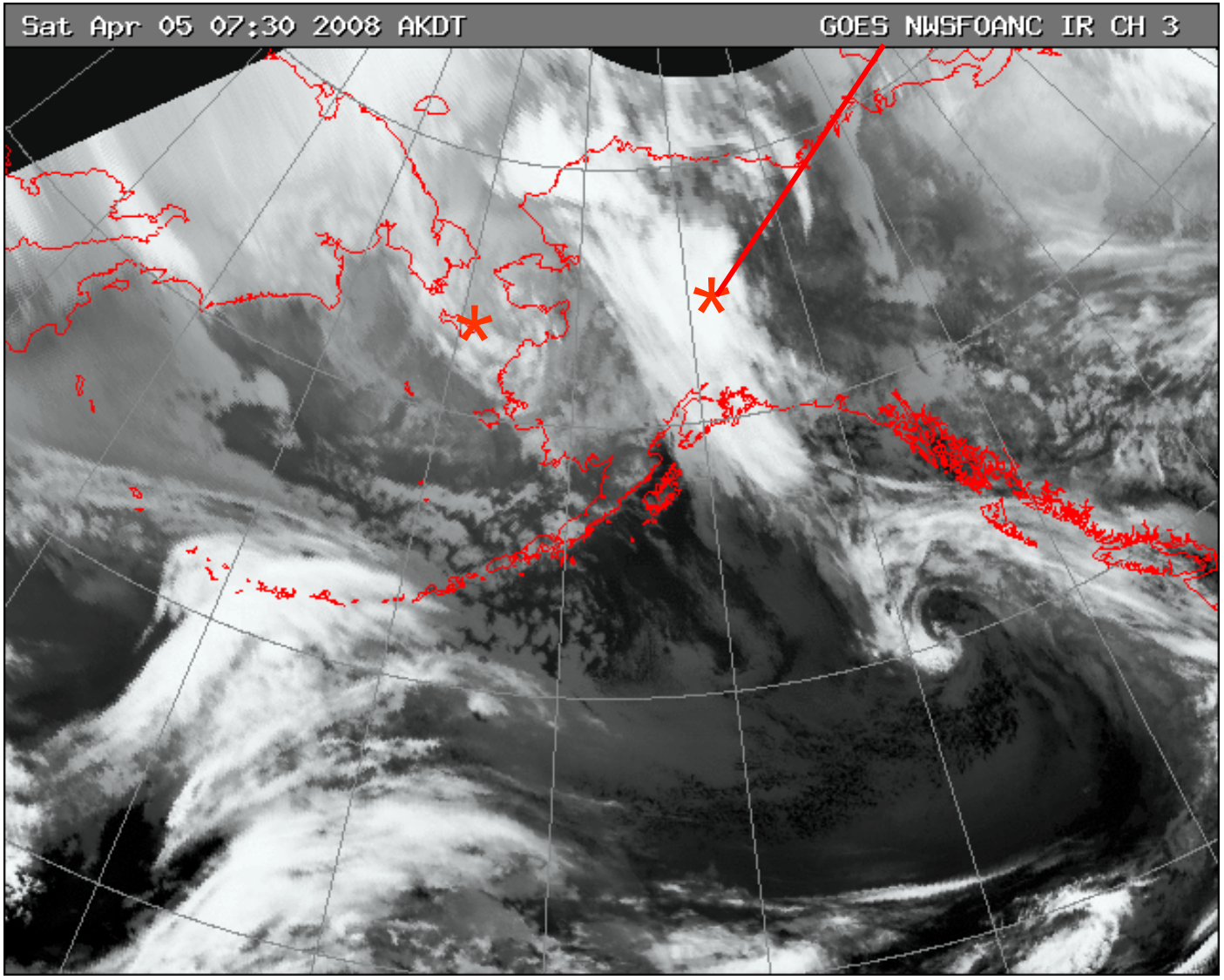
Flight Day Conditions

April 7 2008

Henry Fuelberg
Andy Latto

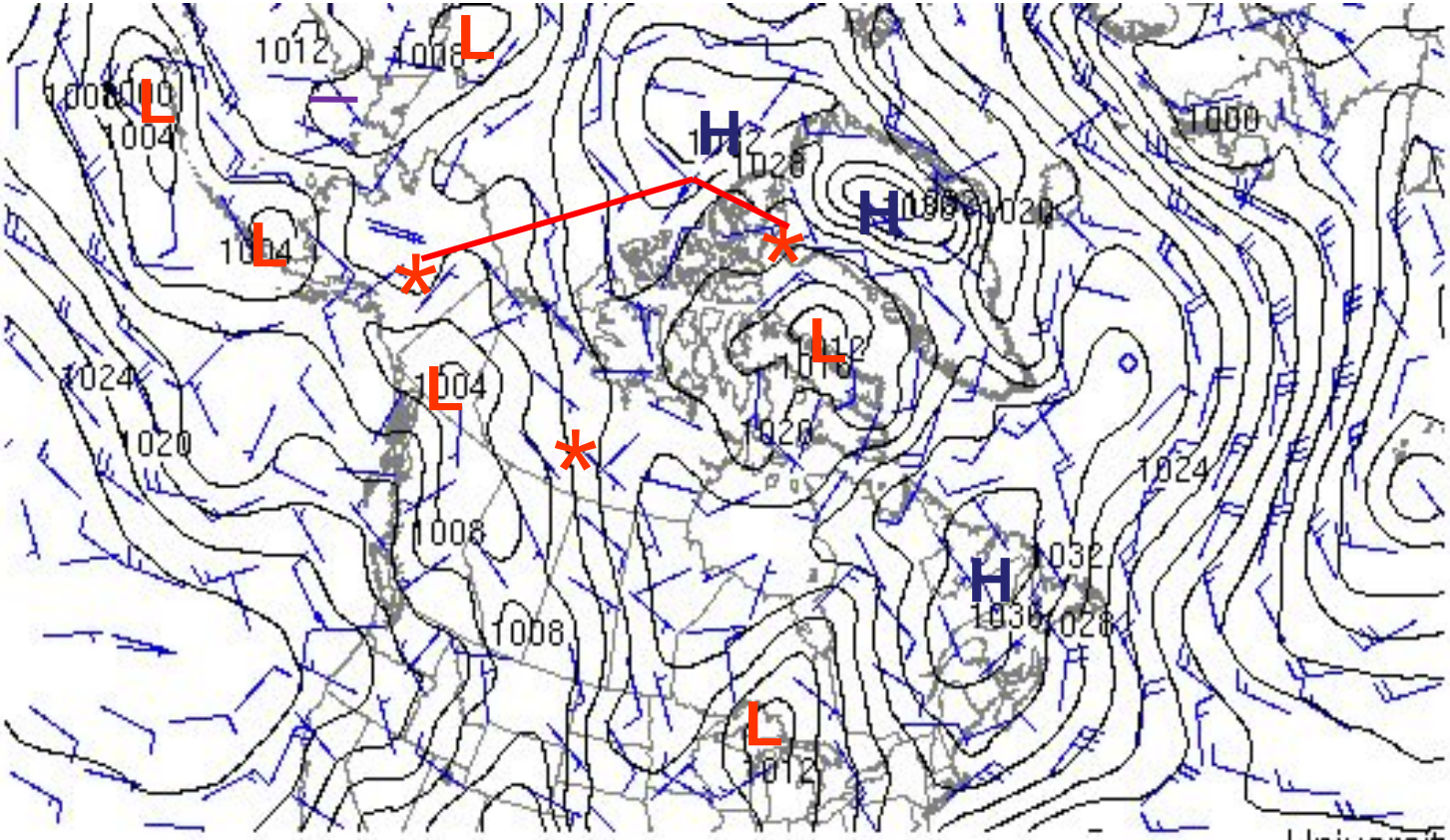
“Your Eyes to the Skies”

