

Flight Day Conditions

April 1 2008

Henry Fuelberg

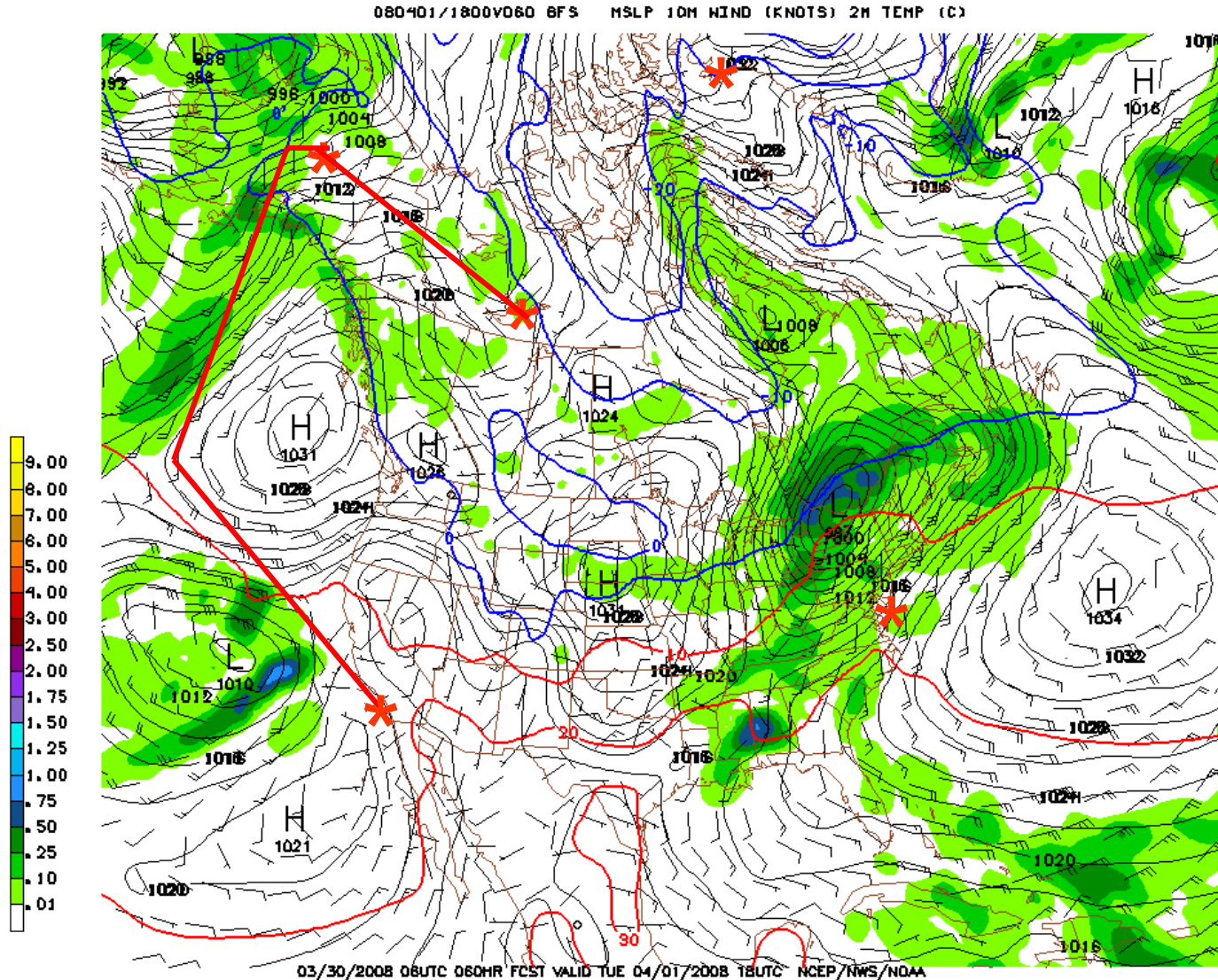
Andy Latto

“Your Eyes to the Skies”

