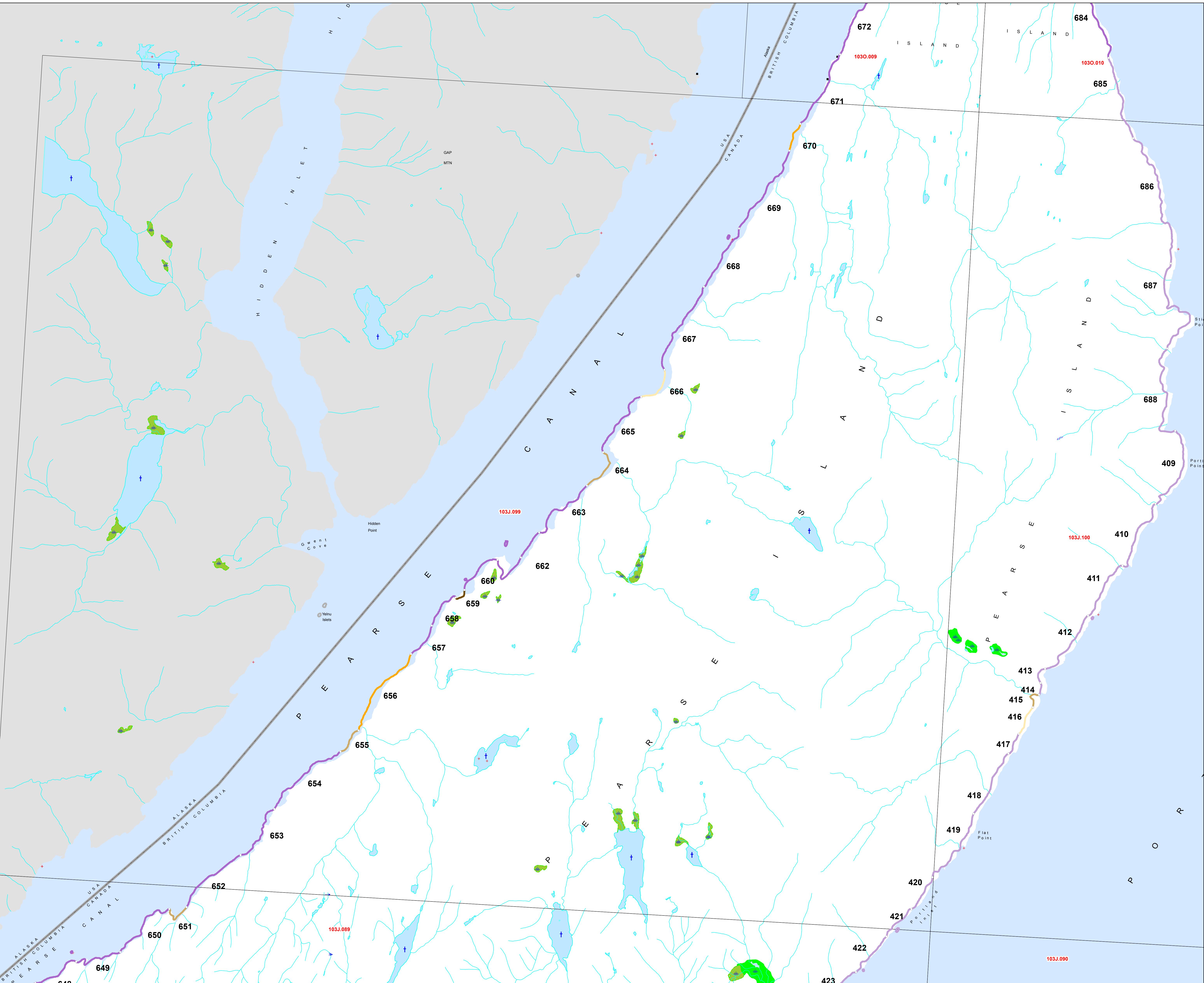


Data Source:
Shoreline Type
GeoBC Coastal Resource Shorezone Database, 2008
Base Information
1:20,000 GeoBC Terrain Resource Information
Management (TRM) Database

