

**ATMO 352: Severe Weather and Mesoscale Forecasting
Spring 2007**

Laboratory #10: Today's Day 1 Convective Outlook

Section 502, Friday 3-30-07

DUE - by the end of the current lab session.

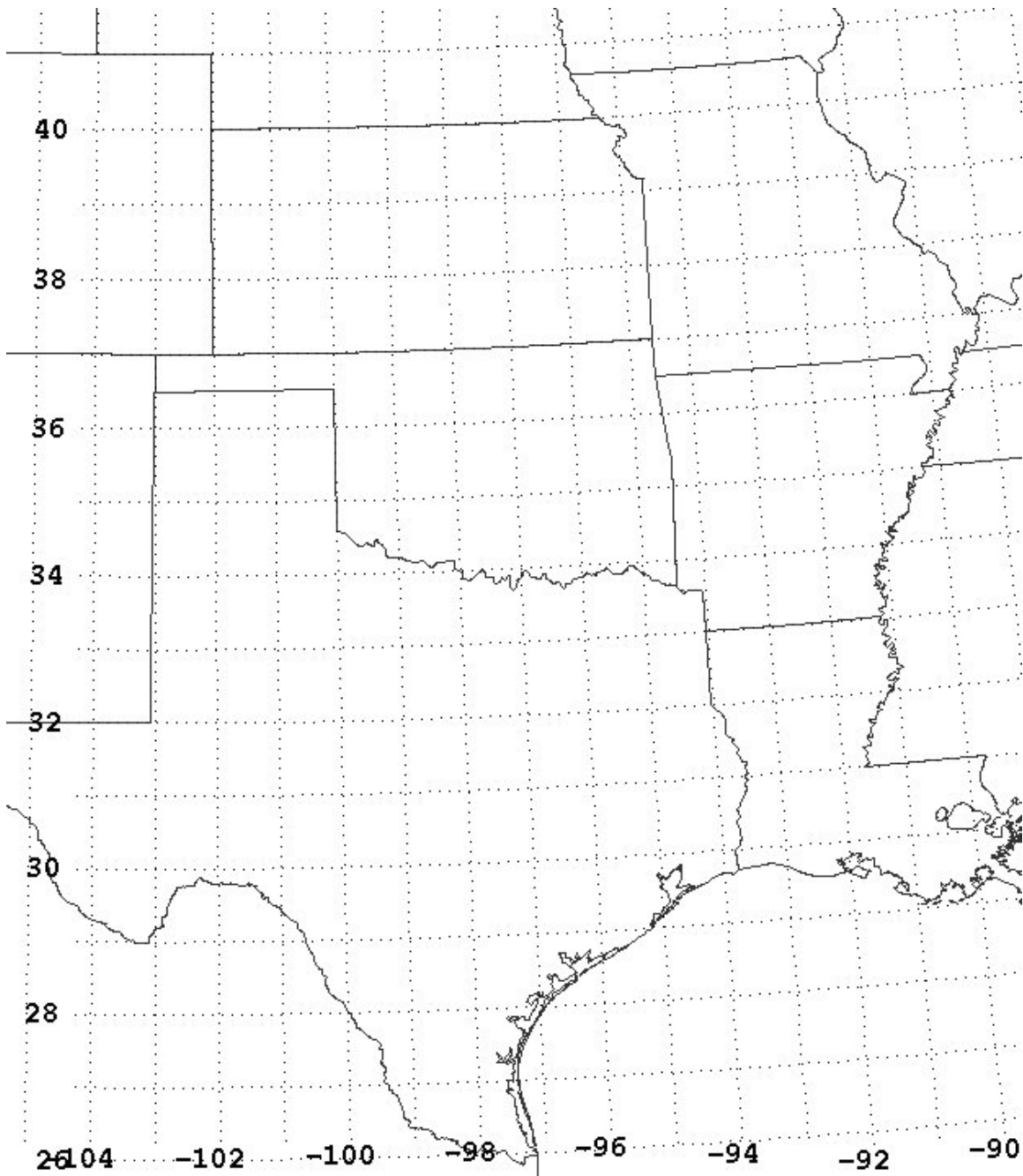
NOTE: This is a Team Forecast Exercise. Only one forecast and summary will be submitted by each team. A single grade will be assigned to the forecast and summary for each team. Everyone on the team is expected to contribute to the forecast process.

Exercises (35 points)

1. (10 points) **Team Forecasting Exercise:** For the current DAY 1 situation, use the map below (next page) to provide your forecast of severe weather. In the area identified during lab, mark any 1° X 1° box in which you believe that *severe* weather will occur during the forecast period (i.e., about 1 hour after end of lab to the end of the DAY 1 forecast period or 1930 UTC to 1200 UTC next day). Also write the **number** of forecast boxes in which you expect severe weather to occur (i.e., count your marks). Hand in one team forecast.

Your team forecast, along with the current SPC Day 1 convective outlook, will be skill scored against preliminary severe storm reports from SPC. Any team that beats SPC's skill score automatically gets 14 points (i.e., 4 bonus points for this question). Otherwise, the top ranked team receives 10 points, the 2nd place team receives 8.5 points, the 3rd place team receives 7 points, and the 4th place team receives 5.5 points.

2. (25 points) On the back of the forecast map, please write a succinct but complete summary (paragraph or bullet form is fine) of the forecast problem(s) of the day, including the synoptic-to-mesoscale features, forecast parameters, and/or physical processes that support your severe weather forecast above. Be **specific and quantitative** when you can (e.g., don't just say "high CAPE and high shear" – give some values with units!) Hand in the forecasting sheet with forecast summary by the end of the lab period.



Total # of forecasted severe boxes (i.e., count them up and put tally here): _____