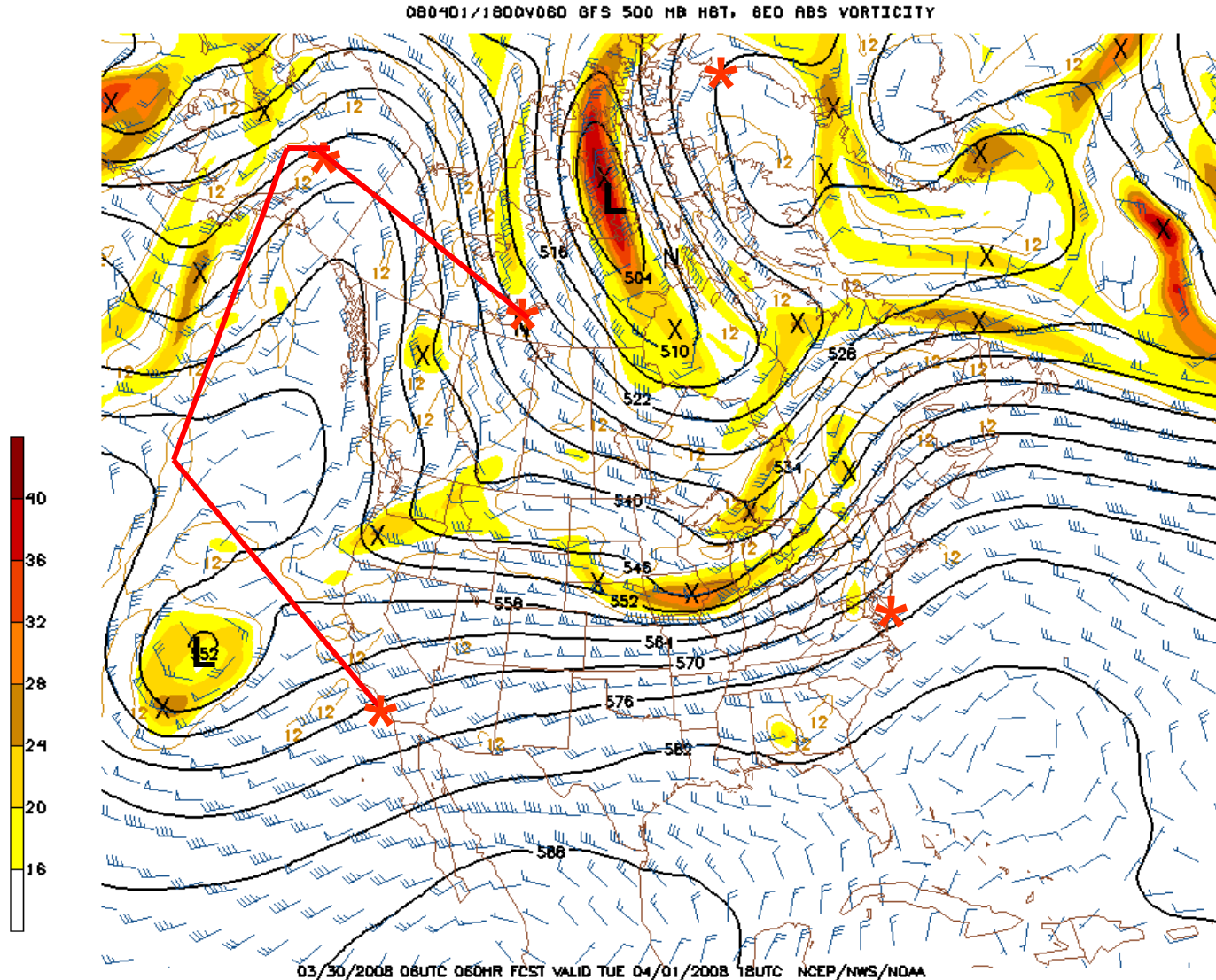


GFS Forecast Valid 1800Z April 1

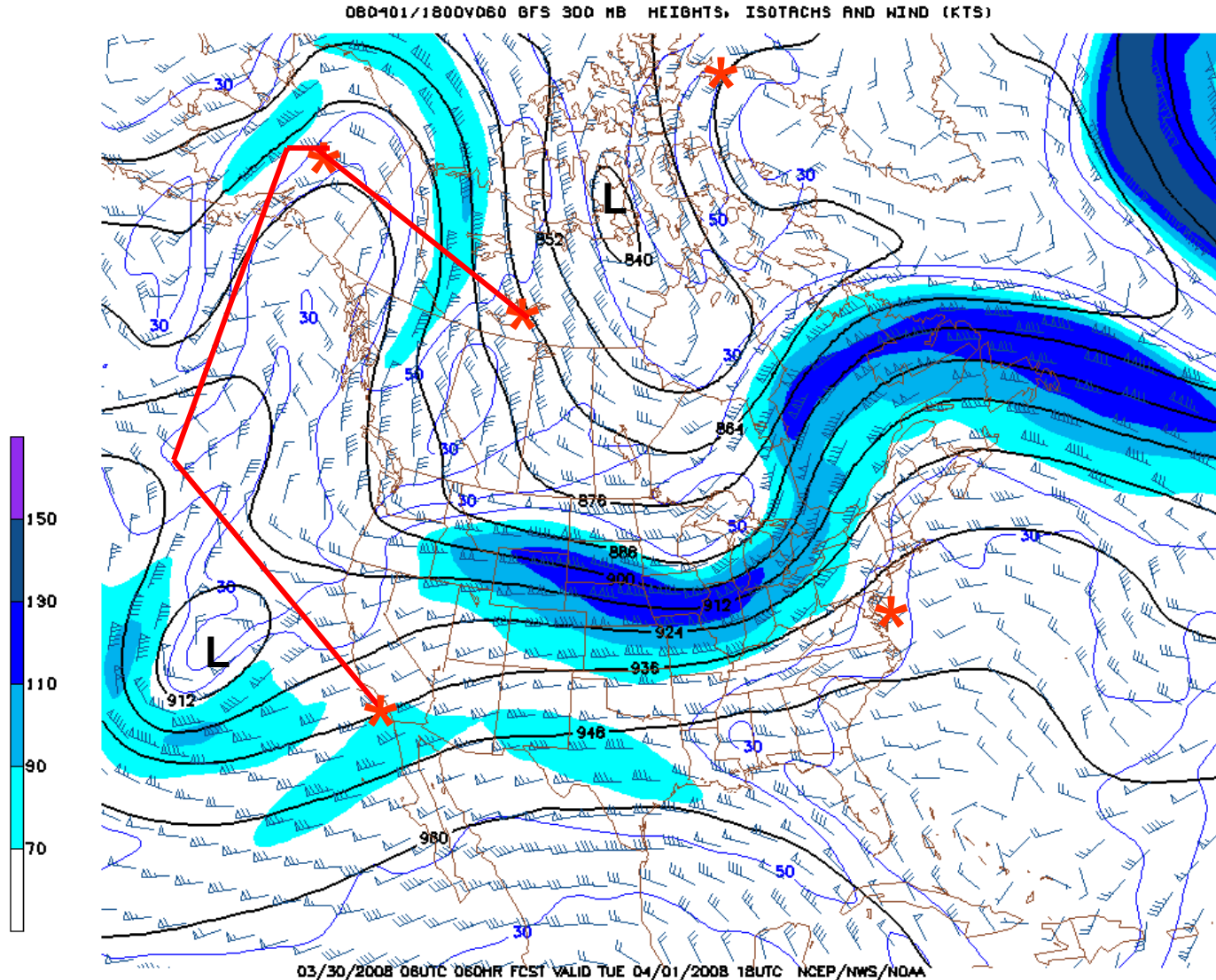
SLP, 10 m winds, 6 h precip



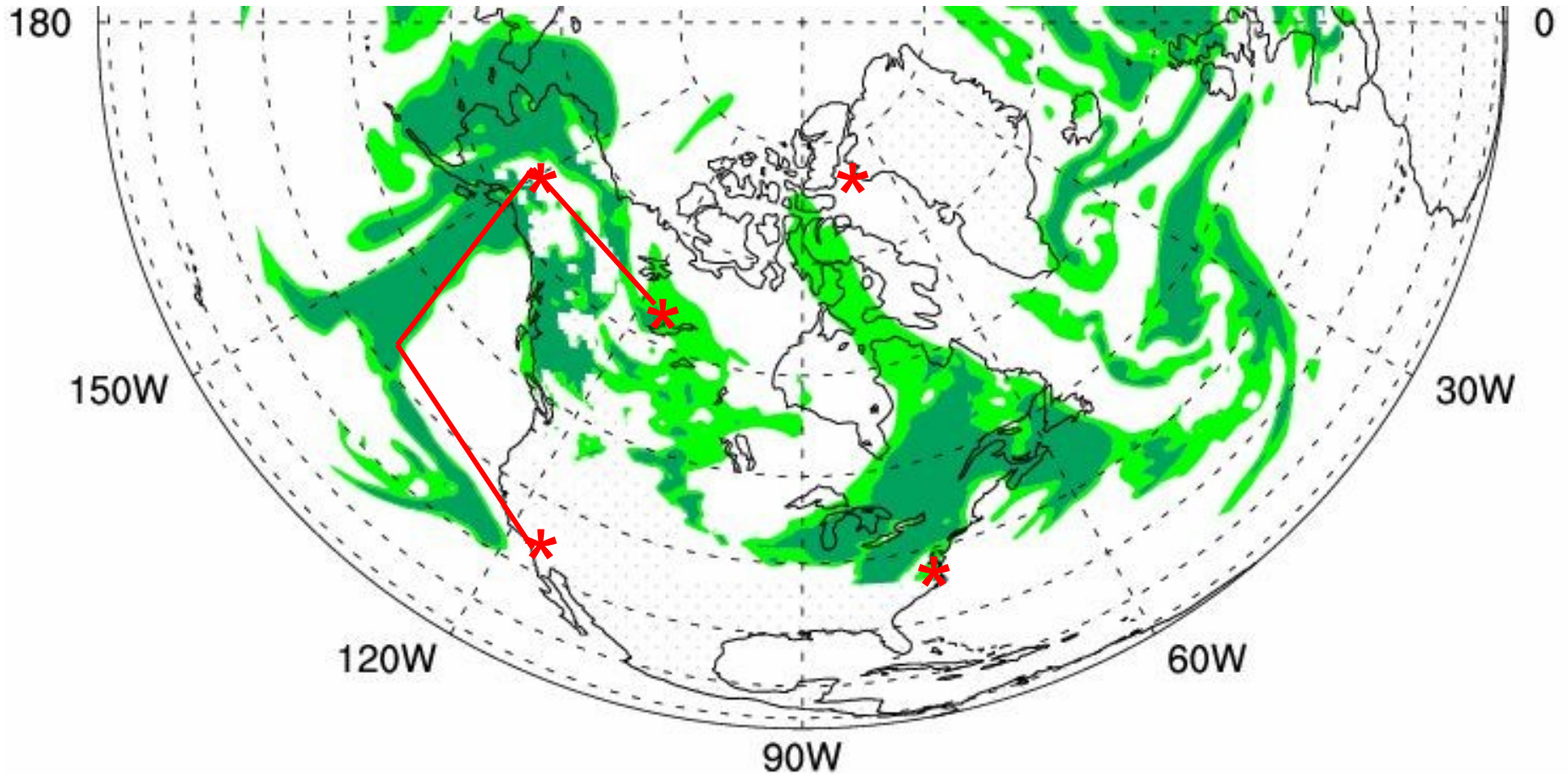
GFS Forecast Valid 1800Z April 1 500 hPa heights and vorticity



