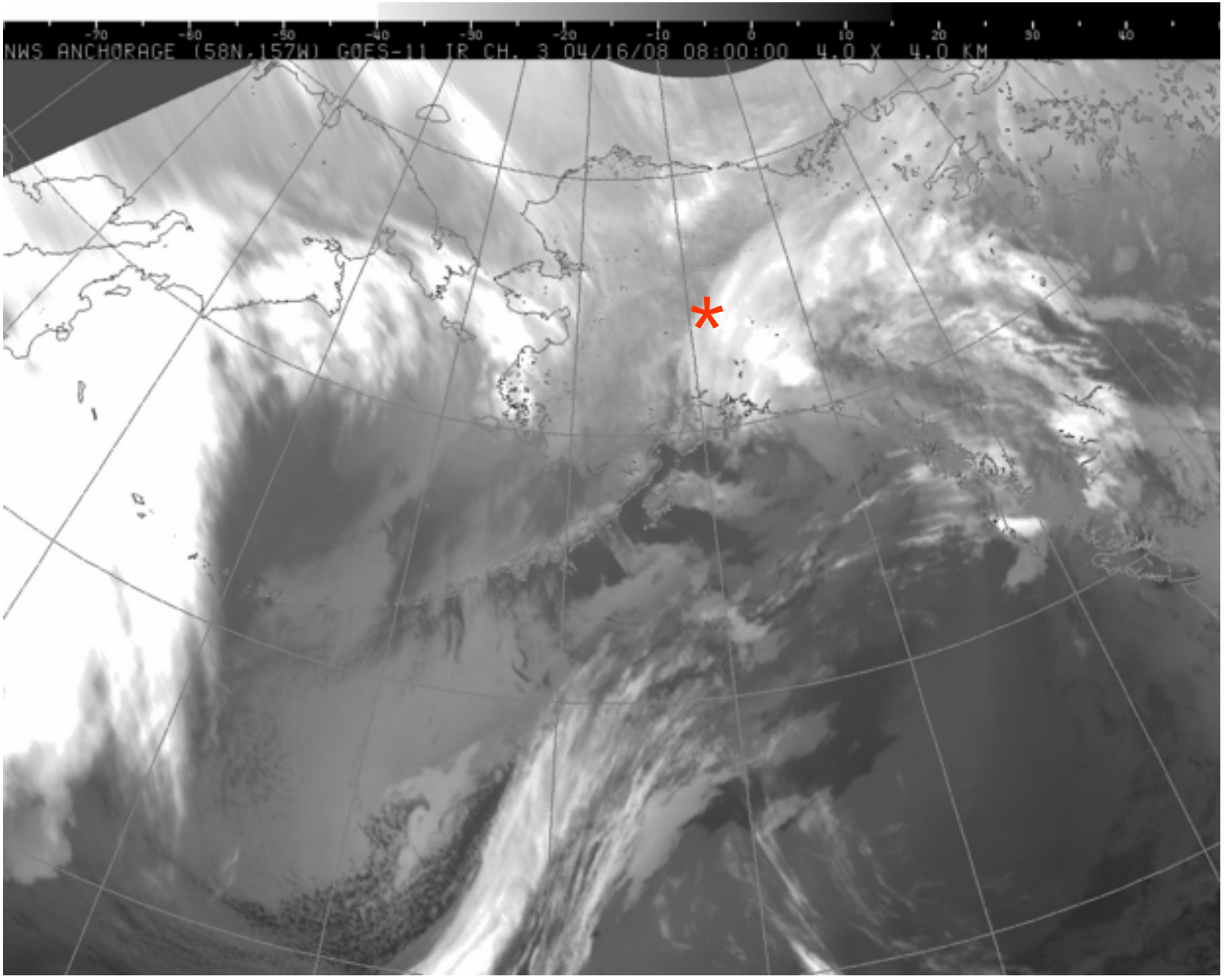
Flight Day Conditions

April 17, 19, 2008

Andy Latto
Henry Fuelberg

"Your Eyes to the Skies"

Current IR Satellite Image



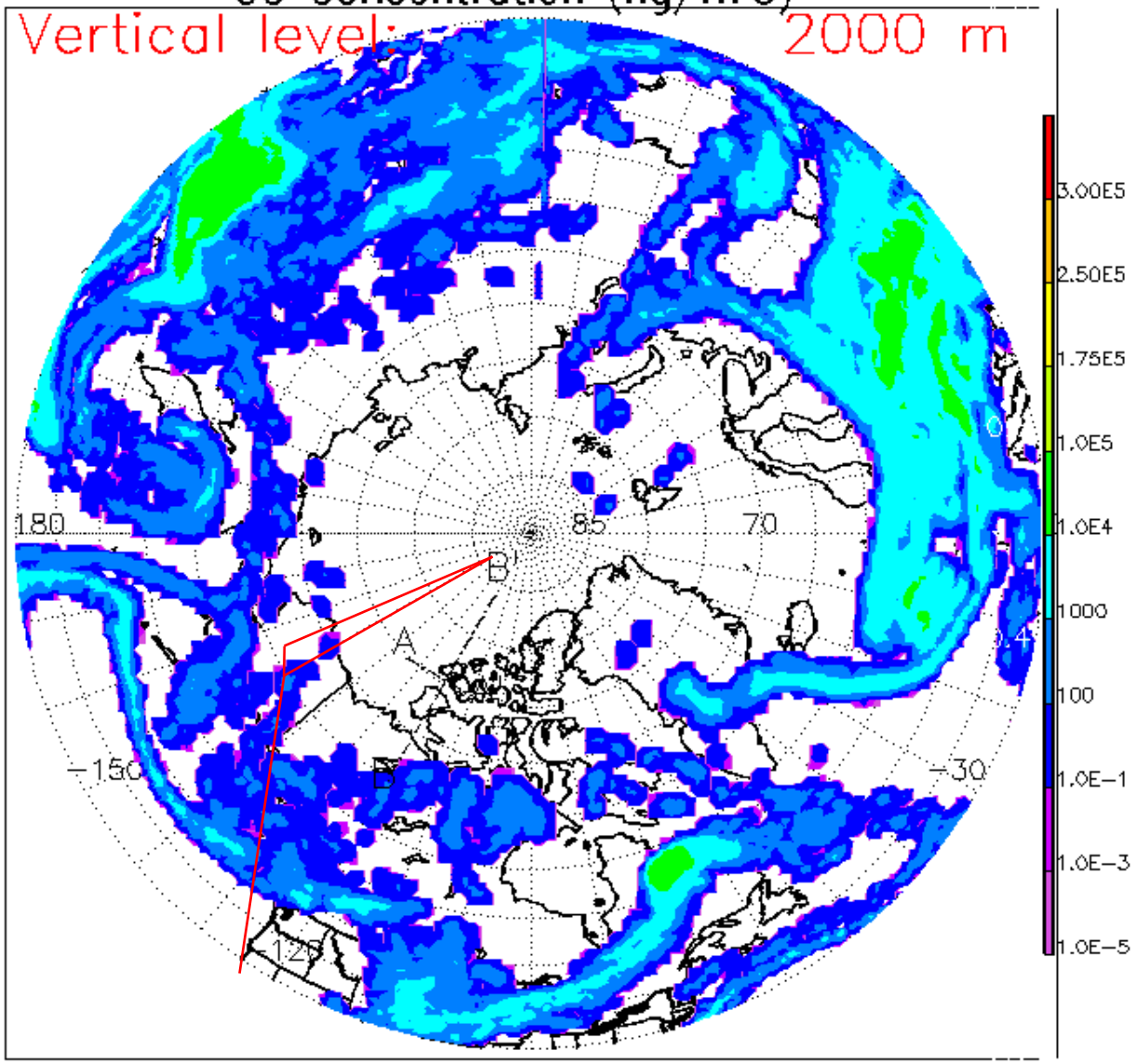
FSU Runs Flexpart

- Met data from FSU WRF run (25 km grid)
- Top 10% of emissions are tracked
- 7 day runs through fly day (Ending 4PM ADT Saturday)
- Color coded by concentration
- Fire Data Not Included

AdGIF UNREGISTERED - www.gif-animator.com

2000 April 17, 2008

CO Concentration (ng/m^3)

