



Weather Maps Analysis Exercise #1

Exercise (12z 31 Oct 2007): You have 3 upper level maps to analyze, 300mb, 500mb, & 700mb. Start with the 300mb map and work down. Using a red pencil, mark each map according to the instructions below.

300 mb Analysis:

- 1) Draw a line thru the axis of all the obvious Trofs.
- 2) Mark an "H" where there are Ridges.
- 3) Locate and circle LFQ's of all jet segments.
- 4) Mark RRQ's with an X.

500 mb Analysis:

- 1) Highlight the temperature contour lines (isotherms).
- 2) Write "Cold" where the coldest air is on the map.
- 3) Write "Warm" where the warmest air is on the map.
- 4) Circle the area where the best Cold air Advection (CAA) is located.

700 mb Analysis:

- 1) Draw a circle around the area with the highest wind speeds.
- 2) Draw a line along where you think a cold front would be at the surface.
- 3) Estimate Wind Speed & Direction over the mountains of western Wyoming & central Colorado.
- 4) Estimate the Elevation (feet or meters) of the Freezing Level over western Wyoming & Colorado. Then give an approximate "Snow Level" over western Wyoming & Central Colorado.