

Next Week: WxProj Interviews

- **Attend for your meeting time** (Come a few minutes early, get ready – find a spot, log-on to computers for memory keys, etc.)
- **Meet in the lab room** (resources available)
- **Can work in the lab room** when not meeting
- **After the lab's meetings are finished**, your instructor is available in the lab for further help
- Collect remaining returned assignments

After instructor meetings → **No formal labs but...**

Instructors are available in lab room during lab times for project consultation

Next Week's 15 Minute Instructor Meeting (2%)

Come prepared to discuss writing your Wx Project report

Bring: 1-page Report Outline (can be a draft) indicating your:

- understanding of the 4-day weather story – what happened, when, & why
- planned report format /report organization ideas
- supporting evidence (diary, selected from Wx maps, satellite images)
- draft stacked time series graph & the UNBC Wx graph (printed)
- questions

How to prepare? Consider your report objectives:

- Organize your synoptic maps & satellite images, review them, discover the wx story
- **Consider possible sources of evidence:**
 - weather diary (especially a good end of period summary)
 - your stacked roof data time series graph (based on your rationalized data)
 - 4-day UNBC weather station graph (printed)
 - selected electronic synoptic data (surface & upper air maps, satellite images)
- **Consider how to effectively communicate a case study & evidence**
- **Track /list questions**

Consider... while formulating your report ideas:

- Good diary summaries help you see the weather story - they indicate & interconnect key weather events during the period.
- Rooftop precipitation & max, min temperature data represent the preceding time period.
- **Your stacked time series graph & the UNBC Weather Station graph complement each other.** Each provides supporting evidence. Present them on opposing pages so you can easily integrate these key local data sources in your report.

It is difficult & unnecessary to graph these datasets together (their different measurement methods & measuring intervals make this complex). It is better to integrate them when you explain the weather patterns they show in your report text.

Considerations for Report writing meetings

- How does the synoptic situation & the local weather pattern fit together? Which maps/satellite images show this connection best? Which are most relevant?
- What is the weather story? What happened? Why? Do patterns repeat? What does the evidence support?
- Realize a case study is not an experiment – no hypothesis testing - only presentation & discussion of events with evidence.
- How can you best present your weather story? “day by day”? “event by event” ? “day vs night”? Which is clearer? Less wordy? What is more easily understood by your reader?

Weather story: What happened, when, & why?
Based on supporting evidence.

Select weather story evidence from your:

- stacked time series graph of your rationalized rooftop screen data
 - UNBC weather graph
 - your weather diary
- Local weather picture**
- Shows what happened & when**

- selected relevant synoptic (regional) data:

surface maps,
satellite images,
upper air maps

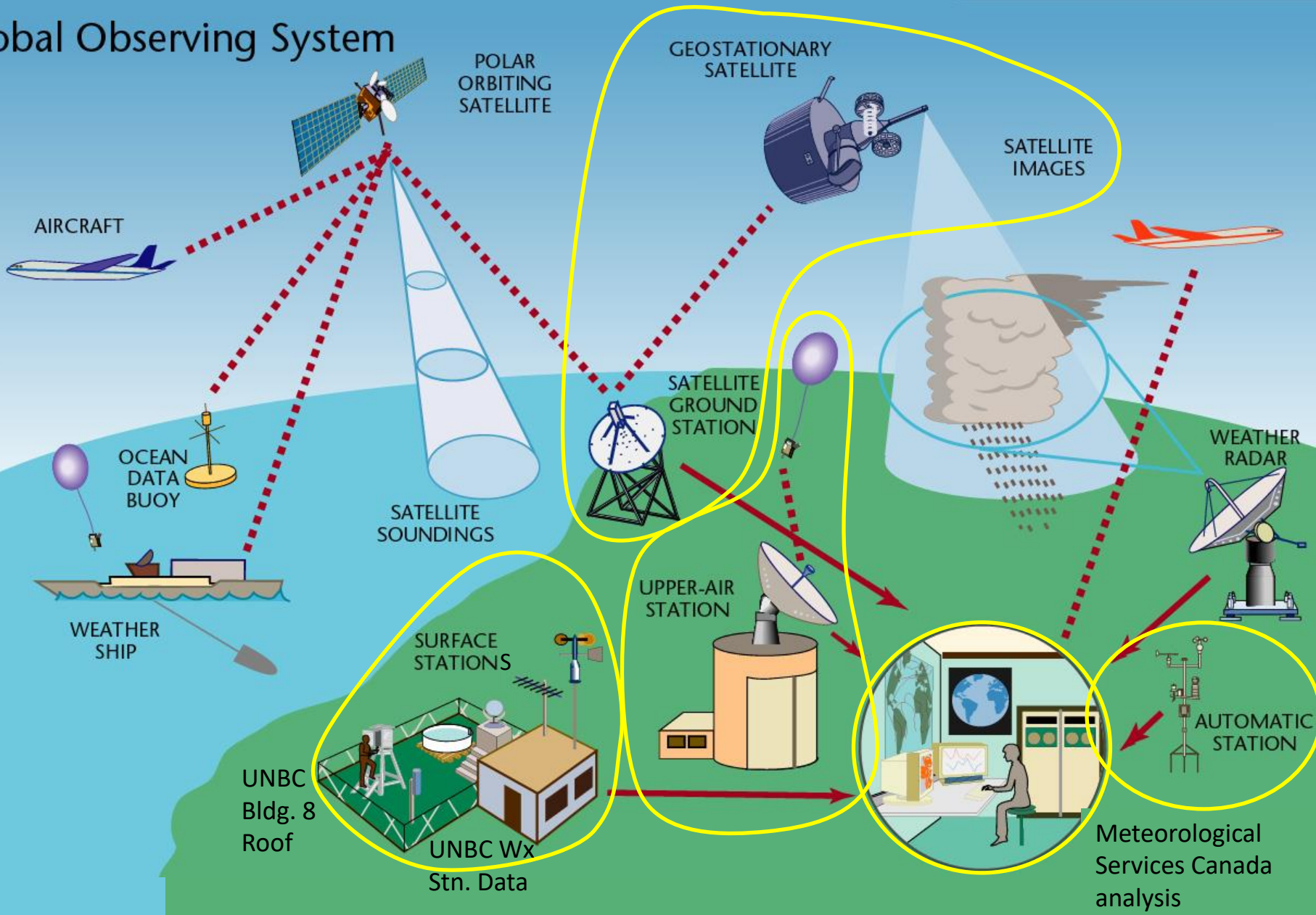
Synoptic weather picture

Shows when it happened & why

Integrating WxProj Data

our local & synoptic data sources

Global Observing System



Come prepared for your 15-minute WxProj Report Writing Meeting. Bring:

- your report outline (printed, typically 1 page, more information below)
- your draft, stacked time series graph (hand-drawn, of your final data, having Appendix 2 can be useful too)
- a printed copy of the UNBC Wx Stn graph (colour print, or highlighted to distinguish graphed lines)
- your diary (or Appendix 1 if your diary is already formatted as the Appendix)
- access to selected synoptic weather data (organized, considered surface maps, 500 hPa maps or satellite images that explain /provide evidence for your weather (wx) story. Set-up & ready to use on a computer /memory key.)
- prepared thoughts /current questions about your wx story. Any related items you want to discuss.

Preparing for your WxProj Report Writing Meeting Interview (Interviews are done in your lab as scheduled)

- Review & interpret your data, look for interconnections /possible supporting evidence.** Look for weather patterns, possible relationships between variables, links between graphs, your diary, synoptic data and links to course concepts. Use all information sources. Try to explain how these indicate the wx story. **Make notes on what you find**, where do links occur; what are; what are your evidence sources? **Consider your:**
 - **weather diary** (possibly already formatted as Appendix 1), especially the synopses can be useful starting points
 - **draft, stacked time series graph**, created from your rationalized data. It must be accurate, complete, useful for interpretation. It pictorially represents your data & best shows patterns & trends. It complements & reinforces other local data.
 - **UNBC Wx Stn graph** printed (using colour or highlighting), shows our 4-day weather period
 - **synoptic data** organized & reviewed by time, indicates the larger (regional scale) weather setting. View connected images in sequence (as demonstrated in labs /lectures). Look for changes between images to see possible reasons for our weather.
- Write an outline (~1 page) indicating your:**
 - current understanding /ideas of the 4-day wx story (what happened, when it occurred, and why)
 - plan for formatting your report: Section /subsection headings, report structure /organization ideas /questions
 - ideas for supporting evidence and how you might use it
 - questions about: Where you are stuck /something you don't know /what you think you'll do /how to proceed
- Any report related item you wish to discuss** but note there may not be time to discuss everything in this meeting.