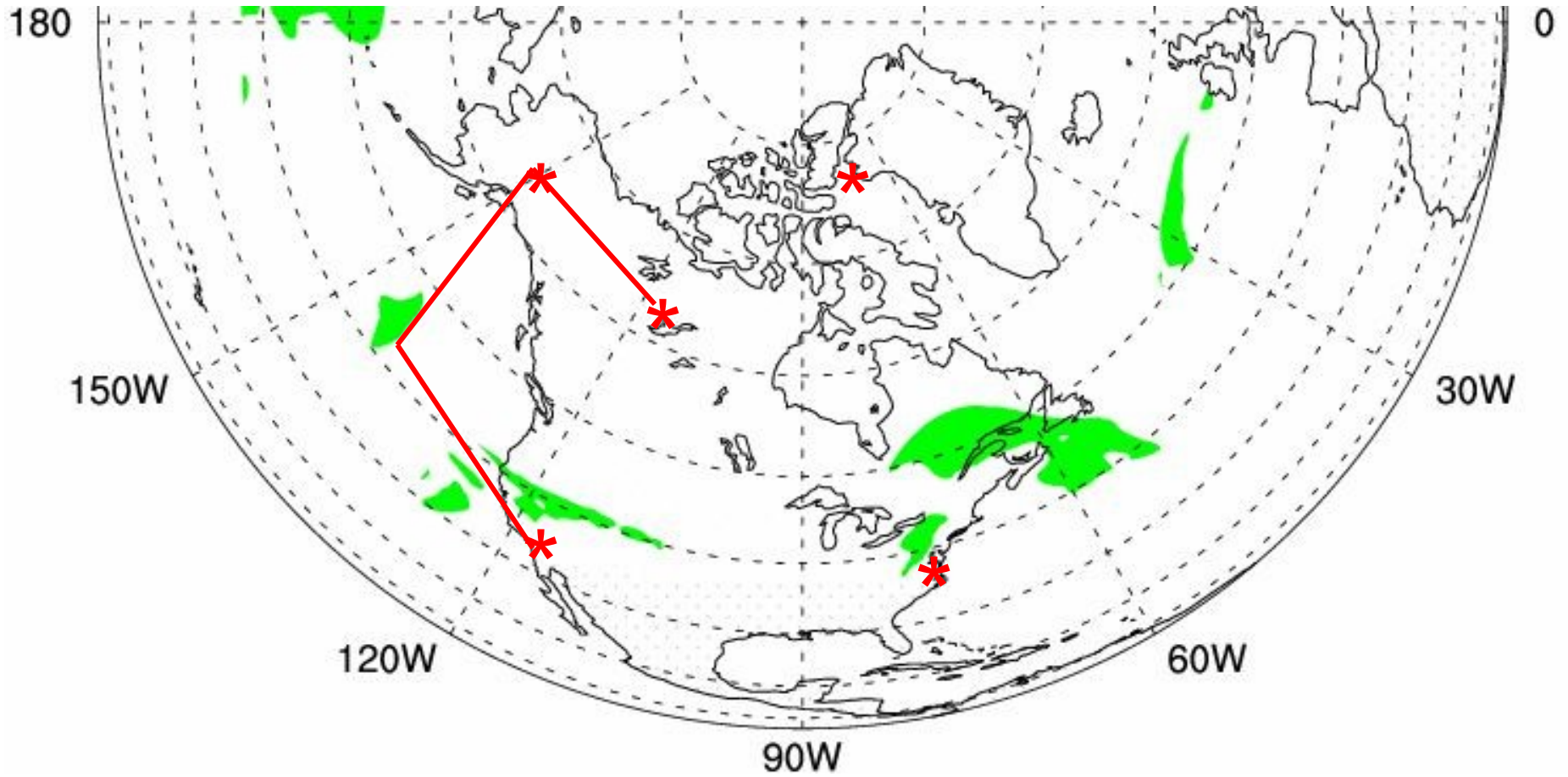
GFS Forecast Valid 1800Z April 1 300 hPa winds and heights



FSU WRF Relative Humidity at 850 hPa Forecast Valid 2200 Z April 1



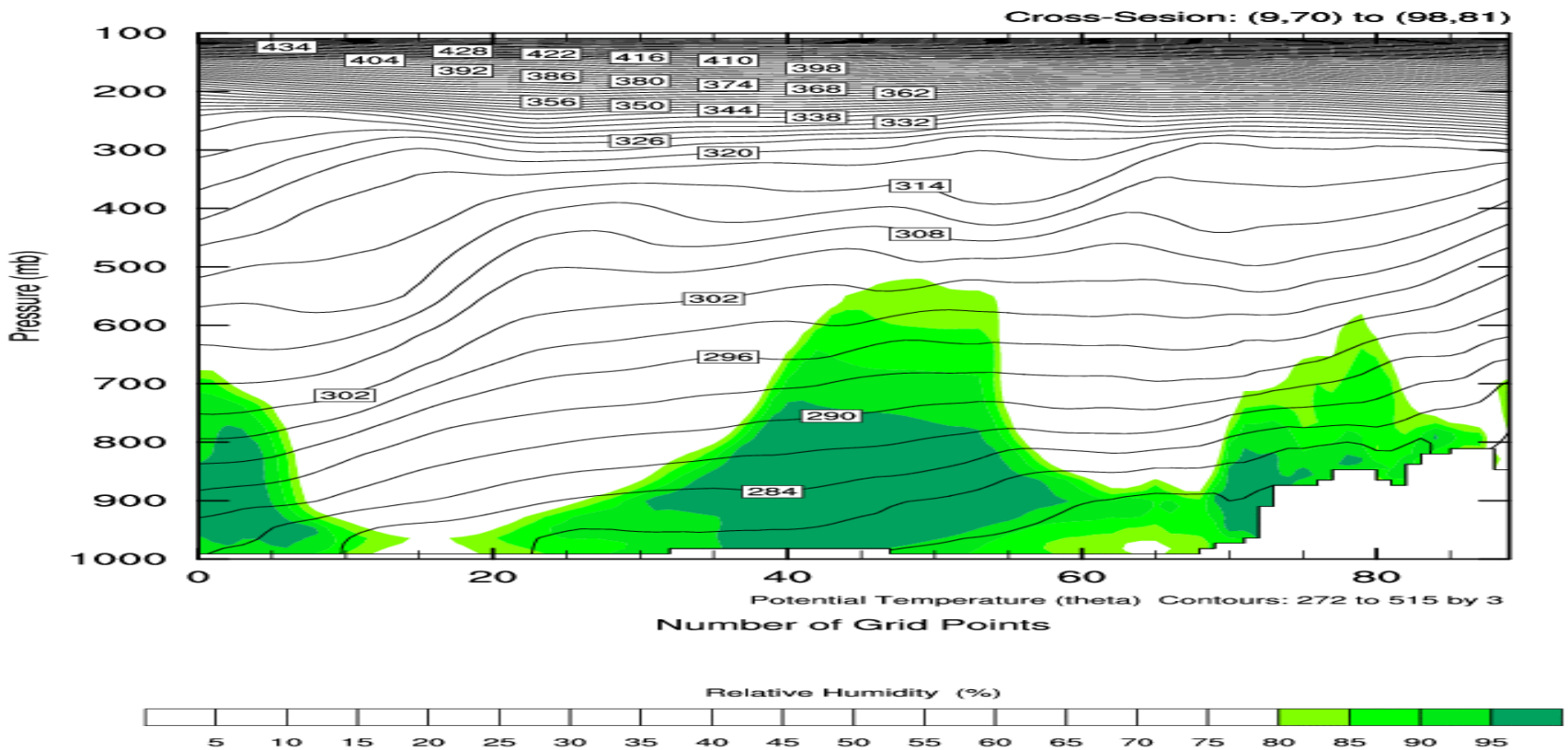
FSU WRF Relative Humidity at 500 hPa Forecast Valid 2200 Z April 1



