Sat March 18, 11am-1pm

Bring cleats for packed trails

Contact: gees@unbc.ca

UNBC Geography, Earth, and Environmental Club Presents:

Pot O' Gold 🌞 Orienteering Race



Who: Everyone of all ages is welcome to join and learn to read a map and use a compass!

When: March 18th, 2023 11am - 1pm

Where: Moore's Meadow Nature Park (Meet at Zimmaro Park Playground on Zimmaro Ave)

What to bring: Warm layers, good shoes, and a compass if you have one

Cost: \$10/race entry + \$5 for each teammate

Bring your friends and family as there will be prizes and lots of fun to be had!

Email: gees@unbc.ca

Geog 205 Project 2023 (20+5%)

The intent of the GEOG 205 project is to complete a map from data collection to finished product, related to your program of study or areas of interest.

The project fills the last 3.5 weeks of the term lab periods.

We suggest you divide your time approximately as follows:

March 13-17: Data collection and assembly

March 20-24: Symbolisation and design

March 27-31: Layout and ancillary info final report/project due

1. Type of Map

The project is **completely open** but you could use labs 4-8 as 'models' of the type of map you prefer to make

a. Qualitative thematic / location map

b. Thematic - quantitative

c. Topographic

See below to view previous project maps.

2. Content?

■ Personal interests e.g. hiking, biking, dancing, dining

Home area or favourite travel location

Related to your major study or other courses

Wish you were there instead of here

Neat place in the news

3. **Geographic area**:

a. PG / BC

b. Other province

c. Other country

d. World / Other planet / other worlds ...

It could be anywhere / anything, but some data are easier to find

4. Scale / extent

... this determines the data to seek

a. Municipal (1:5k-10k)

b. Local (1:25k-50k)

c. Regional (1:250k-500k)

d. National ($\sim 1:1,000,000$)

e.Global (~ 1:10,000,000)

5. Size and shape (plan ahead)

Online publishing could be any shape/size, but assume you'd like to print

Size Options:

- **≻**Tabloid 11 x 17"
- **≻**Letter 8.5 x 11"
- **≻**Legal 8.5 x 14"

Shape options

- **≻**Landscape (often better)
- **≻**Portrait

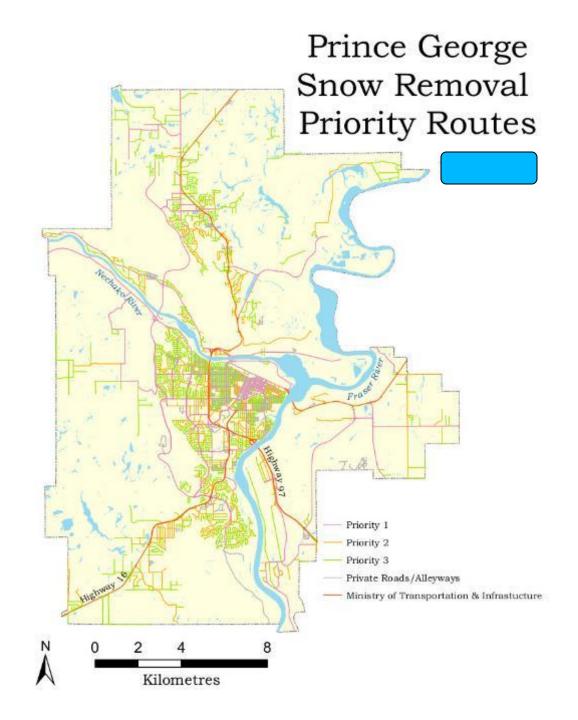
Square is less cool

Location maps

'general / qualitative'