Current IR Satellite Image



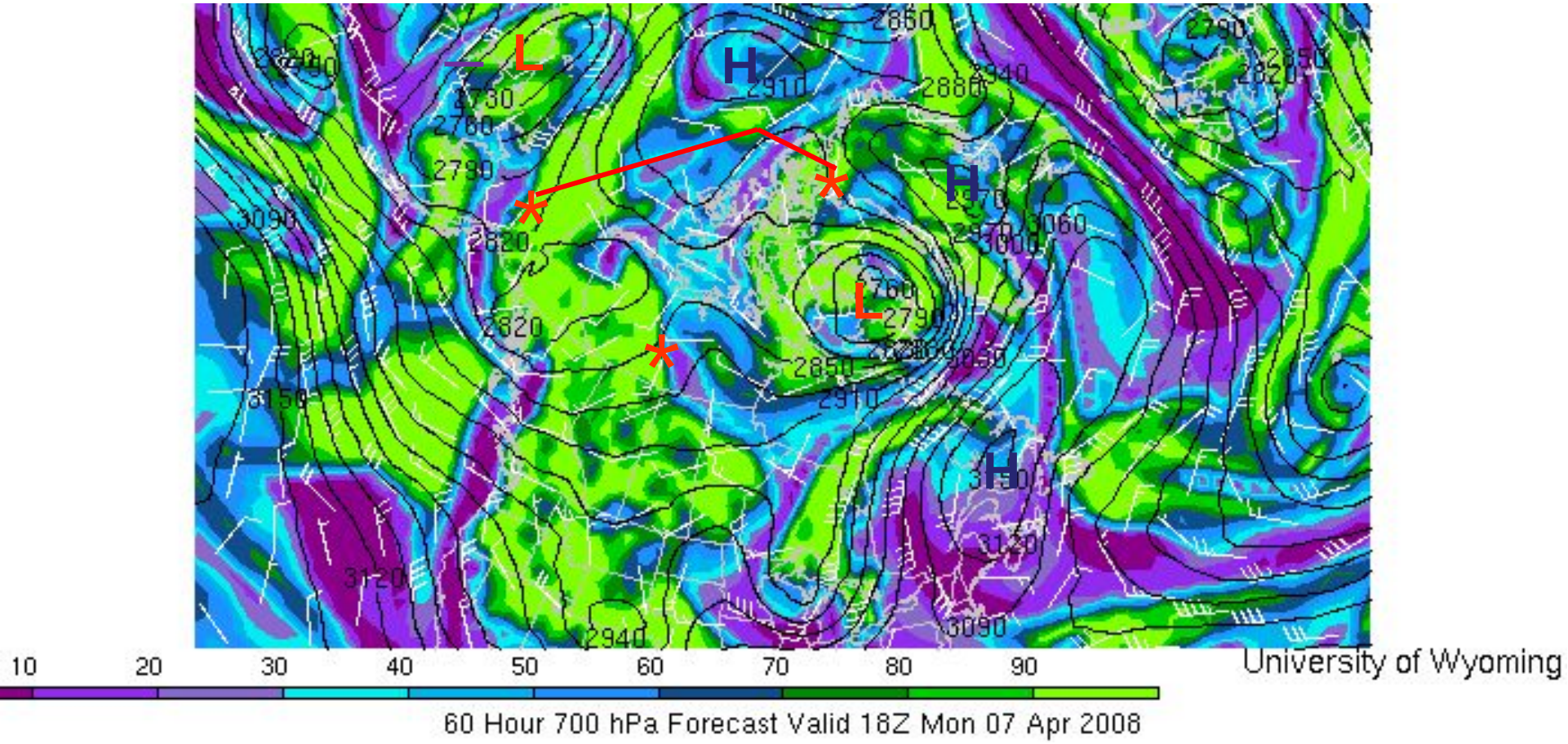
Monday’s Forecast

GFS Forecast Valid 1800Z April 7
SLP, 10 m winds

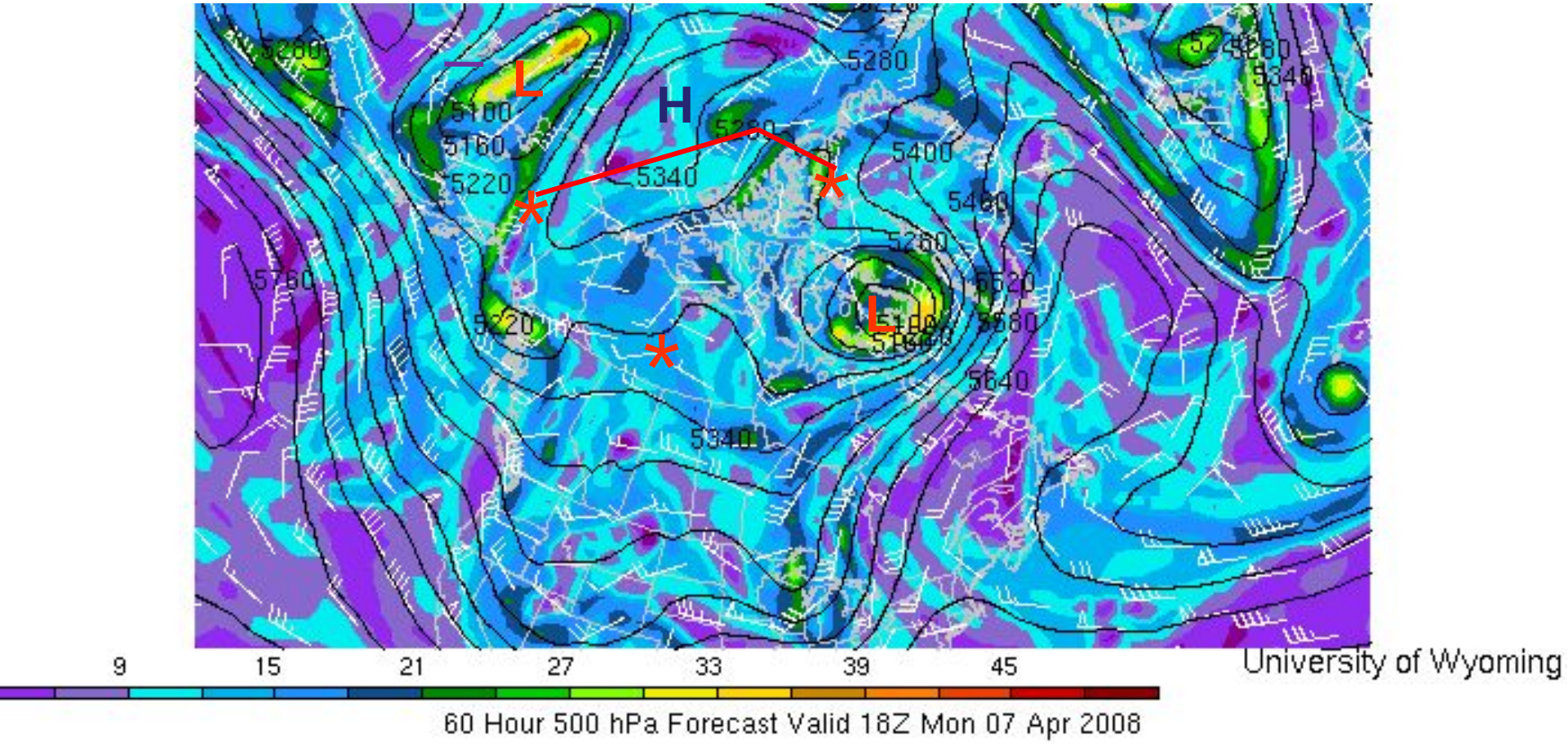


60 Hour Surface Forecast Valid 18Z Mon 07 Apr 2008

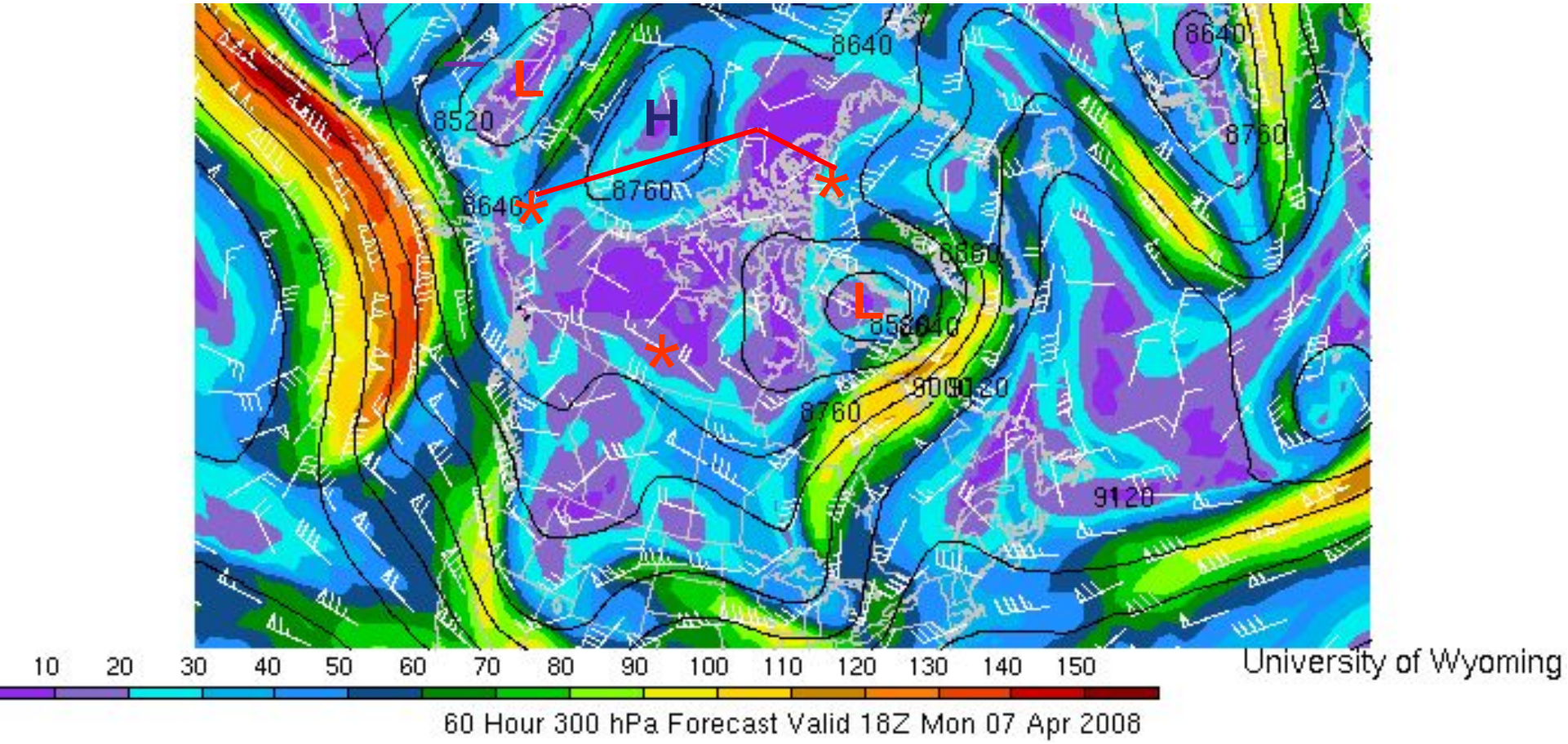
GFS Forecast Valid 1800Z April 7
700 hPa Relative Humidity and Heights