FSU WRF RH Cross Section DC-8 Flight Path Forecast Valid 2200 Z April 1

FSU WRF Cross Sections Relative Humidity (%)

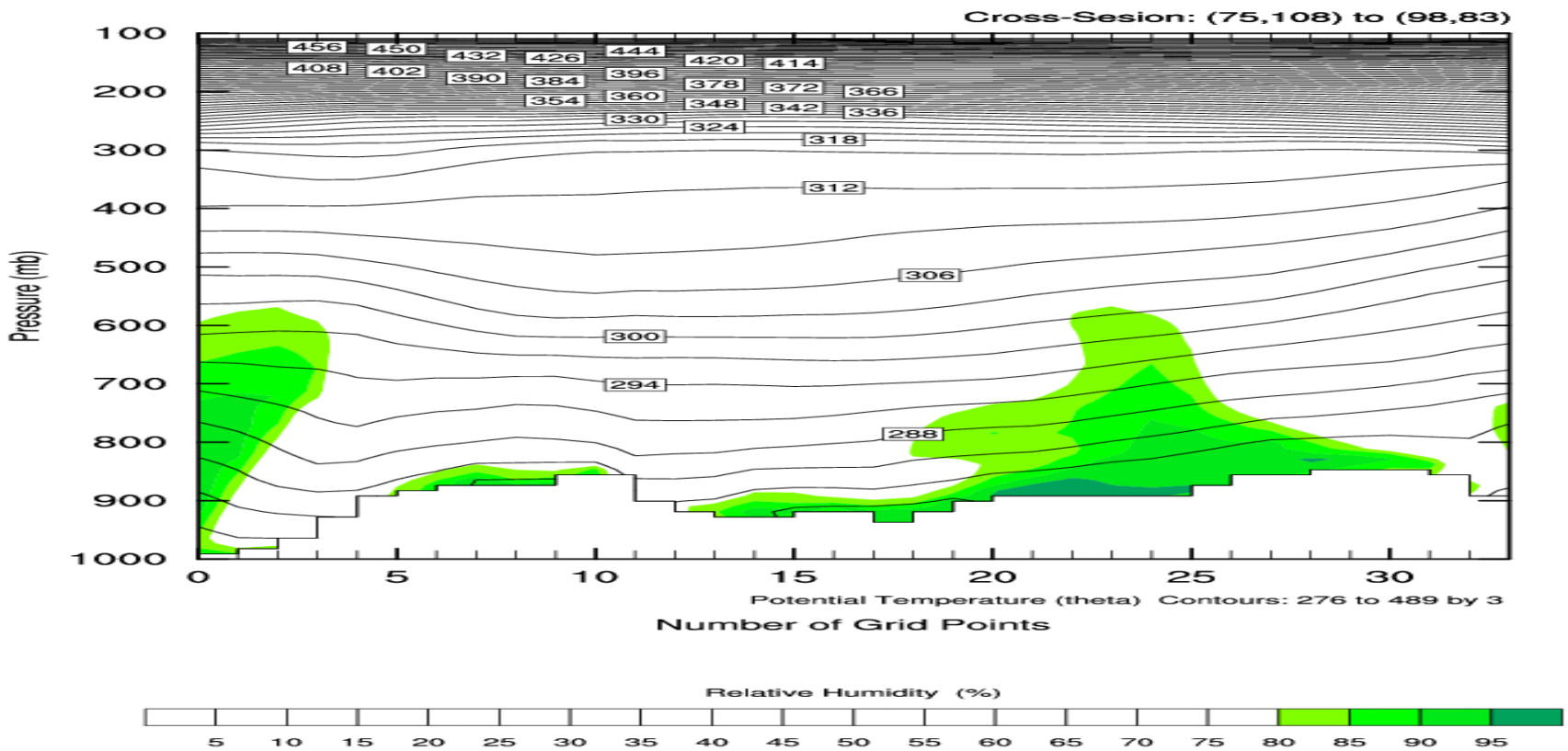
Init: 2008-03-30_00:00:00



FSU WRF RH Cross Section P-3 Flight Path Forecast Valid 2200 Z April 1

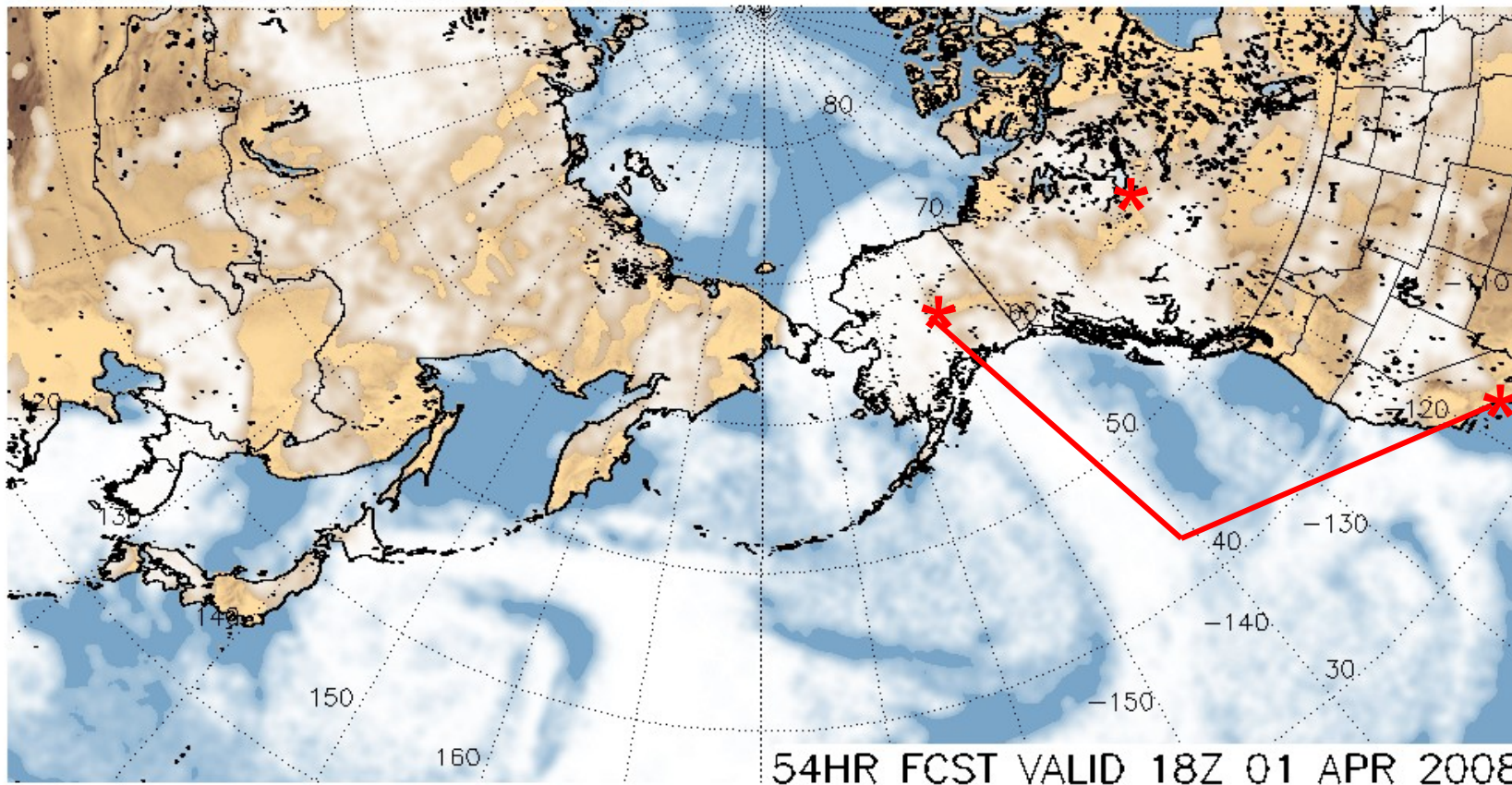
FSU WRF Cross Sections Relative Humidity (%)

