

NWS- Forecast: MIDDLE TANANA VALLEY- INCLUDING...FAIRBANKS
443 AM ADT FRI APR 18 2008

1

TODAY...SNOW DIMINISHING IN THE MORNING...THEN A CHANCE OF RAIN AND SNOW IN THE AFTERNOON. STORM TOTAL SNOW ACCUMULATION 2 TO 3 INCHES. HIGHS 35 TO 40. LIGHT WINDS IN THE VALLEYS. SOUTHWEST WINDS 10 TO 20 MPH ON THE HILLS. **.TONIGHT...**DECREASING CLOUDS. PATCHY FOG AFTER MIDNIGHT. LOWS AROUND 20. LIGHT WINDS.

SATURDAY...PARTLY CLOUDY. PATCHY FOG IN THE MORNING. HIGHS AROUND 45 TO 50. LIGHT WINDS. **.SATURDAY NIGHT...**MOSTLY CLOUDY. LOWS AROUND 25. LIGHT WINDS.

SUNDAY...PARTLY CLOUDY. HIGHS AROUND 55. LIGHT WINDS. **.SUNDAY NIGHT...**PARTLY CLOUDY. LOWS NEAR 30.

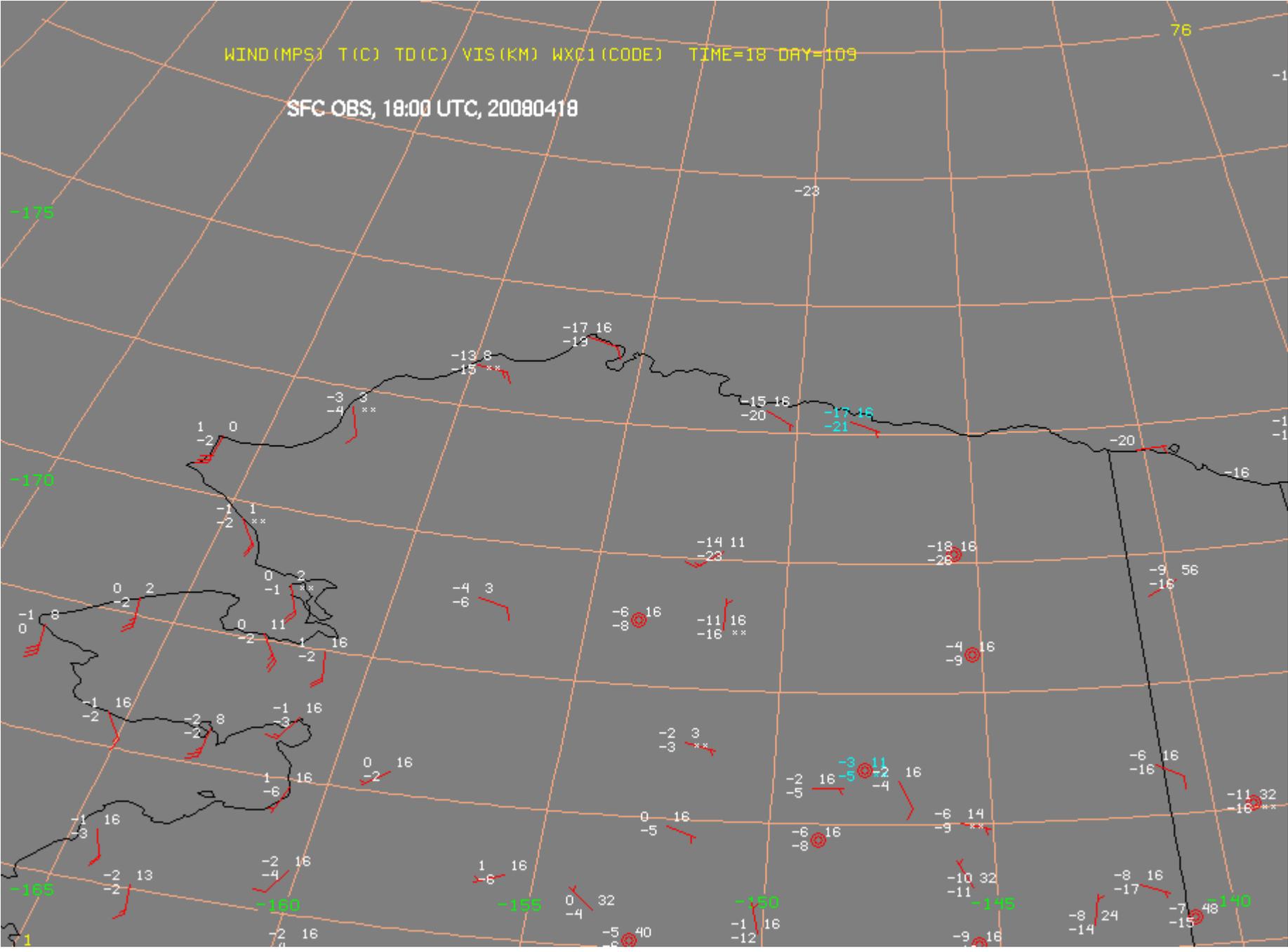
MONDAY...PARTLY CLOUDY. HIGHS NEAR 55. **.MONDAY NIGHT...**PARTLY CLOUDY. LOWS NEAR 30.

TUESDAY...PARTLY CLOUDY. HIGHS NEAR 50. **.TUESDAY NIGHT...**PARTLY CLOUDY. LOWS NEAR 30.

WEDNESDAY...MOSTLY SUNNY. HIGHS NEAR 50.

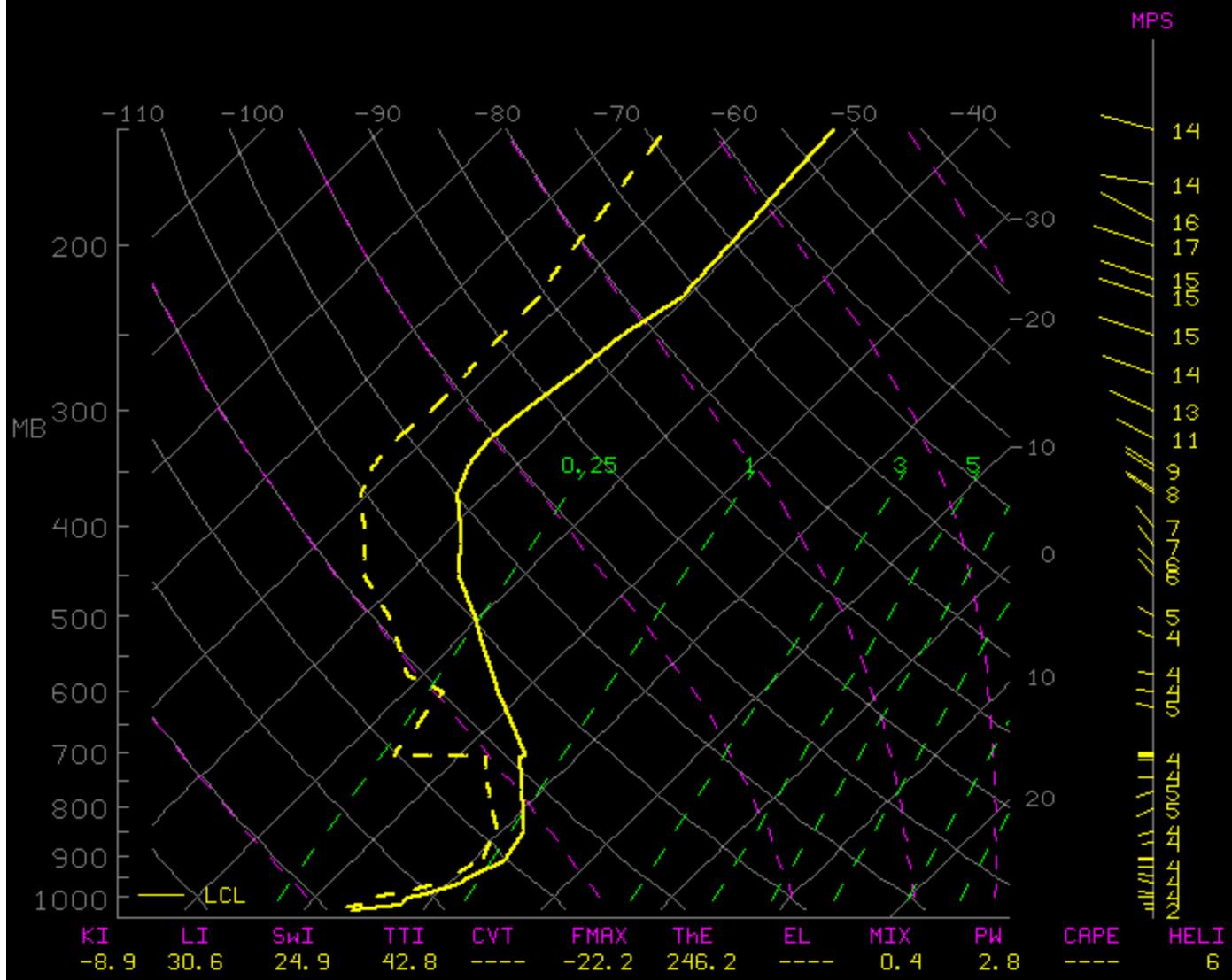
WIND (MPS) T (C) TD (C) VIS (KM) WXC1 (CODE) TIME=18 DAY=109