GFS Forecast Valid 1800Z April 7
500 hPa heights, vorticity, and winds

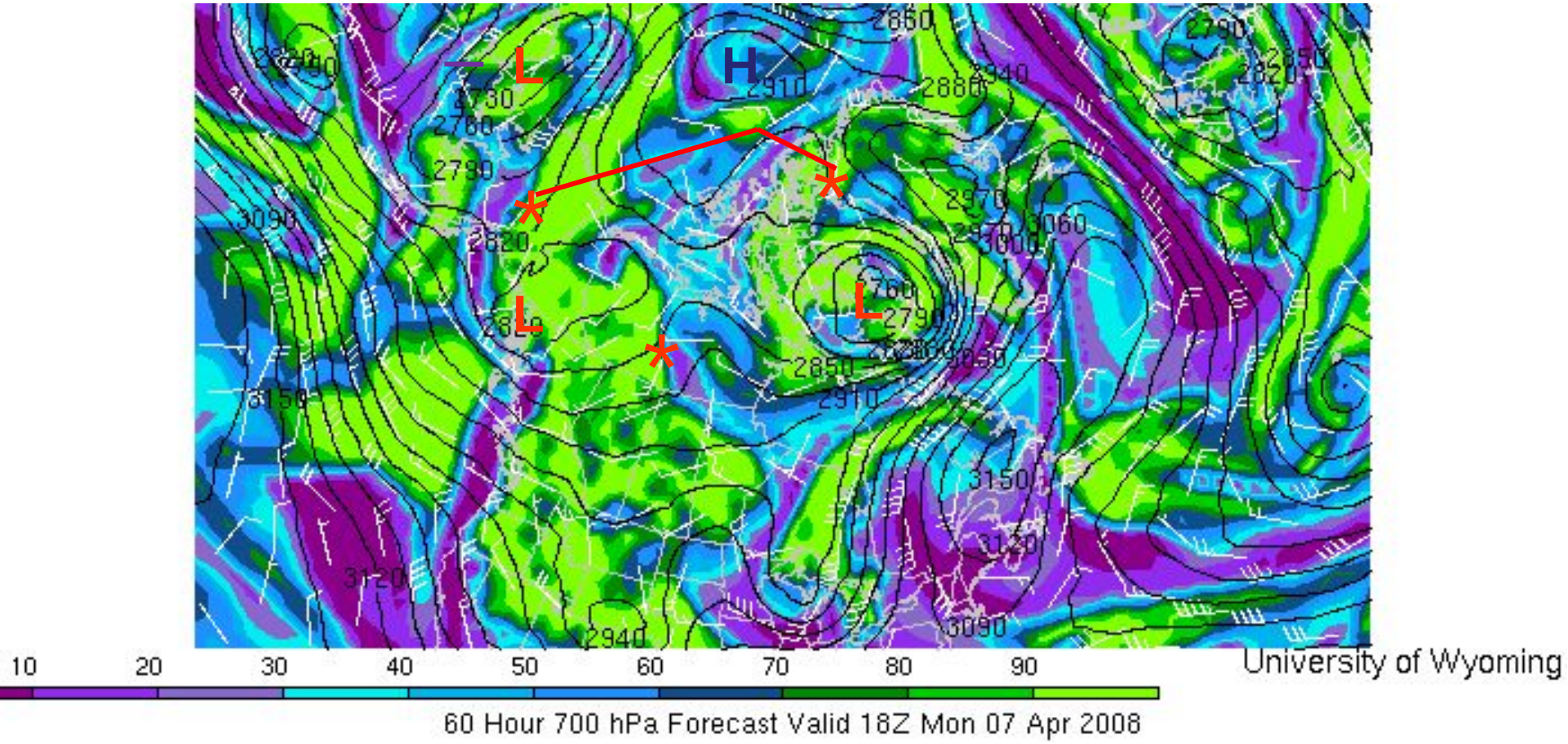


GFS Forecast Valid 1800Z April 7
300 hPa winds and heights

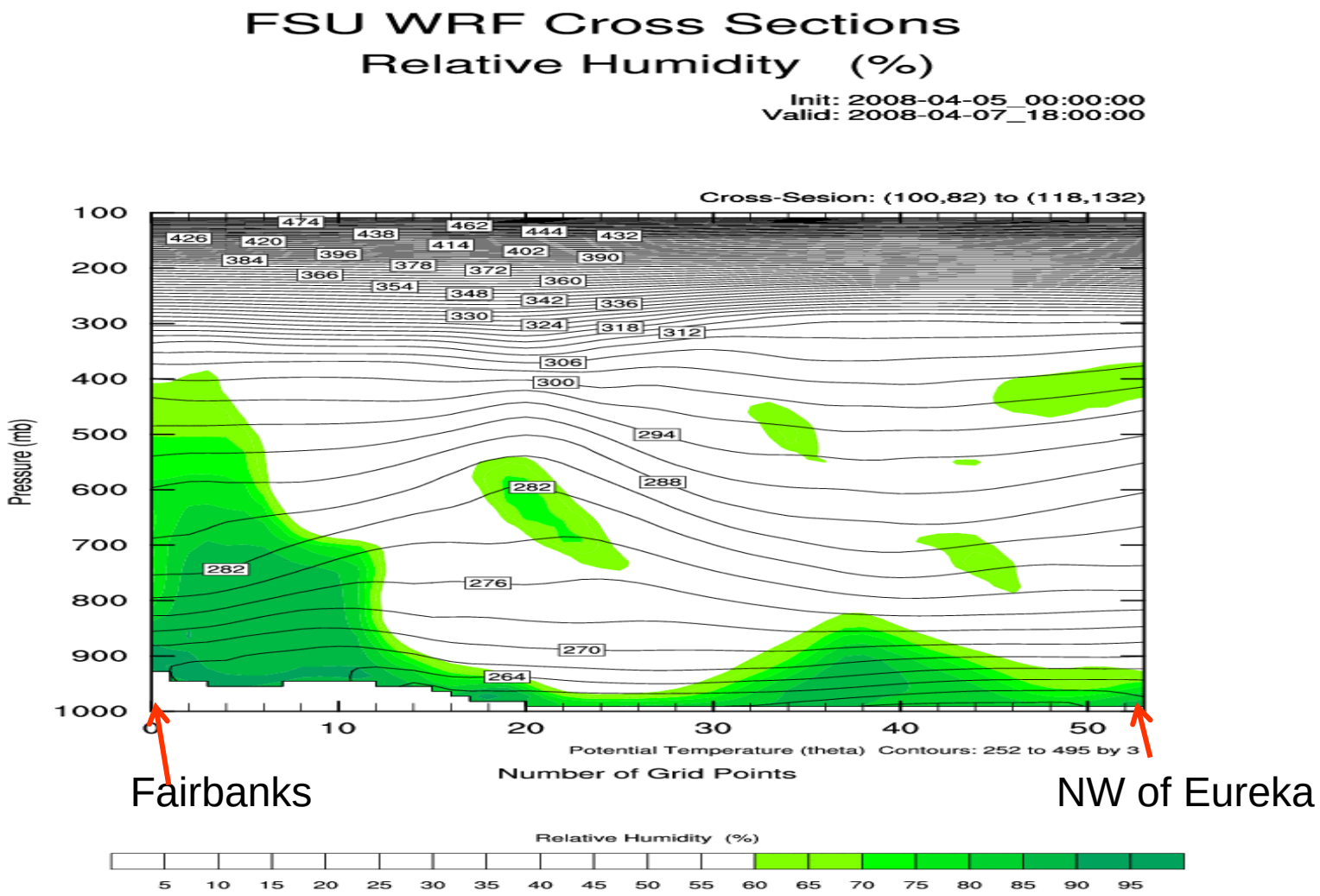


What About Clouds for Monday??