Init: 2008-03-30_00:00:00



Air Force Total Cloud Cover for comparison Valid 1800 Z April 1

TOTAL CLOUD AMOUNT
GREY SHADES REPRESENT PERCENT COVERED BY CLOUD
54HR FCST VALID 18Z 01 APR 2008 Mesh: 16 zoom ratio = 1:2.00

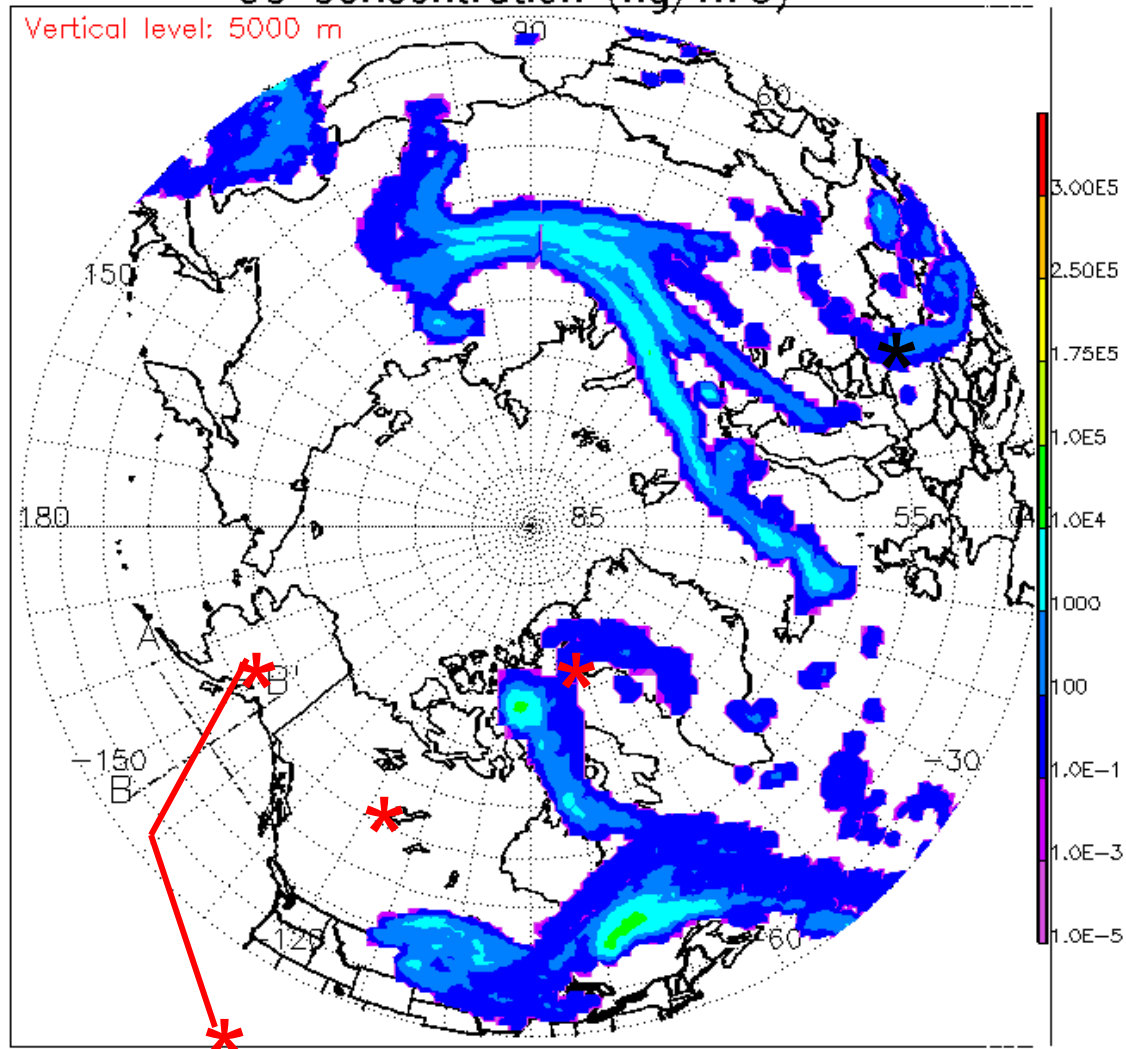


FSU WRF-Flexpart CO Concentration at 5 km Valid

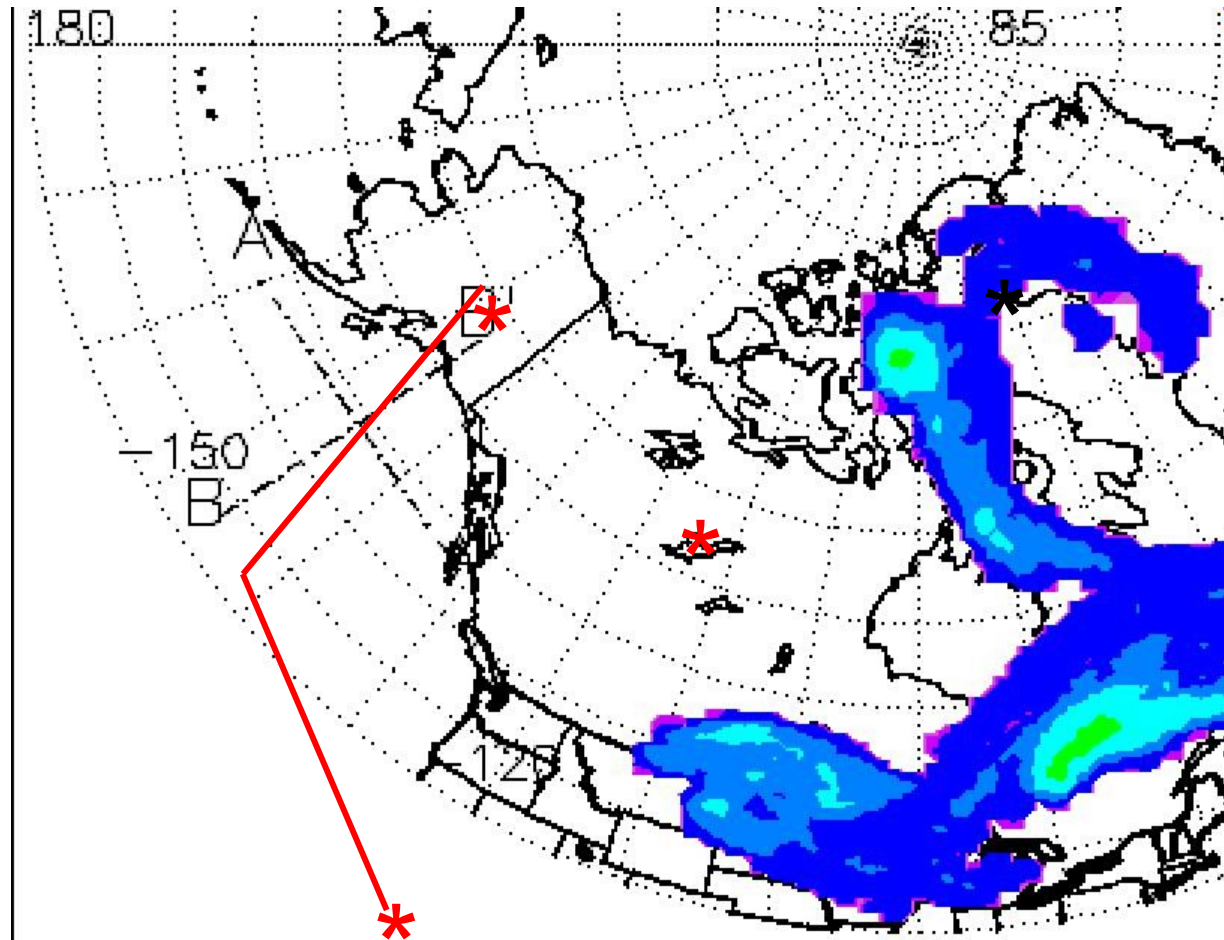
2200 Z April 1

2200 April 01, 2008

CO Concentration (ng/m³)