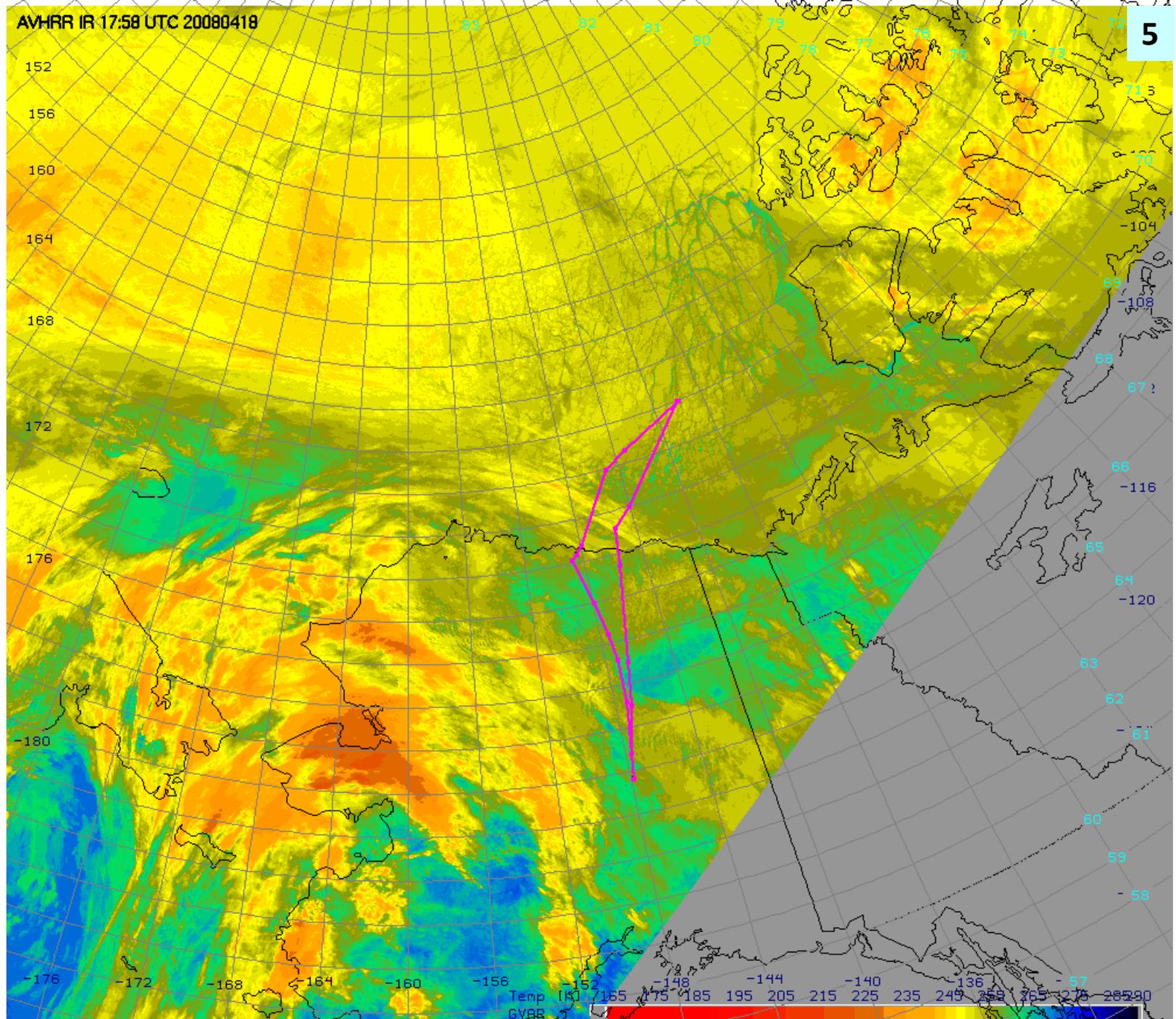
SFC OBS, 19:00 UTC, 20080418



1200 UTC 17 Apr 2008108 PABR 70026 Barrow

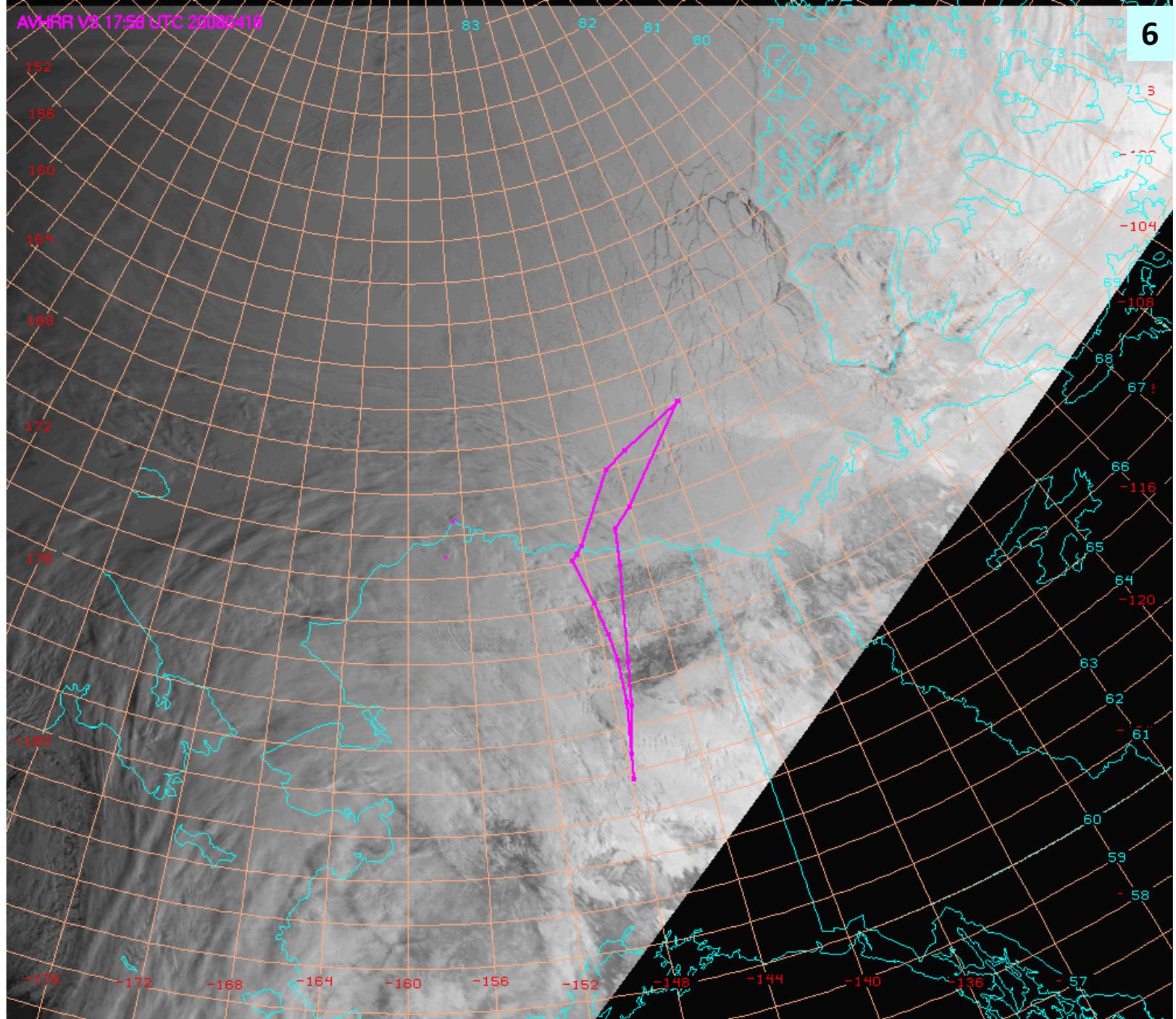
AK US

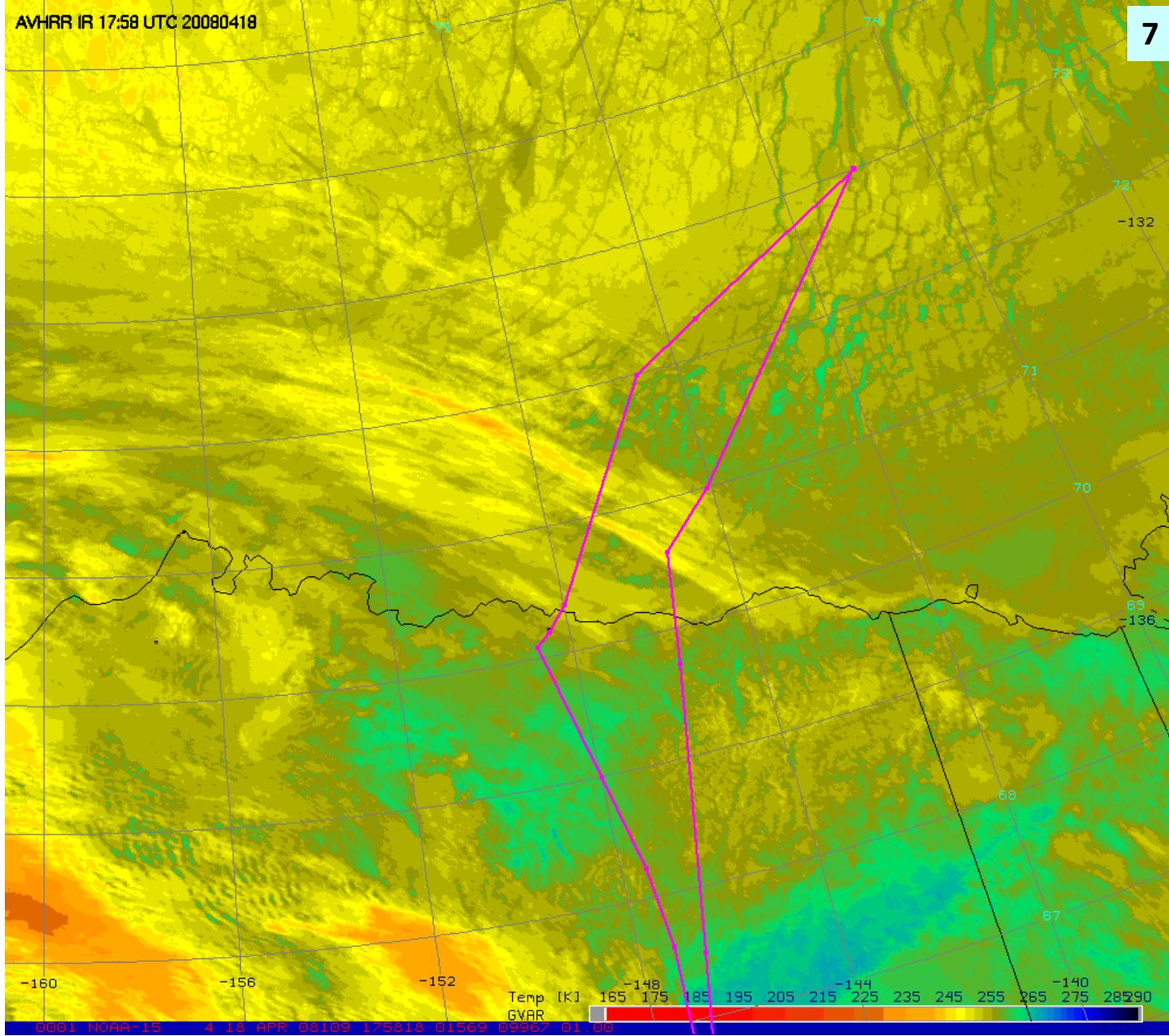


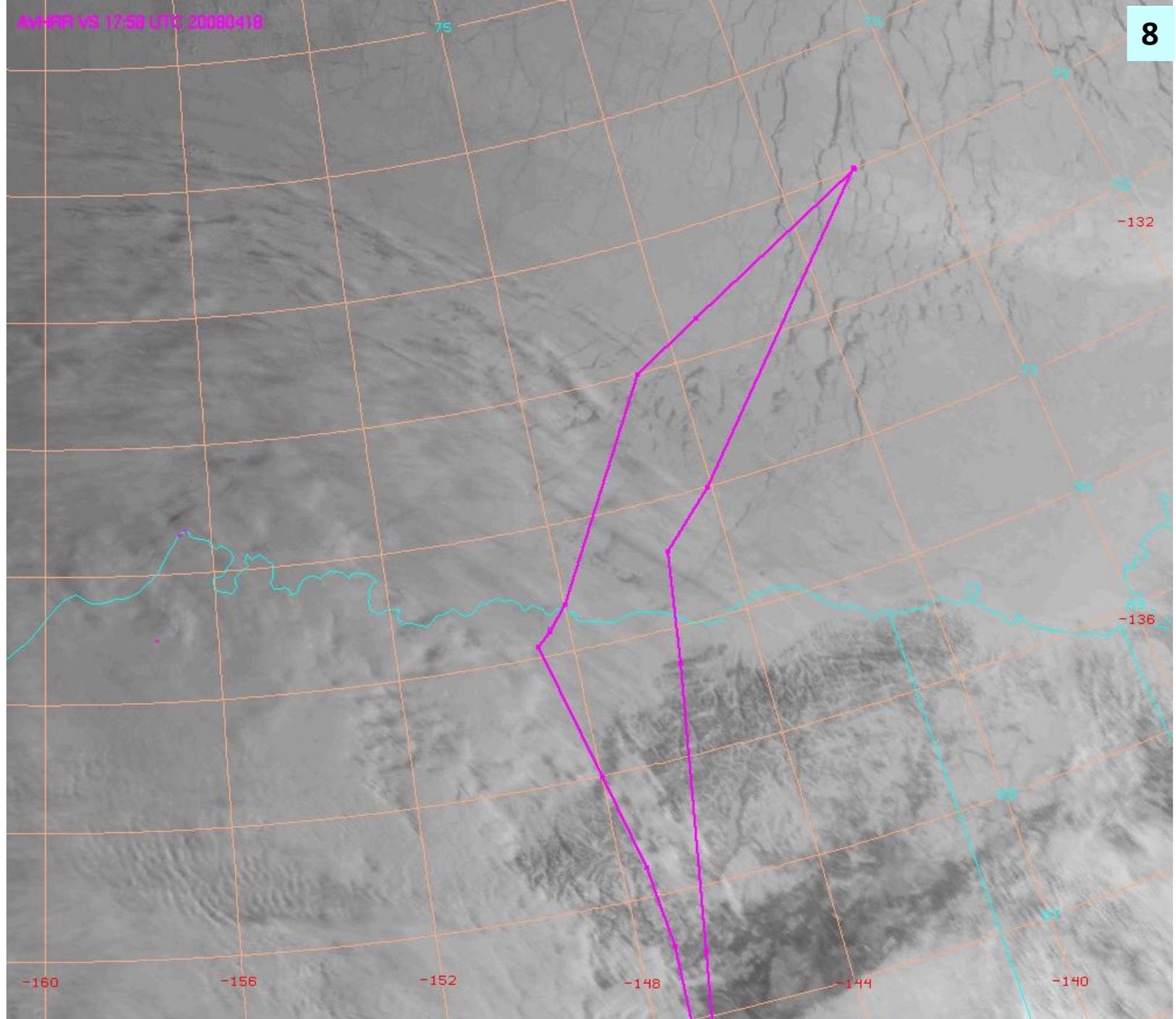


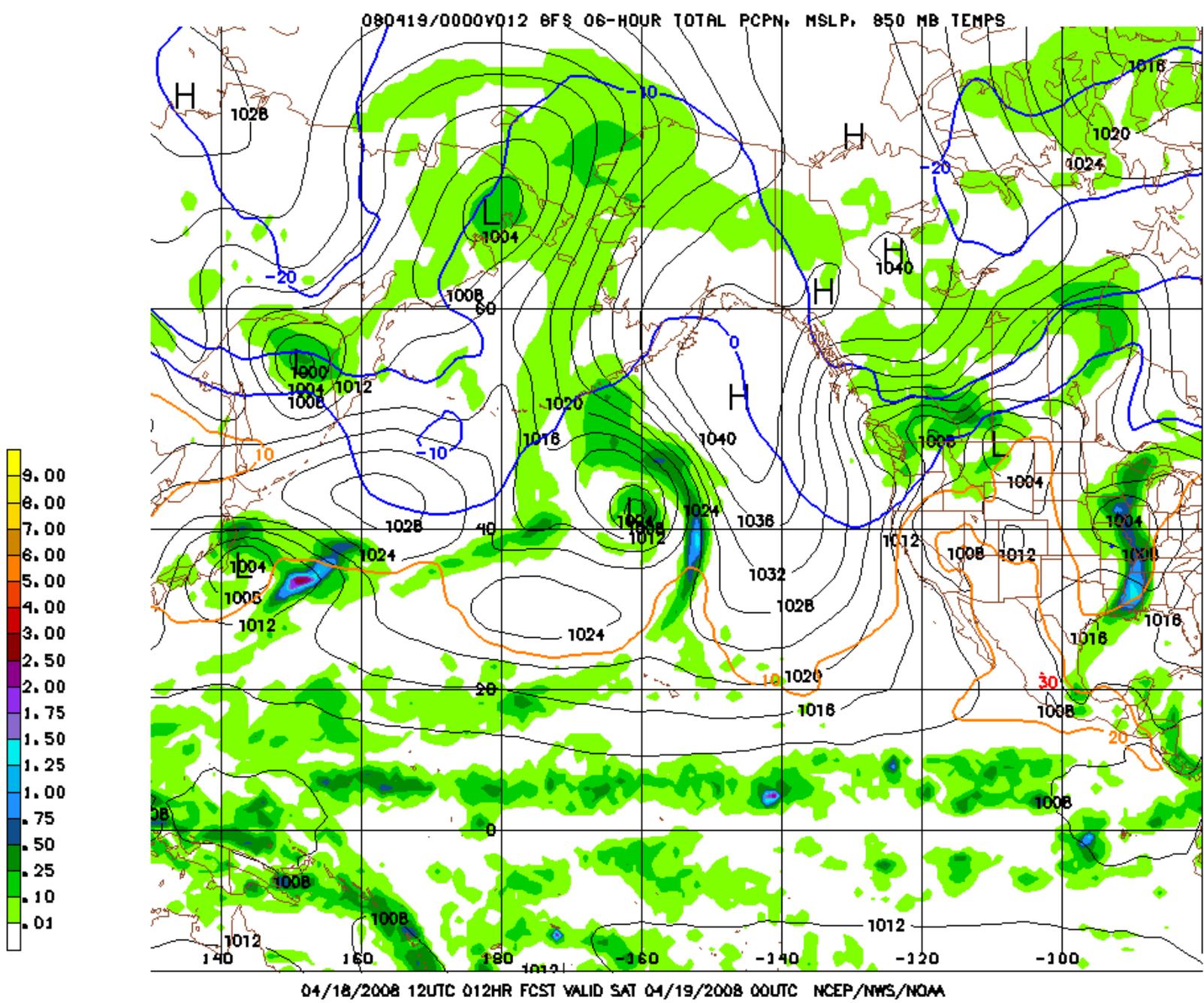
Temp (K) 152 155 158 165 175 185 195 205 215 225 235 249 259 265 275 285 300