municipal

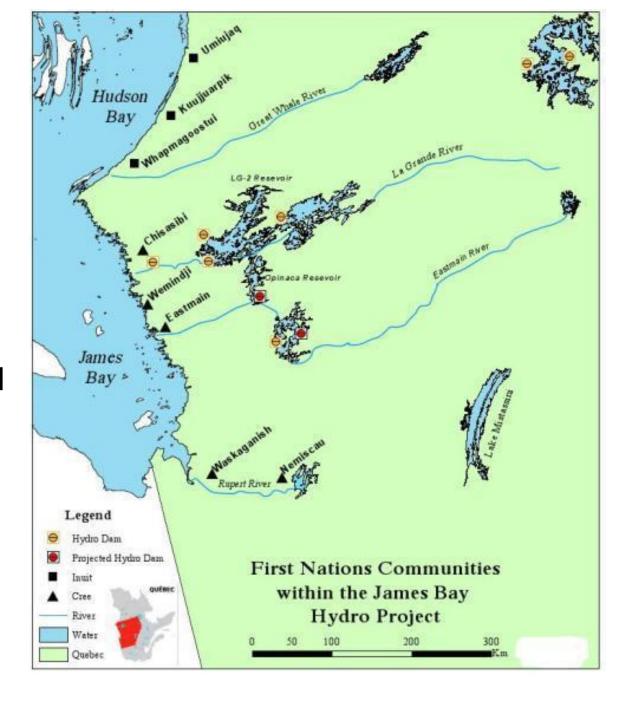
Way too much white space

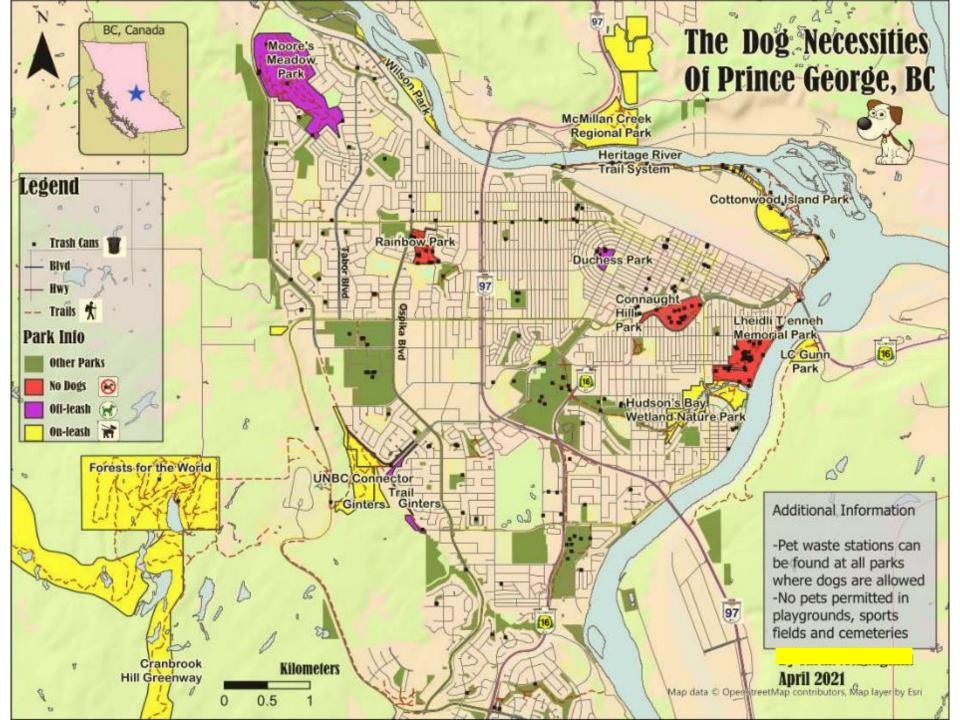


Regional

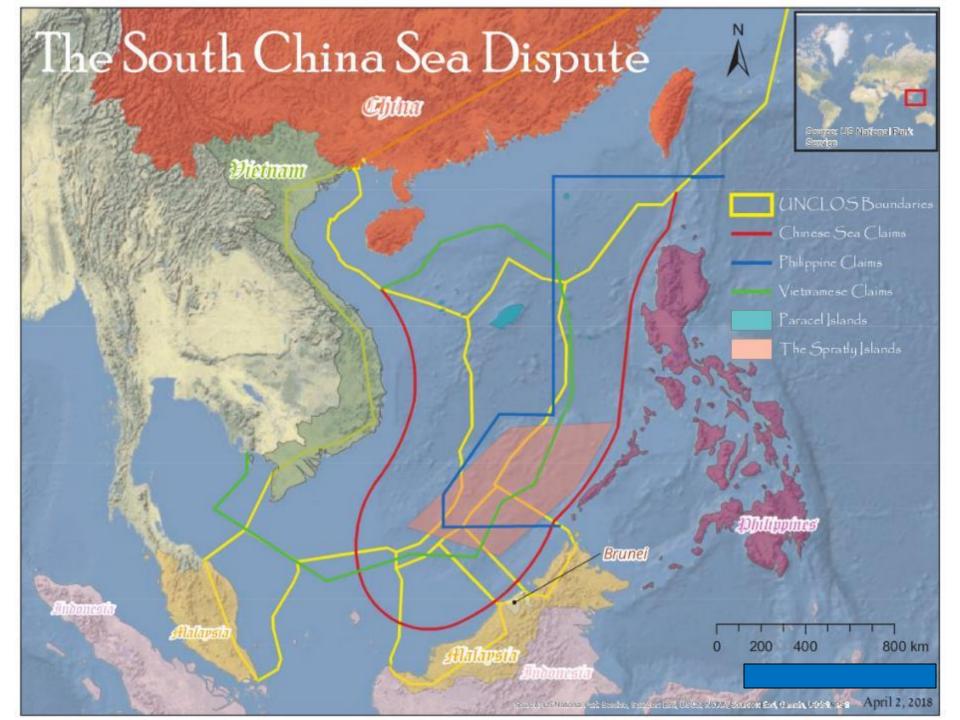
Lakes are too detailed

And attract attention









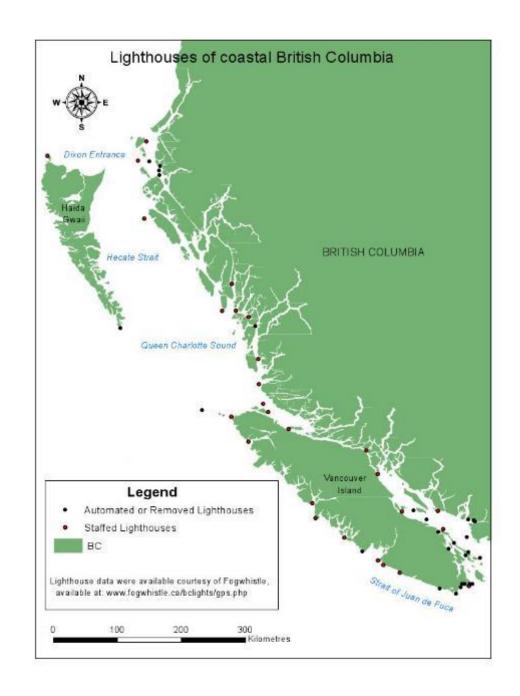
Distribution of big-eared bats (Nyctophilus spp.) and bat rescue facilities in Australia Timor Sea Coral Sea Indian Ocean **Northern Territory** Queensland Western Australia South Australia New South Wales Victoria Great Australian Bight Legend Australian Capital N. walkeri /// N. bifax Territory //, N. corbeni /// N. daedalus N. sherrini N. major // N. holtorum Tasman Sea Bat Rescue Facility N. gouldi Jasmania Species distribution data from Australasian Bat Society (2020/21). Bat rescue facility locations from Google Maps (2022). Administrative boundary data from Australian Bureau of Statistics GEOG 205 Map Project 500 (2021). Oceanic data from Princeton University. Bat wings clip art from FlyClipart. 1,000 km April 8, 2022

