

Marine Plants – Important Algae Habitat 3 – Rocky Intertidal Substrate, Semi-Exposed or Semi-Protected Exposure Classes

description

The algae that form on the benthos are plant-like organisms, very diverse and very different in size, shape and colour; they are typically designated with the term seaweeds. Seaweeds occur on shores with a hard bottom or other type of stable surface. Rocky intertidal areas that are semi-exposed to waves were identified at the BC Marine Conservation Analysis (BCMCA) Marine Plant Experts Workshop in March 2007 as highly productive and important habitat for marine algae. In these areas, waves range from low levels in calm conditions to high wave exposure during storms.

This atlas page illustrates a summary of shore morphology and substrate in terms of 36 different coastal classes. Coastal Classes are derived from the BC Shorezone Mapping system, a systematic methodology for mapping the biophysical character of the Shorezone by way of aerial low tide oblique surveys for the entire BC coastline. The system involves the subdivision of the Shorezone into along-shore units and across-shore components. Coastal Classes are an overall indicator of repeatable collections of across-shore components contained within the unit defined by a systematic consideration of substrate, sediment, width and slope. This surrogate feature for algae habitat has been created by querying the coastal classes where rocky substrates are described as a major feature within the intertidal zone. This query was further refined to find rocky intertidal shoreunits that are semi-exposed or semi-protected to wave exposure. The coastal classes included are as follows:

Rock Ramp Wide	Rock Ramp with Gravel Beach Narrow
Rock Platform Wide	Rock Platform with Gravel Beach Narrow
Rock Cliff Narrow	Rock Ramp with Sand Beach Wide
Rock Ramp Narrow	Rock Platform with Sand Beach Wide
Rock Platform Narrow	Rock Cliff with Sand Beach Narrow
Rock Ramp with Gravel Beach Wide	Rock Ramp with Sand Beach Narrow
Rock Platform with Gravel Beach Wide	Rock Platform with Sand Beach Narrow
Rock Cliff with Gravel Beach Narrow	



PHOTO: 2009 FOTO FRIENDS



PHOTO: JACLYN MCPHADDEN

data sources

- Province of British Columbia - Shorezone Mapping System

data resolution

- Data from the BC Shorezone Mapping System is linked to shoreline segments that average approximately 400 metres in length. There are a total of 90,027 shoreline segments with some attribute information.

date collected

- 1979-2008

date compiled

- 2009

reviewers

- Robert DeWreede, University of British Columbia

reviewer comments

- None provided.

caveats of use

- Recommended date of expiry for use of these data in a marine planning context: None provided.

map, feature data and metadata access

- Visit www.bcmca.ca/data for more information.

references


- Habitat description contains material from the Province of British Columbia. 2007. 29 June 2010. www.ilmb.gov.bc.ca/risc/pubs/coastal/pysshore/phy-appendix-c.htm
- For more detailed information on the Coastal Classes of British Columbia as described in the BC Shorezone Mapping System (March 1995) see: www.ilmb.gov.bc.ca/risc/pubs/coastal/pysshore/index.htm

BCMCA Atlas

Marine Plants

Important Algae Habitat 3

Legend

-  Rocky Intertidal Substrate, Semi-Exposed or Semi-Protected Exposure Classes

Note:

- Thickness of shorezone segments has been exaggerated slightly to increase visibility at this scale.
- This dataset consists of coastal classes recommended as a surrogate for algae habitat including:

- Rock Ramp Wide
- Rock Platform Wide
- Rock Cliff Narrow
- Rock Ramp Narrow
- Rock Platform Narrow
- Rock Ramp with Gravel Beach Wide
- Rock Platform with Gravel Beach Wide
- Rock Cliff with Gravel Beach Narrow
- Rock Ramp with Gravel Beach Narrow
- Rock Platform with Sand and Gravel Beach Narrow
- Rock Ramp with Sand Beach Wide
- Rock Platform with Sand Beach Wide
- Rock Cliff with Sand Beach Narrow
- Rock Ramp with Sand Beach Narrow
- Rock Platform with Sand Beach Narrow

Data Sources:

Province of British Columbia - Shorezone Mapping System

Base Data:

ESRI Base Data, GeoBase, GeoBC, NOAA, Natural Resources Canada, USGS, Washington State Government

Thematic Data:

For more information on data sources and methods please refer to the facing page to this map