GVBB

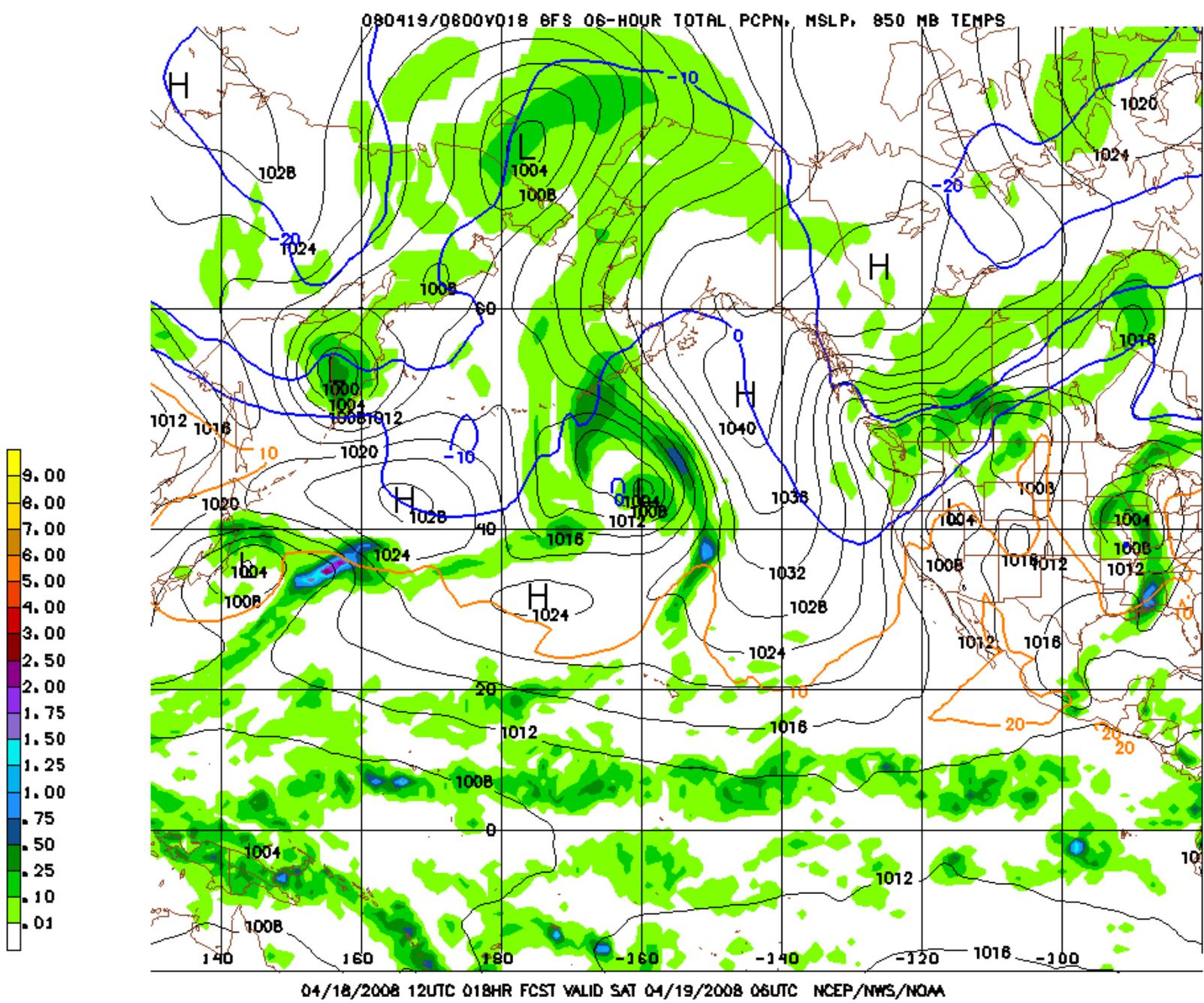




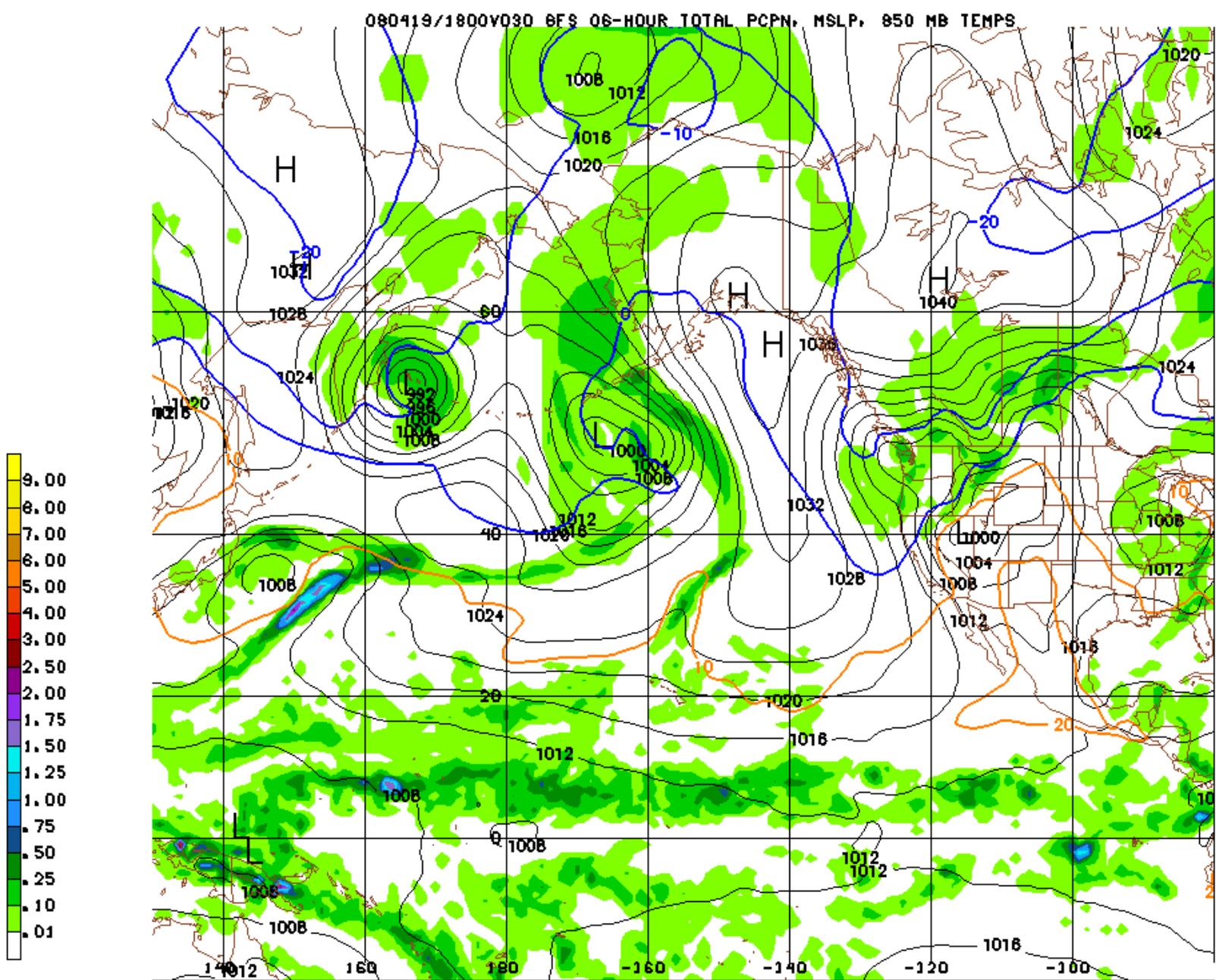




GFS, valid 4:00 PM local, Friday

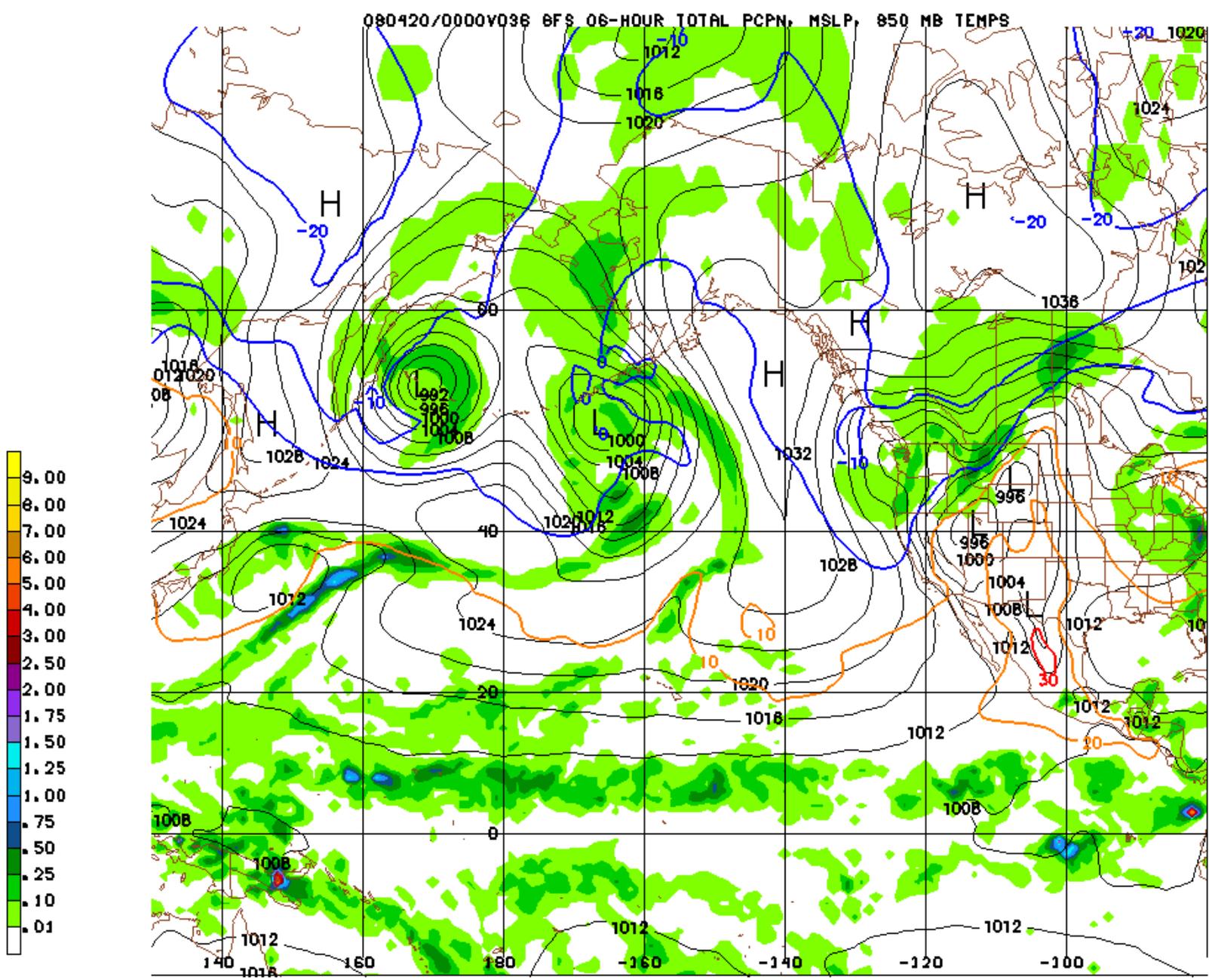


GFS, valid 10:00 PM local, Friday

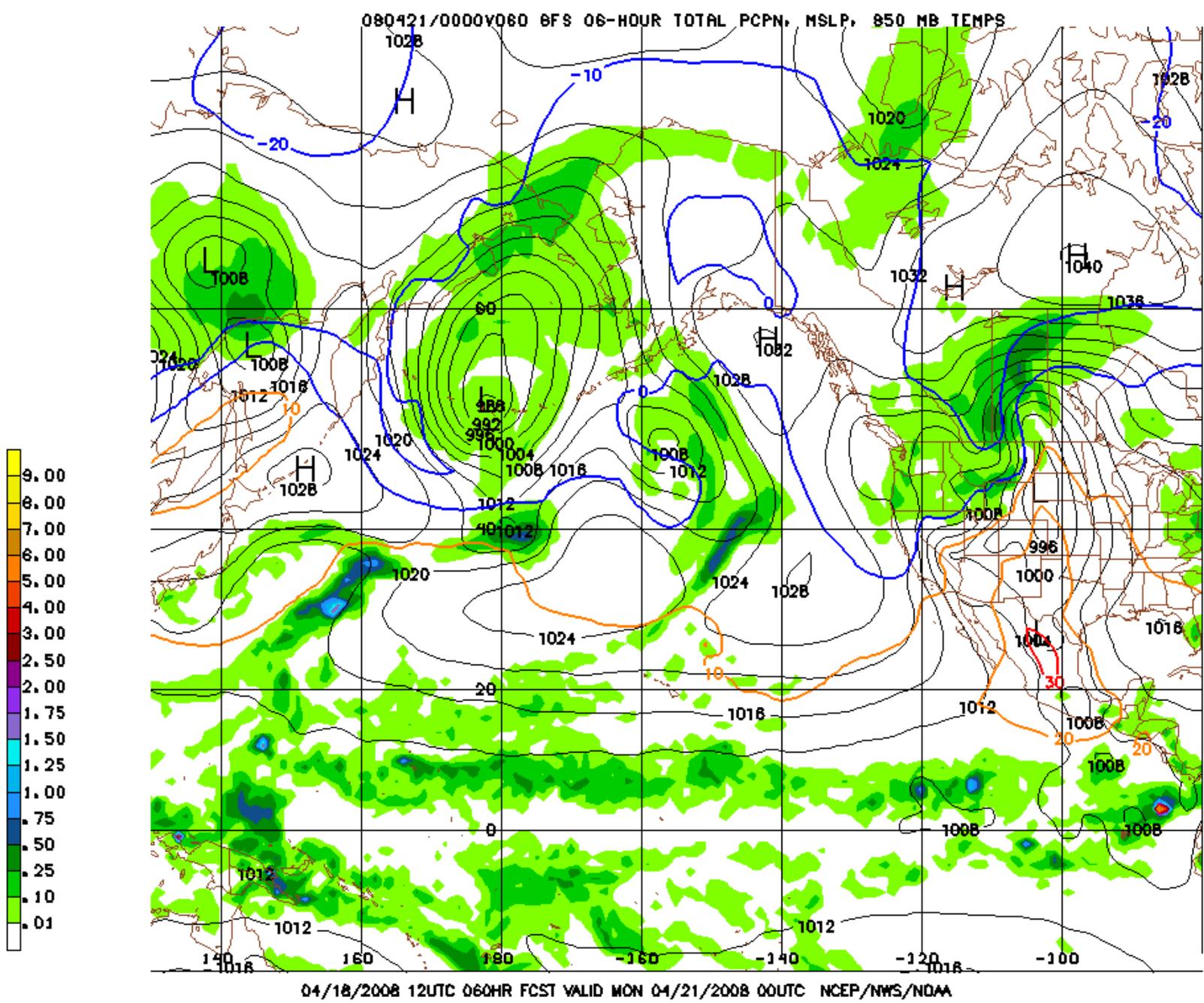


04/18/2008 12UTC 030HR FCST VALID SAT 04/19/2008 18UTC NCEP/NWS/NOAA

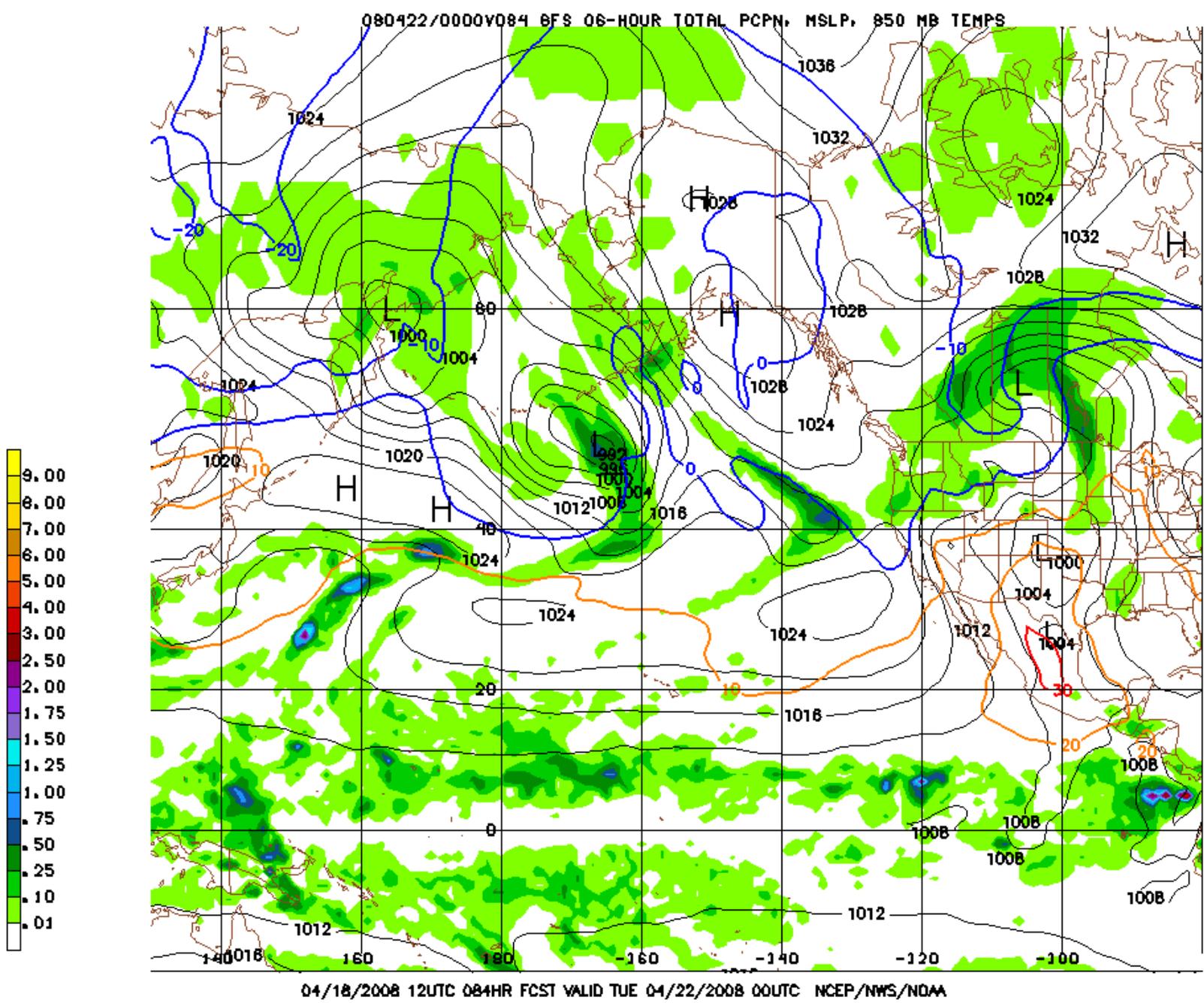
GFS, valid 10:00 AM local, Saturday



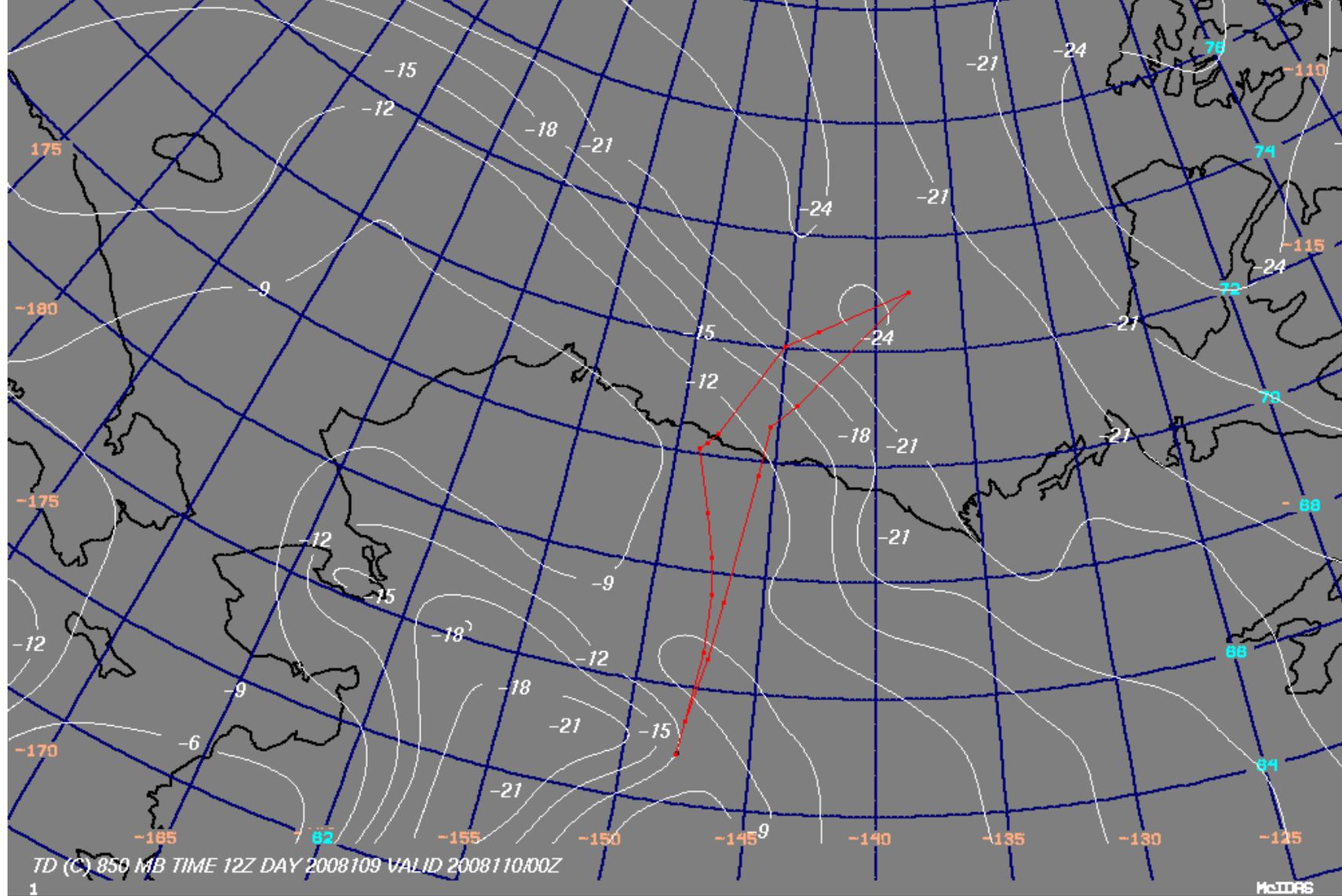