1:20,000
0 0.25 0.5 Kilometers
N E S W

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/V	
Tidal Lagoon	
6 - Tidal Lagoon - CC 35 - VP/P/SP	
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	
11 - Bedrock or Sediment - CC 35 - VP/P/SP	
Rock Shores	
Rock Shores characterized by a lack of clastic sediments such as gravel or sand.	
1 Rock Ramp, Wide	Rock Ramp, Wide
2 Rock Platform, Wide	Rock Platform, Wide
3 Rock Platform, Narrow	Rock Platform, Narrow
4 Rock Platform, Narrow	Rock Platform, Narrow
5 Rock Platform, narrow	Rock Platform, narrow
6 Ramps with Gravel Beach, Wide	Ramps with Gravel Beach, Wide
7 Platforms with Gravel Beach, Wide	Platforms with Gravel Beach, Wide
8 Platforms with Gravel Beach, Narrow	Platforms with Gravel Beach, Narrow
9 Platforms with Gravel Beach, Narrow	Platforms with Gravel Beach, Narrow
10 Platforms with Gravel Beach, narrow	Platforms with Gravel Beach, narrow
11 Cliffs with Sand and Gravel Beach	Cliffs with Sand and Gravel Beach
12 Cliffs with Sand and Gravel Beach, Wide	Cliffs with Sand and Gravel Beach, Wide
13 Cliffs with Sand and Gravel Beach, narrow	Cliffs with Sand and Gravel Beach, narrow
14 Cliffs with Sand and Gravel Beach, narrow	Cliffs with Sand and Gravel Beach, narrow
15 Ramps with Sand and Gravel Beach, narrow	Ramps with Sand and Gravel Beach, narrow
16 Ramps with Sand Beach, Wide	Ramps with Sand Beach, Wide
17 Ramps with Sand Beach, narrow	Ramps with Sand Beach, narrow
18 Cliffs with Sand Beach, narrow	Cliffs with Sand Beach, narrow
19 Cliffs with Sand Beach, narrow	Cliffs with Sand Beach, narrow
20 Platforms with Sand Beach, narrow	Platforms 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 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 the Habitat Type, the biomapper looks at the along-shore Units as designated and described by the physical mapper, and:

1. reviews the physical bioband mapping for the biobands in the unit and looks for indicator species,
2. assigns a bio-breakage 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 (HAB_OBS), 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
	SAND & GRAVEL	SAND & GRAVEL	SAND & SEDIMENT	SEDIMENT	BEDROCK OR SEDIMENT	BEDROCK OR SEDIMENT	SE, E	SE, E		
MAJOR COASTAL CLASSES	BEDROCK	BEDROCK/BOULDER	BEDROCK/GRAVEL	BEDROCK/GRAVEL	24 - 30, 32	24 - 30, 32	24 - 30, 31	24 - 30, 31	34	35
EXPOSURE	1-20	1-20, 32, 33	1-23, 33	1-23, 33	SP	SP	VP, P	VP, P, SP	VP, P, SP	VP, P, SP
COMMUNITY CODE (old 100)	2	3	4	5	6	7	8	9	10	11
upper	Verrucaria	Verrucaria	Verrucaria	Verrucaria	Verrucaria	Verrucaria	grasses & rushes	algae & seagrass	Balanus glandula	
	Environicaria	Environicaria	Environicaria	Environicaria	Environicaria	Environicaria	algae & seagrass	algae & seagrass	Fucus distichus	
	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	Balanus glandula	no visible	microfoula		
	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus	Fucus distichus	microfoula	due to sediment		
middle	Polyplex polymers	Mytilus californianus	Mytilus californianus	Mytilus californianus	Mytilus californianus	Mytilus californianus	grasses & rushes	algae & seagrass	Balanus glandula	
	Mytilus californianus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	Semibalanus cariosus	algae & seagrass	algae & seagrass	Fucus distichus	
		Utricularia spp.	Utricularia spp.	Utricularia spp.	Utricularia spp.	Utricularia spp.	algae & seagrass	algae & seagrass		
mid low	Atria marginata morph	Hedophyllum sente	Phyllospadix scouleri	Laminaria groenlandica	Laminaria groenlandica	Laminaria saccharina	Laminaria saccharina	Laminaria saccharina		
				Alaria marginata morph	Alaria marginata morph	Zostera marina	Zostera marina	Zostera marina		
lower	Lessonia littoralis	Lithothamnion		Laminaria saccharina	Laminaria saccharina	Laminaria saccharina				
subtidal	Nereocystis laevigata	Nereocystis laevigata	Macrocystis integrifolia	Nereocystis laevigata	Nereocystis laevigata	Macrocystis integrifolia	Macrocystis integrifolia	Macrocystis integrifolia		
			Agarum spp.			Agarum spp.				
			Strongylocodium franciscanum			Strongylocodium franciscanum				