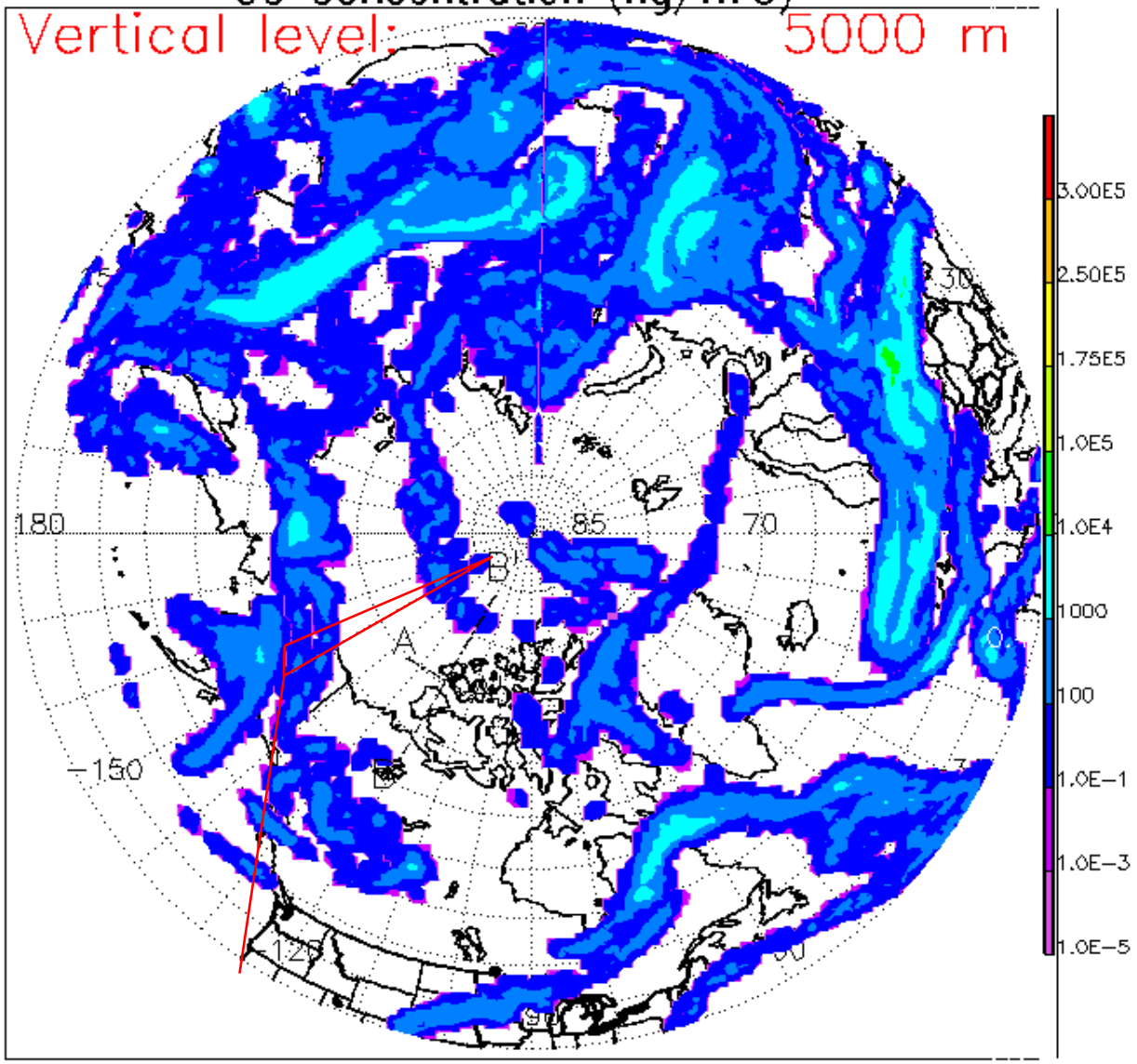


Florida State University Meteorology

AdGIF UNREGISTERED - www.gif-animator.com

2000 April 17, 2008

CO Concentration (ng/m^3)