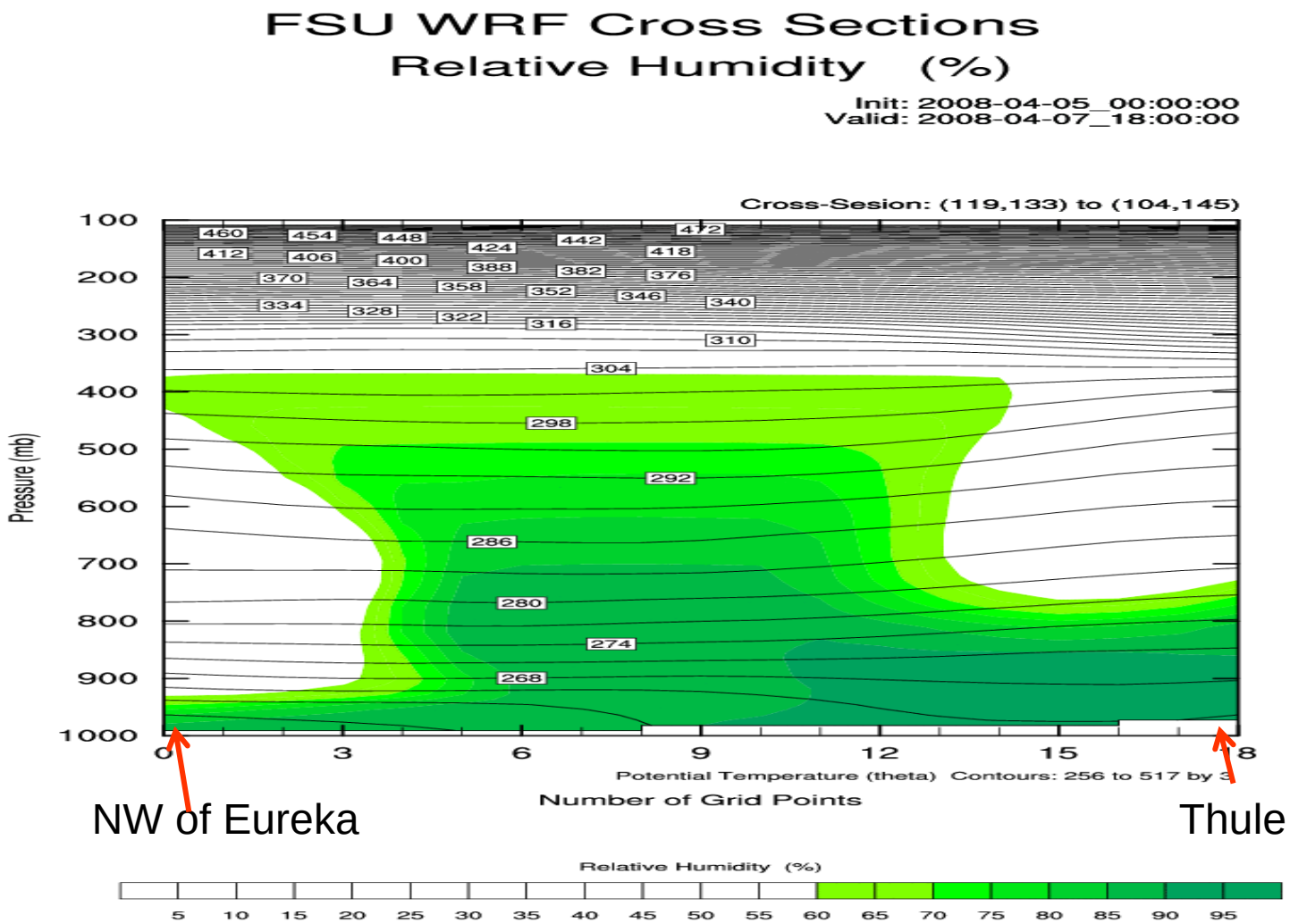
GFS Forecast Valid 1800Z April 7
700 hPa Relative Humidity and Heights



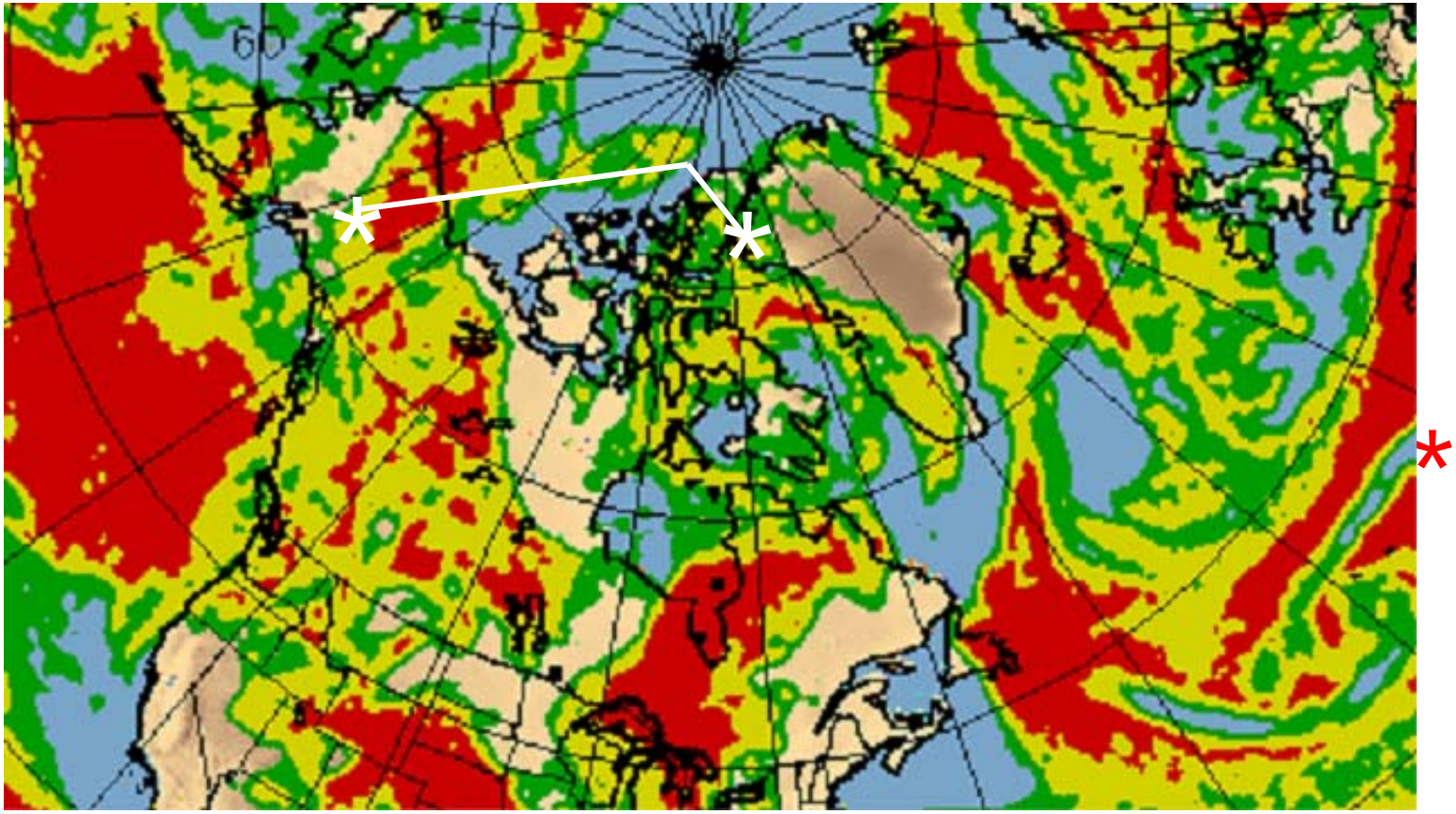
FSU WRF RH Cross Section DC-8 Flight Path Forecast for Leg 1 Valid 1800 Z April 7