GFS, valid 4:00 PM local, Saturday



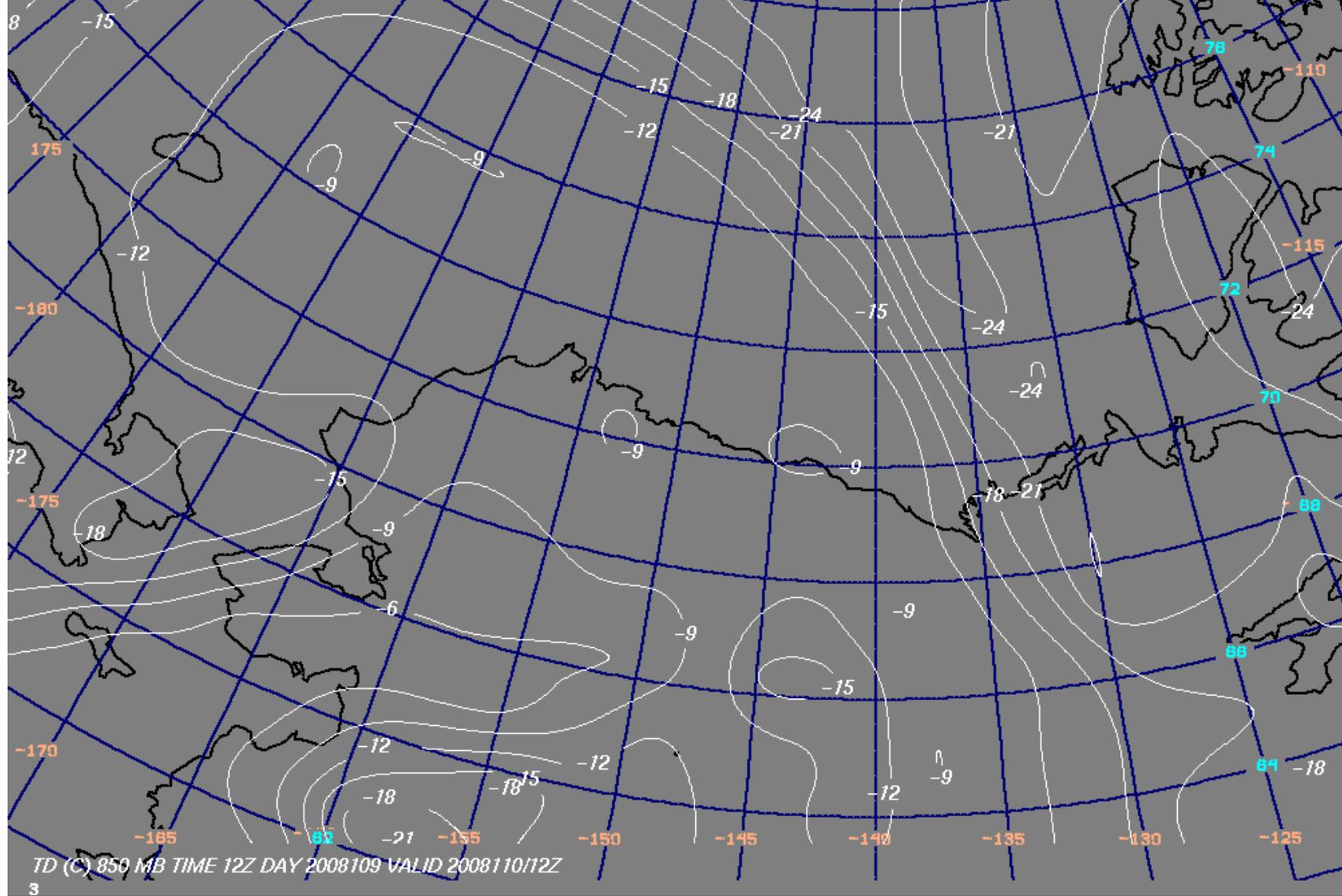
GFS, valid 4:00 PM local, Sunday



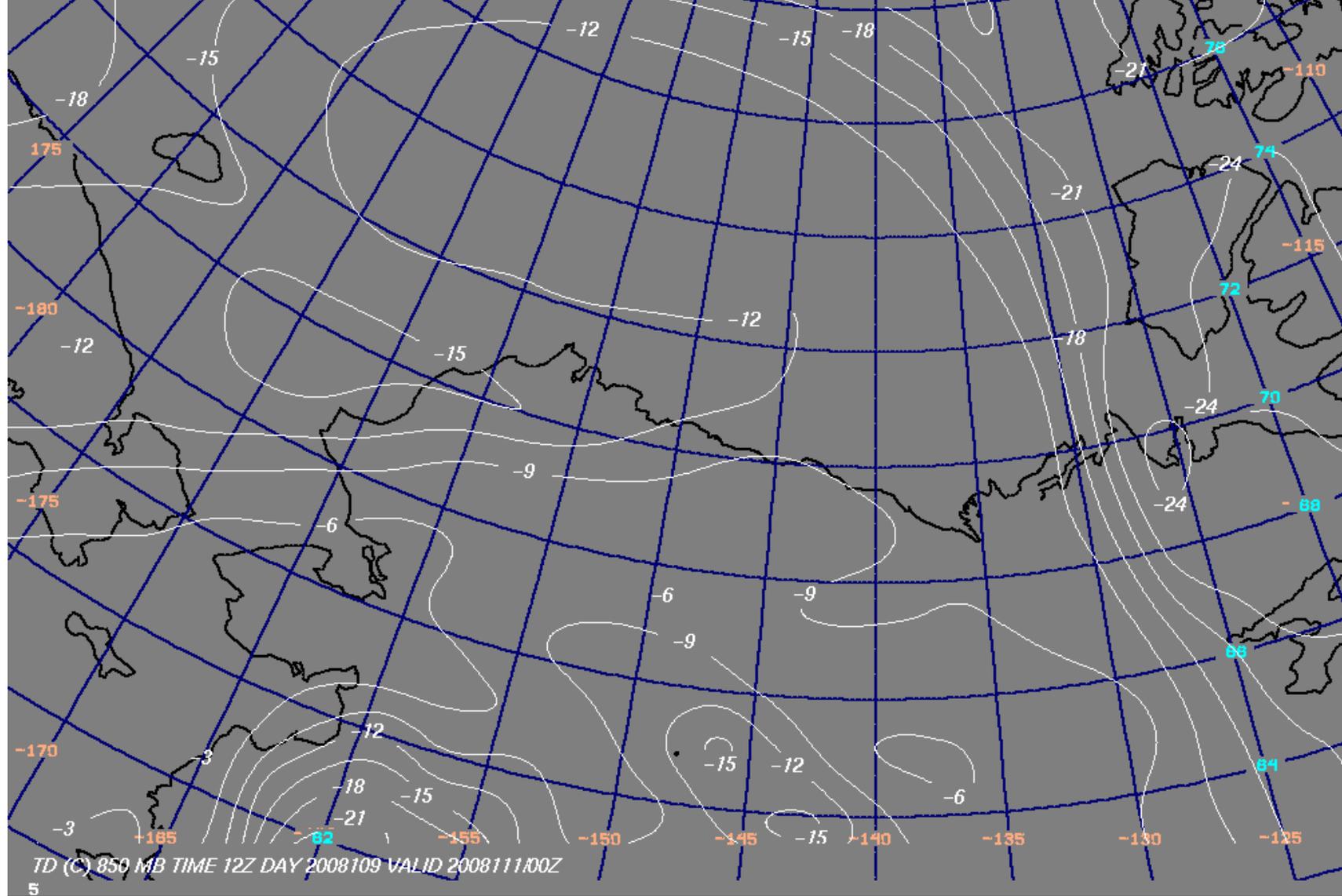
GFS, valid 4:00 PM local, Monday



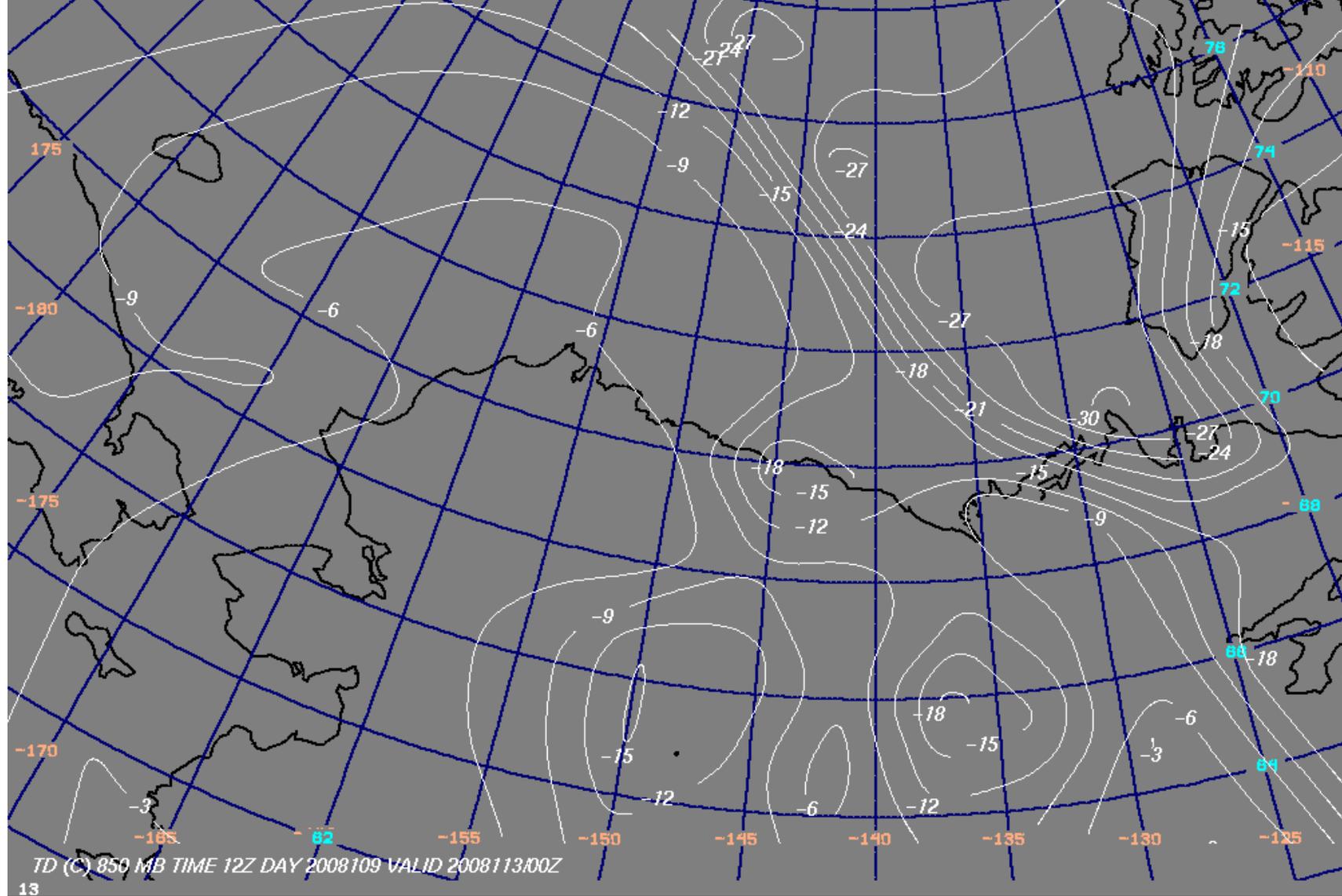
GFS 850 hPa Td, 4:00 PM local Friday



GFS 850 hPa Td, 4:00 AM local, Saturday



GFS 850 hPa Td, 4:00 PM local, Saturday

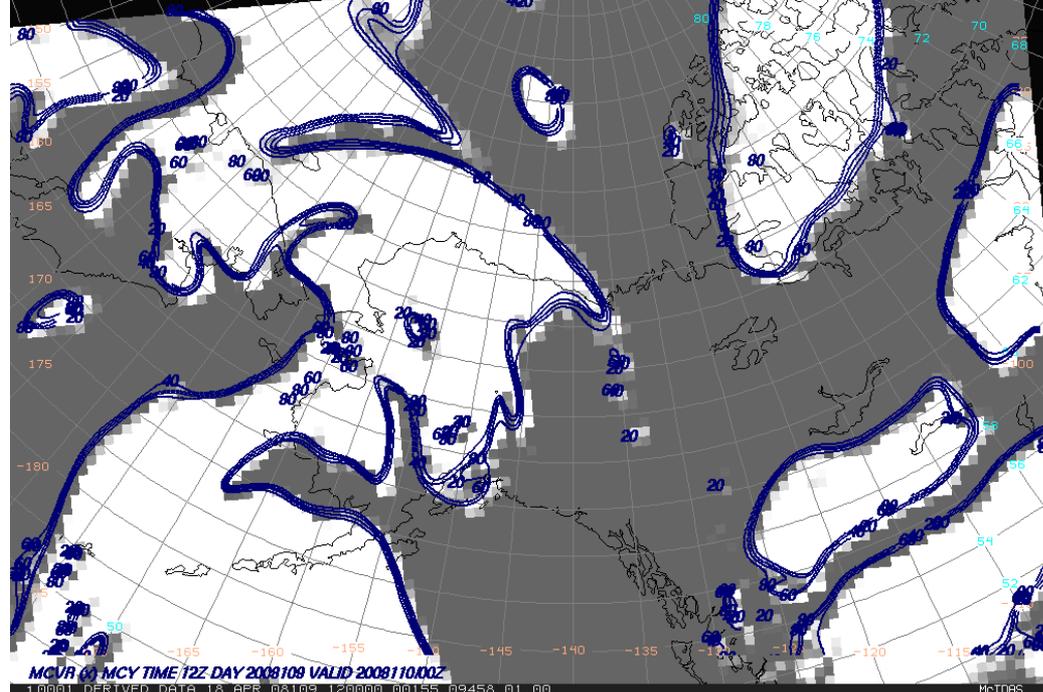


GFS 850 hPa Td, 4:00 PM local, Monday