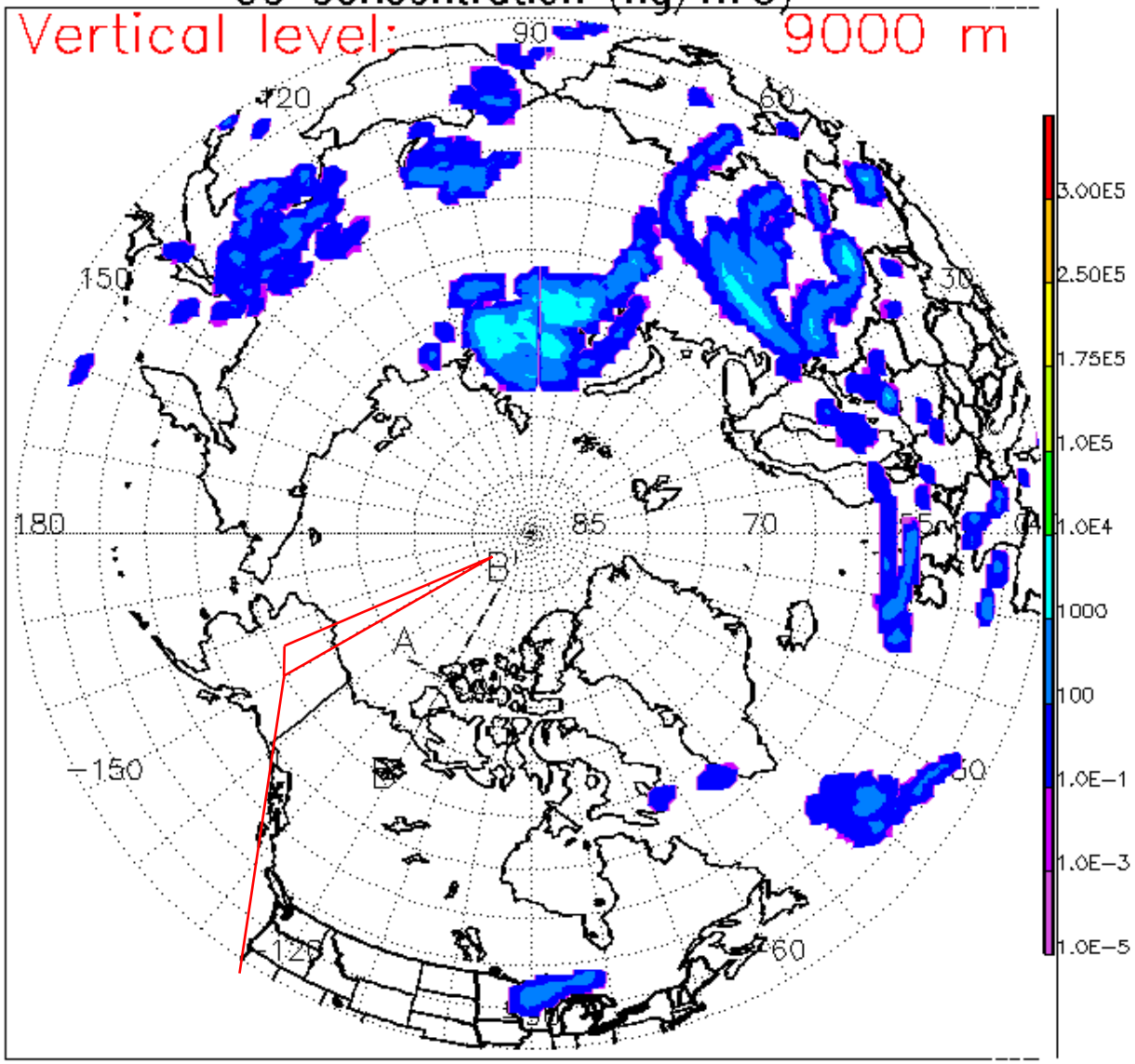


Florida State University Meteorology

AdGIF UNREGISTERED - www.gif-animator.com

2200 April 17, 2008

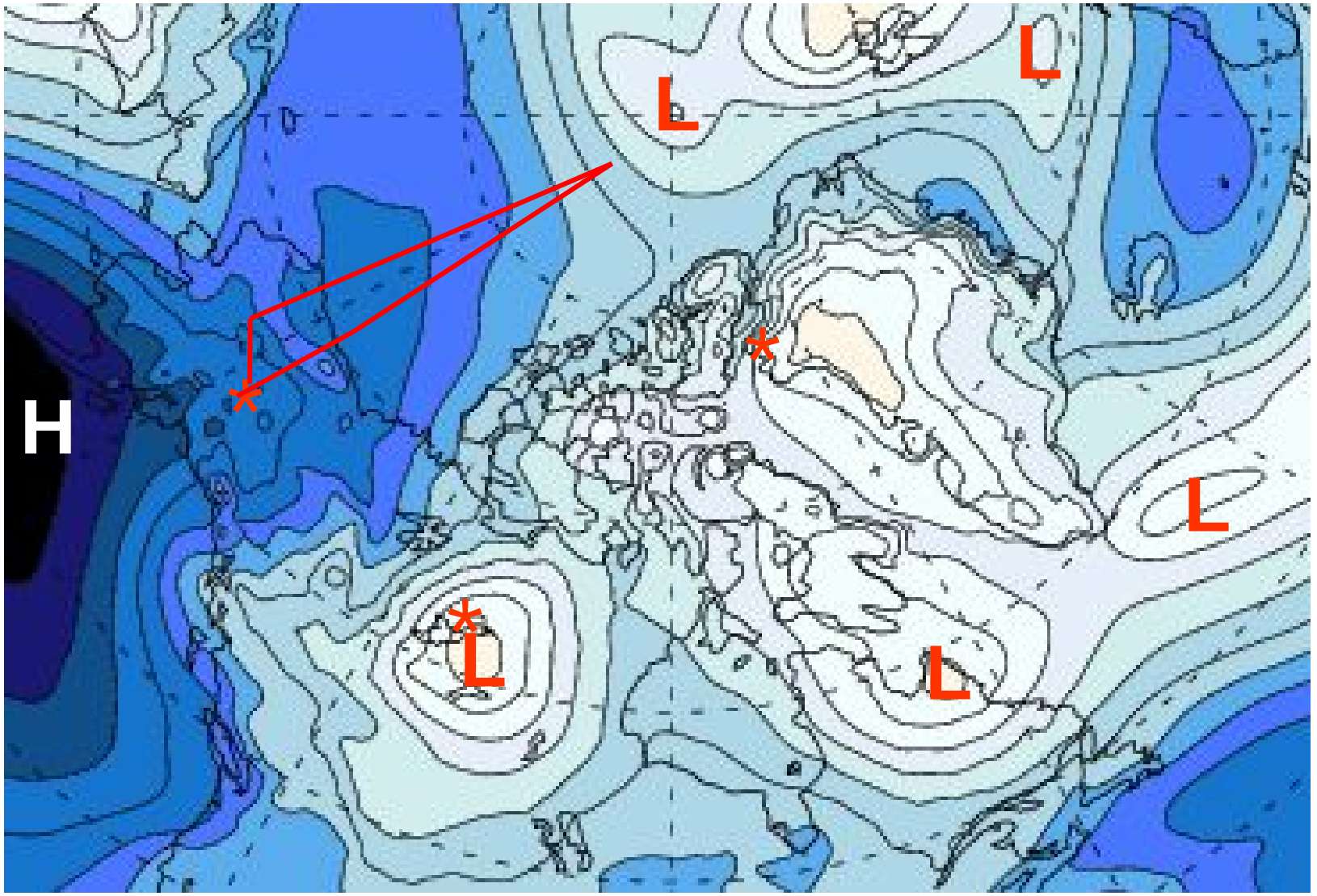
CO Concentration (ng/m^3)



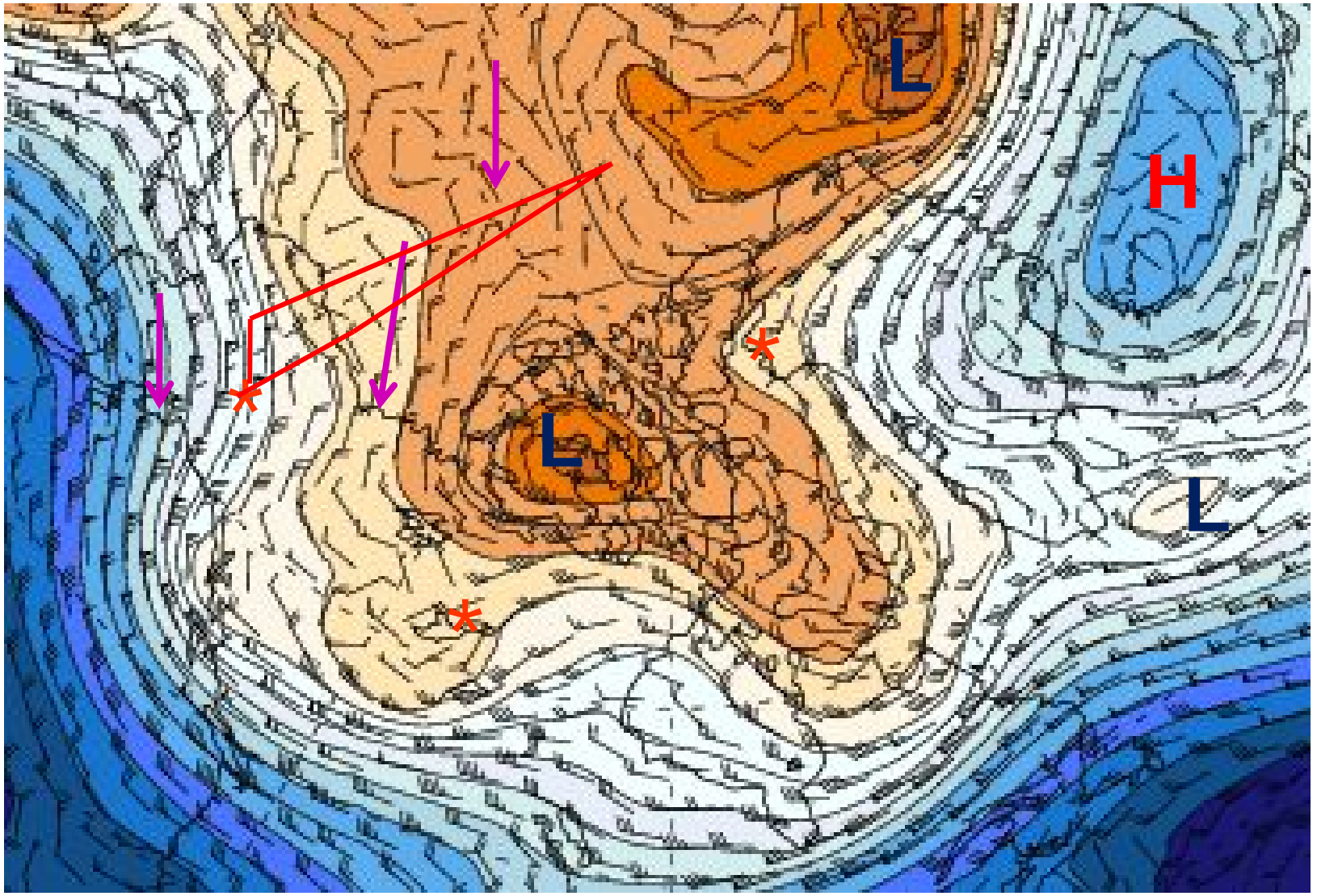
Florida State University Meteorology

Forecast For Thursday

FSU WRF Forecast Valid 2200 Z (2PM ADT) Thursday April 17
Sea Level Pressure



FSU WRF Forecast Valid 2200 Z (2PM ADT) Thursday April 17
500 hPa Heights and Winds



