

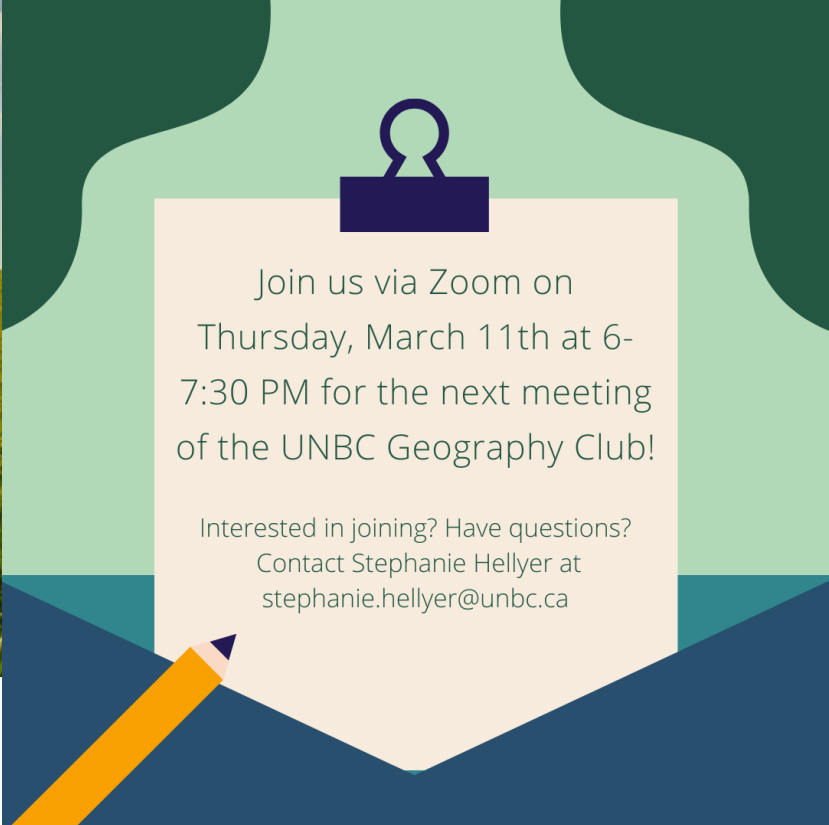
Grad School Information Night (GEOG/ENSC Students)

Wednesday 17 March, 6:00 – 7:00 pm

Zoom: <https://bit.ly/3eofbkm>

Passcode: 066058

- Undergraduate Students
- Graduate Students
- Faculty
- Q+A, Breakout Rooms, Advice



Join us via Zoom on
Thursday, March 11th at 6-
7:30 PM for the next meeting
of the UNBC Geography Club!

Interested in joining? Have questions?
Contact Stephanie Hellyer at
stephanie.hellyer@unbc.ca

A scenic view of a sunset over a valley. The sun is low on the horizon, casting a warm glow over the landscape. In the foreground, there are evergreen trees and a body of water. In the background, there are mountains and a valley filled with a light mist or fog. The sky is a mix of orange, yellow, and blue.

Weather Observation & Analysis Project

Report Requirements & Writing Tips

See Course Manual Part III, pages 10+

What Makes a Bad Report?



Unclear thoughts & expression



Doesn't meet objectives



Findings are not supported








Irrelevant /off-topic material



Badly organized

What Makes a Bad Report? (continued)

-  Too long / too short
-  Unprofessional writing, too much jargon
-  Poor grammar & spelling
-  Figures & captions are unclear
-  Incorrect / inadequate referencing

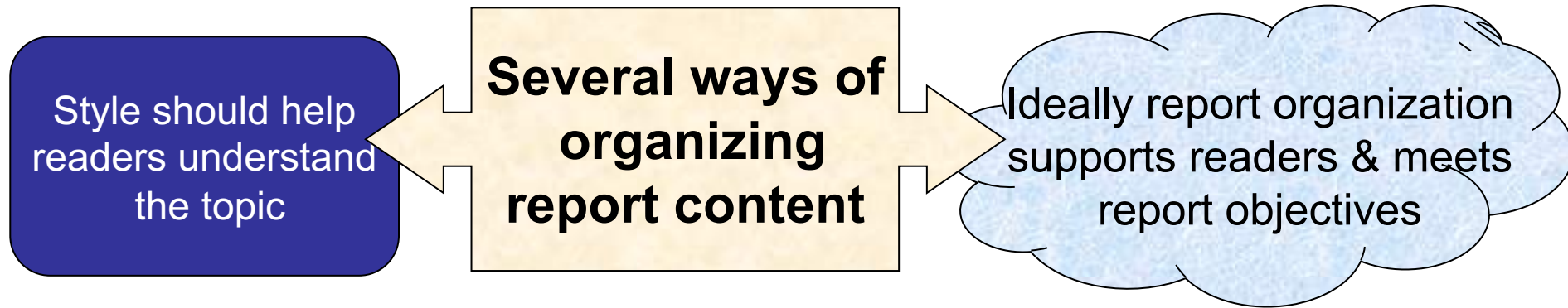
What Makes a Good Report?