FSU WRF RH Cross Section DC-8 Flight Path Forecast for Leg 2 Valid 1800 Z April 7



Air Force Total Cloud Cover for comparison
Valid 1800 Z April 7

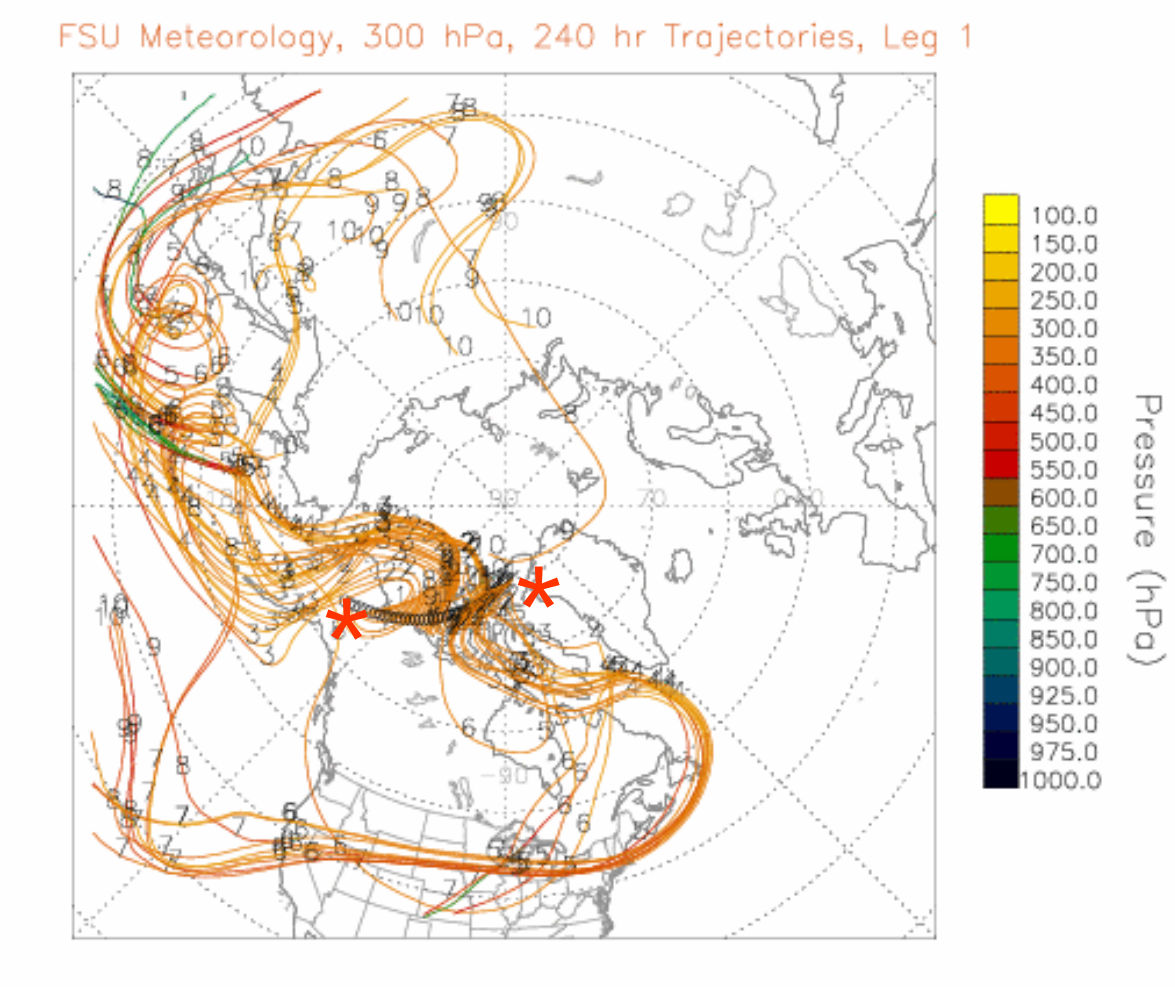


Red = Overcast **Yellow = 0.6-0.9 coverage** **Green = 0.1-0.5 coverage**

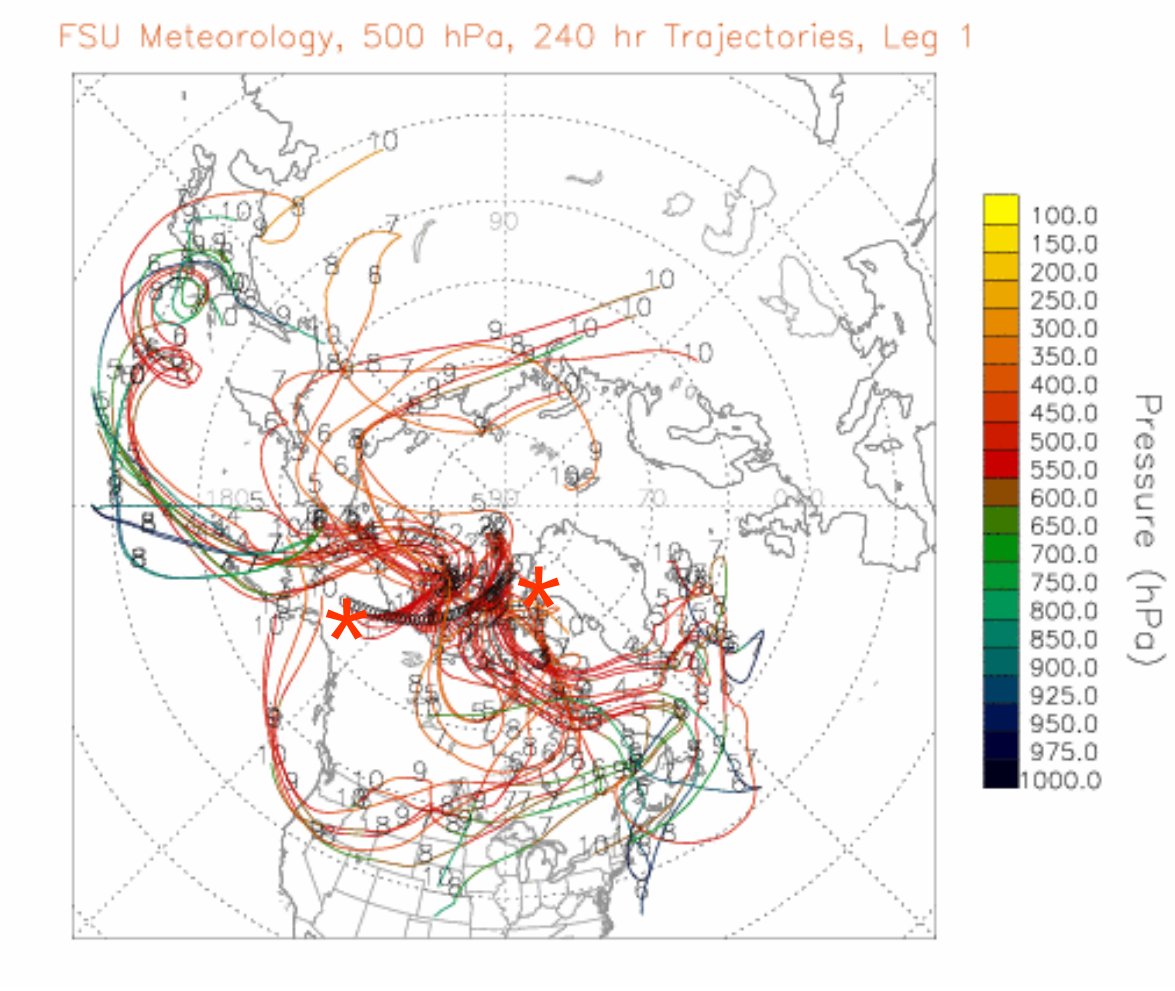
FSU Trajectories for Monday

- Met data from FSU WRF run (25 km grid)
- 10 days backwards in time
- Color coded by altitude

