AOS 453 Lab #7
Due: Thursday April 15, 2010

A major component of 453 is learning how to forecast and conceptualize mesoscale events. The focus of this lab is to help prepare you to critically analyze a severe weather event before and after it occurs. You will be analyzing the potential severe weather outbreak across the upper Midwest on April 6th, 2010. This lab will be broken into three parts: 1.) a Forecast 2.) Summary of the event, 3.) A critical post analysis of your forecast. This lab will be considered a mini case study with a short write-up. It is the aim of this assignment to better prepare you all for your final case studys.

Descriptions of lab parts:

1. You will write a 1 to 2 paragraph general forecast describing the potential for severe weather on April 6th, 2010 across the Upper Mississippi Valley (this portion is already complete). You will attach your original forecast you emailed to me yesterday for this section.

2. You will write a 1 to 2 page summary of the event, not including figures. In this portion you will give a summary of the Synoptic setup, Mesoscale setup, and out come of the event including storm reports in the affected area. Where, when, and why did storms fire? What type of severe weather occurred? In this section you will include figures to support your summary. You are free to use images of upper level maps, soundings, radar, satellite, model analysis, etc.

3. You will write a 1 to 2 paragraph response to your initial forecast. In this section you will critique the forecast you made before the event. How well did your forecast hold? What were you able to learn from this event?