- ▶ Message is clear & concise
- ▶ Meets report objectives & information is relevant
- ▶ Findings are well supported by data & explanations
- ▶ Report logically leads the reader through content

What Makes a Good Report? (continued)

- ▶ Length is appropriate
- ▶ Writing is professional, precise, organized & easily understood
- ▶ Figures, graphs & Tables enhance & explain points
- ▶ Referencing is sufficient & correct

Structuring a Report



Considered, organized thoughts help you write clearly & succinctly

- ▶ Outline your content, use clear points that relate to your objectives.
- ▶ Organize content logically to tell the weather story
- ▶ Create & sequence headings/sub-headings that act as signposts for your content


Our Report:

A Case Study -- *No hypothesis to test!*

Consider report elements: **See Appendix A pp. 10+**

Especially: Your Report Body integrates ~~Results & Discussion~~ information

But these heading don't work for case studies



Choose an organization, headings /subheadings that aids your telling of this case (i.e. weather story)

WxPrj report: Case study of weather & its cause(s) during our 4-day period

WHAT happened? [when?] Why?

Organize by: weather event(s)? day by day? day verses night? specific similar time periods?...

What makes the most sense? What are the major sections?

- *use working headings /subheadings.....*
- *list key points.....with evidence from ...source(s)*
- *then write from your points.....*

Make a realistic time-plan

Writing always takes longer than expected...

Allow time for analysis

Know what to write before you start! Determine your case (**weather story + evidence**).

- understand the **local weather** from local data (two graphs & diary)
- understand the **synoptic controls** on our 4-days of weather; identify & follow storm(s) patterns on synoptic images.
 - organize the synoptic data (satellite images & surface maps) by time.
 - view them in time sequence (view all satellite images in order by time; view all surface maps by time);
 - pair a satellite image & a surface map for the same time, then view the paired images in order by time

- **consider patterns** – look for weather data linkages & relationships. Visually integrate specific local & synoptic information by time; your interpretation(s) tell your weather story.
- **identify and use specific supporting evidence for your interpretations.** Support your analysis with evidence from your local &/or synoptic data; use multiple evidence sources when possible.
- **state how the evidence you identify supports your ideas.** For our observation period support what weather happened & why. Make your best case!

Write & make time for Editing!

Get your thoughts on paper, **but then revise & edit**

Plan multiple edits, each with a specific /different purpose!

Key edit types & stages.

- 1) Revise for content, meaning & structure;** Get your information right. Put it in a logical order. Communicate it well. Check for clarity of thought & expression. **Needs multiple edits.**
- 2) Edit** for grammar, punctuation, word choice, proper citations /referencing & other stylistic aspects of the report **at the very end.**

Wx Proj Report Contents:

Table of Contents

Lists report sections & page numbers

(Don't forget to number your pages)

Use report headings & subheadings

Outline when you start

Finalize last

Report Contents continued:

Introduction

States report objectives

Gives a context for your report

What should be included?

Often best to write it last

Methods - How the project was done

- section is minimal BUT has enough to show the reader what was done.
- overview methods; always refer to original /published sources for method details whenever possible (only detail methods when they are not available elsewhere)

Course Manual Part III is our method. Consider it a published document. Provide an overview of the project then cite and reference Part III so readers can find the details. Indicate specific page numbers in your citations when sources are longer than 30 pages.

Report Body ← *Not an experiment*

~~No Results /Discussion~~ **sections!**

- create your own descriptive headings & subheadings to guide the reader
- case studies are an analysis & explanation of events & their cause(s) based on evidence
 - ▶ start with main events & their explanation
 - ▶ look for patterns, look at larger then finer time & spatial scales
 - ▶ support your statements with evidence; use multiple sources of evidence whenever possible

How much detail? What evidence? How to decide?