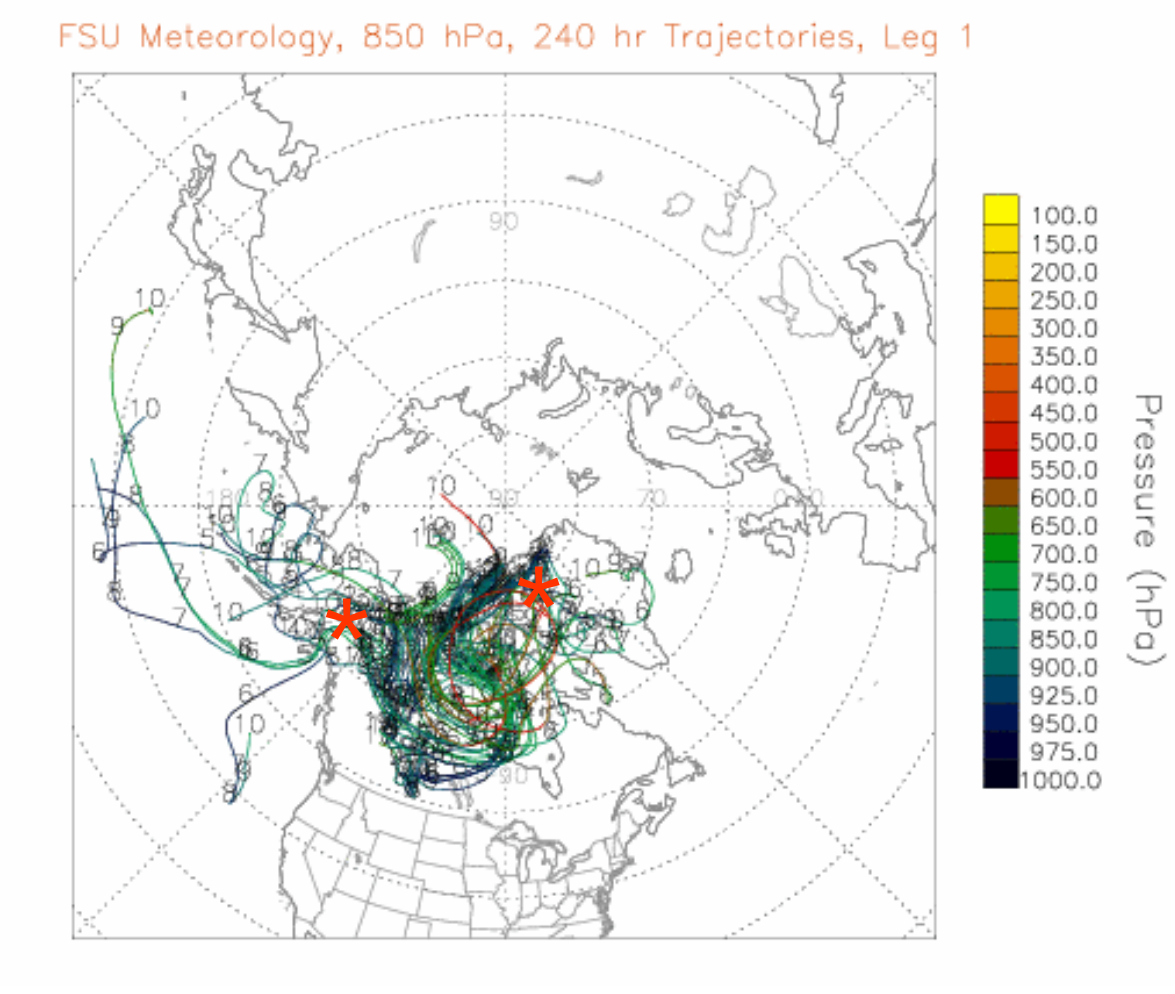
FSU 10 Day Backward Trajectories from 300 hPa Leg 1



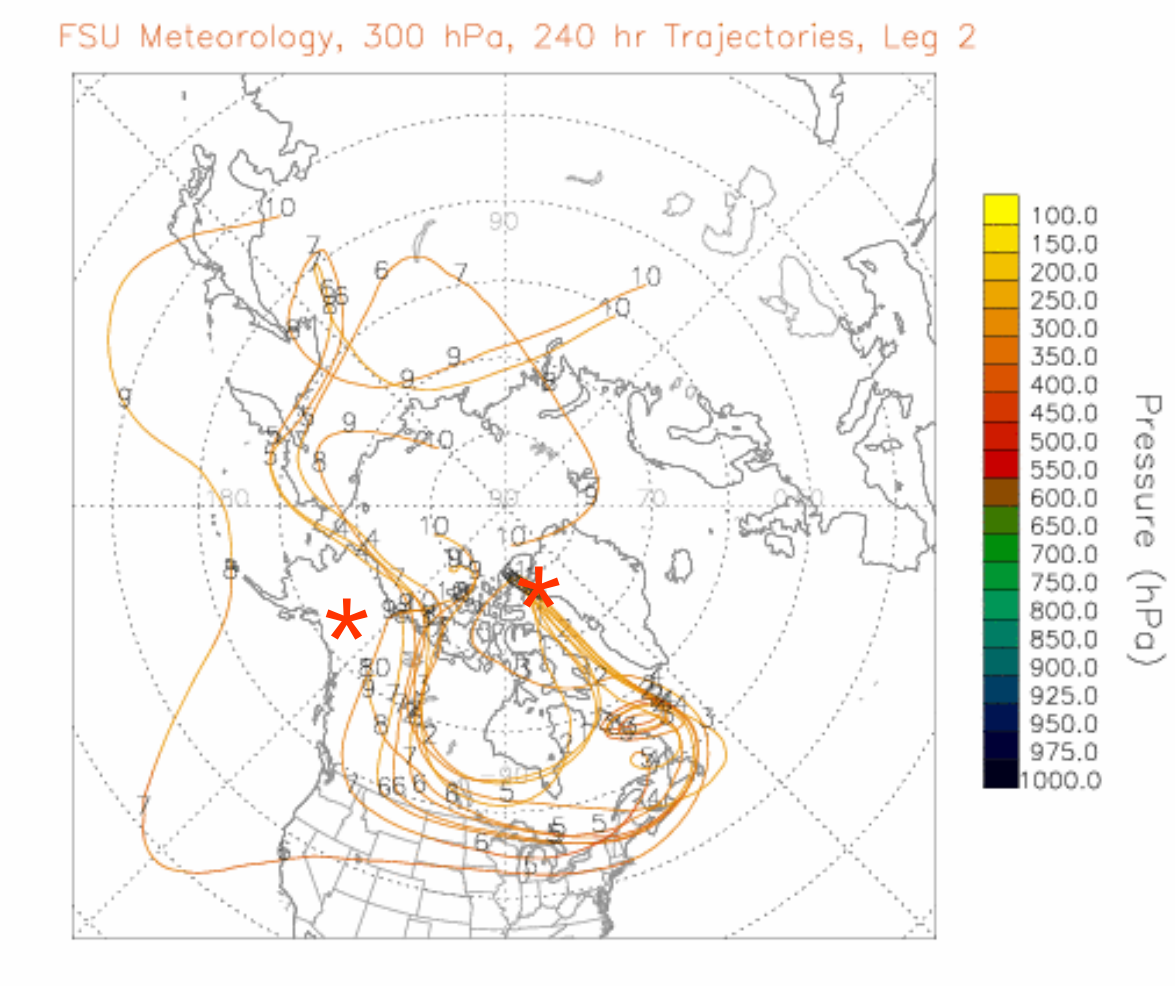
FSU 10 Day Backward Trajectories from 500 hPa Leg 1