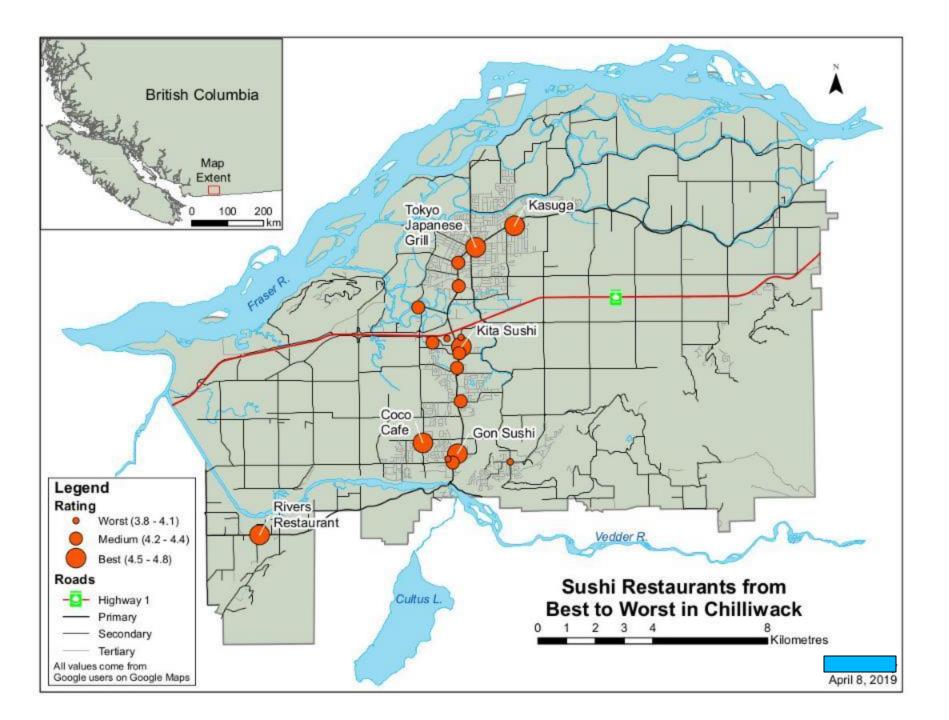
Thematic

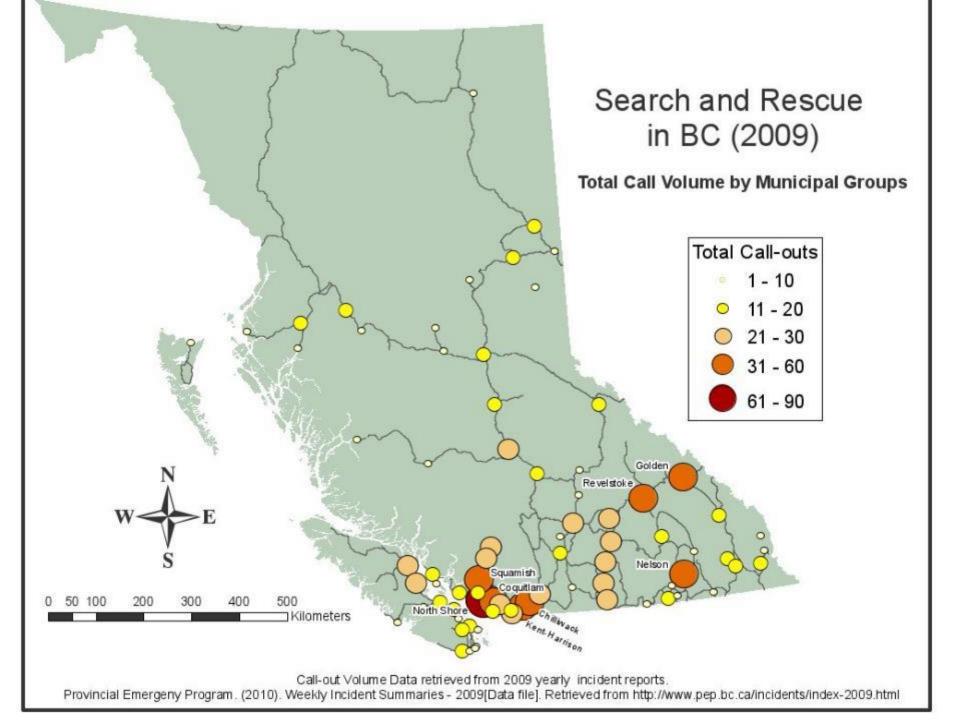
Quantitative

'Dot map'