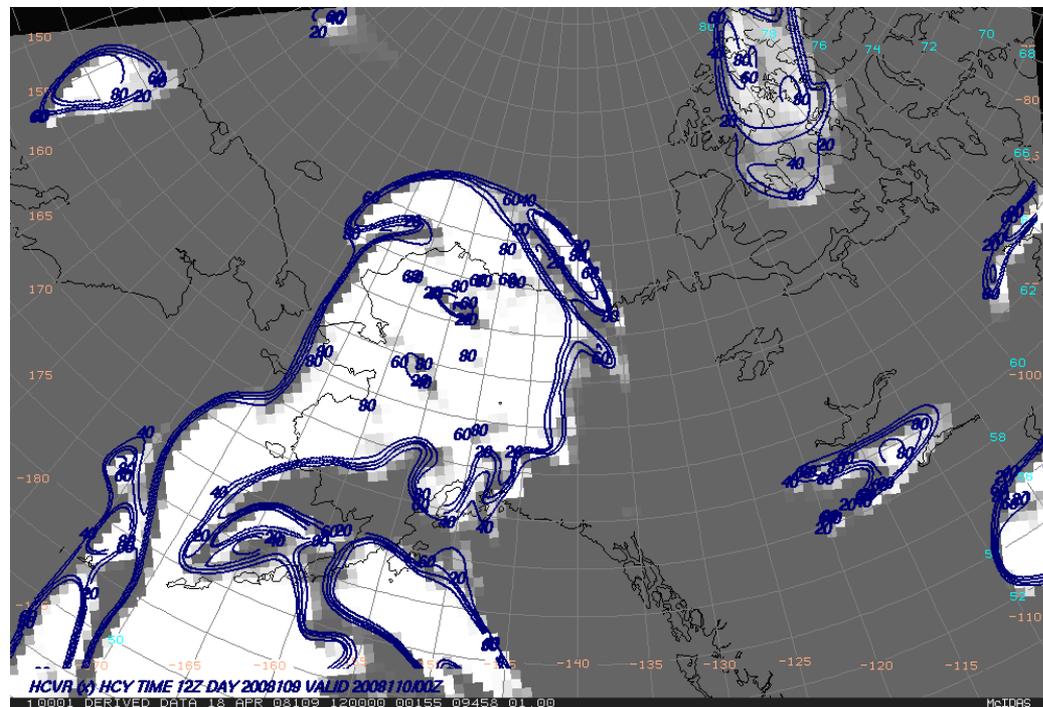
4:00 PM local

Friday

NAM mid-level clouds

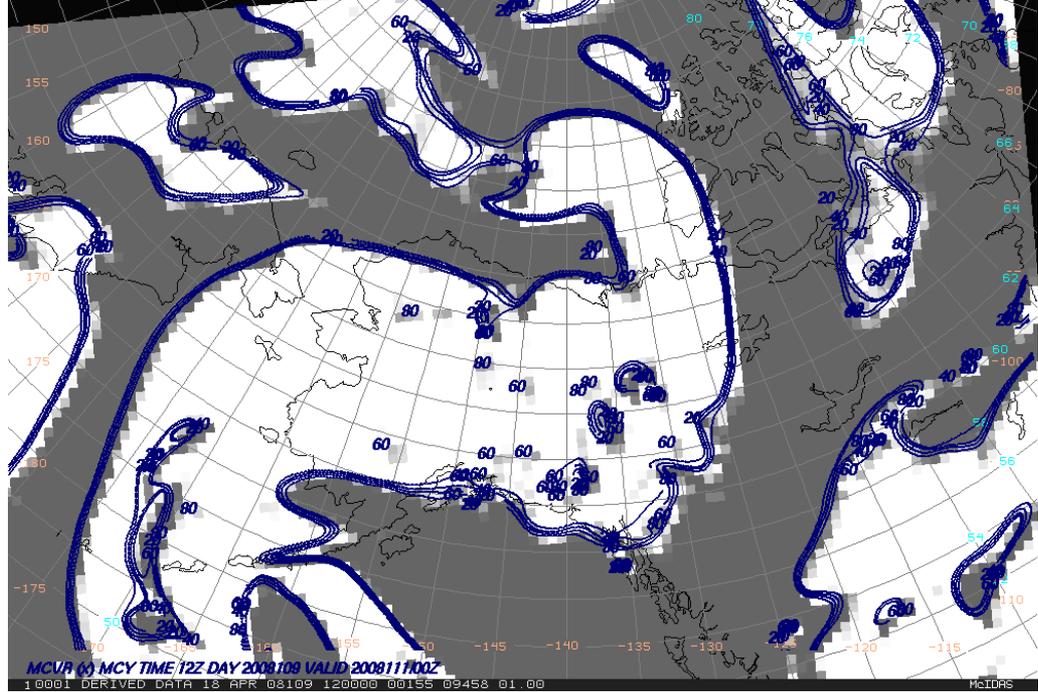


NAM high-level clouds

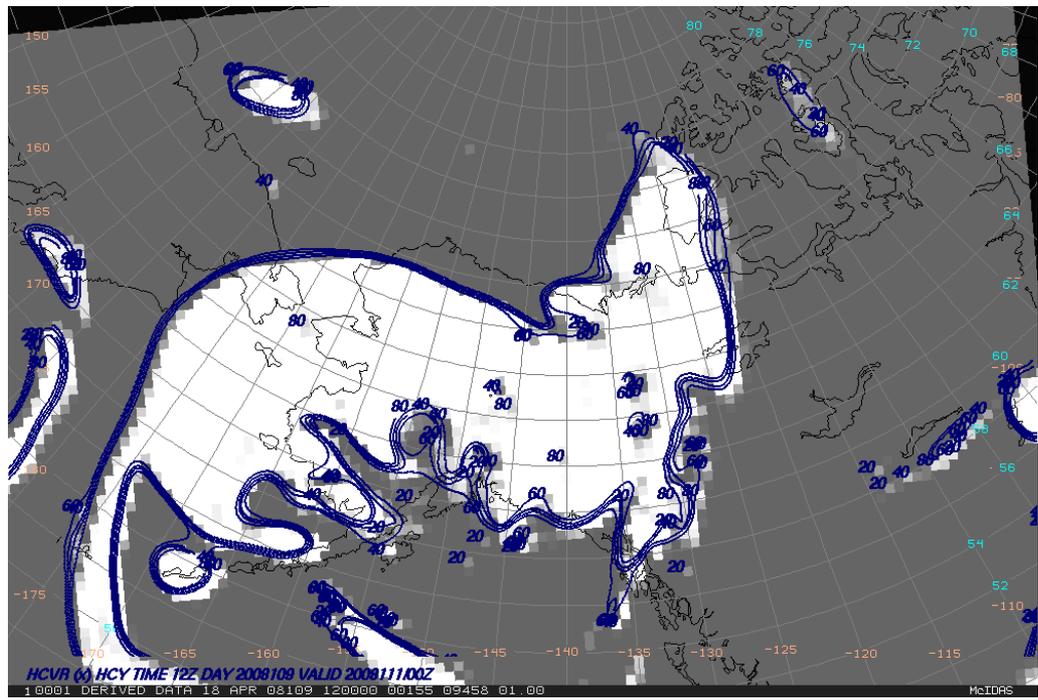


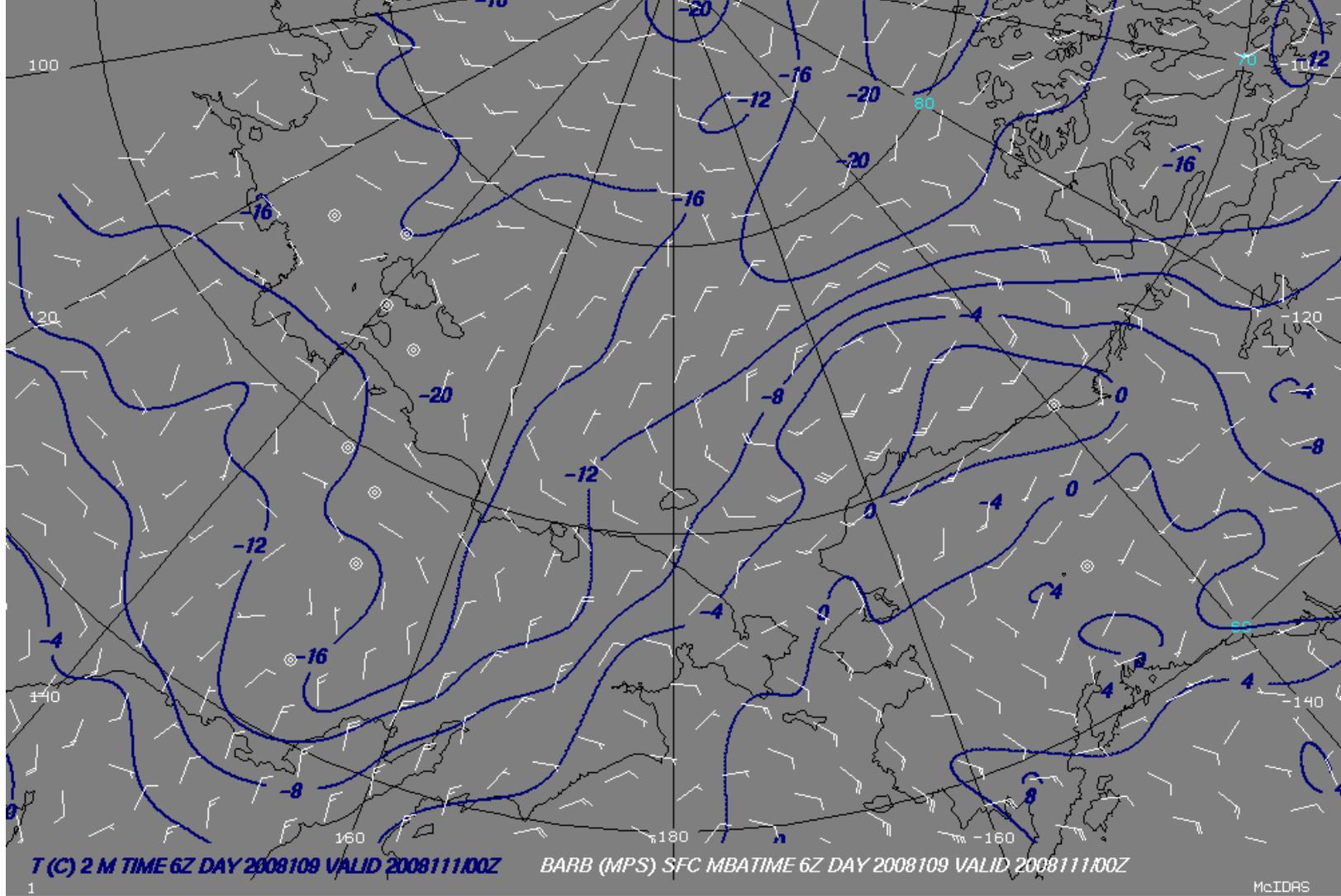
4:00 PM local
Saturday

NAM mid-level
clouds



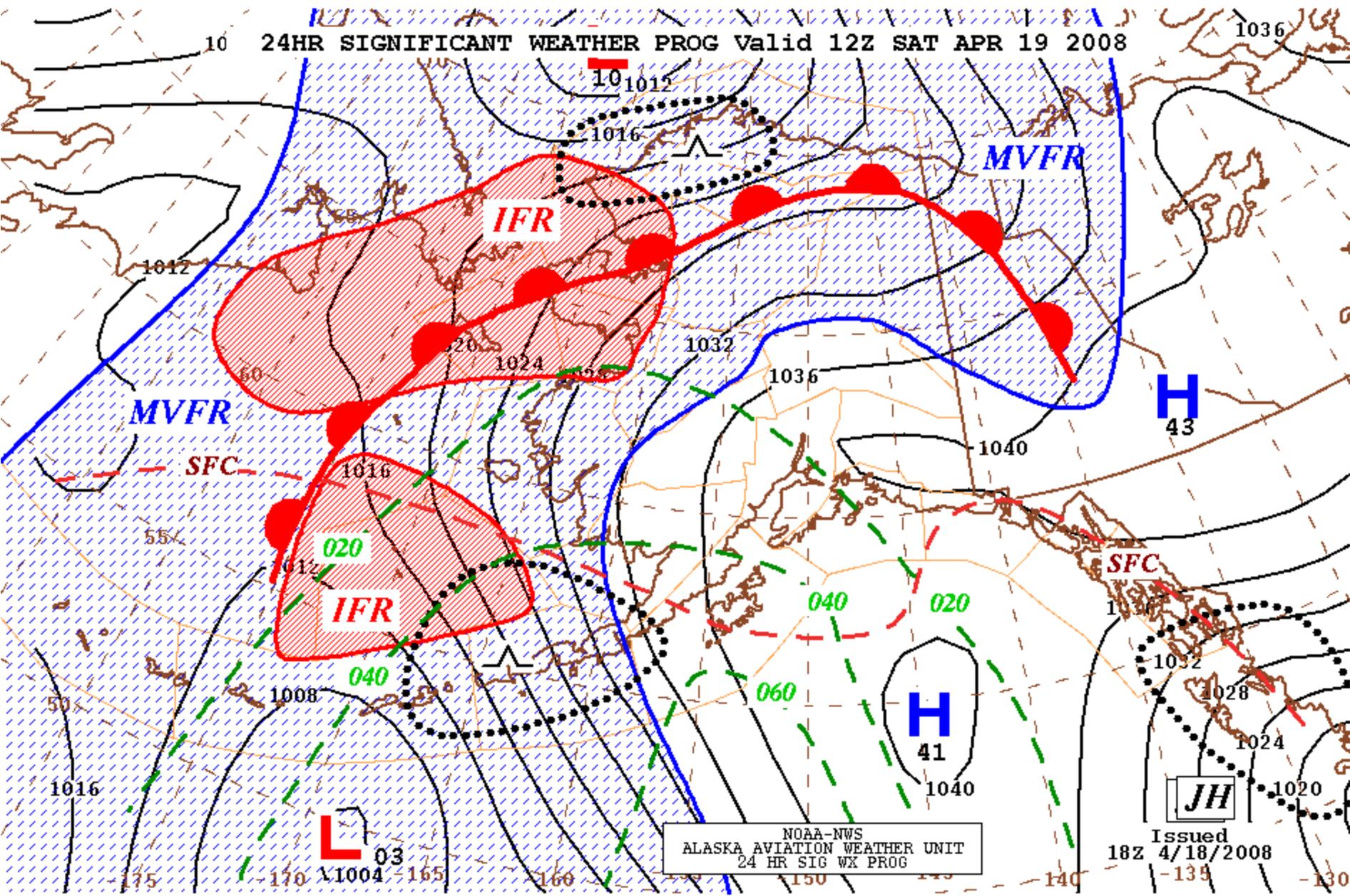
NAM high-level
clouds





GFS surface winds, 4:00 PM local Saturday

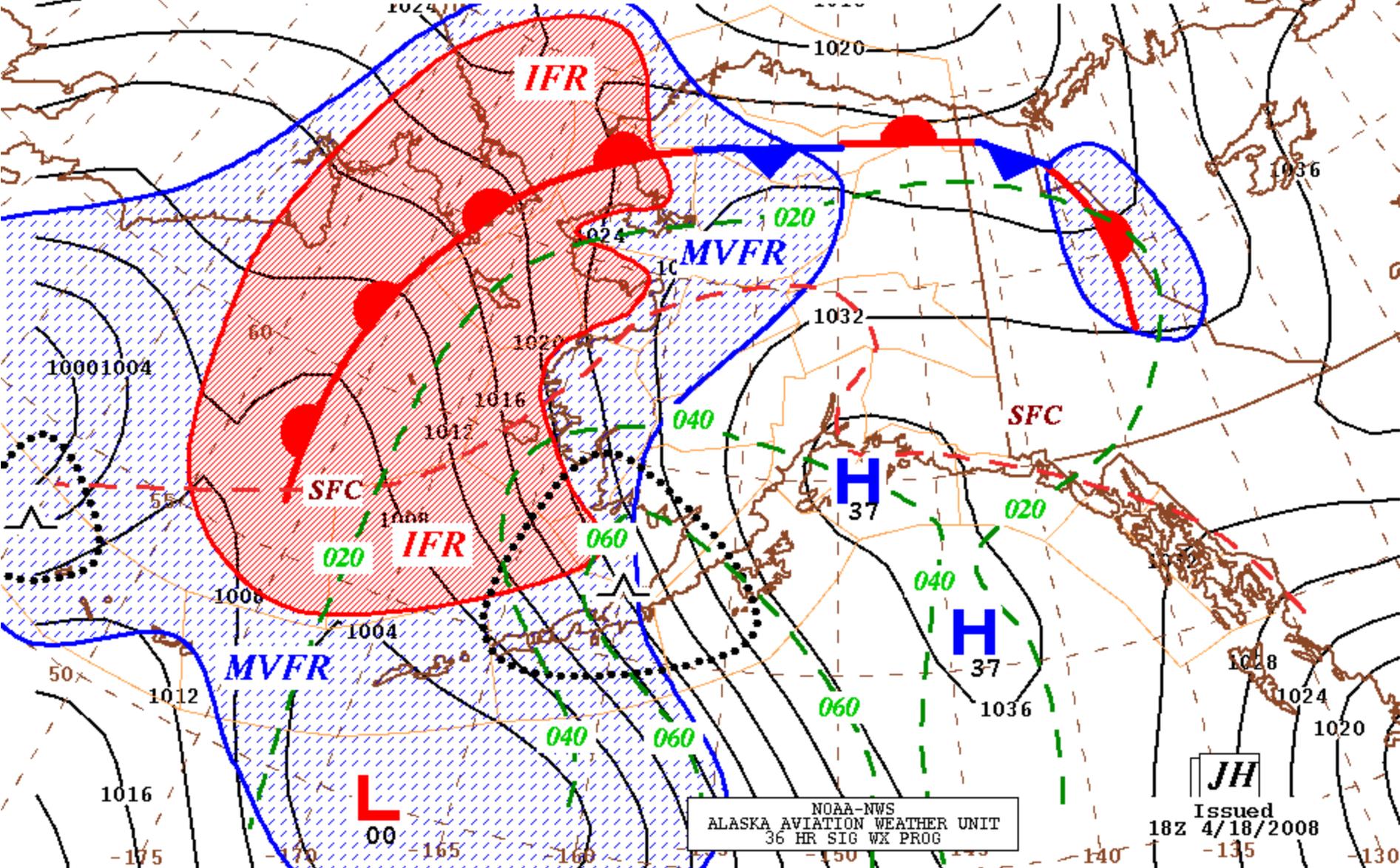
24HR SIGNIFICANT WEATHER PROG Valid 12Z SAT APR 19 2008



