26, 32	24, 25, 26, 32	27, 28, 29, 30	31
EXPOSURE	VE	E	SE	SP	VP, P	SP	VP, P	VP, P, SP	SE, E
COMMUNITY CODE (CHL-001)	1	2	3	4	5	6	7	8	9
upper	<i>Ferrucaria</i>	<i>Ferrucaria</i>	<i>Ferrucaria</i> <i>Enteromorpha</i>	<i>Ferrucaria</i> <i>Enteromorpha</i>	<i>Ferrucaria</i> <i>Enteromorpha</i>	<i>Ferrucaria</i> <i>Enteromorpha</i>	<i>Ferrucaria</i> <i>Enteromorpha</i>	<i>Ferrucaria</i> <i>Enteromorpha</i>	<i>Ferrucaria</i> <i>Enteromorpha</i>
middle	<i>Balanus glandula</i> <i>Mytilus californianus</i>	<i>Balanus glandula</i> <i>Mytilus californianus</i>	<i>Balanus glandula</i> <i>Mytilus californianus</i>	<i>Balanus glandula</i> <i>Mytilus californianus</i>	<i>Balanus glandula</i> <i>Mytilus californianus</i>	<i>Balanus glandula</i> <i>Mytilus californianus</i>	<i>Balanus glandula</i> <i>Mytilus californianus</i>	<i>Balanus glandula</i> <i>Mytilus californianus</i>	<i>Balanus glandula</i> <i>Mytilus californianus</i>
midlow	<i>Alaria 'nana' morph</i>	<i>Alaria 'nana' morph</i>	<i>Haliotis glandifera</i> <i>Codium fragile</i>	<i>Haliotis glandifera</i> <i>Codium fragile</i>	<i>Haliotis glandifera</i> <i>Codium fragile</i>	<i>Haliotis glandifera</i> <i>Codium fragile</i>	<i>Haliotis glandifera</i> <i>Codium fragile</i>	<i>Haliotis glandifera</i> <i>Codium fragile</i>	<i>Haliotis glandifera</i> <i>Codium fragile</i>
lower	<i>Laminaria saccharina</i> <i>Laminaria setchellii</i> <i>Enteromorpha flexilis</i> <i>Enteromorpha flexilis</i> <i>Enteromorpha flexilis</i>	<i>Laminaria saccharina</i> <i>Laminaria setchellii</i> <i>Enteromorpha flexilis</i> <i>Enteromorpha flexilis</i> <i>Enteromorpha flexilis</i>	<i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i>	<i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i>	<i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i>	<i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i>	<i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i>	<i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i>	<i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i> <i>Laminaria setchellii</i>
subtidal	<i>Enteromorpha flexilis</i> <i>Enteromorpha flexilis</i> <i>Enteromorpha flexilis</i>	<i>Enteromorpha flexilis</i> <i>Enteromorpha flexilis</i> <i>Enteromorpha flexilis</i>	<i>Enteromorpha flexilis</i> <i>Enteromorpha flexilis</i> <i>Enteromorpha flexilis</i>	<i>Enteromorpha flexilis</i> <i>Enteromorpha flexilis</i> <i>Enteromorpha flexilis</i>	<i>Enteromorpha flexilis</i> <i>Enteromorpha flexilis</i> <i>Enteromorpha flexilis</i>	<i>Enteromorpha flexilis</i> <i>Enteromorpha flexilis</i> <i>Enteromorpha flexilis</i>	<i>Enteromorpha flexilis</i> <i>Enteromorpha flexilis</i> <i>Enteromorpha flexilis</i>	<i>Enteromorpha flexilis</i> <i>Enteromorpha flexilis</i> <i>Enteromorpha flexilis</i>	<i>Enteromorpha flexilis</i> <i>Enteromorpha flexilis</i> <i>Enteromorpha flexilis</i>