regional



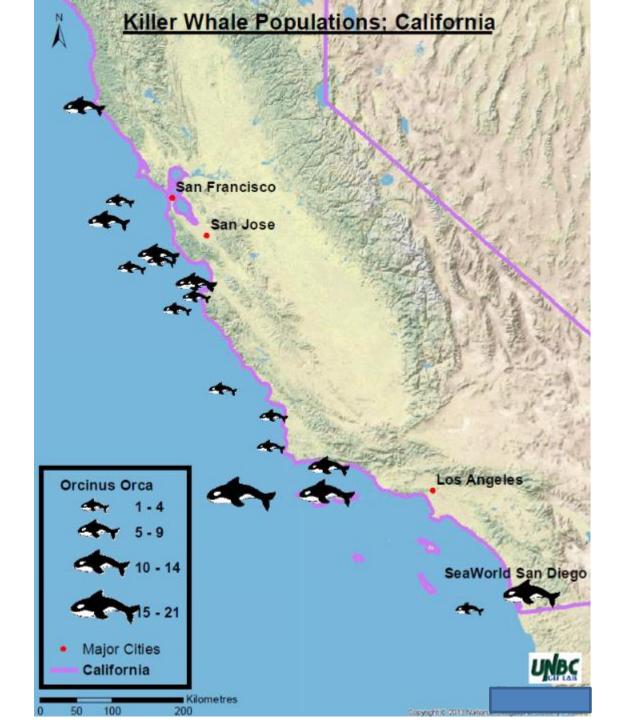


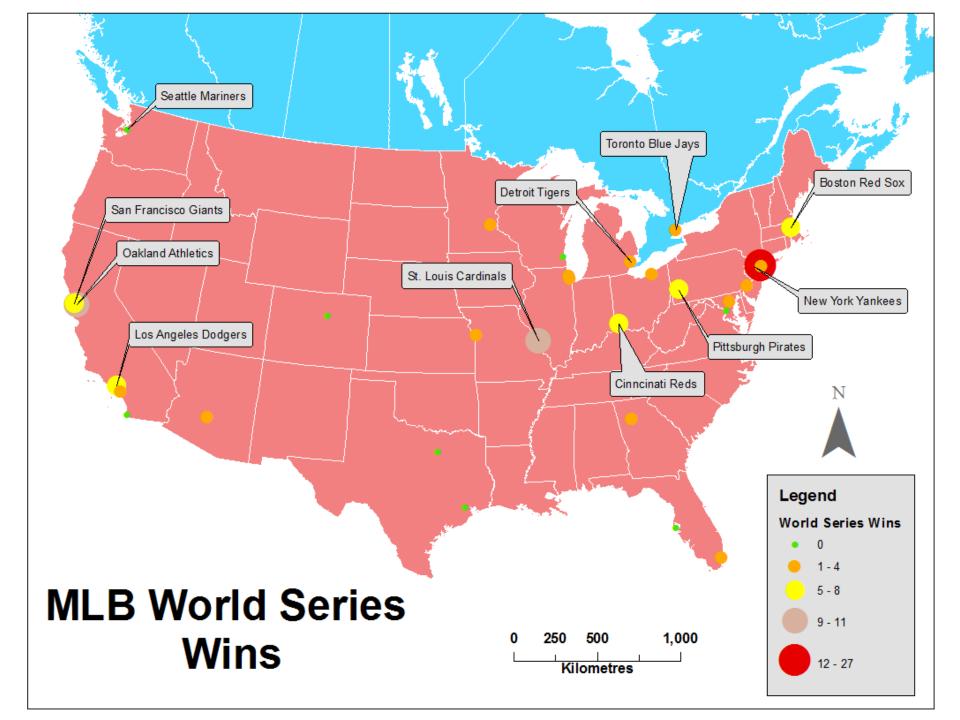


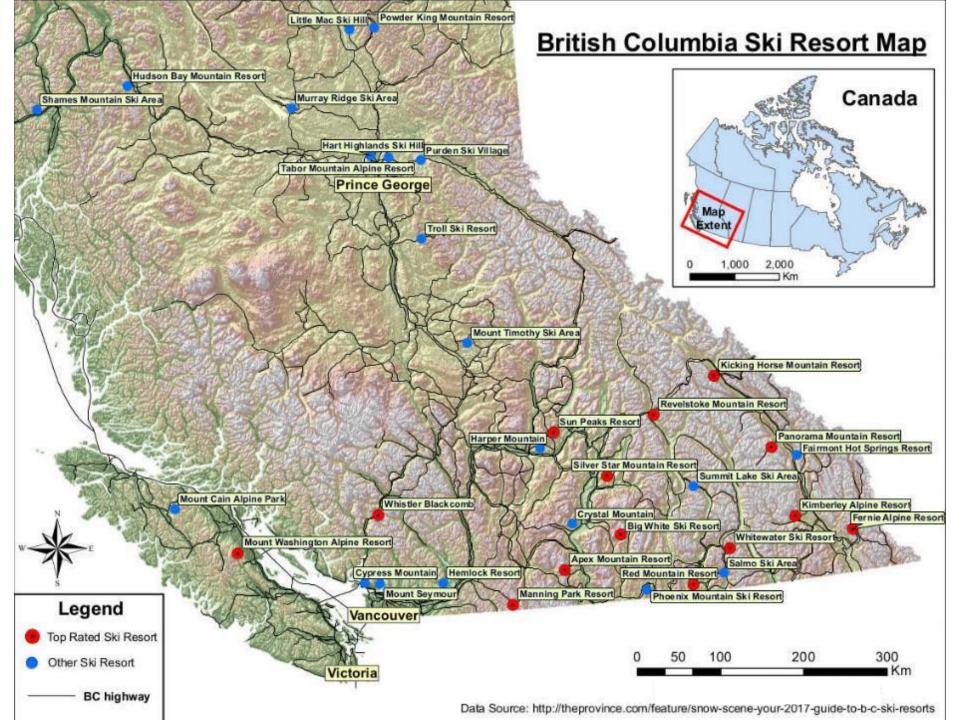
Thematic: quantitative

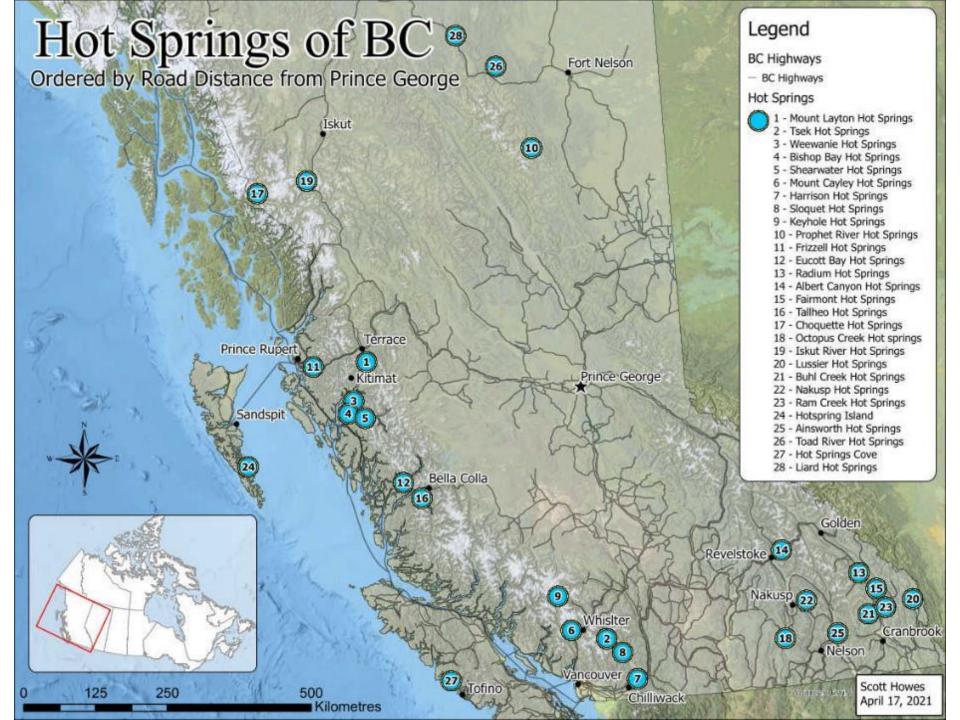
'Graduated Orcas'

Background terrain added from ArcGIS online

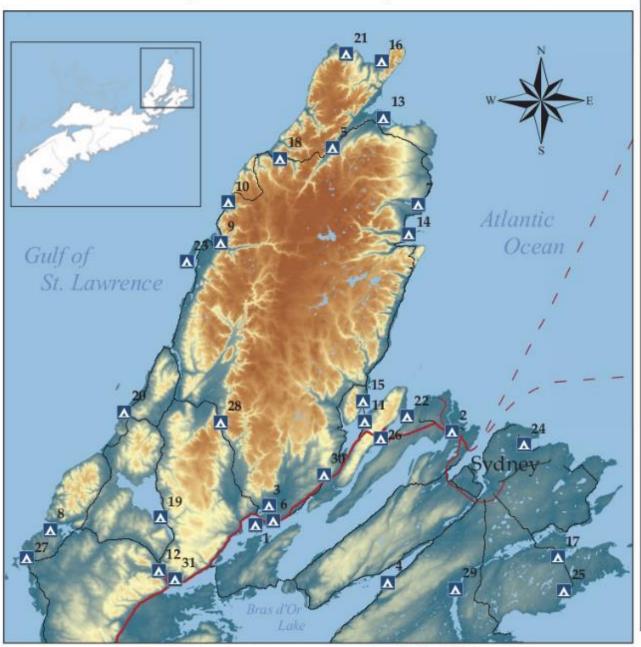








Campgrounds of Cape Breton Island, Nova Scotia



Legend

Roads

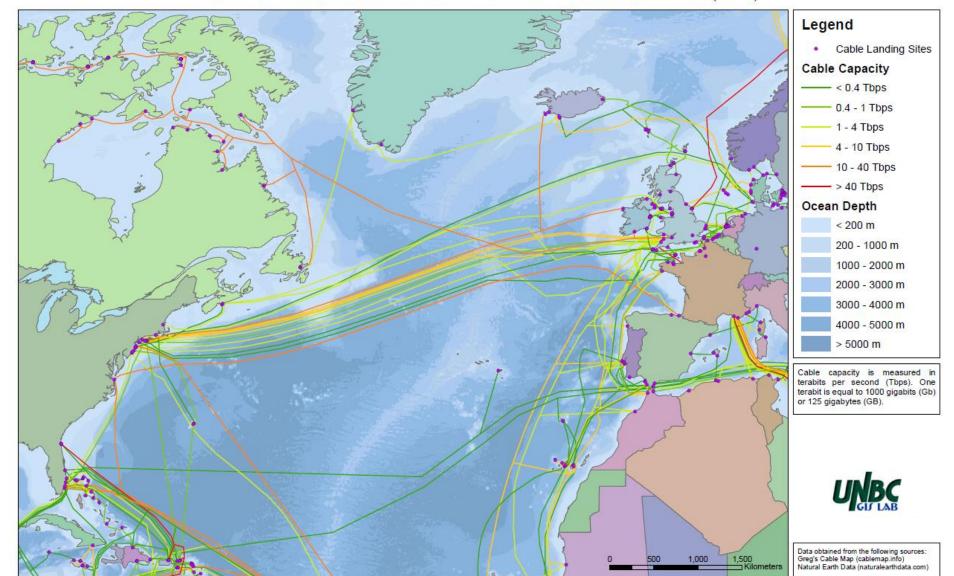
- Highway
- —— Secondary Highway
 - Main Road
- Ferry

Campsites A

- 1 Adventures East Campground & Cottages
- 2 Arm of Gold Campground and Trailer Park
- 3 Baddeck Cabot Trail Campground
- 4 Ben Eoin Beach RV Resort
- 5 Big Intervale Campground
- 6 Bras d'Or Lakes Campground
- 7 Broad Cove Campground
- 8 Ceilidh Cottages Campground
- 9 Cheticamp Campground
- 10 Corney Brook Campground
- 11 Englishtown Ridge Campground
- 12 Glenview Campground
- 13 Hide Away Campground & Oyster Market
- 14 Ingonsih Beach Campground
- 15 Joyful Journeys
- 16 Jumping Moose Eco-Camping
- 17 Lake View Treasure RV & Campground
- 18 MacIntosh Brook Campground
- 19 MacKinnon's Campground
- 20 MacLeod's Beach Campsite
- 21 Meat Cove Campground
- 22 Mountain Vista Seaside Campground
- 23 Plage St-Pierre Beach and Campground
- 24 River Ryan Campground
- 25 Riverdale RV Park
- 26 Seal Island/North Sydney KOA
- 27 Sunset Sands RV Park
- 28 The Lakes Campground
- 29 Two Rivers Wildlife Park Campground
- 30 Uisge Ban Falls Nature Campground
- 31 Whycocomagh Provincial Park

