

Physical Representation – Shorezone Exposure

description

Shorezone exposure is a grade of the relative exposure to the elements in nature (primarily the ocean waves) that affect the coastline, which has been divided into shore units defined by the Province's Shorezone Mapping System.

Wave action is the primary process controlling morphology and biota in the shore zone, and indirect measurements are used to characterize the wave energy and wave exposure of the Exposure Unit. Exposure Units, defined by the Province's Shorezone Mapping System, are a collection of shore units with similar wave exposure and tidal characteristics. Morphology or substrate may vary from unit to unit but the coastal orientation and fetch window, or the length of water over which a given wind has blown, are similar enough that they are assigned the same Exposure Unit. (For the purposes of shorezone exposure mapping, substrates include rocks, plants, animals, boat bottoms, piers, debris and, less frequently, sand and mud.)



PHOTO: LIVING OCEANS SOCIETY



PHOTO: 2009 FOTO FRIENDS

data sources

- Province of British Columbia – Shorezone Mapping System

data resolution

- Data from the BC Shorezone Mapping System is linked to shoreline segments (shore units) that average approximately 400 metres in length.

date of analysis

- 2008

reviewers

- Kim Conway, Natural Resources Canada
- Zach Ferdana, The Nature Conservancy
- Carol Ogborne, Province of British Columbia

reviewer comments

- Exposure is considered highly important. Exposure should be combined with the coastal classes (i.e. very protected sand beach) and NOT have them separate (i.e. % very protected without indicating what coastal classes isn't very meaningful). *Note: this comment was recorded although not heeded because we had conflicting advice from developers of the Shorezone Mapping System.*

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



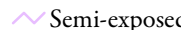
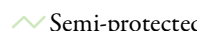

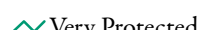
- Visit www.bcmca.ca/data for more information.

references

- For more detailed information on Exposure Classes and the Shorezone Mapping System of British Columbia (March 1995) see: www.ilmb.gov.bc.ca/risc/pubs/coastal/pysshore/index.htm

BCMCA Atlas
Physical Representation
Shorezone Exposure

Legend

-  Very Exposed
-  Exposed
-  Semi-exposed
-  Semi-protected
-  Protected
-  Very Protected

Data Sources:

Province of British Columbia - Shorezone Mapping System

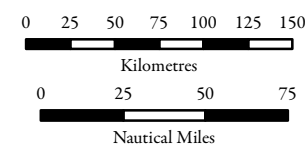
Base Data:

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



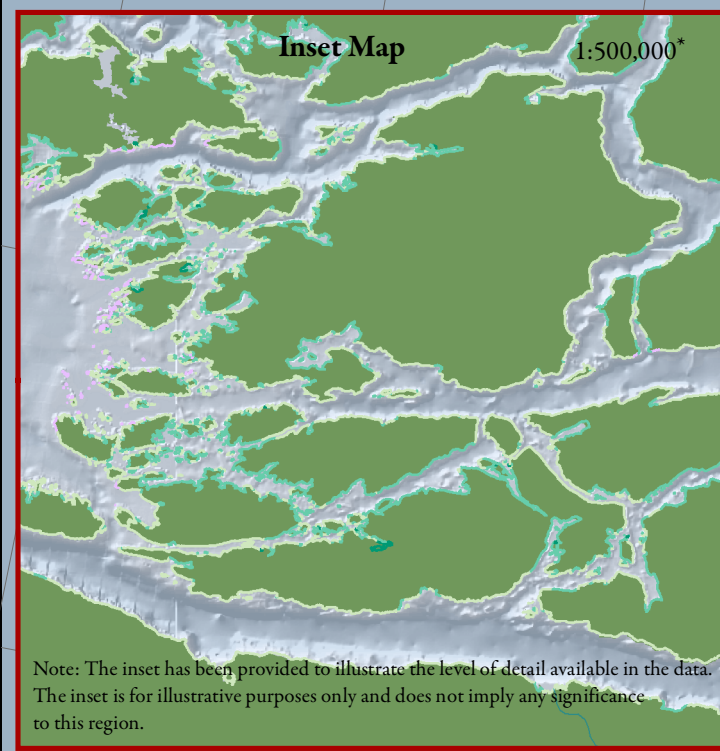
1:4,250,000 *

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

Prepared for:



Map template by Caslys Consulting Ltd.
 June 2, 2010



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.