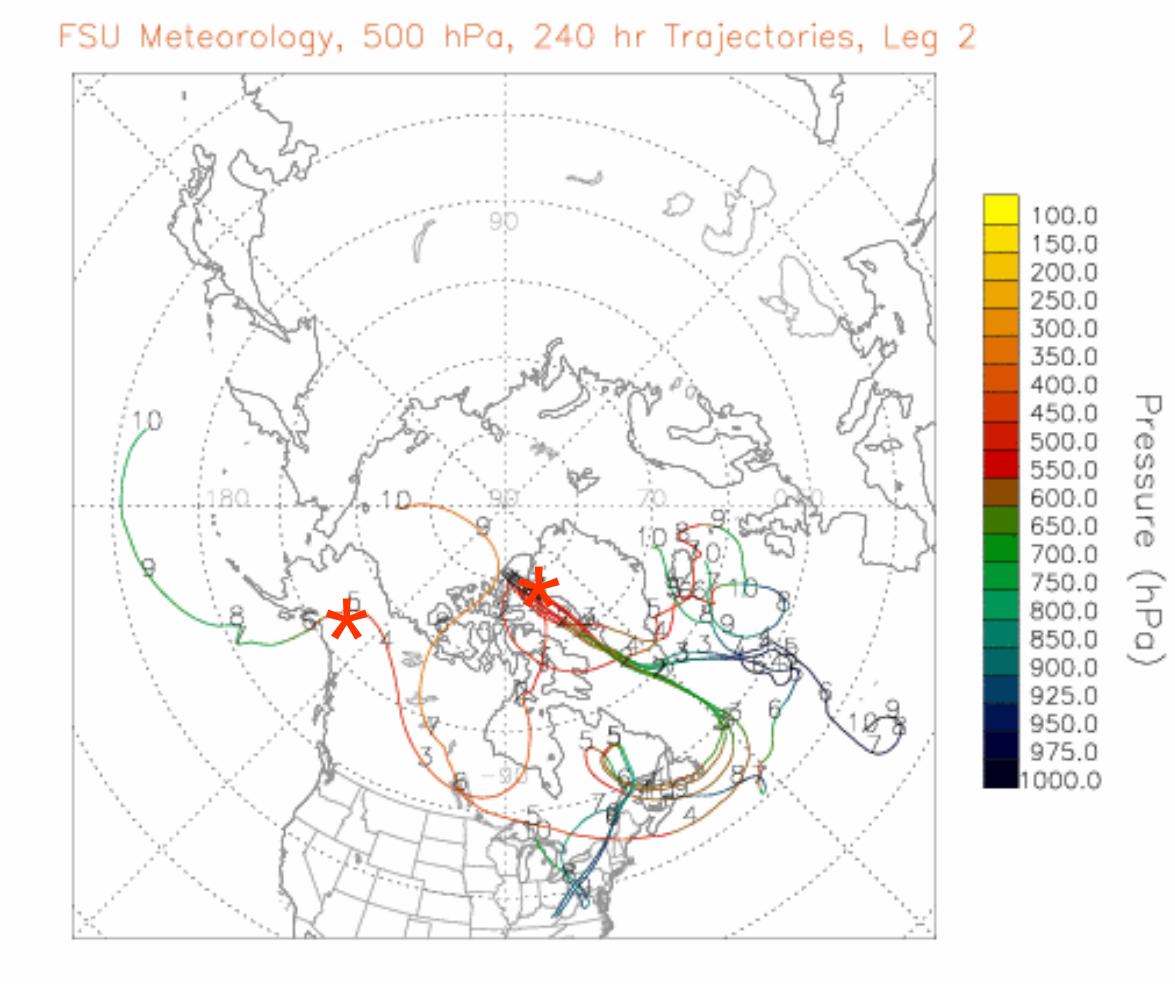
FSU 10 Day Backward Trajectories from 850 hPa Leg 1



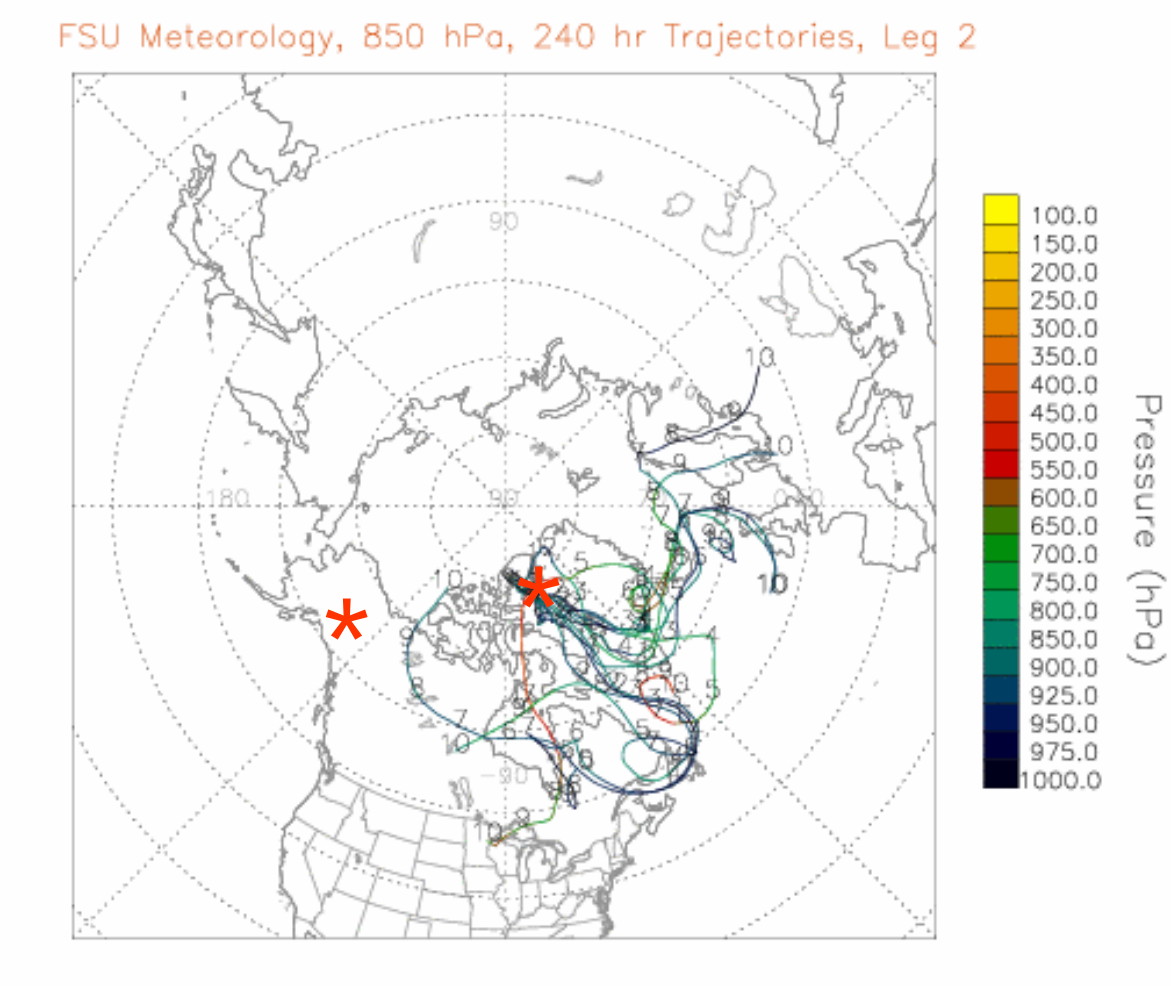
FSU 10 Day Backward Trajectories from 300 hPa Leg 2