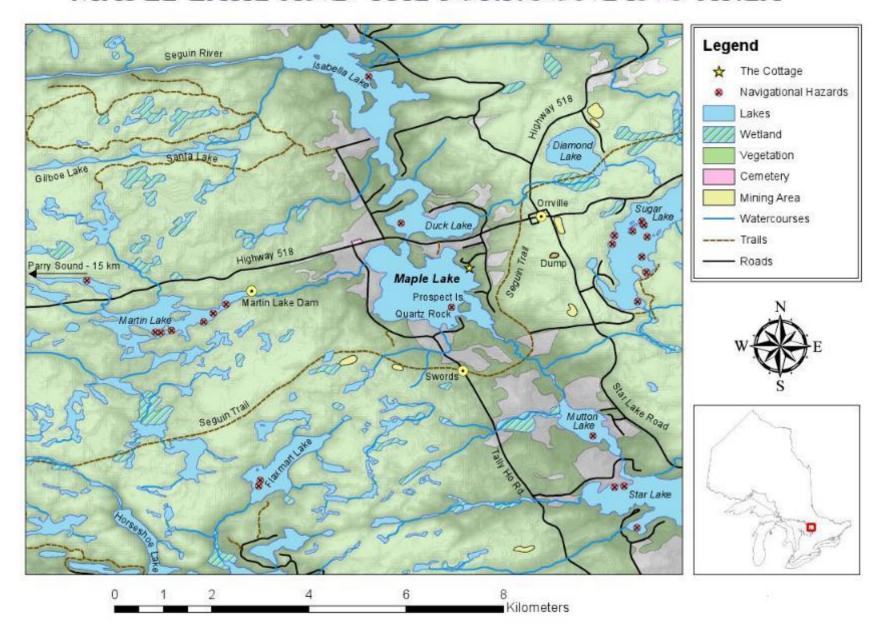
April 11, 2017

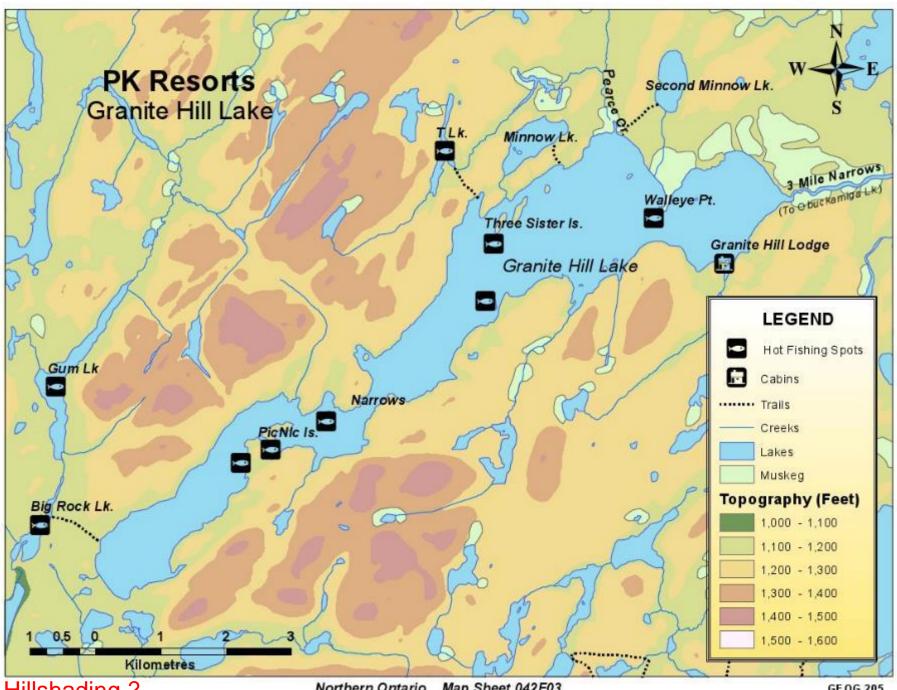
Undersea Communication Infastructure in the Northern Atlantic Ocean (2015)



Topographic maps

MAPLE LAKE AND THE SURROUNDING AREA





Tofino and the Surrounding Area Meares Island Tofino Inlet Cox Bay Downtown Tofino Airport Golf course British Columbia Lookout area Sandbars Wetland Rock outcrop Roads Pacific Ocean Creeks Picnic area 1,000 Kilometres Campground

Tints too heavy

7 Summits Challenge Route 2010 (Bakerville/Wells)



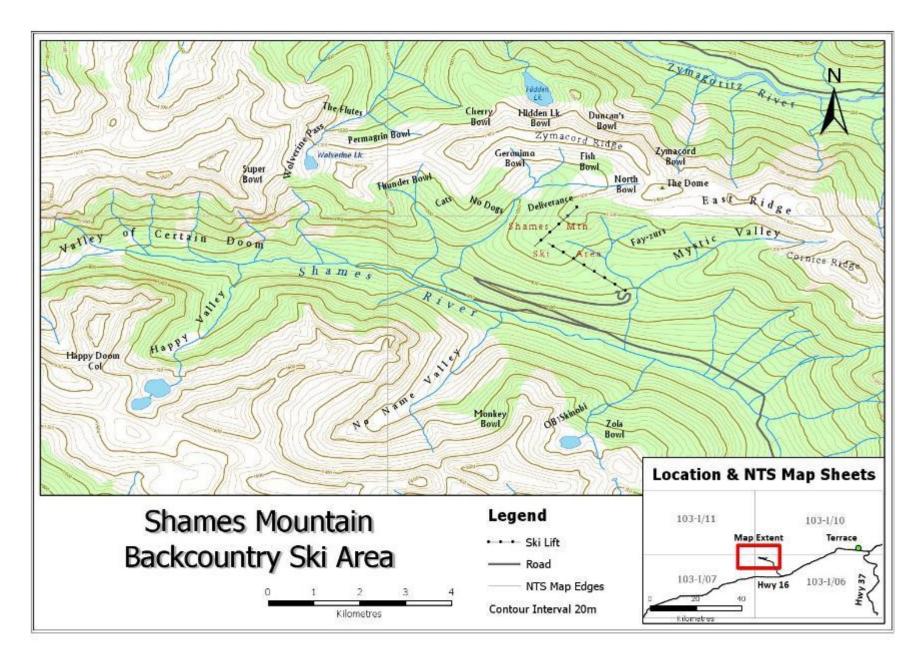


Note: This route is approximate as many "trails" were unmarked.



