Due one week from today (hand in or email to TA).

Today we will reanalyze the surface chart for 0630Z on 21 March 1955. Take two plotted base maps and analyze isotherms and isodrosotherms at 10°F intervals.

The analysis is tricky both because the isopleths have no relation to the winds and because values change with station altitude as well as a result of direct meteorological forcing. Nonetheless, the procedure is to locate the highest and lowest temperatures in Canada, California, Florida, and along the Gulf Coast. Then locate the 0°F isotherm and fill in the intermediate values. Fronts will generally be where the contours are most closely packed.

We will use these contours to locate fronts when we do a final surface analysis for this synoptic time next week. Then we will draw another complete surface analysis for 1830 Z on the 21st of March 1955.