FSU 10 Day Backward Trajectories from 500 hPa Leg 2

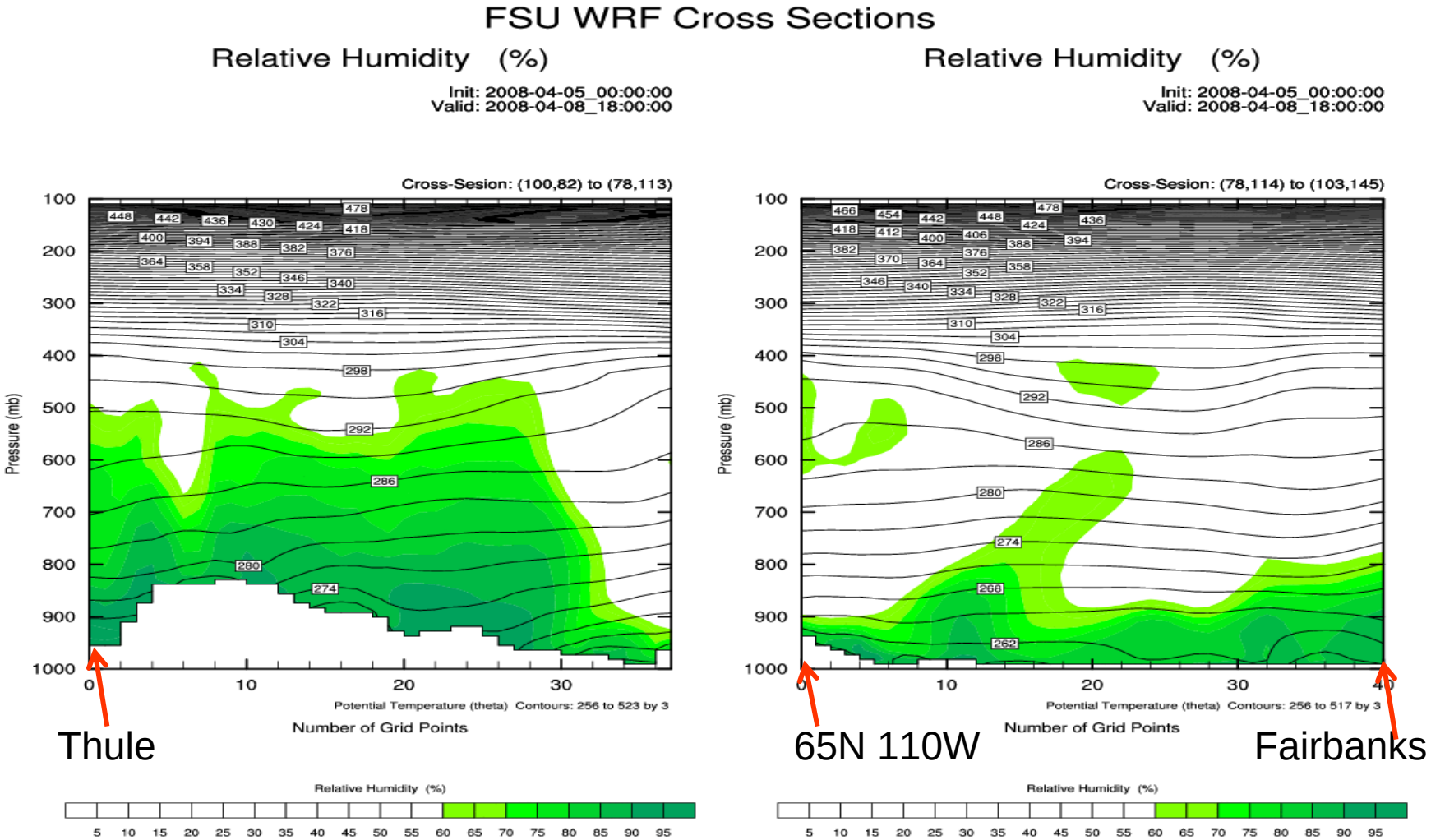


FSU 10 Day Backward Trajectories from 850 hPa Leg 2

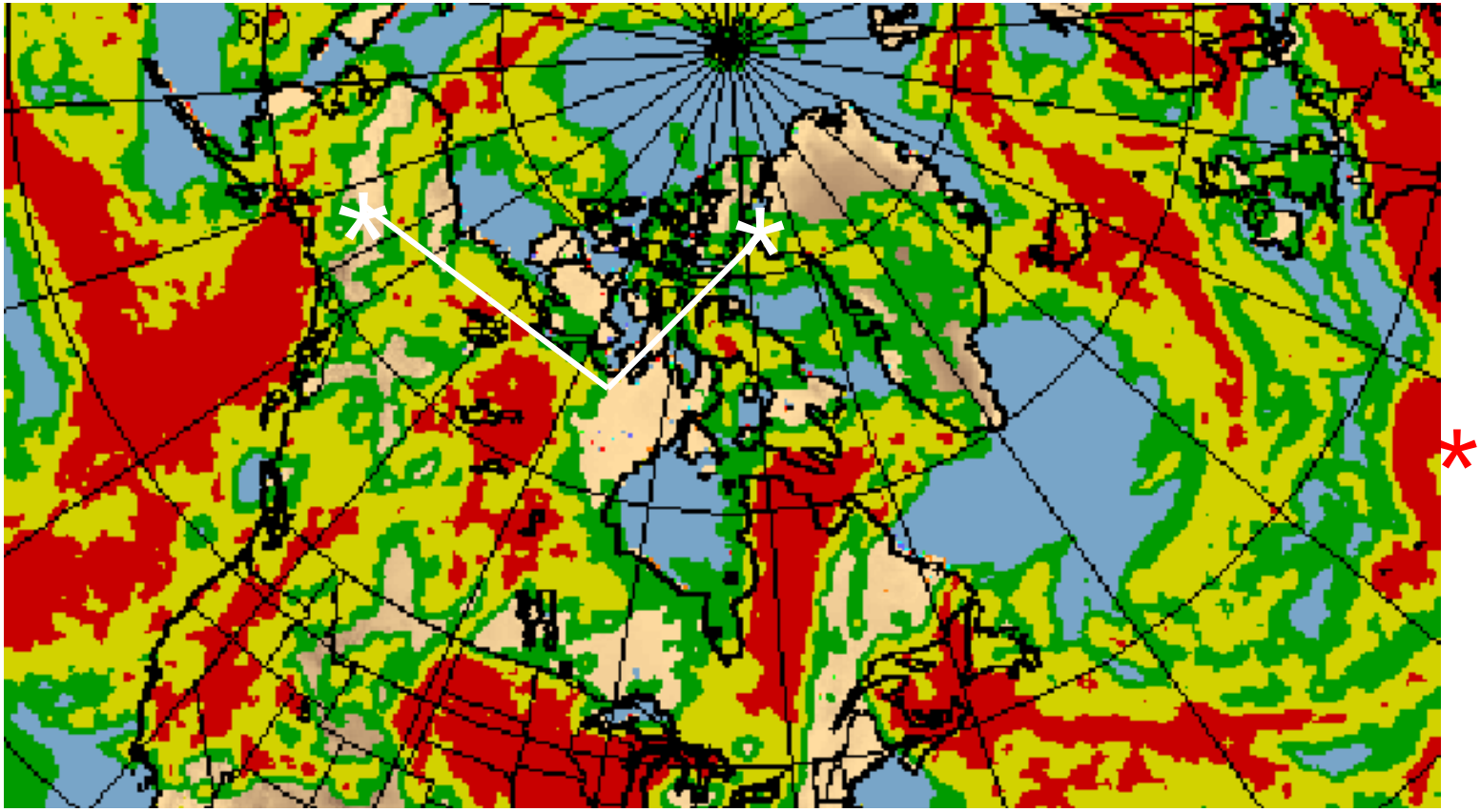


What About Clouds for Tuesday??

FSU WRF RH Cross Section DC-8 Flight Path Forecast Valid 1800 Z April 8



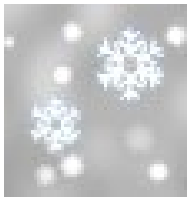
Air Force Total Cloud Cover for comparison
Valid 1800 Z April 8



Red = Overcast **Yellow = 0.6-0.9 coverage** **Green = 0.1-0.5 coverage**

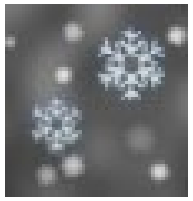
Fairbanks AK Forecast

Today



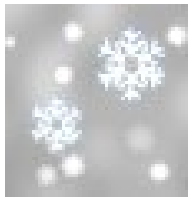
Snow likely
Hi: 35F

Tonight



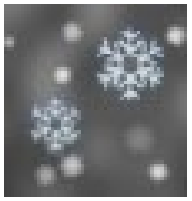
Snow
showers
Lo: 20F

Sunday



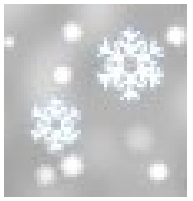
Scattered
Flurries
Hi: 32F

Sun. Night



Scattered
Flurries
Lo: 15F

Monday

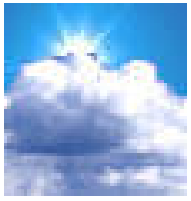


Scattered
Flurries
Hi: 37F

Mon. Night

Mostly
Cloudy
Lo: 20F

Tuesday

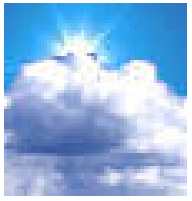


Cloudy
Hi: 35F

Tue. Night

Mostly
Cloudy:
Lo: 15F

Wednesday



Mostly
Cloudy
Hi: 35F