

## **MEA444: Mesoscale Analysis and Forecasting**

Pre-lab Analysis Assignment for Lab 3

Due: start of class, Monday 16 February

On the back of this page is a surface chart, valid at 1900 UTC, for a day on which the SPC issued a slight risk of severe thunderstorms. When you arrive in class on Monday, you will be provided with upper air charts, as well as plots of useful parameters like CAPE, CIN, and 0-6 km shear.

**The pre-lab assignment is to perform a credible manual analysis of the surface chart (on the back of this page).** You should use a 4 mb contour interval for pressure and 5 F contour intervals for temperature and dewpoint. Also locate and label any surface highs or lows, and any major boundaries.

# Plymouth State Weather Center

Surface All data

Analysis for 19Z