Data Source: Collected from www.geogratis.com and http://www.whitegold.ca/biking.html





Solid effort, but could use hillshading, data not projected?

Kaien Island Trails Prince Rupert, B.C.

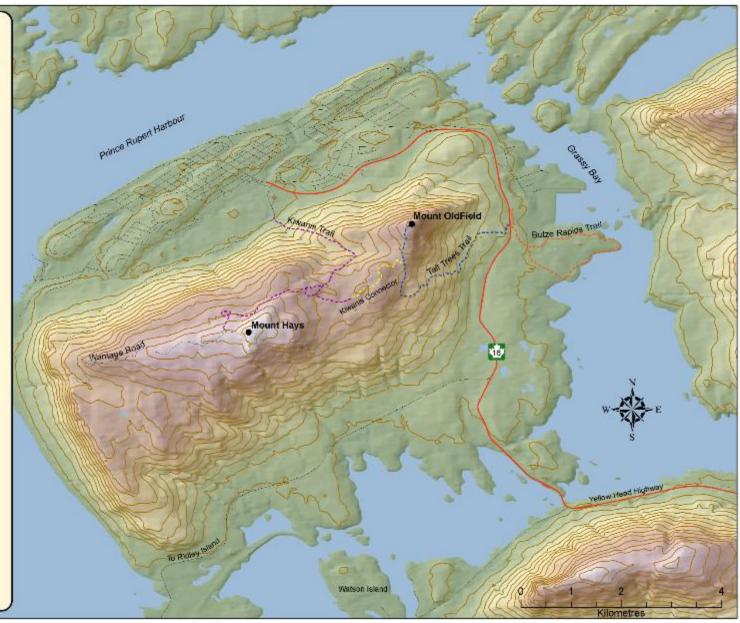
The small coastal city of Prince Rupert is home to some of the best trails for beginner and experienced hikers. Prince Rupert is situated on Kaien Island just below the Alaskan Panhandle in North West British Columbia. Kaien Island is dominated by two mountains, Mount Hays and Mount Oldfield. These mountains give Prince Rupert a variety of topography for hikers to explore.



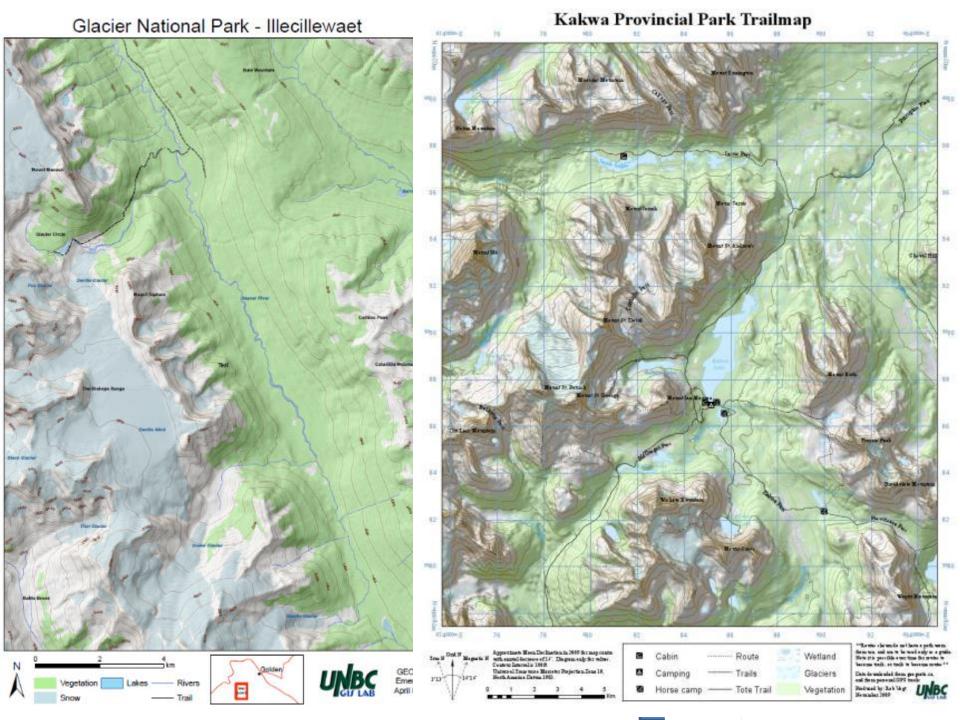
Butze Rapids is a wonderful beginners hike and introduction to the coestal waters of Kaien Island. The hike is an easy walk through 1.8km of looping old growth forest You can head to the lookout to view the rapids or take a rest at Grassy Bay and take in the coast.