Figures (graphs, maps, images, tables, etc.)

Summarize & efficiently communicate

- 1 good figure = 1 kiloword!
- provides evidence
- must be mentioned in the report body
- located close to where they are first discussed; ideally, readers should view a figure when reading about it
- are numbered in order of their appearance in the report (Figure 1 is the first figure discussed in the text...)
- have captions

Report Contents continued:

Figures (continued)

- should have a purpose & impact - modify /annotate /create:
 - use **colours** to indicate points or features of interest to your “story”. (Hand drawn is fine for this report – we are not evaluating your use of graphics packages / artistic skills. Ensure each image clearly provides your message.
 - crop /pair /overlay / highlight weather maps, satellite images, graphs. Locate points of interest, PG, province of BC, fronts, etc.
 - create original images when helpful
- compared figures are on the same page

Report Contents continued:

Figures (continued)....

Embedded in the text **versus** in an **Appendix**

A report style issue - **we require embedded figures!**

All figures (graphs, maps, tables, etc.) **are located where they are first discussed in the report body.**

Only use appendices for required, but less applicable information /data that would detract from the case study if it were inserted in the report body (e.g. the required Appendix I and II: weather diary, data rationalization)

Other than the required two appendices, we generally recommend **not** using additional appendices

Report Contents continued:

Figure Captions

- introduce the figure
- make a figure's content & purpose clear BUT doesn't discuss or interpret the figure
- often refers to figure elements or annotations to aid understanding /discussion /interpretation in the report body
- includes a citation where needed
- are placed consistently with respect to the figure (usually on the bottom)

Report Contents continued:

Conclusion(s)

A brief report synopsis

- based on information already presented in the report body
- briefly restates your key findings & evidence
- your report's "take-home message"

References

Referencing:

Why Cite & Reference?

- Identifies where to find more information on a topic
- Provides credibility for an argument or statement
- Properly credits the work / ideas of others
- Shows you know related literature
- Streamlines. By summarizing & referring to other material you avoid plagiarism /redundant information
- Don't cite your own work unless it's published elsewhere
- Others? **Boosts your writing marks**

Referencing: (continued)

All sources must be cited in the report body

(where you discuss the source's information in your report)

Each citation has a complete reference (and is

listed in your References section)

Complete citations & references allow readers to find your sources and know what information to expect from them

Citation & reference requirements /details are defined by the referencing style

Referencing: (continued)

Use **American Psychological Association (APA) 6th Edition** style:

References & in-text citations are (author year) format; longer references require specific page number(s)

What information needs to be included?

- Find APA-6 information (good short synopsis) on the UNBC Academic Success Centre, Handouts webpage:
<https://www2.unbc.ca/sites/default/files/sections/academic-success-centre/apa-6th-02-2013.pdf>
- *What about website references?*

APA-6 Referencing Examples:

APA-6 reference for a website that hosts a pdf of a document written by an organization:

Food and Agricultural Organization of the United States. (2015). *Agriculture under a climate change regime*. Washington (DC): FAO Press. Retrieved from <http://www.fao.org/agri-clim-change/en/pdf-booklet> [online report]

[Note: Include the date of retrieval only if the content of the page is likely to change over time.]

Example text & accompanying **APA-6 citation** for the above source, assuming that “FAO” had been defined previously in the text:

This report analyses Prince George weather over a four-day period. Though climate doesn't determine the weather experienced in any time period, generally Prince George can have both cold wet years and warm drier ones (FAO, 2015, pp.78-85).

Primary vs Secondary Sources

- Primary: information from the original source
- Secondary: information from a source that relays information from the original source

