

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

**Laboratory #10: Today's Day 1 Convective Outlook**

Section 501, Thursday 3-29-07

**DUE** - *by the end of the current lab session.*

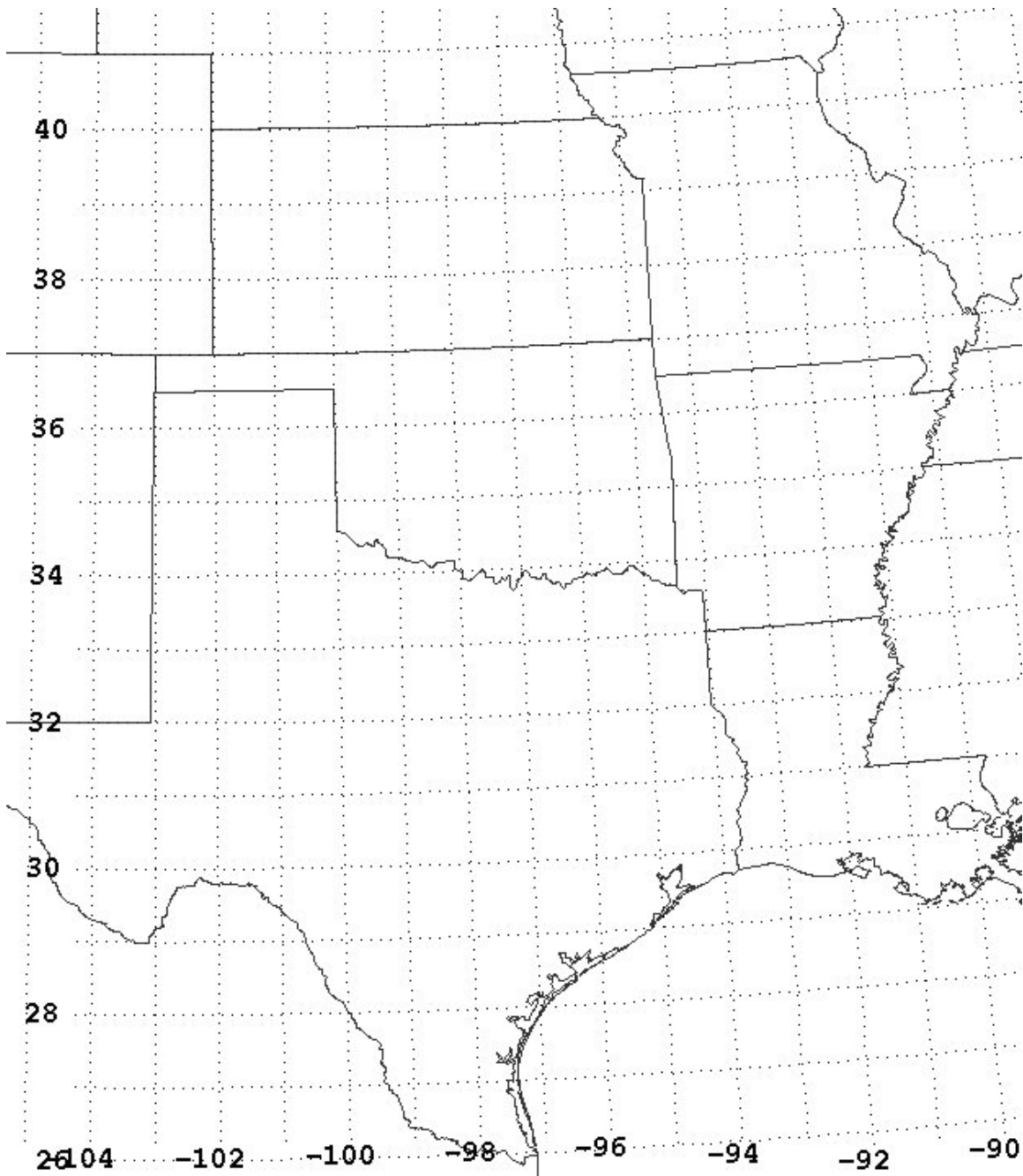
*NOTE: This is a Team Forecast Exercise. Only one forecast and summary will be submitted by each team. A single grade will be assigned to the forecast and summary for each team. Everyone on the team is expected to contribute to the forecast process.*

**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 2230 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 2<sup>nd</sup> place team receives 8.5 points, the 3<sup>rd</sup> place team receives 7 points, and the 4<sup>th</sup> 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): \_\_\_\_\_