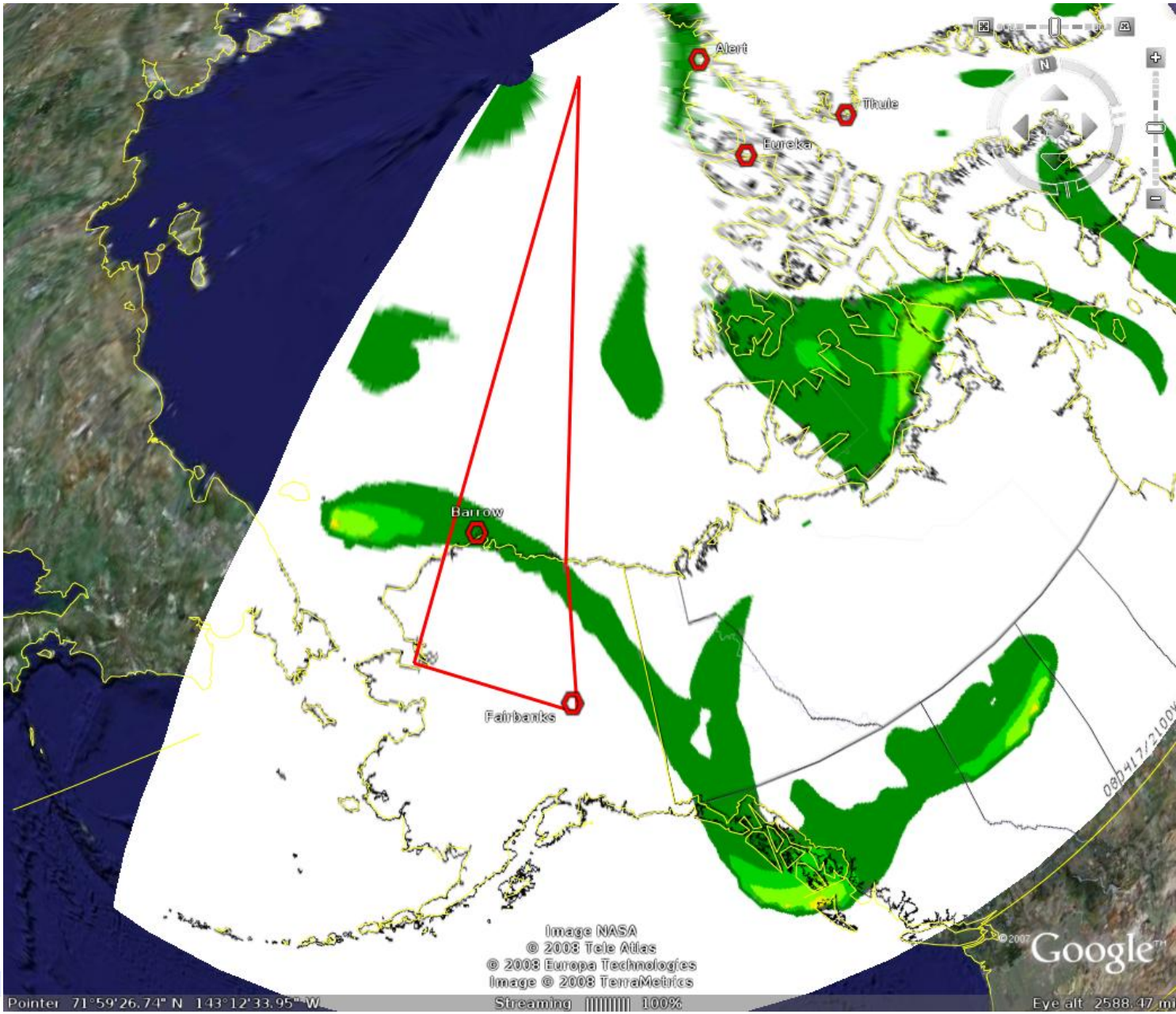
Overview – Tropopause height – April 17 1300 AK (21Z April 17)

Tropopause height:

- 400mb – 500mb
- 500mb – 550mb
- 550mb – 600mb
- < 600mb

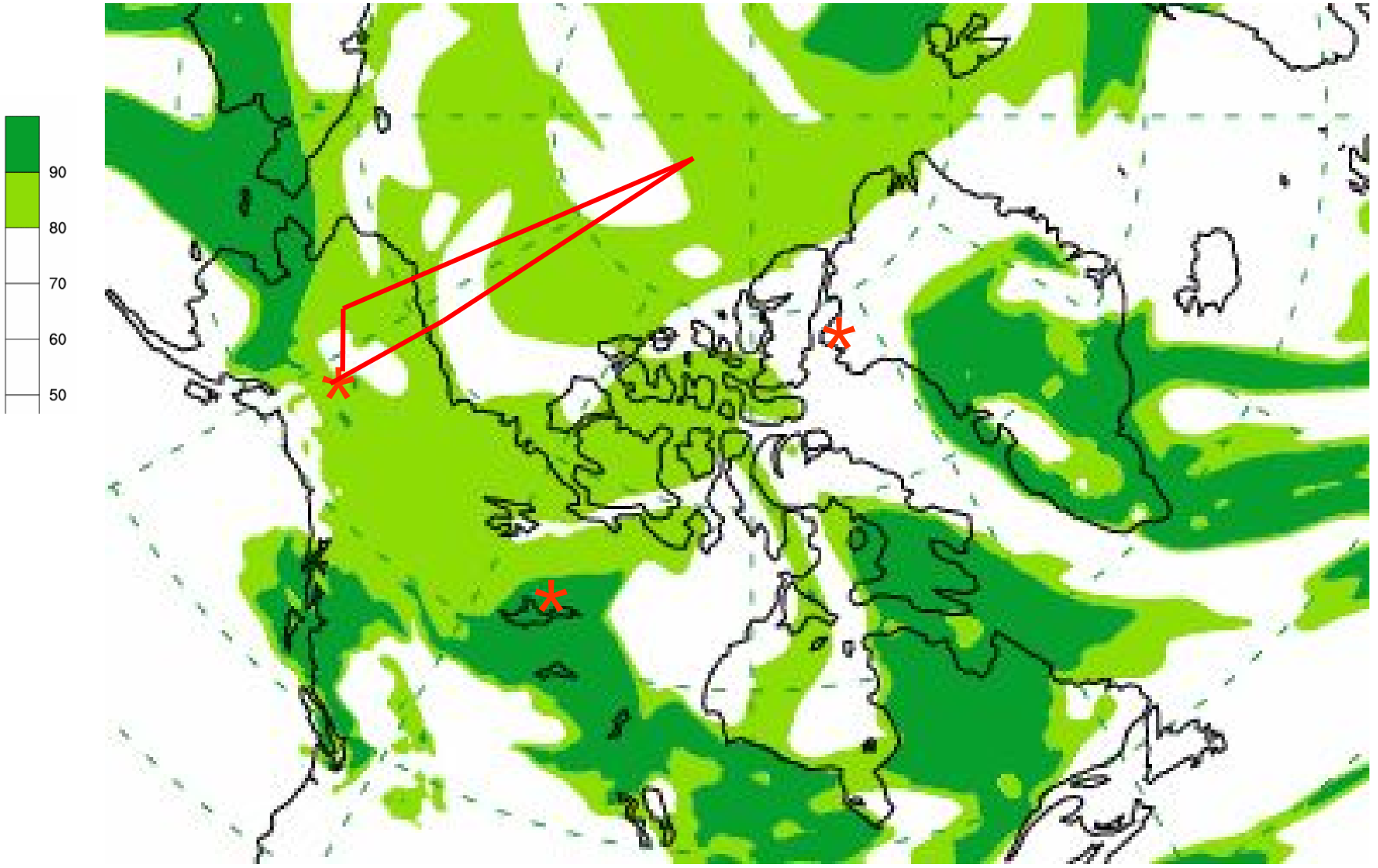
UNIVERSITY OF ALASKA FAIRBANKS

International Arctic Research Center

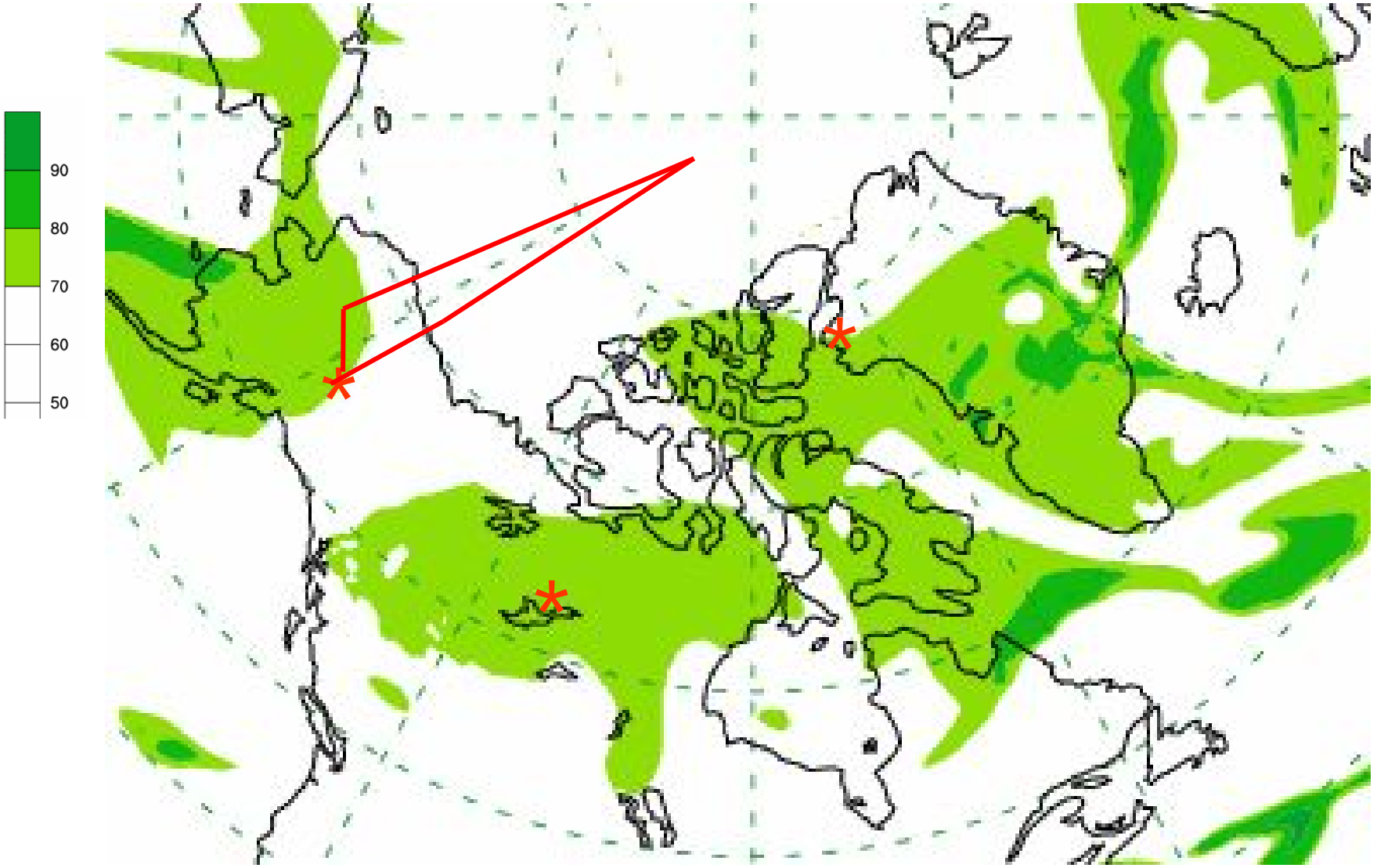


What About Clouds for Thursday??

