



Weather Maps Analysis Exercise #1

Exercise Maps from 12Z 11 OCT : You have a set of 4 upper level maps (300mb -850mb) and 1 surface map. Mark requested features with the red pencil and answer questions below.

300mb: Circle LFQ's with a solid line. Circle best area of divergence with a dashed line. Where is the best upper level energy located?

500mb: Highlight in red the three coldest isotherms on the map. Where on the map do you think the best CAA will be the next 12 to 24 hours?

700mb: Highlight in red the 0°, -5°, & -10° C isotherms. Draw a circle around the area with the strongest winds. What is the general flow direction over these mountain ranges:

Wasatch

Uintas

Wind Rivers

Tetons

Beartooths

Which of these area(s) do you think is getting the best orographic effect?

850mb: Highlight in red the 0° C isotherm. Where is the best WAA? Where are the strongest winds?

SFC: Mark Low pressure center with an "L". Circle the area with strongest winds (PG). What is the general surface wind direction in the vicinity of this strong PG?

Forecast: After analyzing all the maps, where do you think the heaviest snowfall would be occurring the next 12 to 24 hours?

Care to say why?