EAS270, "The Atmosphere"   Assignment 2   Due 5 pm 2 Dec., 2011

Professor: J.D. Wilson   Value: 10%

A Weather Analysis

Select a Canadian province (or territory) or an American state, the first letter of whose name coincides with the first letter of your own family name[1] (e.g. **W**ilson → **W**isconsin or **W**ashington or **W**est Virginia). Choose a particular day or hour, presumably during November 2011, and document the weather in your chosen locality. Briefly describe the weather as it would be perceived by the layman, i.e. the phenomena observed, if any[2]. Then document the underlying factors relevant to that day's (or hour's) weather. Provide evidence to support your suggestions, using suitably cropped and captioned weather maps and/or satellite and/or radar images.

Sources

Having selected your location, use web media to track the weather. Settle on a day that looks interesting, and download information from those sources (which you **must** credit), perhaps including the day's diurnal cycle in temperature (or other relevant variables). To obtain the needed technical information, use (for example) MSC or NCEP weather charts, NOAA satellite images etc. Links are available from the course web site, `http://courses.eas.ualberta.ca/eas270/urls.html`

Format & Content of your Report

Your report may comprise up to **three** single-sided, standard (letter-size) pages. Maps or images must be cropped and re-scaled to focus the reader's attention on the geographic area of interest, and each **must** have a numbered caption which you *refer to in your text*[3]. Your narrative may be in point or essay form. In either case it must be ordered (coherent) and legible. Use appropriate headings. **Use double spacing. If using a word processor, use 12-point font size**.

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[1] J's please choose New Jersey; X's please choose New Mexico; Z's please choose Vermont

[2] You need not necessarily choose a dramatic day. Depending on the situation you have chosen, your "observed weather" description might be as simple as: "fair weather, light winds, near normal temperatures."

[3] Example: "The GOES infra-red satellite image for 13Z (see Figure 3) showed high cloud over western Utah." This would be accompanied by a figure whose caption read something like: "**Figure 3**. GOES ir image for 13Z, 18 Nov. 2011. High cloud over Salt Lake City."

Marks will be subtracted for illegible material, and for failing to adhere to the specifications above. Please drop off your assignment (labelled with your name and ID number) in class or in the drop-off box outside Tory 3-40. A two mark penalty will be applied for late assignments received before noon Monday 5 Dec. After that time, the late penalty will be five marks.