FSU WRF-Flexpart CO Concentration at 5 km Valid 2200 Z April 1



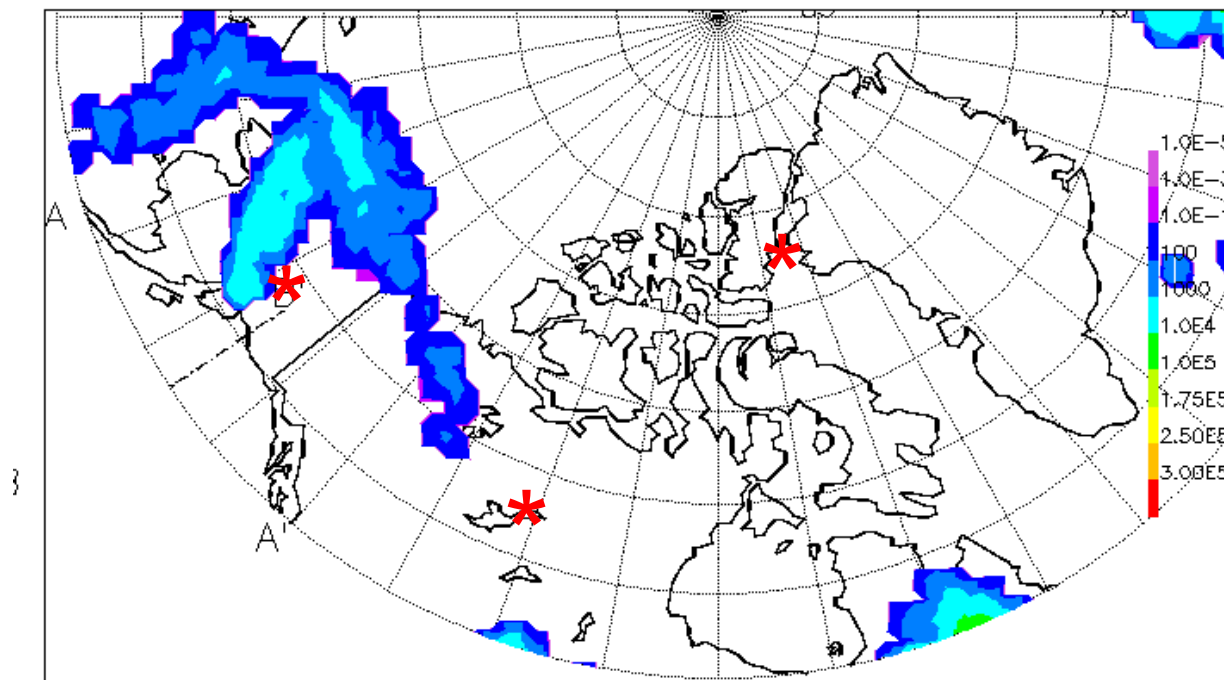
FSU WRF-Flexpart CO Concentration at 150 m Valid

2200 Z April 1

2200 April 01, 2008

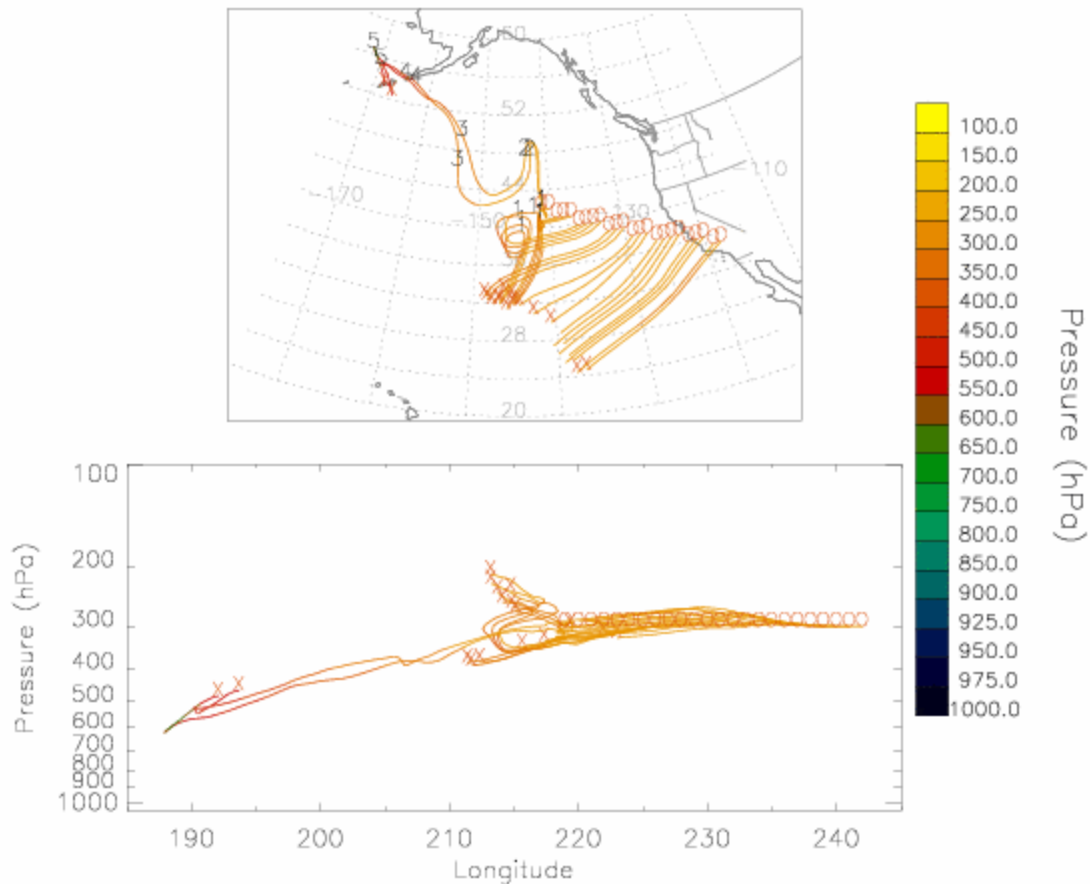
CO Concentration (ng/m³)

