ATM 311 Severe Weather Assignment

Six soundings have been posted on the course website. **Pick three of the six** soundings, and summarize the potential for severe weather for each sounding in a brief (~half page) write-up for each sounding.

Be sure to clearly identify the soundings you are discussing, and make sure to address the specific risks associated with the sounding (wind / hail / tornadoes) by using the severe weather indices discussed in class. These are listed on the right side of each sounding. For each sounding, the wet-bulb zero height and 0-3 km helicity are given on the course website.

Some items to look for:

Mixed layers (high CAPE)
Wind shear, directional and speed
Capping inversion (cinh) preventing convection
Time of sounding
...and more...