EAS372 Assignment 3 (15%) Due: Fri. 25 Apr., 2014

Weather Case Study

Document a "live" storm in North America (or elsewhere[1]) occurring this term. Focus primarily on the performance of Numerical Weather Prediction in relation to the observed weather, but secondarily, too, on the mechanism of development and/or decay as per mechanisms emphasized by the quasi-geostrophic model (i.e. vorticity advection and thermal advection). Your report might draw on the following categories of information:

- the prognosis (or prognoses) first suggesting (or, failing to suggest) the event
- official (e.g. Envir. Cda. public) forecasts and available informal forecasters' commentary
- the actual event as depicted in (e.g.) radar images, EC weather reports, press commentary
- the actual event as depicted in standard weather analyses, soundings, satellite images
- key fields (e.g. horizontal divergence, vorticity advection, thermal advection, omega) depicting the actual event, using web sites given at `https://courses.eas.ualberta.ca/eas372/urls.` or elsewhere.

Format: Please submit a tidy, organized report.

- in electronic copy
- maximum of **six** pages of narrative, in font size 12, double spaced
- plus up to **fifteen** properly captioned and *relevant* images, charts, tables or figures
- narrative must make clear why each image (etc.) relates to the "story"
- assume your readers are trained meteorologists (as opposed to the general public)

[1]Please bear in mind that if you choose a remote location, it may be harder to obtain meteorological data.