NOAA-NWS
ALASKA AVIATION WEATHER UNIT
24 HR SIG WX PROG

Issued
18Z 4/18/2008

36HR SIGNIFICANT WEATHER PROG Valid 00Z SUN APR 20 2008

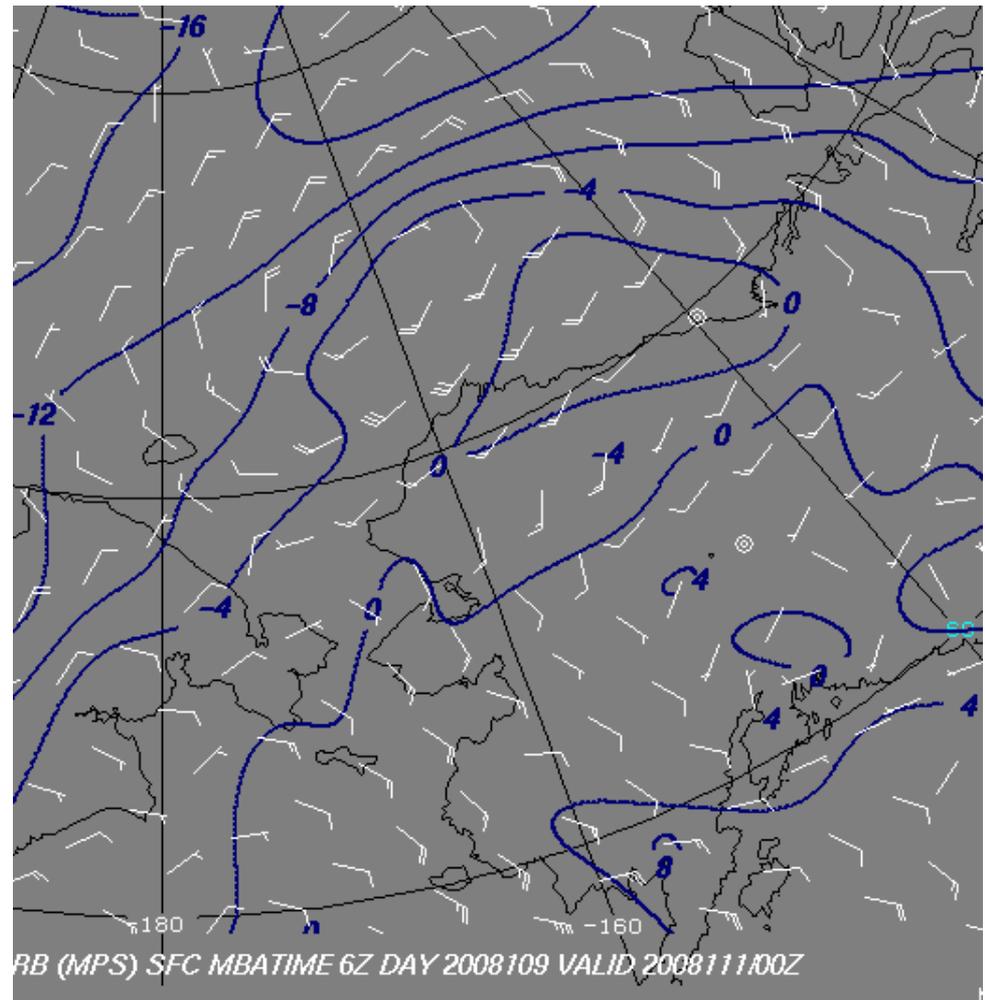
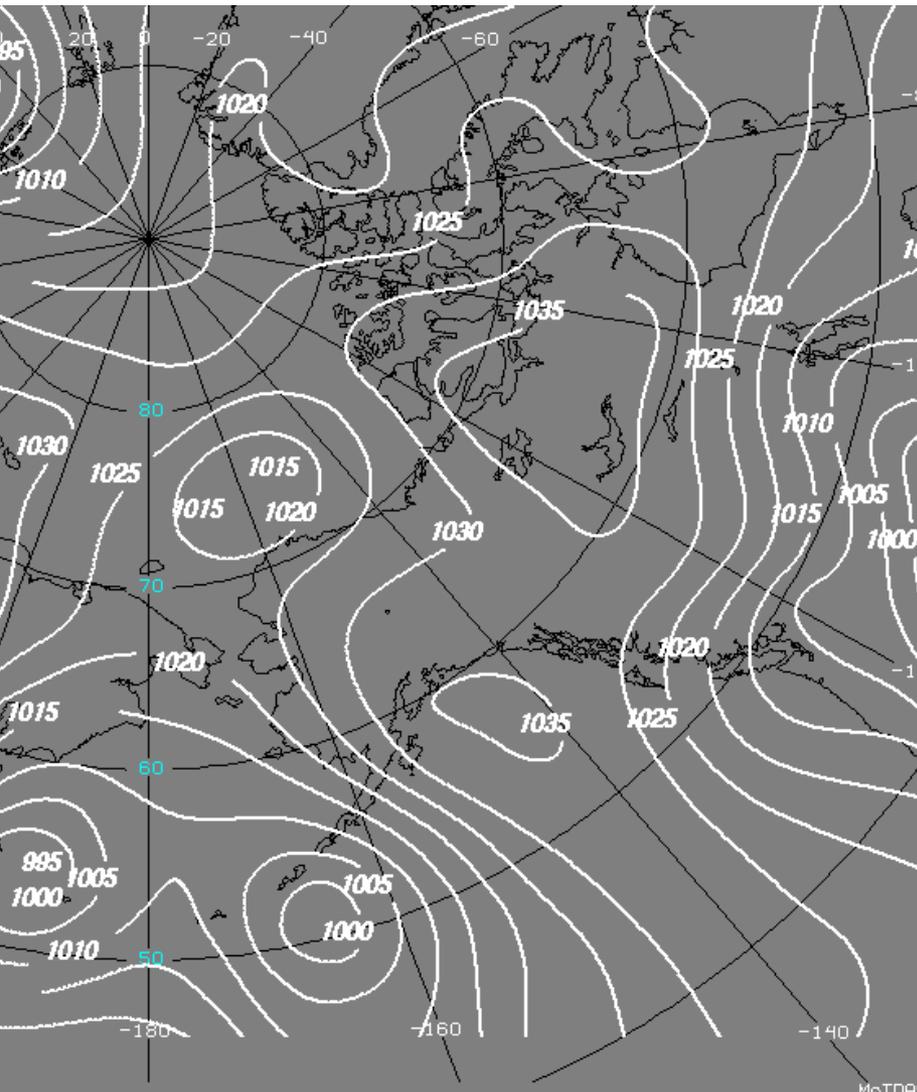


NOAA-NWS
 ALASKA AVIATION WEATHER UNIT
 36 HR SIG WX PROG

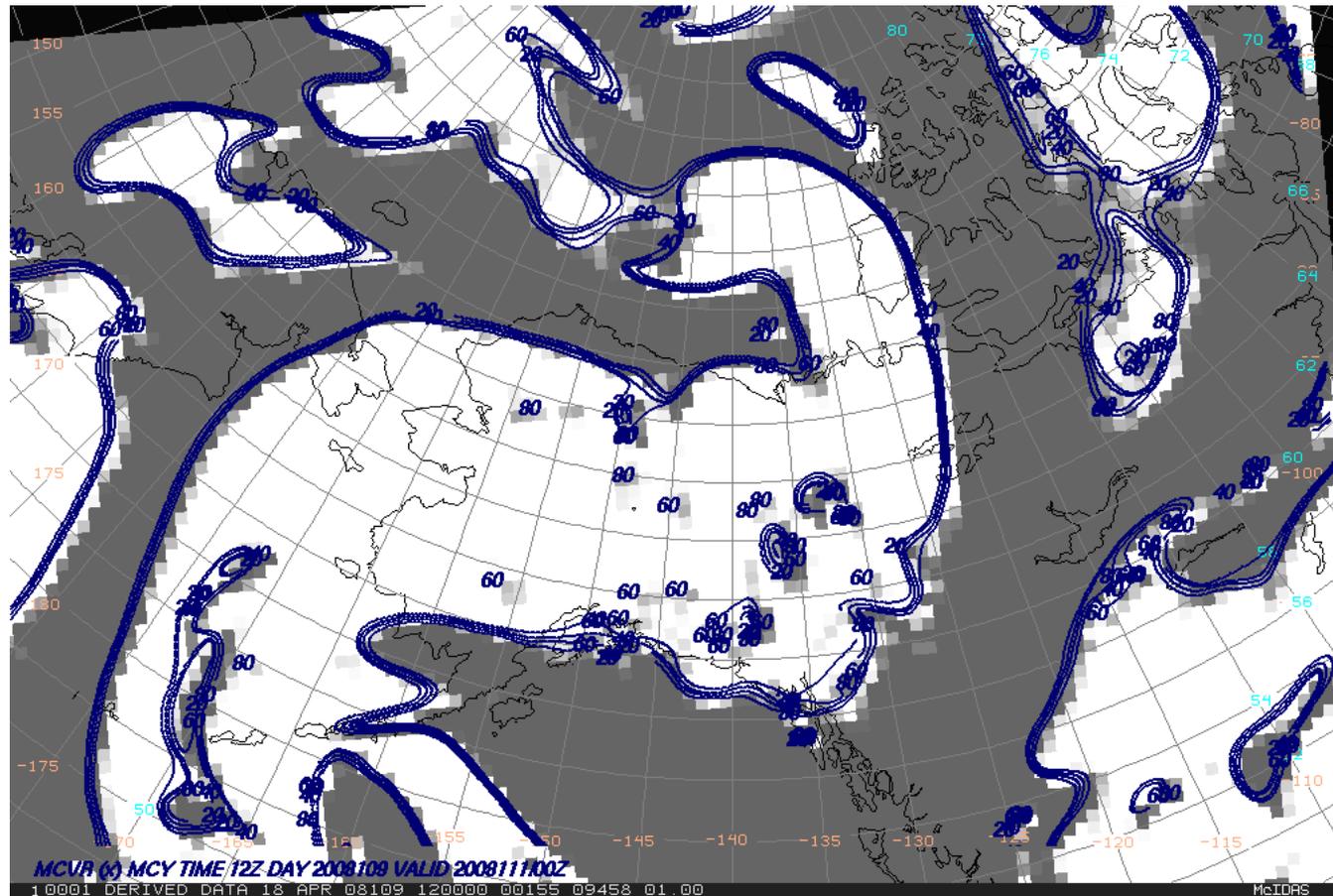
JH
 Issued
 18Z 4/18/2008

amsr_abaska_h_v.mov

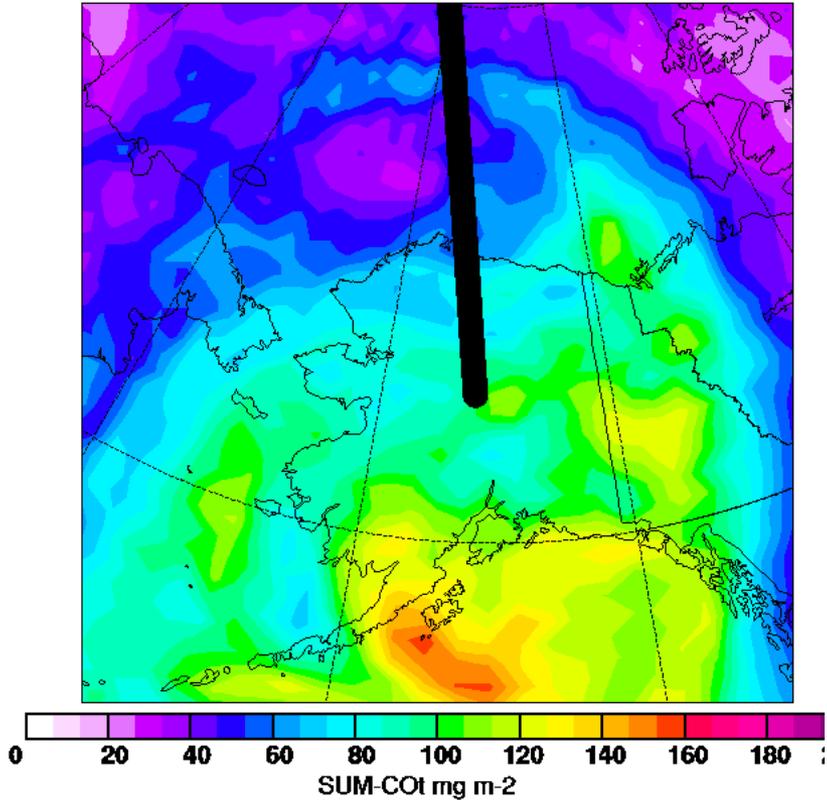
Tomorrow, 4pm.