Vertical level: 150 m



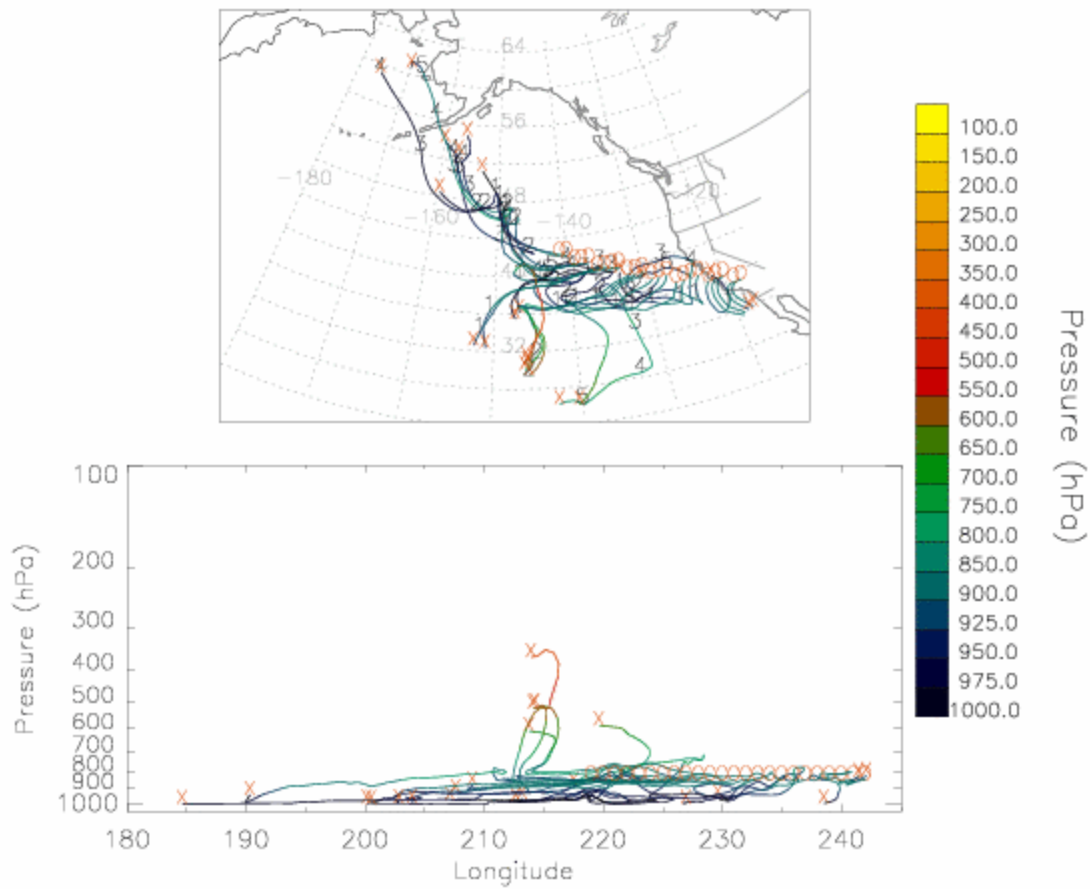
FSU WRF Trajectories 7 days back from DC-8 flight track Southern Leg at 300 hPa Valid 2000 Z April 1

FSU Meteorology FLT Level, 168 Hour Trajectories for Leg 1



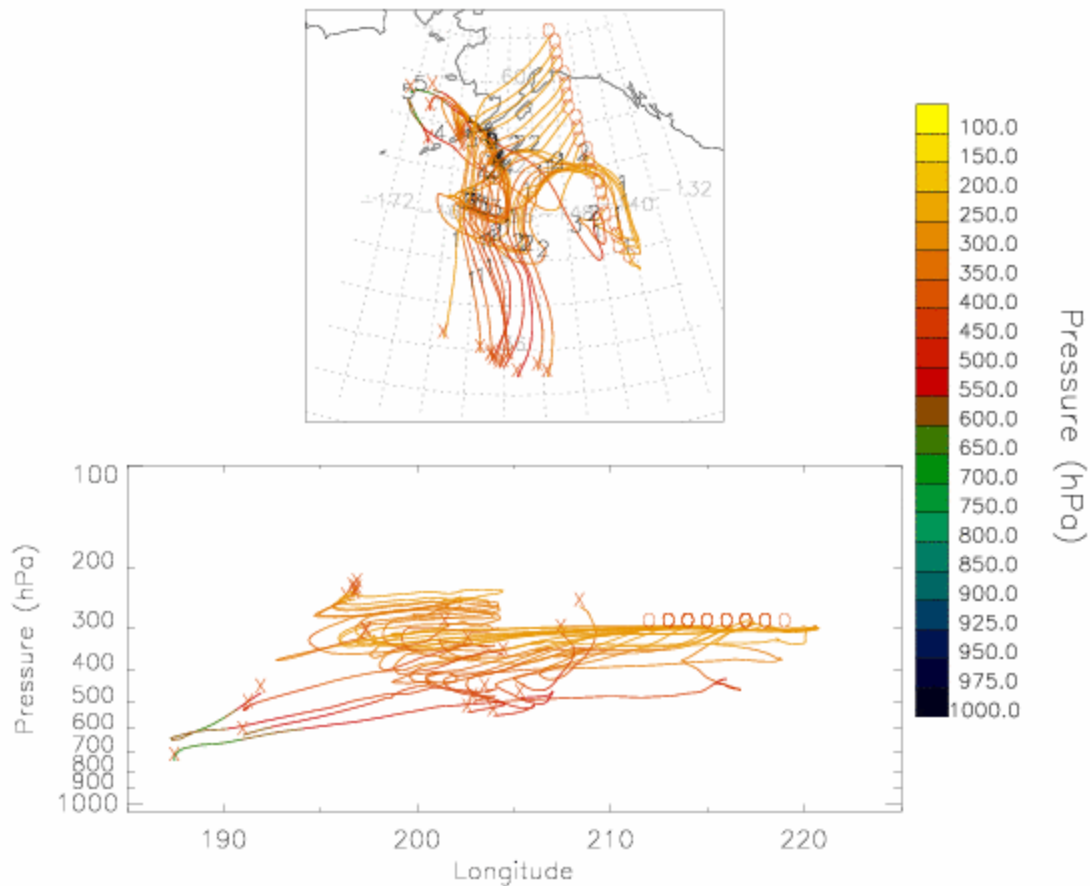
FSU WRF Trajectories 7 days back from DC-8 flight track Southern Leg at 850 hPa Valid 2000 Z April 1

FSU Meteorology 700 Level, 168 Hour Trajectories for Leg 1



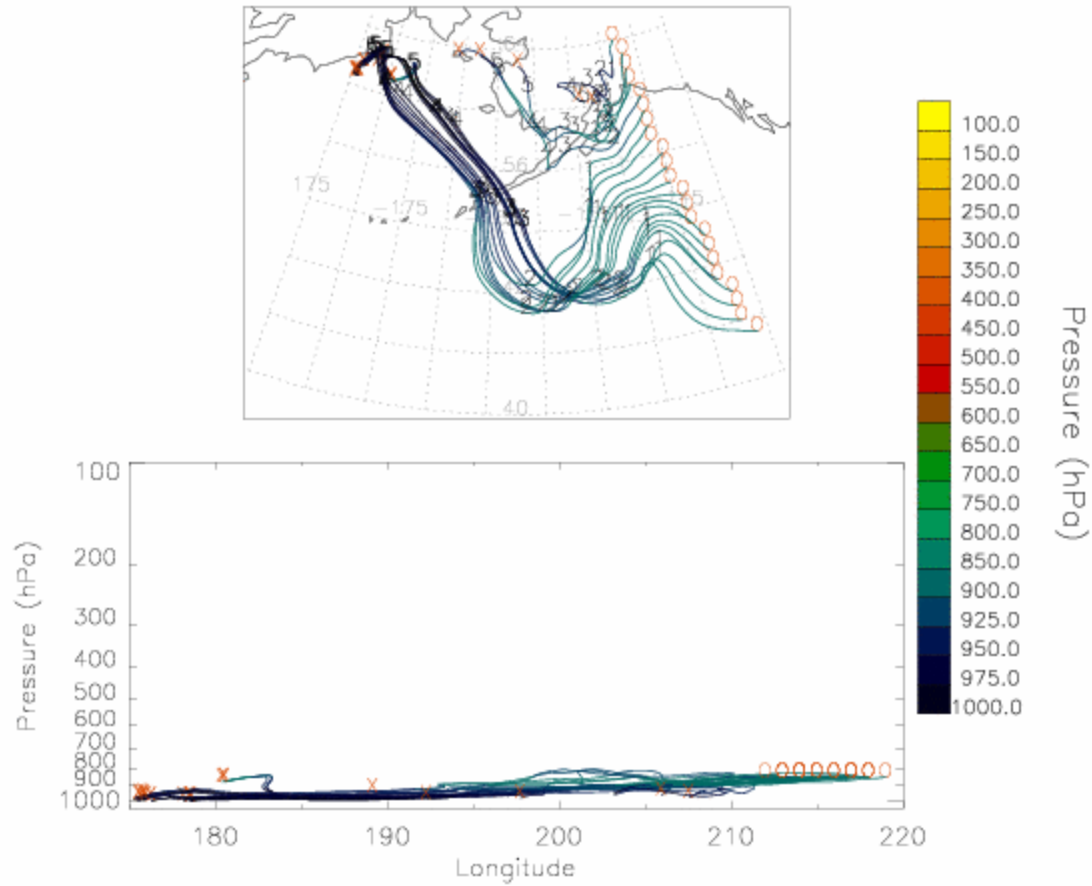
FSU WRF Trajectories 7 days back from DC-8 flight track Northern Leg at 300 hPa Valid 2000 Z April 1

