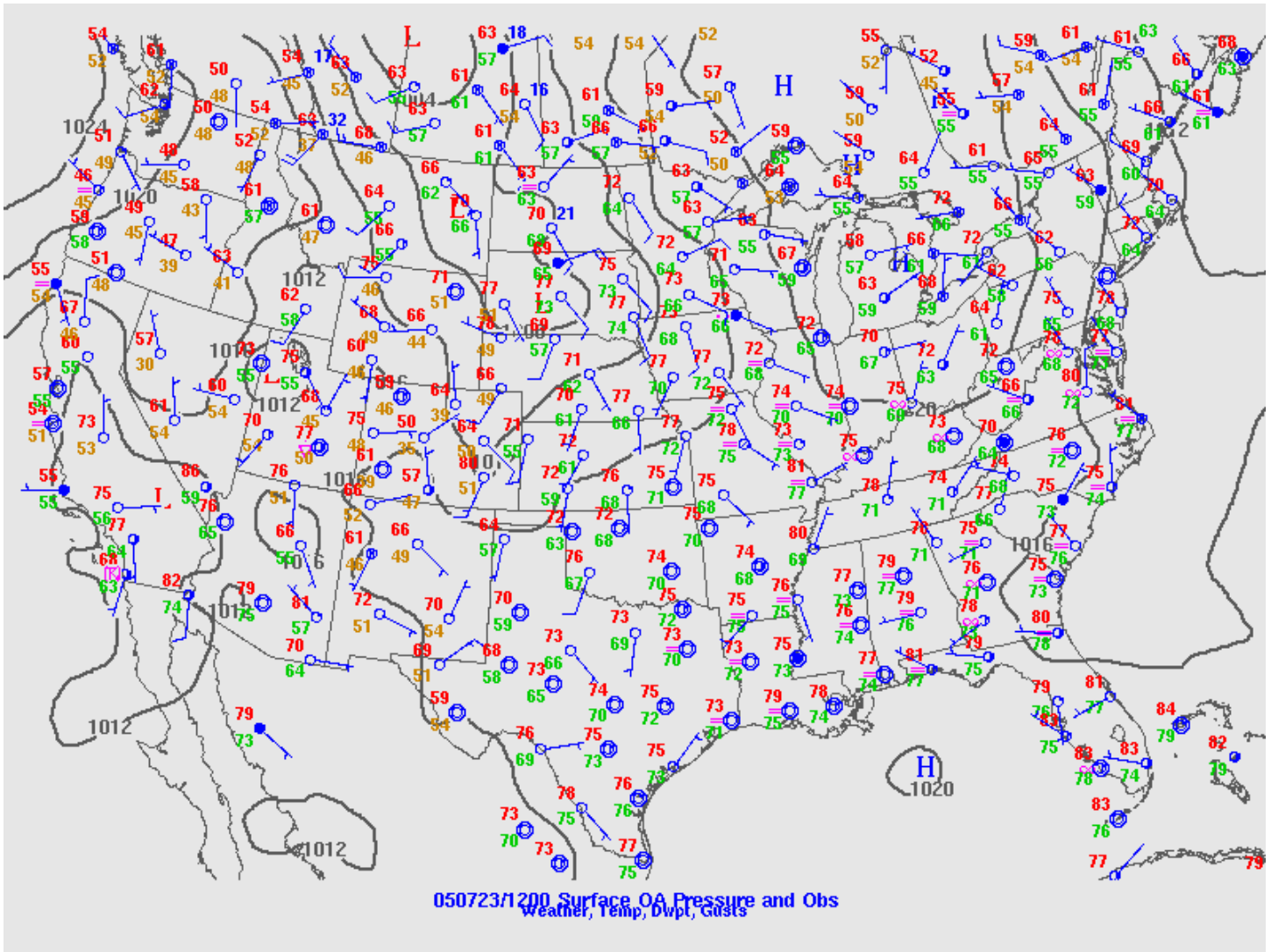


Meteorological Setup:

- Expansive maritime high pressure at the surface extended from the Gulf of Mexico northward into the Great Lakes. Little pressure gradient allowed weather conditions to stay the same from day to day. Light southerly flow allowed moisture to pool in the mid-Mississippi valley, which coupled with a moist ground from the remnants of Hurricane Dennis, enabled dew points to near or top 80F by the beginning of the heat wave.



- Aloft, temperatures continued to warm daily. This promoted less clouds and slightly higher temperatures each day. As the following 500mb (~18,000 ft) map depicts, the high pressure in the central U.S. was seen at all levels. Also, one can note the jet stream was anchored well north of the region. This kept storm systems and associated cooling effects away from the area and did not allow the high to budge.