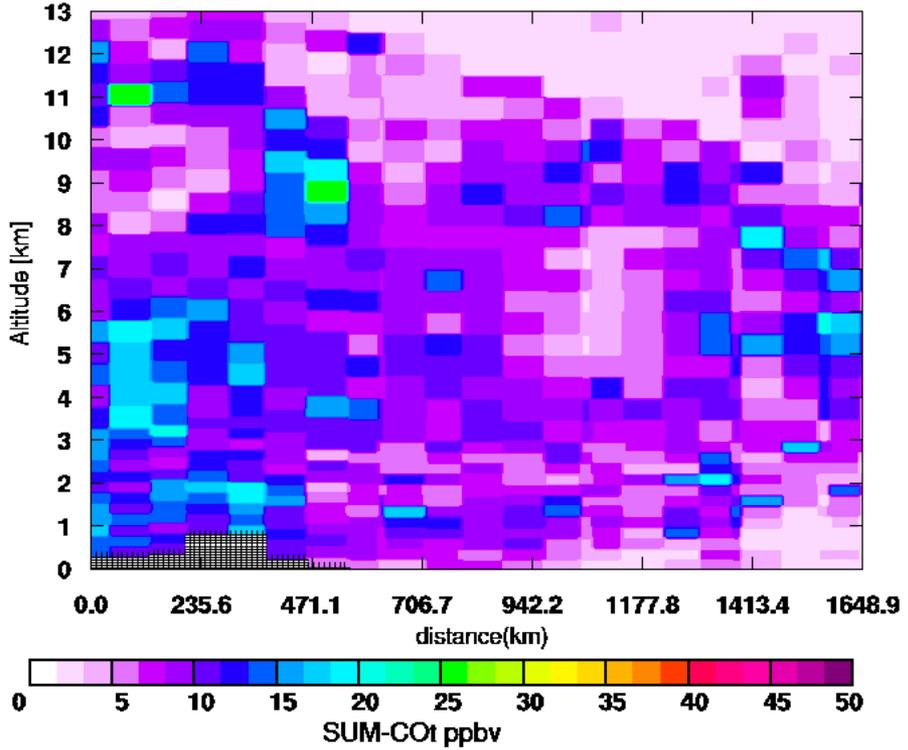
Tomorrow, 4pm. Clouds from Nam



Total column of species SUM-CO for age class 0 - 20.00 DAYS
 Latest analysis time 20080418. 60000 Actual time 20080419.200000
 Mean value 0.909E+02 Maximum value 0.787E+03 Minimum value 0.9
 Distance of grid lines 20.0 deg

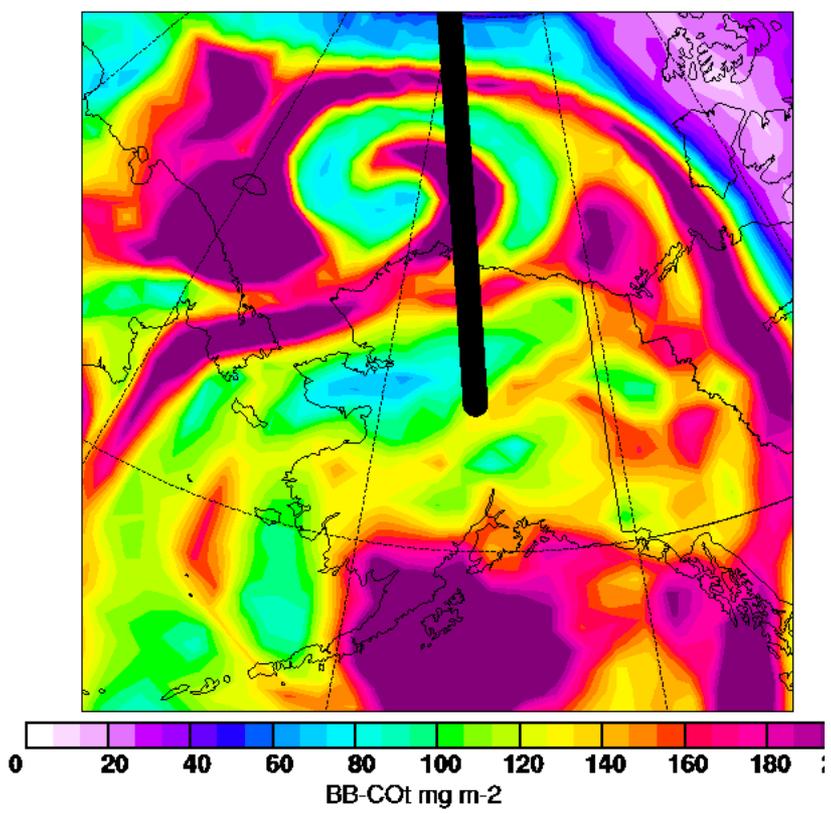


CROSS SECTION FROM 65 TO 80 LATITUDE AND -152 TO -160 LONGITUDE
 NA-CO_t MIXING RATIO FOR AGE CLASS 0 - 20.00 DAYS
 LATEST ANALYSIS 20080418 60000 UTC ACTUAL TIME 20080419 20

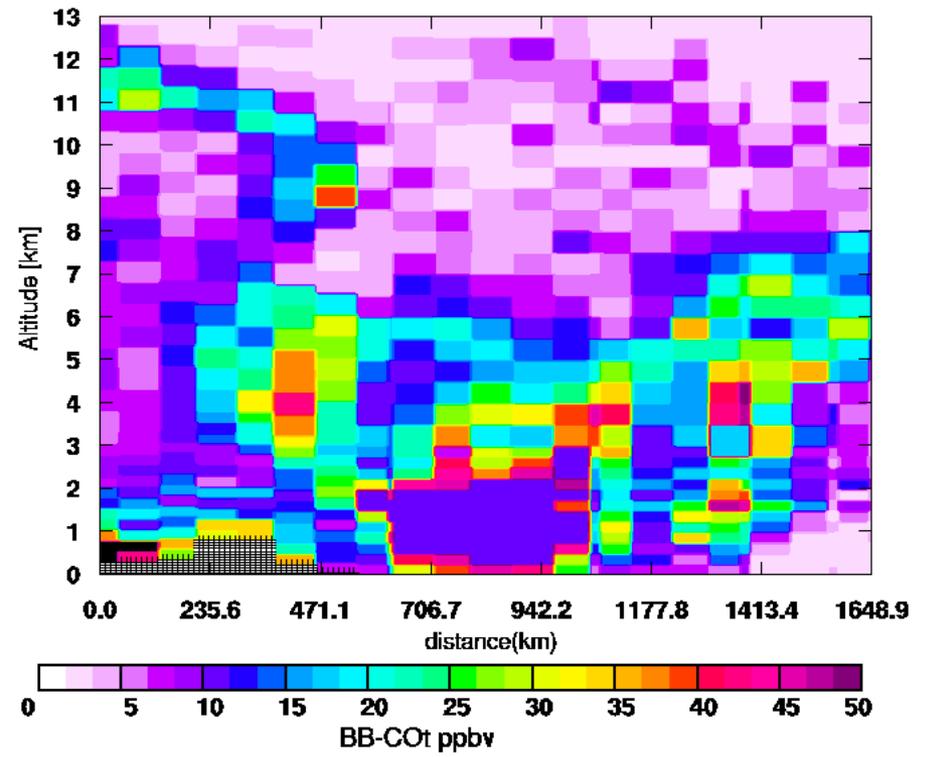


Total column of species BB-COt for age class 0 - 20.00 DAYS

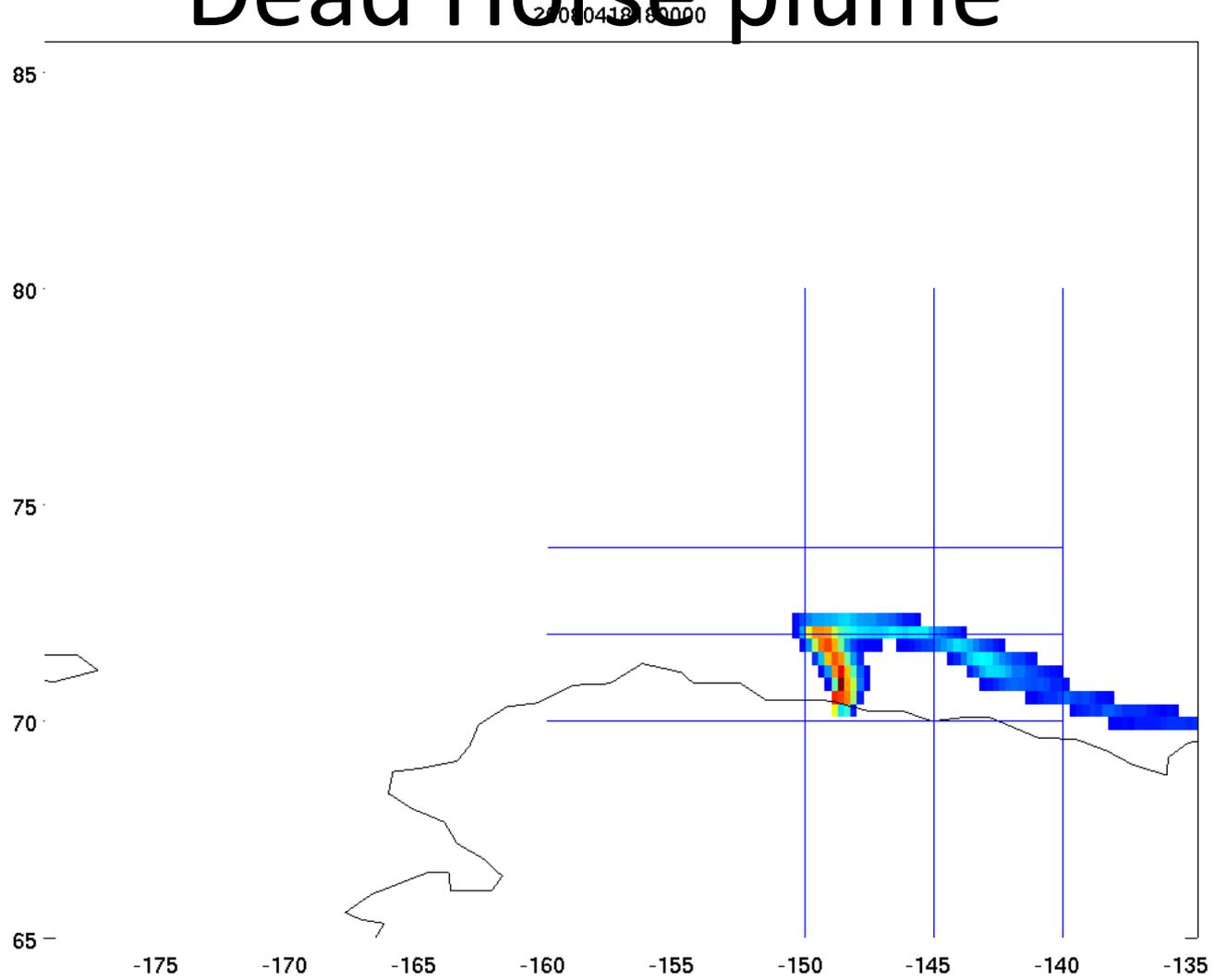
Latest analysis time 20080418. 60000 Actual time 20080419.200000
Mean value 0.914E+02 Maximum value 0.226E+04 Minimum value 0.4
Distance of grid lines 20.0 deg



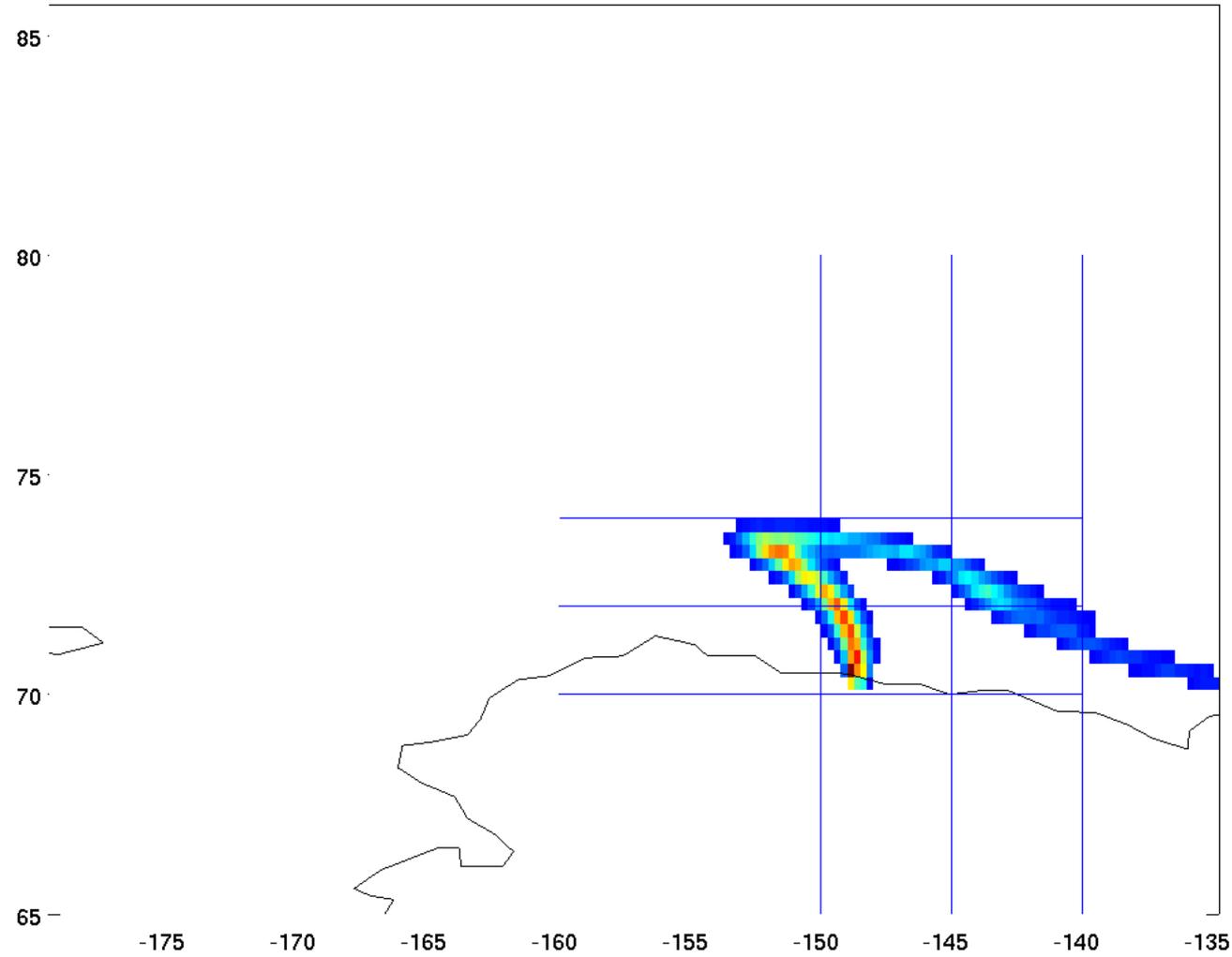
CROSS SECTION FROM 65 TO 80 LATITUDE AND -152 TO -160 LONGITUDE
BB-COt MIXING RATIO FOR AGE CLASS 0 - 20.00 DAYS
LATEST ANALYSIS 20080418 60000 UTC ACTUAL TIME 20080419 20



