Geog 205 Project 2020 (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 3-4 weeks of the lab periods.

We suggest you divide your time approximately as follows:

March 22-26: March 29-April1: April 6-9: April 12-16: April 19: Data collection and assembly Data assembly - (no friday lab) Symbolisation and design Layout and final report project due

1. Type of Map

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

a. Qualitative / location map

- **b.** Thematic quantitative
- c. Topographic

check the 'Projects' link (tutorials) to view previous project maps.

2. Content ?

•Personal interests e.g. hiking, biking, dining etc..

Related to your major study or other courses

Home area or favourite travel location

Wish you were there instead of here

Neat places 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** (< 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**" (closest to the golden ratio)
- ≻Letter 8.5 x 11"
- ≻Legal 8.5 x 14"

Shape options

Landscape (often better)

➢Portrait

Square is less cool



The West Indian Manatee: Manatee County, FL



Lakes are too detailed The detail/texture adds too much 'figure'

Regional





April 2, 2018

Thematic

Quantitative

'Dot map'

regional







Thematic: quantitative

'Graduated Orcas'

Background terrain added from ArcGIS online









Undersea Communication Infastructure in the Northern Atlantic Ocean (2015)

Vegetation Resource Inventory (VRI) data



Topographic maps (?)



Campgrounds of Cape Breton Island, Nova Scotia



Could have used hillshading ?

April 11, 2017

Legend Roads - Highway Secondary Highway Main Road · Ferry Campsites 🔼 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 - Ingonsib 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 - Reverdale RV Park 26 - Seal Island/North Sydney KOA 27 - Sunset Sands EV Park 28 - The Lakes Compground 29 - Two Rivers Wildlife Park Campground 30 - Llisge Ban Falls Nature Campground 31 - Whycocomagh Provincial Park 45 24 30

Kilometres

MAPLE LAKE AND THE SURROUNDING AREA





Northern Ontario Map Sheet 042F03

7 Summits Challenge Route 2010 (Bakerville/Wells)



Tofino and the Surrounding Area



Nice balance - too bad about the wetlands !



Solid effort, but could use hillshading, heights and must project to UTM

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 Kalen Island just below the Alaskan Panthandle in North West British. Columbia Kalen Island is dominated by two mountains. Mount Hays and Mount Oldfield These mountains give Prince Rupert a variety of topography for tikkers to explore.



Butze Rapids is a wonderful beginners hike and introduction to the coastal waters of Kalen Island. The hike is an asity 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.

Tail 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 guite difficult. Once at the top a sturning view of Prince Rupert from stop of atther Mount Oldfield or if you are willing to do a bit of bushwacking, Mount Hays.





Highly visual but Contours undifferentiated, no heights given

Glacier National Park - Illecillewaet





1	25 5	Charitation (
thi	Enclosed Shelter	SWetlands
	Campgrounds	Gatiers
	Mountary Peaks Traits	Elevation (m) High 2005
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Mount Assiniboine Area



Presented in article and the second s

Mag Aufter Jerons Downson tempoers 201 Cartography and Concernso Dr. Hoppe Whoma April 3, 2010



Topographic Map Options: Canada

Select a map sheet portion or map AOI and enhance design – your map can be a portion of a map sheet – or multiple sheets

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

Download

Remember to select the web Mercator option (not Geographic – or project it)

-Use 'Geospatial download tool' for area that crosses map sheets:





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: <u>http://www.geomaticsyukon.ca/</u>

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

Municipal data - not always accessible (1:5,000)

PG data - since 2011: <u>http://princegeorge.ca/cityservices/online/odc/Pages/default.aspx</u>



From aerial photography – downloadable from PG city site or UNBC GIS Lab Other communities: <u>https://canadiangis.com</u>

User generated data (by digitizing, GPS etc..): <u>http://www.openstreetmap.org</u>



Common project errors to avoid

- •Remember to project data (from geographic) if needed
- •Nonsense scale bars
- •Avoid Ugly defaults e.g. striped tie wetlands
- •Typos in name labels and ancillary info
- •Maximise use of space for the map content
- •Don't leave it all to the last week ...

Map project evaluation – 25 %

➤Text description / rationale

Symbolisation / contrast / layers

Labelling – place names

Ancillary information / layout

Overall complexity / 'gestalt'