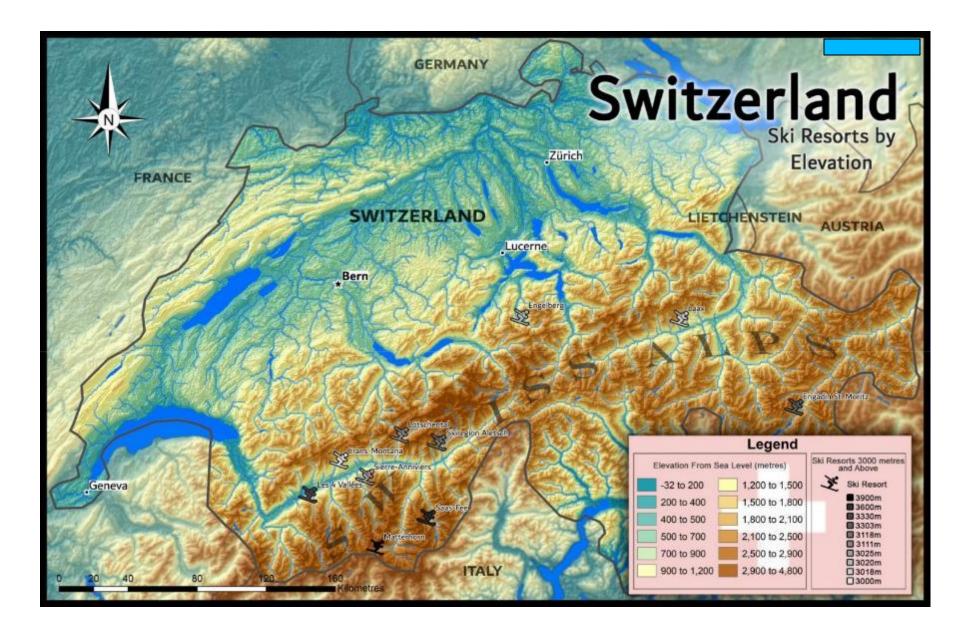
Tall Trees Trail and the Kiwanis Trail are scenic hikes for more experienced hikers. It is recommended to do this trail when rain has been scarce as the terrain can become quite difficult. Once at the top a stunning view of Prince Rupert from atop of either Mount Oldfield, or if you are willing to do a bit of bushwacking. Mount Hays:



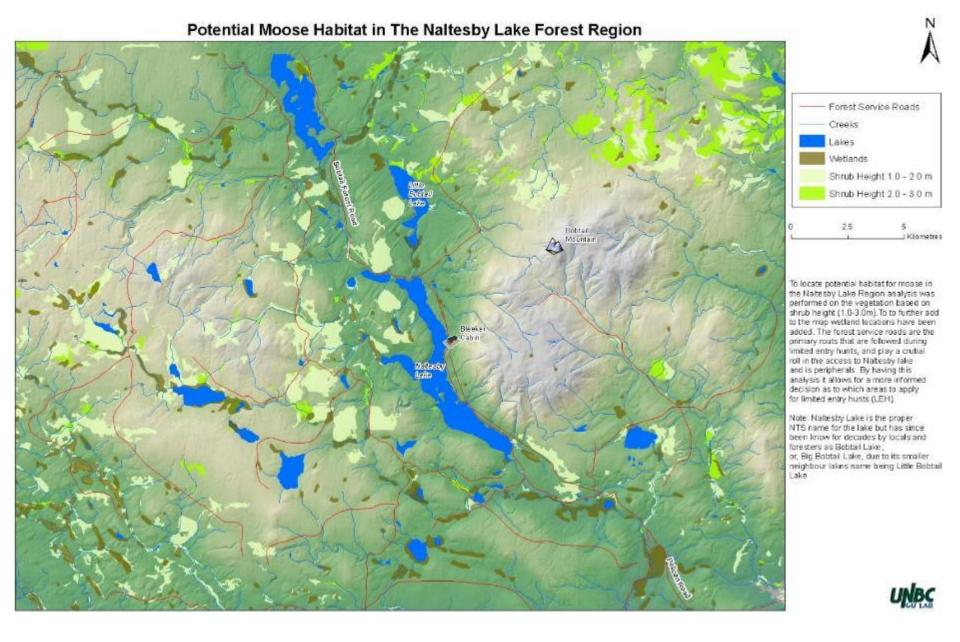








Vegetation Resource Inventory (VRI) data



Canada summary

Municipal data: sometimes available

Municipalities and provinces: http://canadiangis.com/data.php

Provincial 1:20,000 mapping (Bold = free download)

BC, AB, MB, ON (south = 50°N), QC (south), NS, NB, PEI

Canada (NTDB) provinces /territories:

http://maps.canada.ca/czs/index-en.html

NTDB mapping only

SK, NL, ON (north), QC (north) NT, NU, YT *

•Yukon Geomatics: http://www.geomaticsyukon.ca/

Other countries: highly variable - from free download to military only http://www.diva-gis.org/Data

Project Data sources

This page only loads on campus

https://gis.unbc.ca/support/access-datasets

copy of BC Roads here:

https://arc.gis.unbc.ca/portal/home/item.html ?id=69c263e9f07c4766b755f650574ab728

Major roads only (for faster loading)

https://arc.gis.unbc.ca/portal/home/item.html ?id=473f96ebe3bc4e229a73867f0ad11580

https://data-cityofpg.opendata.arcgis.com



Access Datasets

Table Of Contents

- · In the Lab:
 - · BC TRIM
 - · QGIS:
 - o ArcGIS Pro:
 - Open Street Map
 - WMS Tiles
 - Vector Features
 - o BC DEM (1:20,000)
 - World DEM (3")
 - World Administrative Boundaries
- · External Sources:
 - Municipal Data
 - Prince George
 - Kamloops
 - Earth Explorer
 - o Open Data Hub
 - British Columbia Data
 - o National Topographic System (Canada)

Common project errors to avoid

- Project data (from geographic) if needed
- Avoid nonsense scale bars
- Avoid silly defaults e.g. striped tie wetlands
- Typos in name labels and ancillary info
- Maximise use of space for the map content
- Don't include other maps as background (some layers OK)
- Don't overdo use of text halos
- Don't leave it all to the last week ...