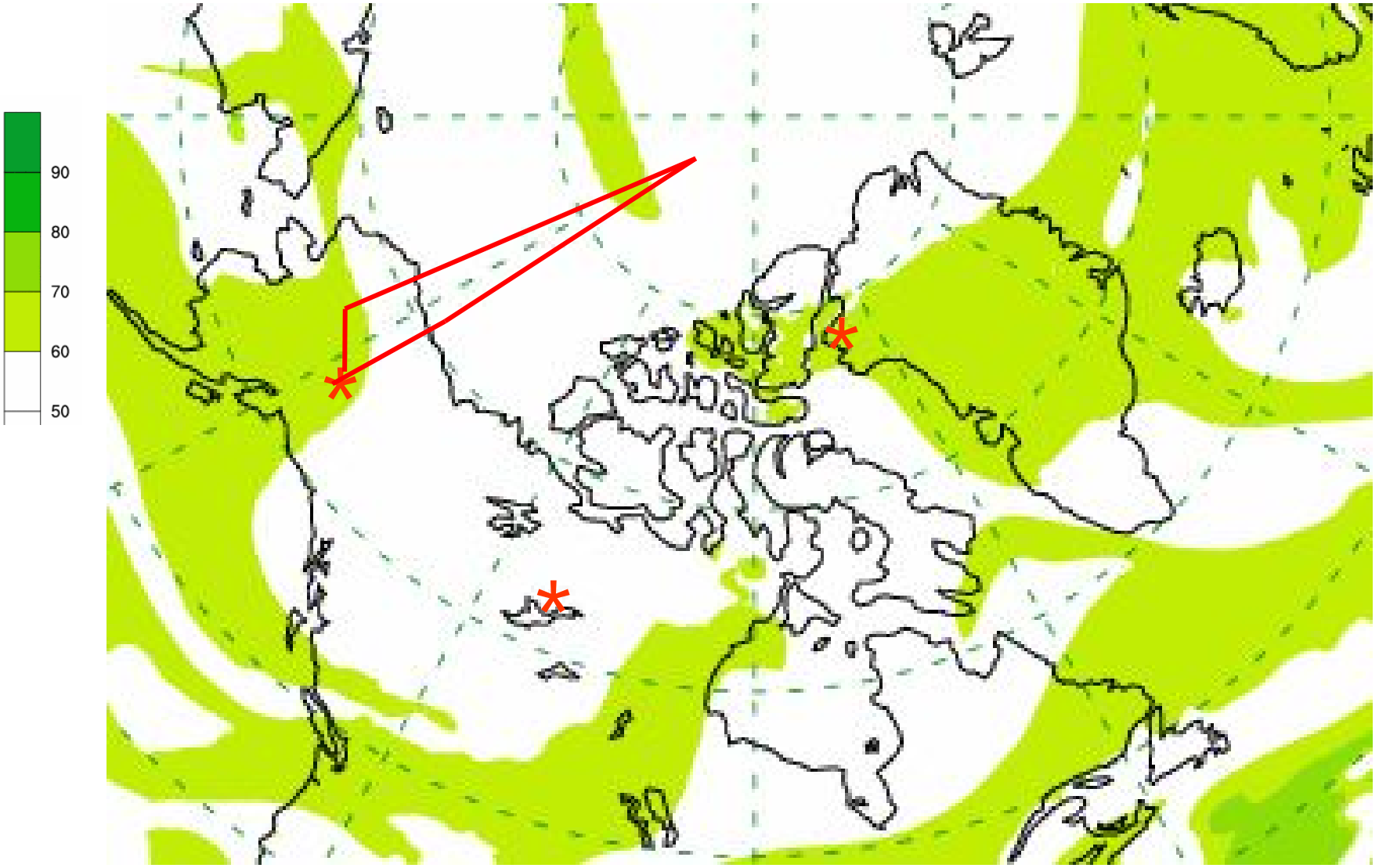
FSU WRF Relative Humidity at 850 hPa Forecast
Valid 2200 Z Thursday April 17



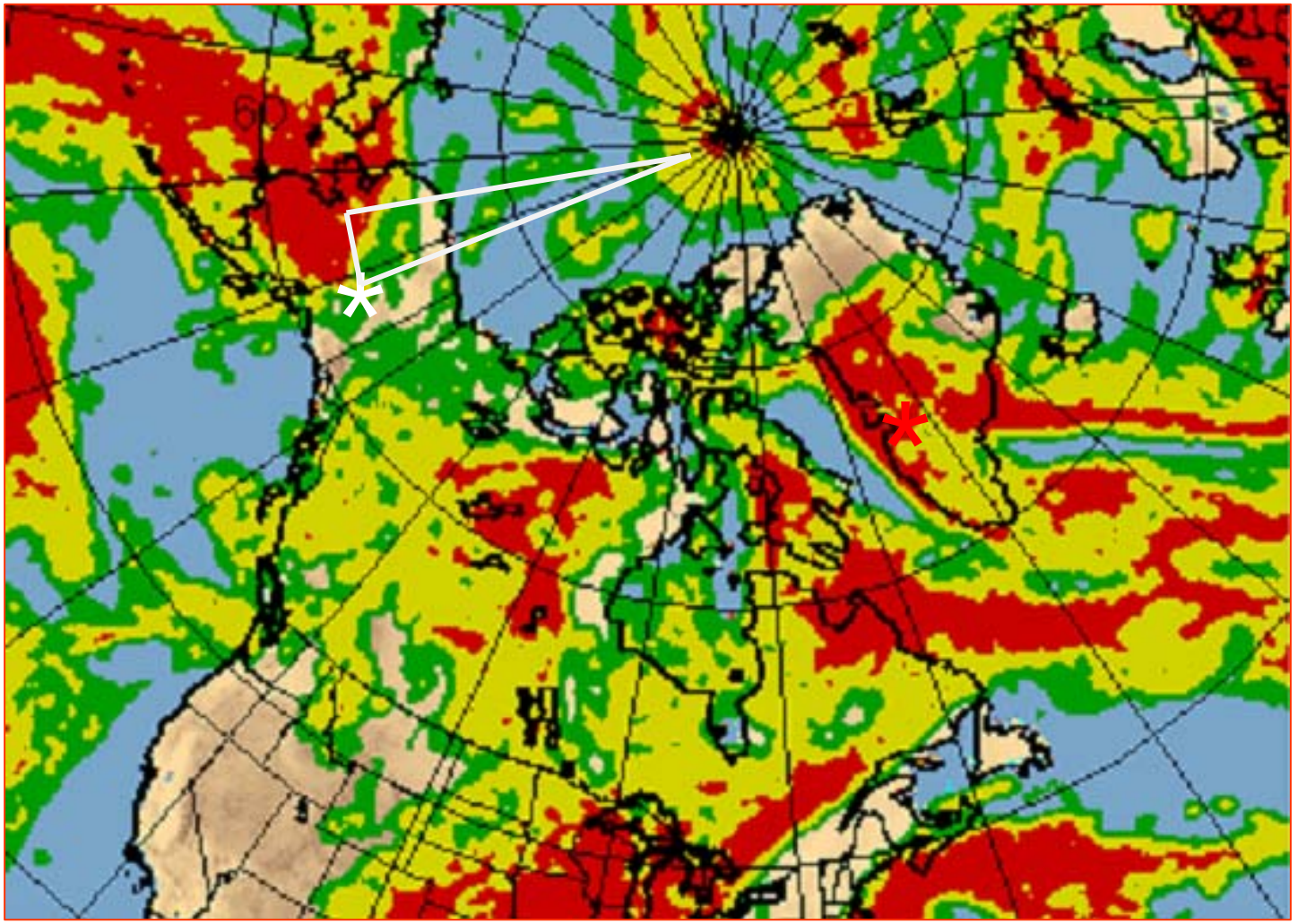
FSU WRF Relative Humidity at 500 hPa Forecast
Valid 2200 Z Thursday April 17