FSU Meteorology FLT Level, 168 Hour Trajectories for Leg 1



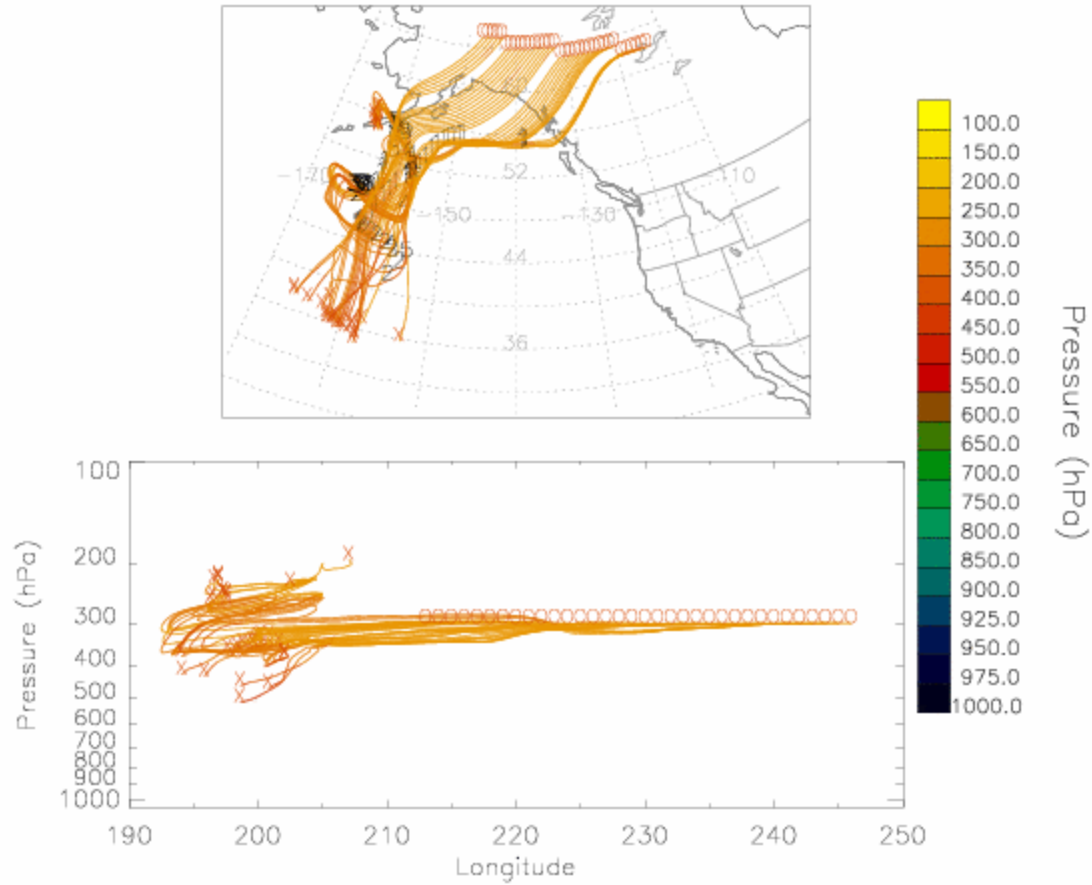
FSU WRF Trajectories 7 days back from DC-8 flight track Northern Leg at 850 hPa Valid 2000 Z April 1

FSU Meteorology 700 Level, 168 Hour Trajectories for Leg 1



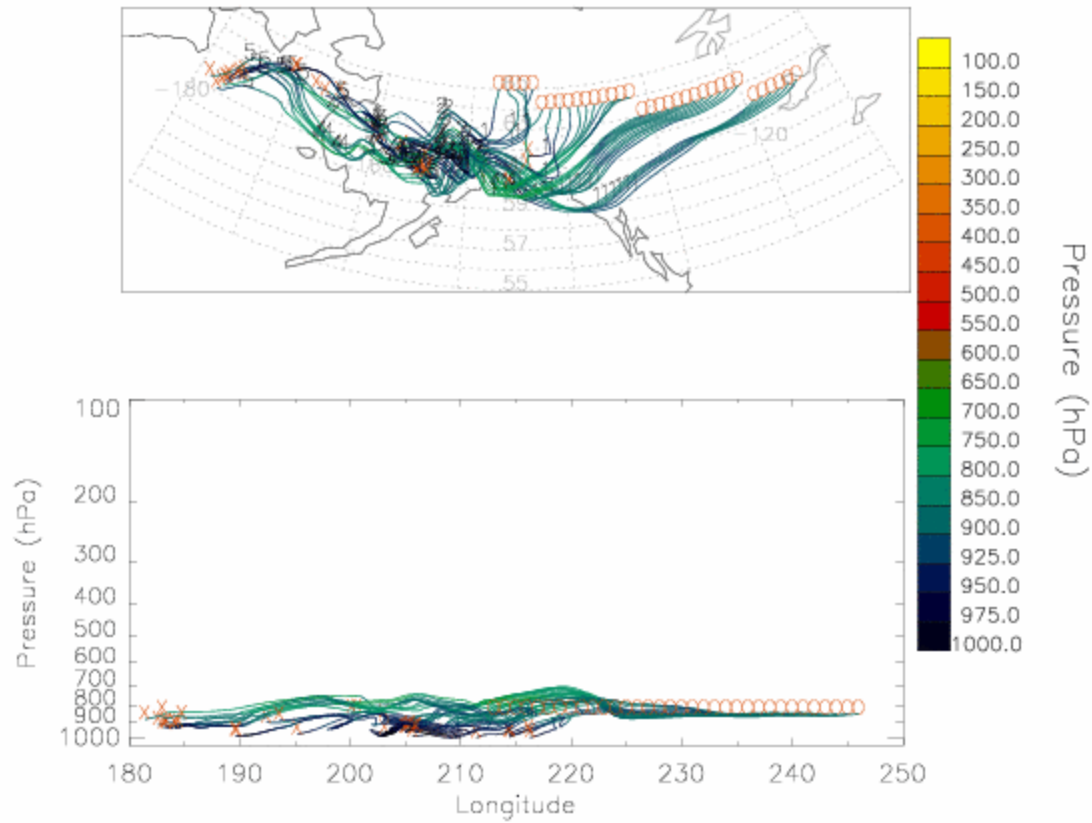
FSU WRF Trajectories 7 days back from P-3 flight track at 300 hPa Valid 2000 Z April 1

FSU Meteorology FLT Level, 168 Hour Trajectories for Leg 1



FSU WRF Trajectories 7 days back from P-3 flight track at 850 hPa Valid 2000 Z April 1

FSU Meteorology 700 Level, 168 Hour Trajectories for Leg 1



Fairbanks AK Forecast

Tonight



Chance
Snow
Lo: 20F

Monday



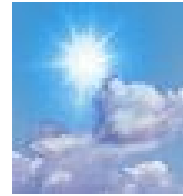
Chance
Rain/Snow
Hi: 40F

Mon. Night



Mostly
Cloudy
Lo: 20F

Tuesday



Partly
Cloudy
Hi: 45F

Tues. Night



Partly
Cloudy
Lo: 25F

Wednesday



Mostly
Cloudy
Hi: 45F

Wed. Night



Mostly
Cloudy
Lo: 25F

Thursday



Partly
Cloudy:
Hi: 45F

Thurs. Night



Mostly
Cloudy
Lo: 15F