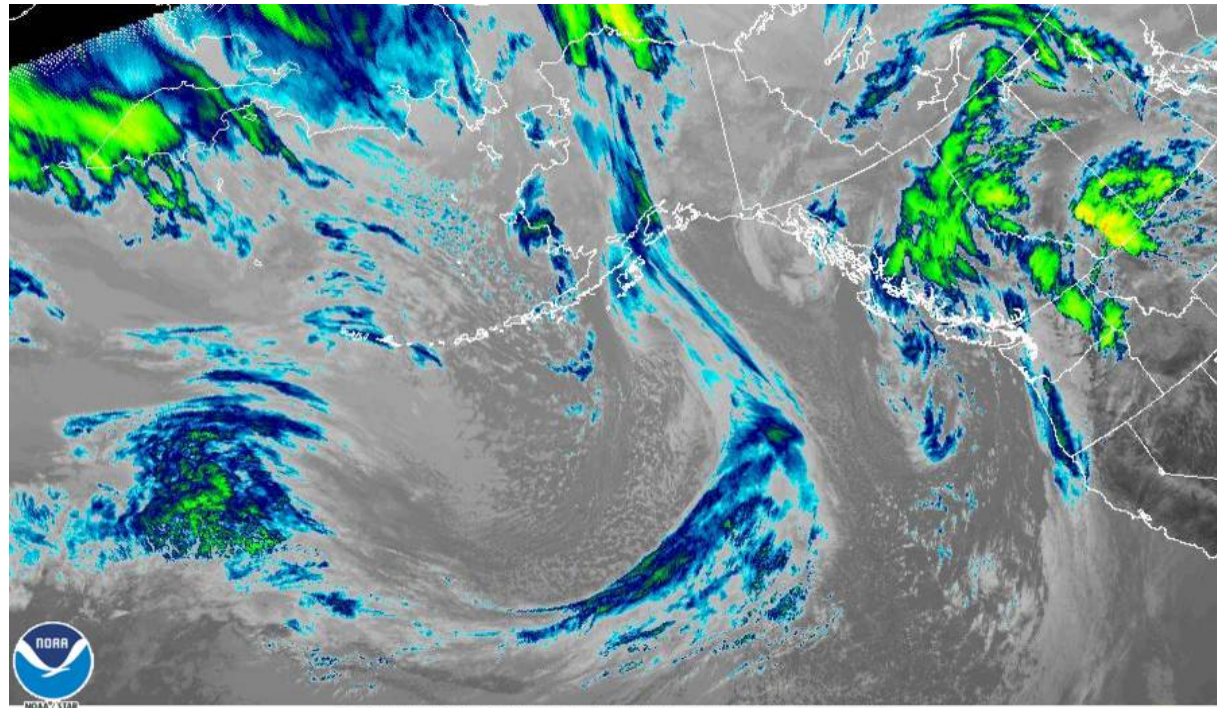
Primary referencing is correct.

Important for our weather maps & images if you used the wx viewer (cirrus) website. The cirrus server is a secondary source as it relays materials from their original sources.

Correct references include the URL of a material's original source

APA-6 Secondary Source Referencing Style Example:

NOAA Alaska IR
Satellite image
collected from
UNBC Wx Viewer
hosted by cirrus
(the secondary source)



APA-6 Secondary Source Referencing Example:

Collected from (the secondary website): http://cirrus.unbc.ca/cgi-bin/cgi-bin2/fetch_loops_simple.pl?SUBHEADING=SATELLITE_IR_Goes-W_Alaska

Primary source (image provider – this is the one you must cite):

<https://www.star.nesdis.noaa.gov/GOES/sector.php?sat=G17§or=np>

APA-6 reference:

National Oceanic and Atmospheric Administration of the United States. (2021). GOES-West – Sector view: Northern Pacific, Band 13. [satellite image] Retrieved March 9, 2021 from <https://www.star.nesdis.noaa.gov/GOES/sector.php?sat=G17§or=np>

[Note, because the image is changing, the access date is needed. If you use multiple images from the same general site, then you might instead list a range of dates... “Retrieved March 4-9, 2021 from...” to avoid having to enter a separate reference list item for each image.]

APA-6 in-text citation, needs the day & time as there are multiple images per day, assumes

NOAA has been previously defined in the text: (NOAA, 2021, March 9, 06Z).

Avoid Academic Misconduct

DON'T cheating....copying...plagiarism

Only work with others to brainstorm ideas, discuss what happened, etc.. The **report must be independently written**

This means DO NOT SHARE your:

- writing
- annotated graphs, maps, or figures you created

Properly cite & reference anything that you did not create, including figures, maps, graphs, and images

Last Words

- See your instructors if you're not sure about something
- The Academic Success Centre (ASC) offers support for writing...but get involved with them early

Be clear, readers can't read between the lines.

Well written reports are usually impressive.

We give bonus marks!

Last Words.... continued

- During the week of March 22 you will have a 15 minute face-to-face interview with an instructor on your Wx Proj Report during your lab time.
- This is a marked activity – come prepared with a well-planned outline for your report, notes on what your “weather story” is, and the evidence you plan to use to support it.
- Come with questions!