FSU WRF Relative Humidity at 300 hPa Forecast
Valid 2200 Z Thursday April 17



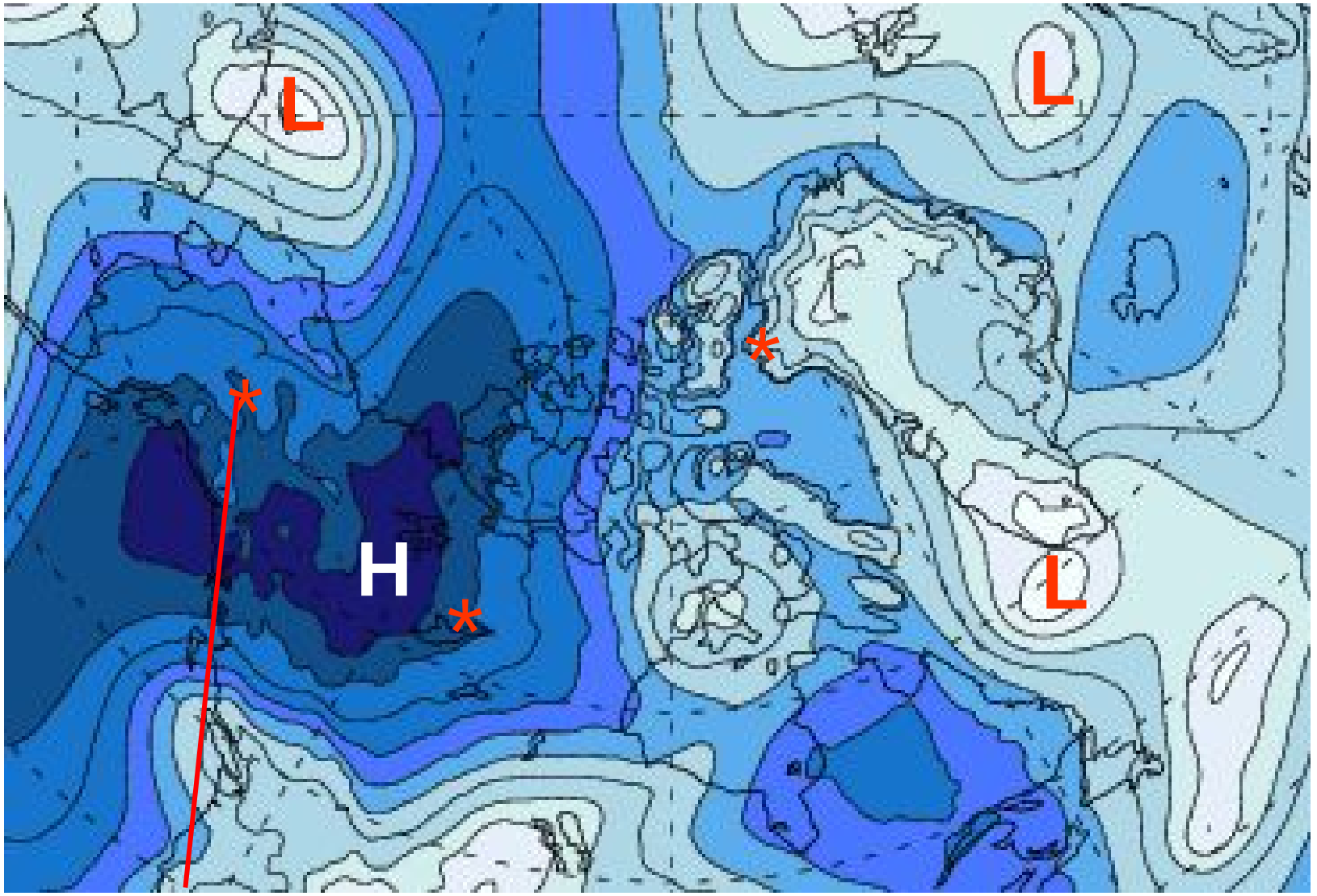
Let's Compare with Air Force Cloud Cover
Valid 2100 Z (1 pm ADT) Thursday April 17



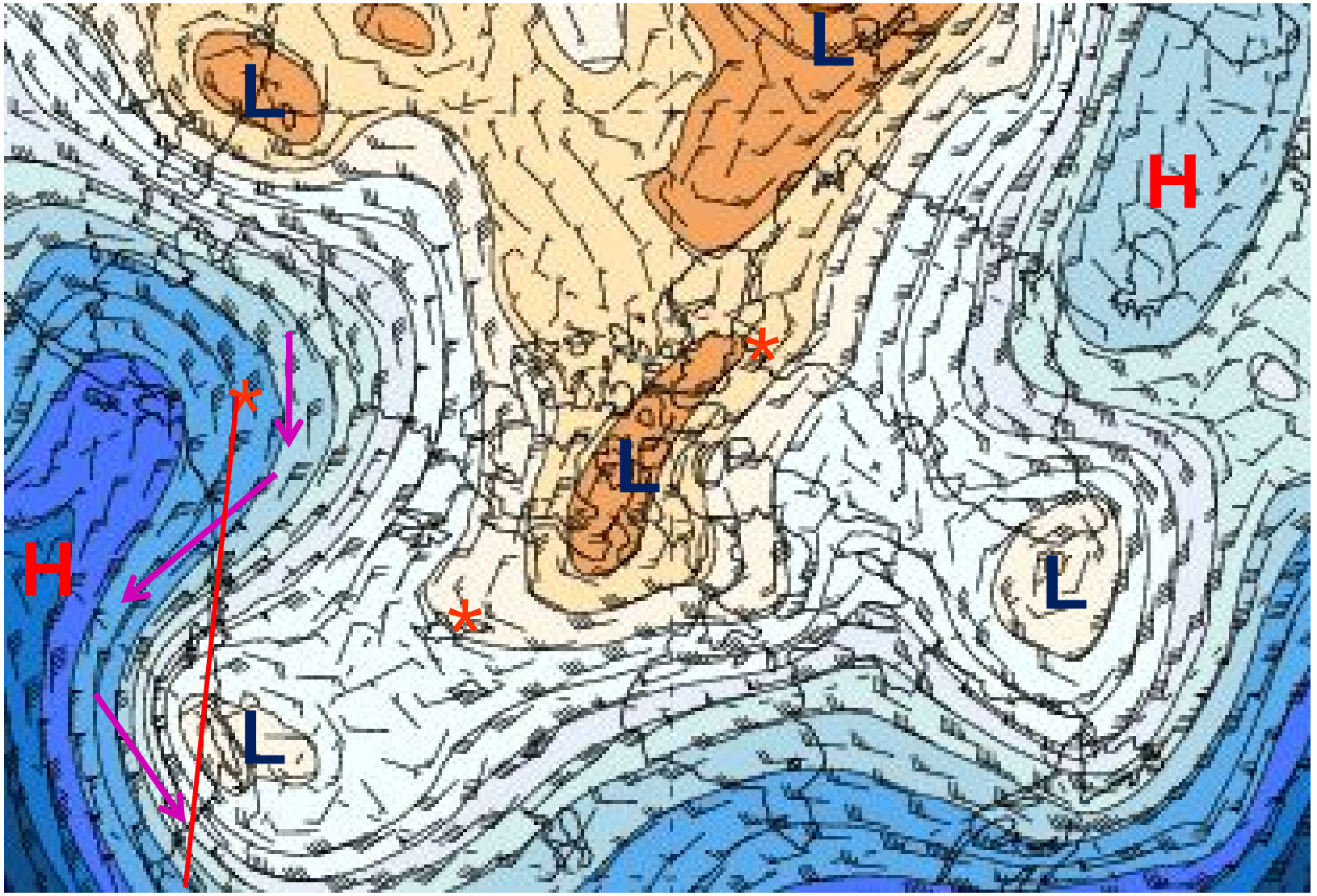
Red = Overcast Yellow = 0.6-0.9 coverage Green = 0.1-0.5 coverage

What About Saturday's Forecast??

