Schedule:

Tuesday March 5   Half to one page proposal due
Tuesday, April 9   Final paper due
Tuesday, April 16 – Tuesday May 2.   Oral presentation by Students

Guidelines:

In this term project, you will read research papers and reports (e.g., AMS journal articles) on a subject of mesoscale meteorology selected by yourself, and write a critical review on the subject. The article should be 10 to 15 doubled-spaced page long, including references and figures. The number of pages for figures should not exceed 1/3 of the total number of pages. A critical review is expected to contain author's own views on the subject.

The paper should include introduction, main body of paper and summary and/or conclusion sections.

Based on your review, you will give a 15 min in-class presentation during the last three weeks of the semester. Among the 15 minutes, 3 will be for questions. This term project accounts for 25% of your total score, among which 15% is based on the presentation and the rest based on the quality of paper.

The paper and presentation will be graded on overall organization, clarity, grammar, completeness and neatness.

The following aspects should be considered when writing the paper and preparing the presentation:

Are the material well organized and is the flow logical? Does the introduction clearly state the purpose and/or motivation of the work?

Are the paper and presentation clear and easily understandable? Can other students learn anything from your work?

Are figures appropriate and effective in supporting the text in the paper? Do they have adequate captions and are they clearly described?
You should avoid choosing the same topic as your capstone project. A modified version of your capstone report (if you are doing one – I will be able to find out) is unacceptable.

**Example Topics:**

- Low-level jet
- Dryline
- Convective boundary layer, mixed layer
- Cloud streets
- Land or sea breeze
- Valley flow
- Mountain waves
- Density Current
- Multicell storm
- Squall Line
- Tornado
- Supercell storm
- Mesocyclone
- Mesoscale convective system/complex
- Hurricanes
- Cold front
- Symmetric Instability
- Lake-effect storm
- Downslope windstorm
- Orographic precipitation
- Instabilities
- Others