Projection: BC Albers NAD83

0 25 50 75 100 125 150

Kilometres

0 25 50 75

Nautical Miles

1:4,250,000

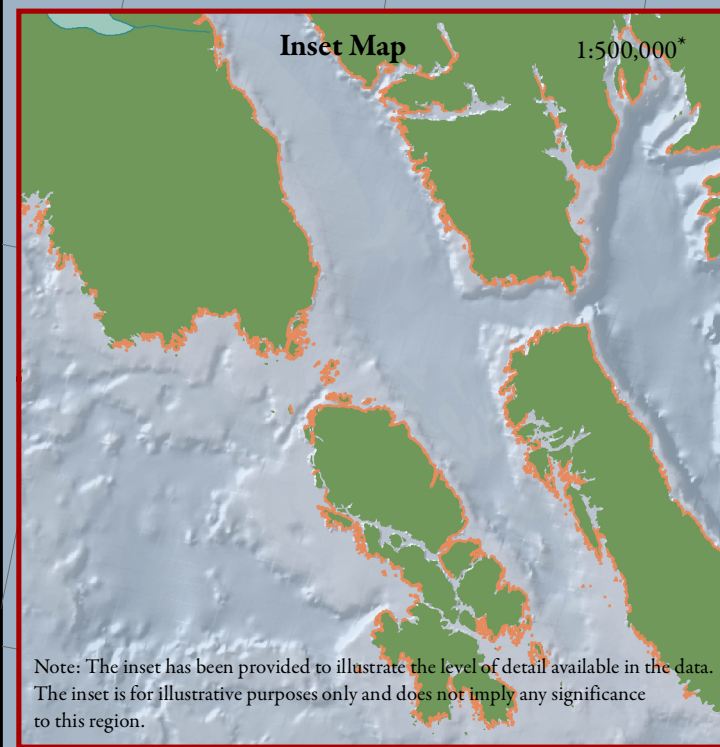
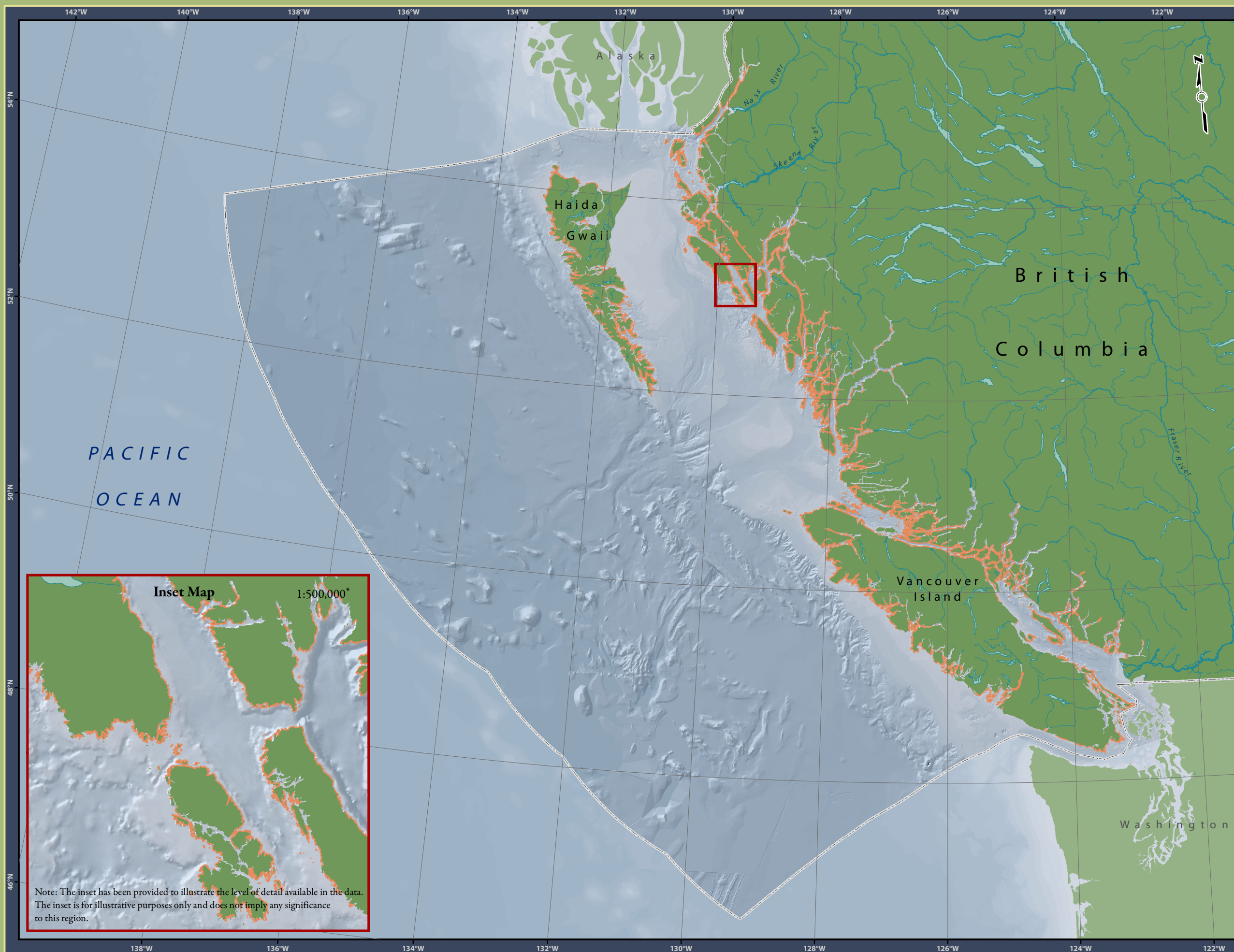
* Written scales are approximate and are based on a 11 x 17 inch paper size.

Prepared for:



Map template by Caslys Consulting Ltd.

May 7, 2013



Note: The inset has been provided to illustrate the level of detail available in the data. The inset is for illustrative purposes only and does not imply any significance to this region.