FSU WRF Forecast Valid 1800 Z Saturday April 19
Sea Level Pressure

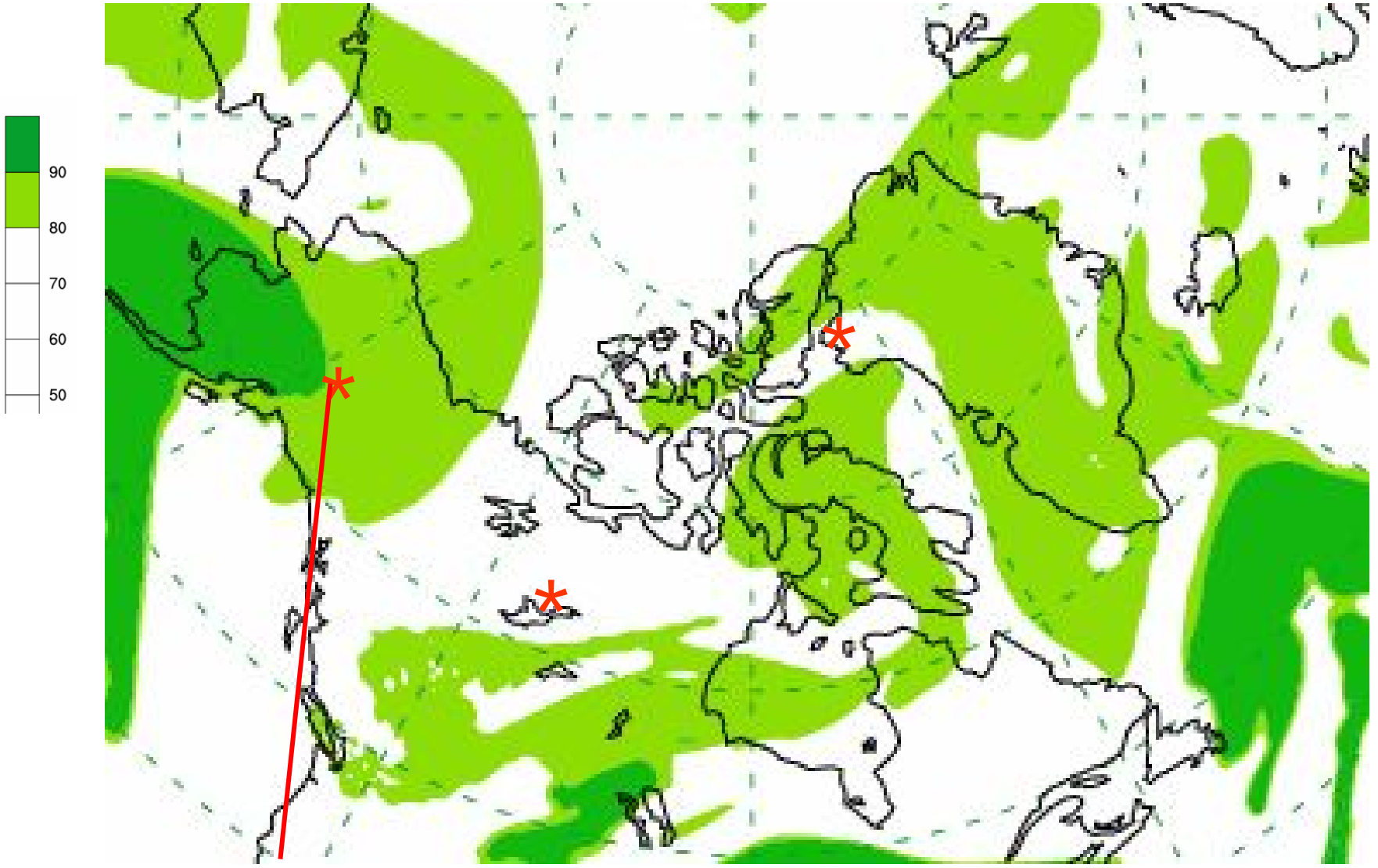


FSU WRF Forecast Valid 1800 Z Saturday April 19
500 hPa Heights and Winds

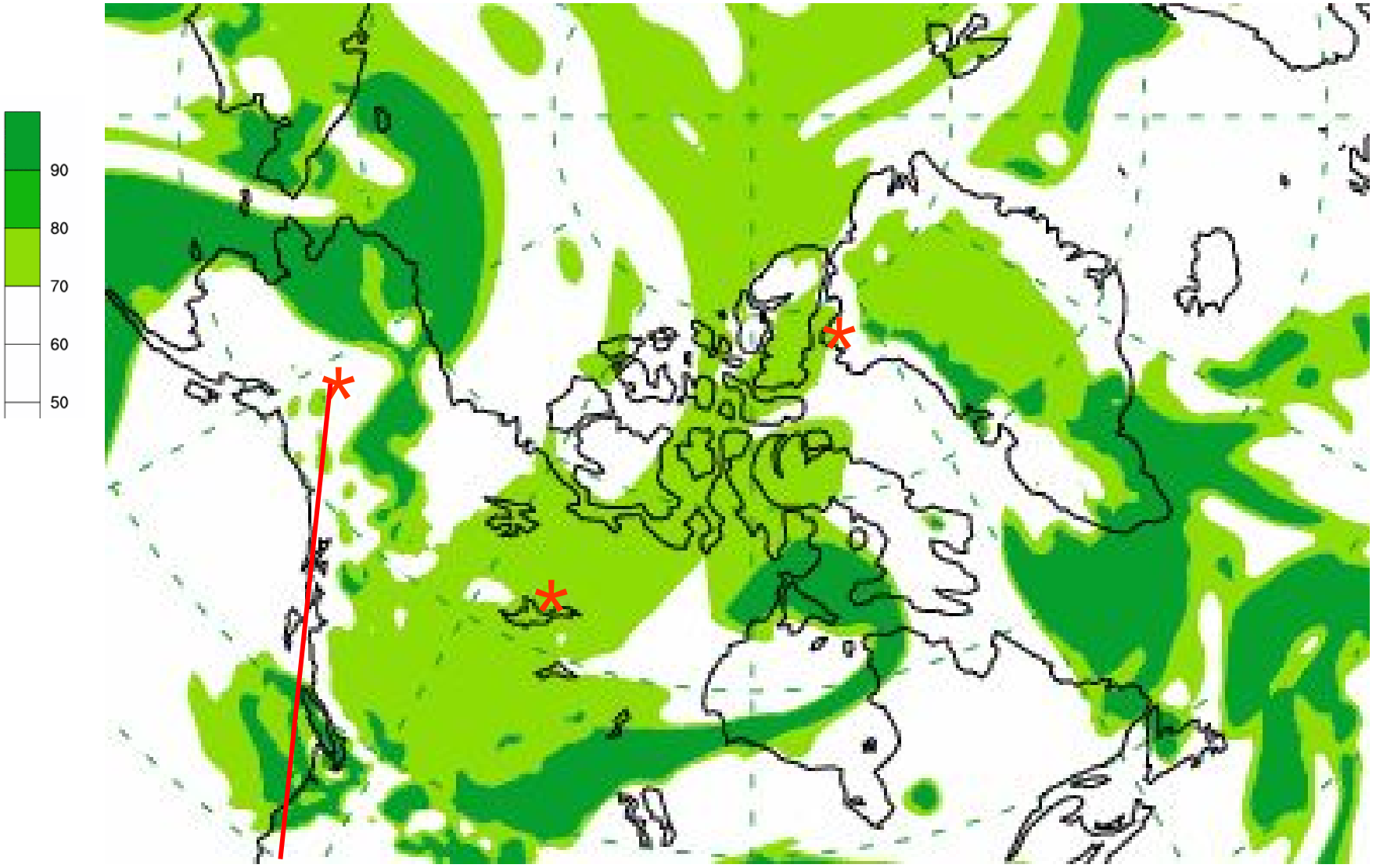


What About Clouds for Saturday??

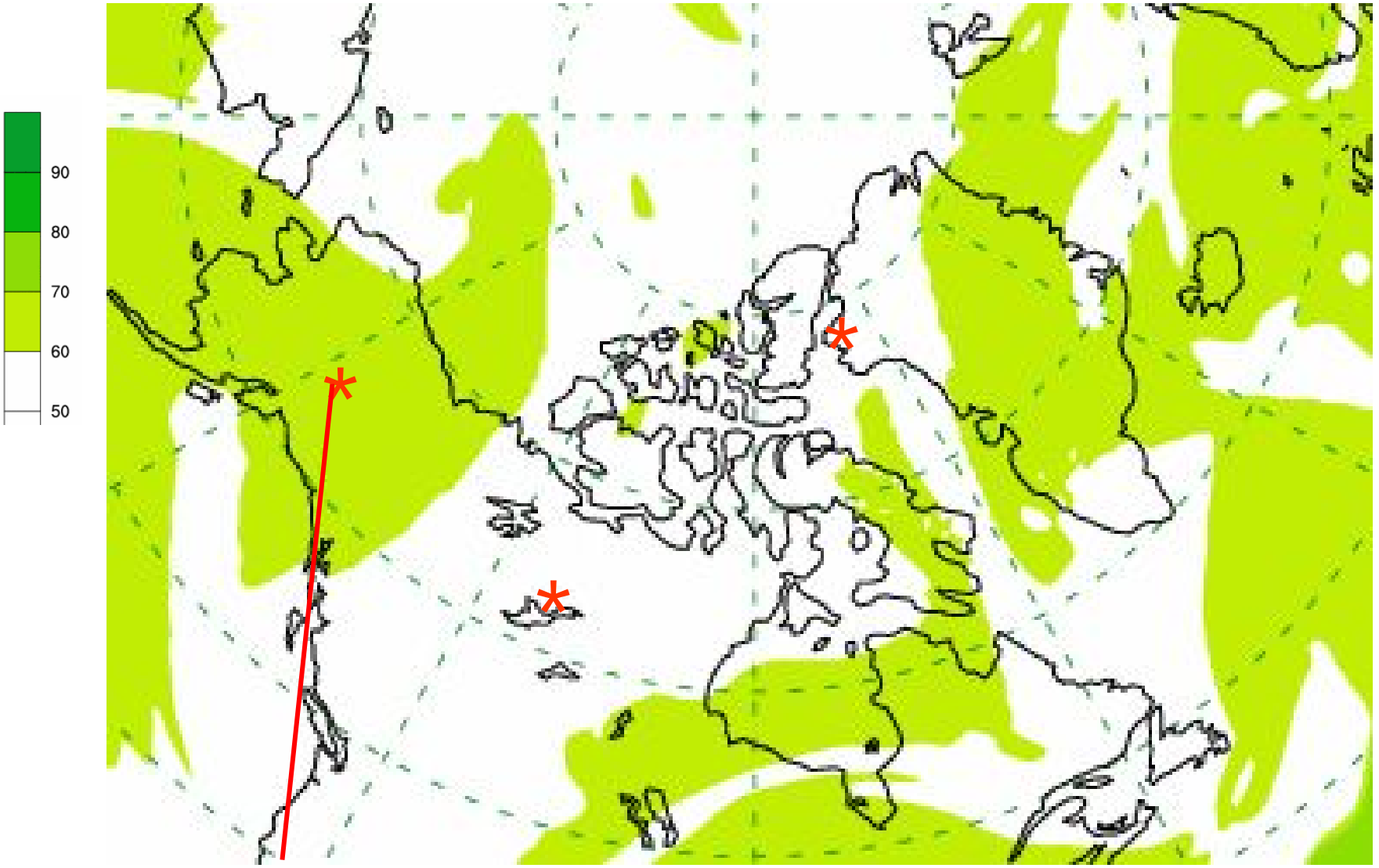
FSU WRF Relative Humidity at 850 hPa Forecast
Valid 1800 Z Saturday April 19



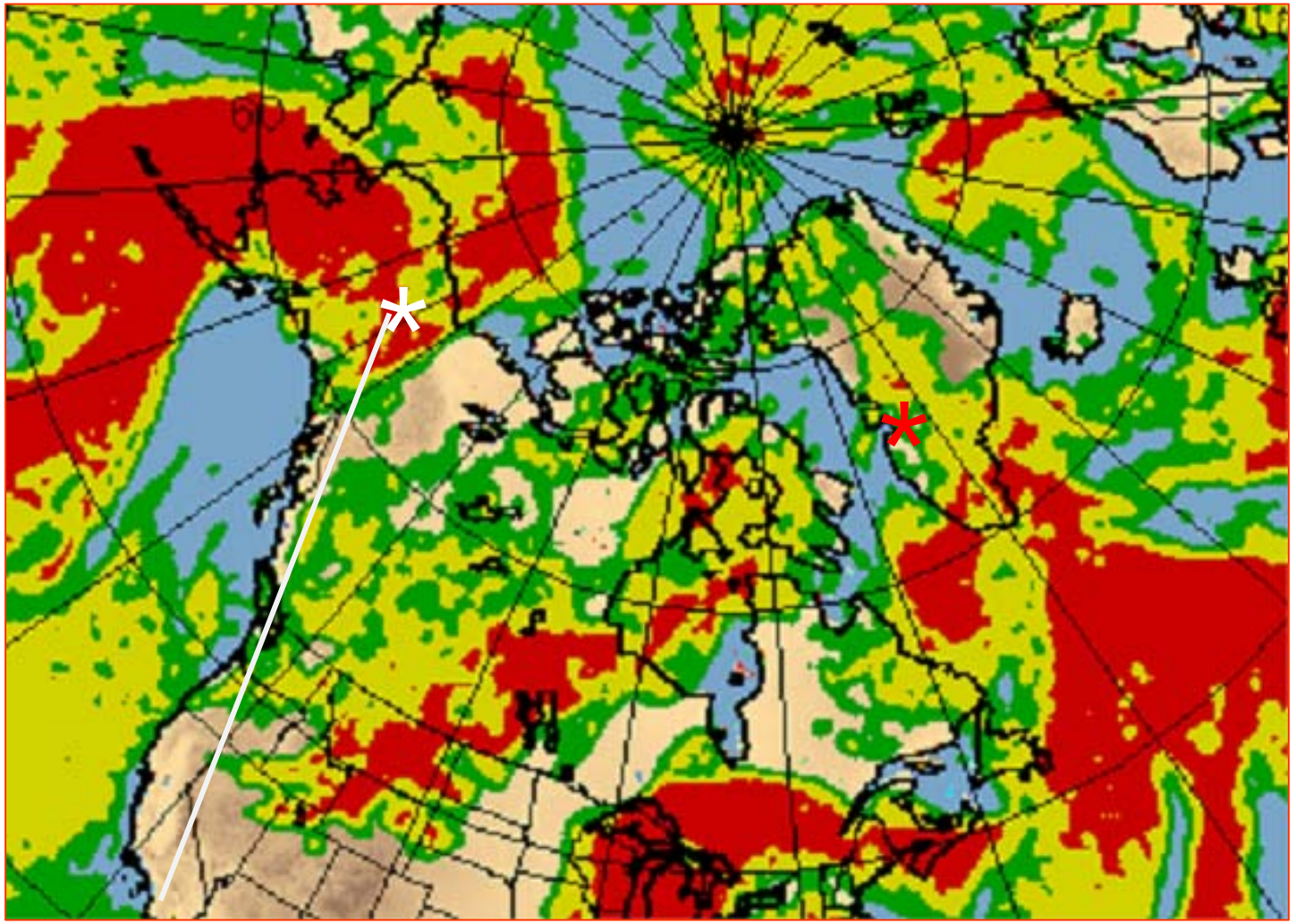
FSU WRF Relative Humidity at 500 hPa Forecast
Valid 1800 Z Saturday April 19



FSU WRF Relative Humidity at 300 hPa Forecast
Valid 1800 Z Saturday April 19



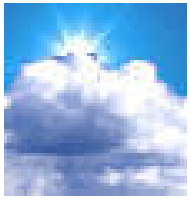
Let's Compare with Air Force Cloud Cover
Valid 1800 Z Saturday April 19



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

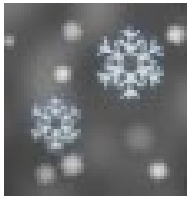
Fairbanks AK Forecast

Today



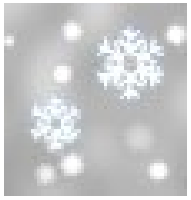
Scattered Flurries
Hi: 30F

Tonight



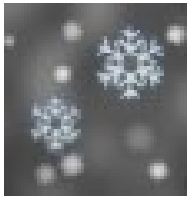
Scattered Flurries
Lo: 6F

Thursday



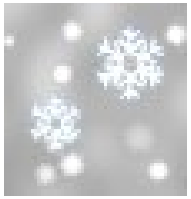
Chance of PM Snow
Hi: 30F

Thu. Night



Chance of Snow
Lo: 10F

Friday

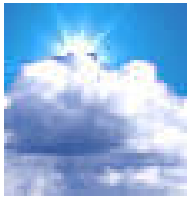


Chance of AM Snow
Hi: 38F

Fri. Night

Mostly Cloudy
Lo: 20F

Saturday

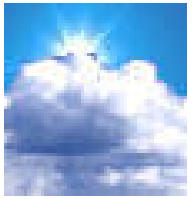


Mostly Cloudy
Hi: 45F

Sat. Night

Mostly Cloudy
Lo: 25

Sunday



Mostly Cloudy
Hi: 50F

AVERAGES Hi: 41 Low: 18