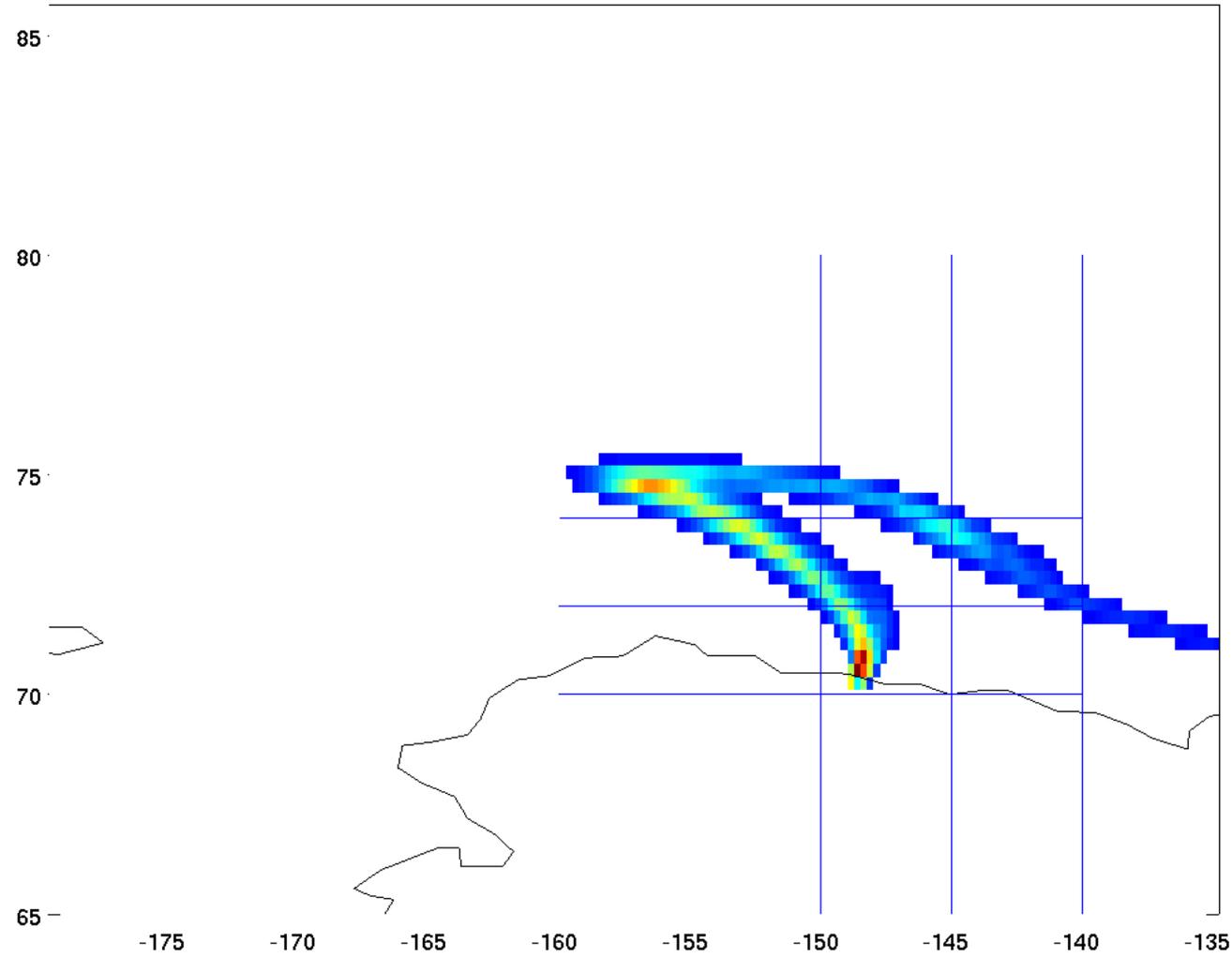
Dead Horse plume



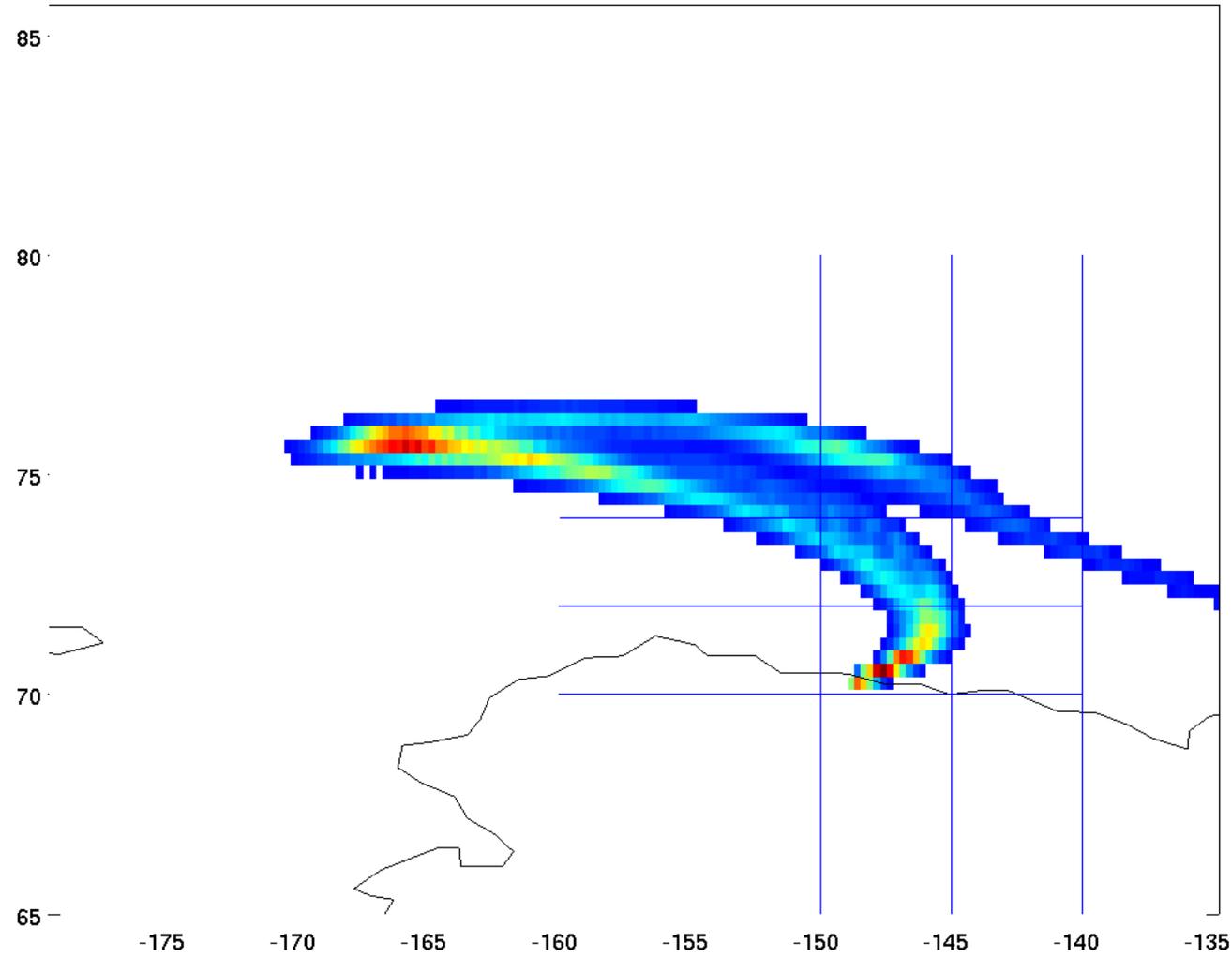
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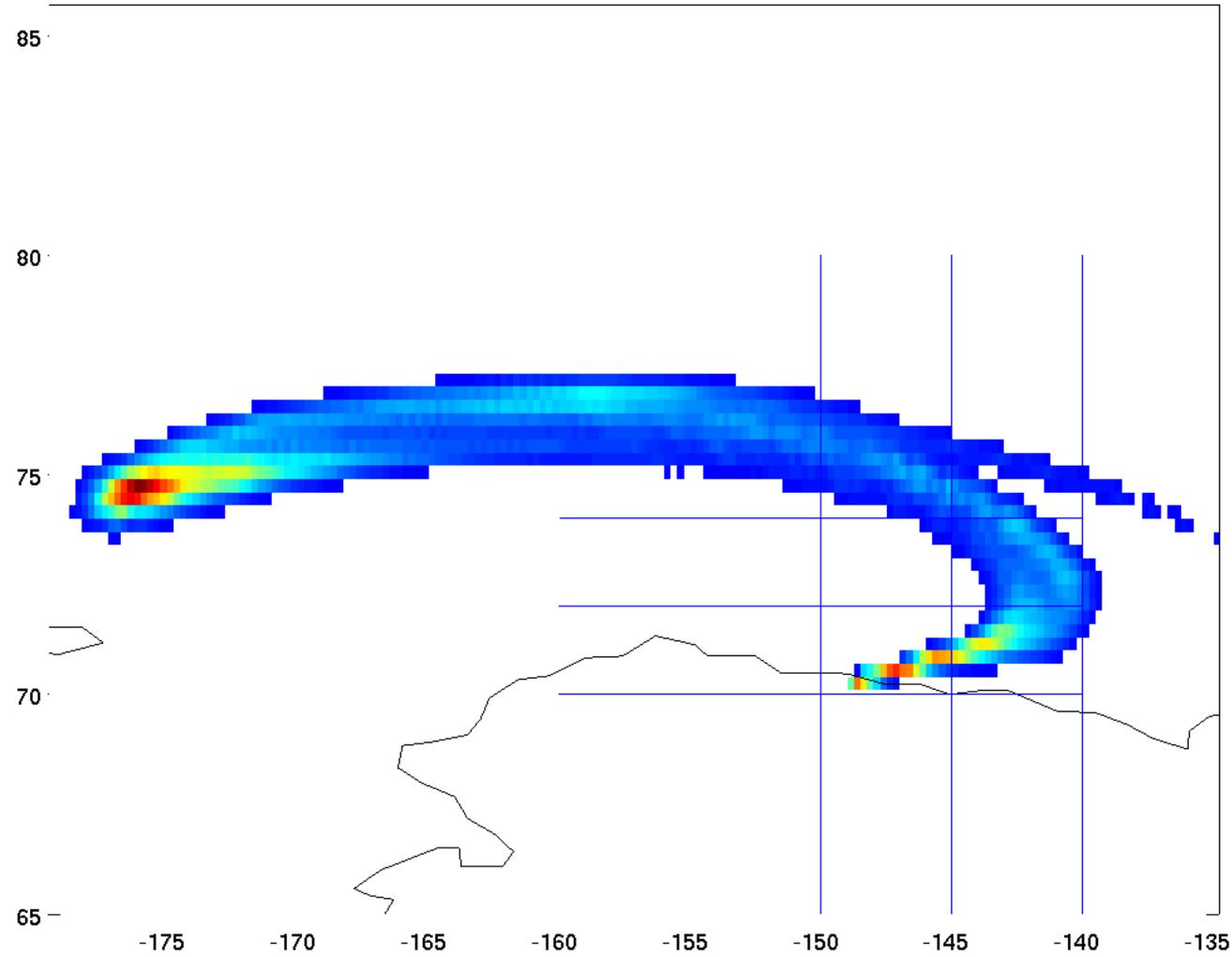
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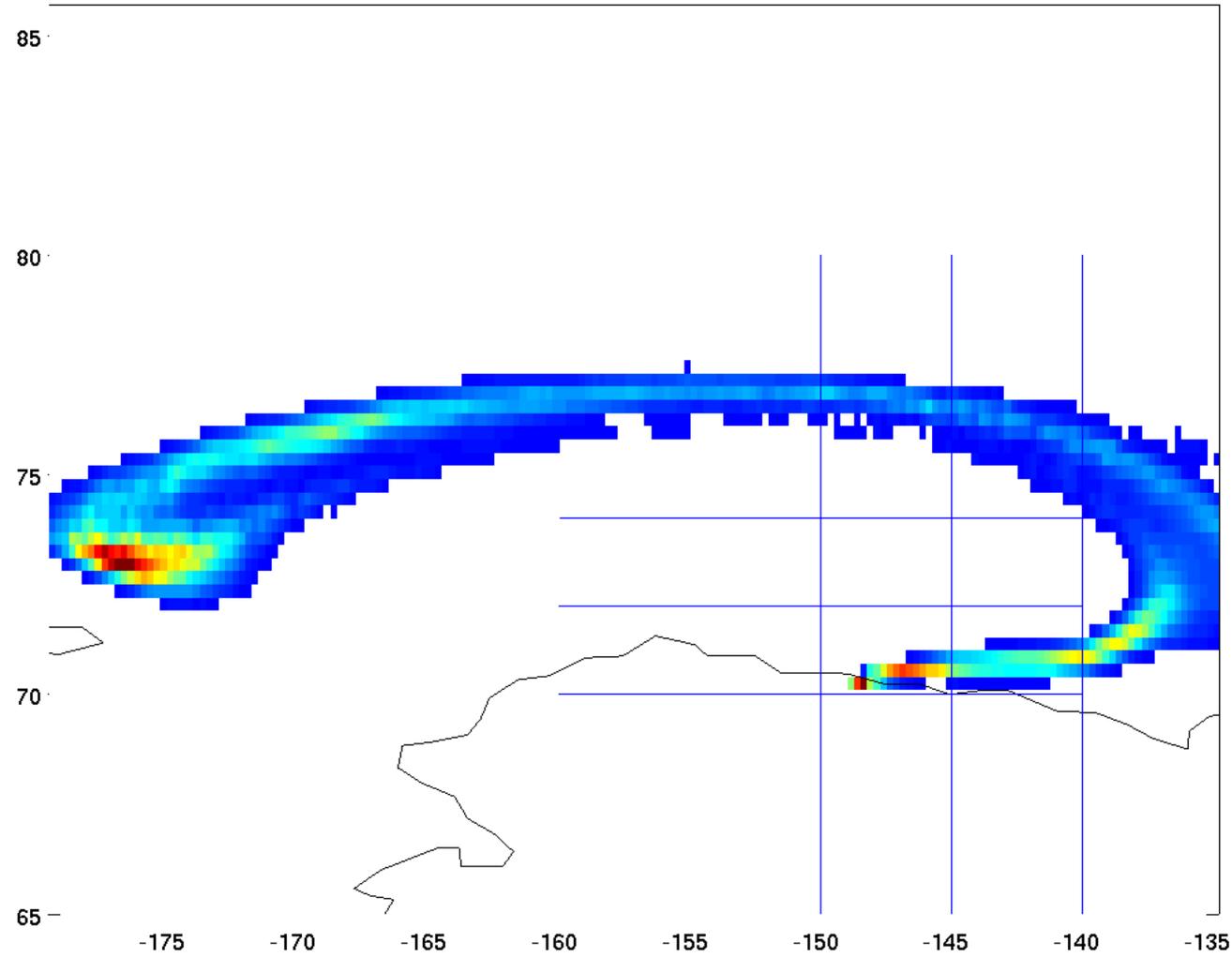
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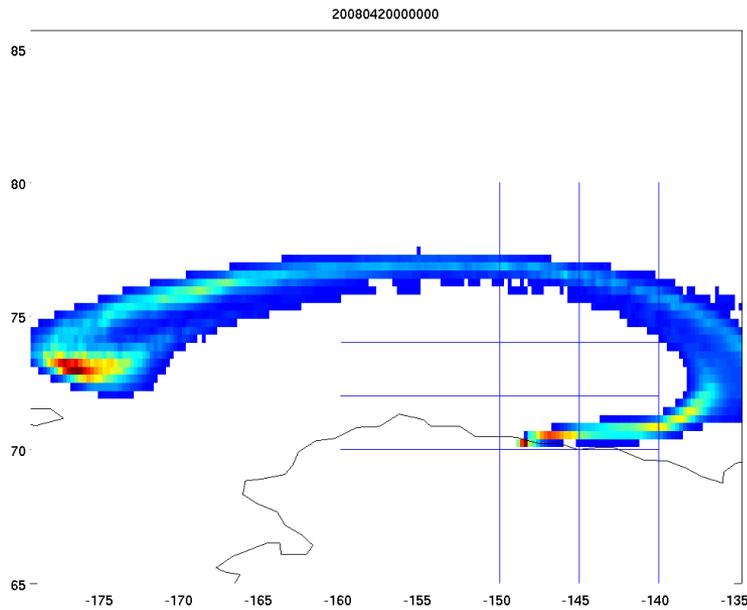


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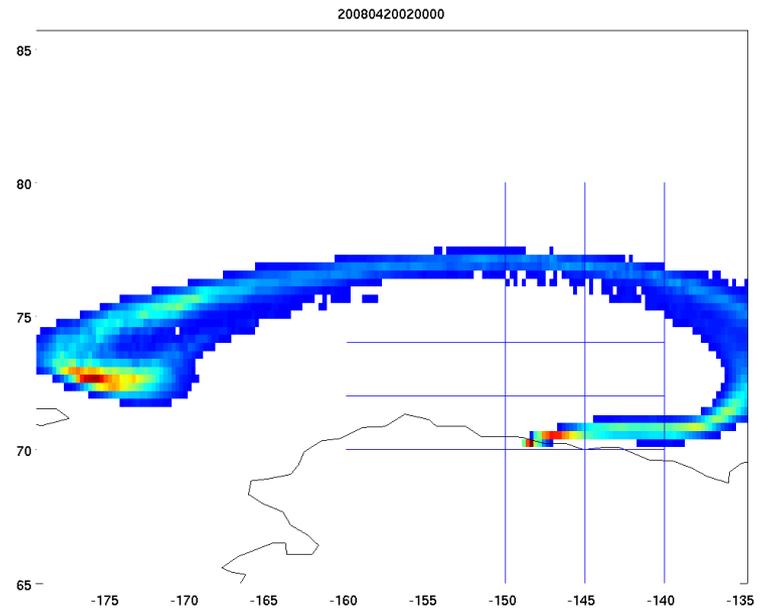


One possibility of lagrangian study. Dead horse plume colocated with biomass burning plumes

Tomorrow, 4pm

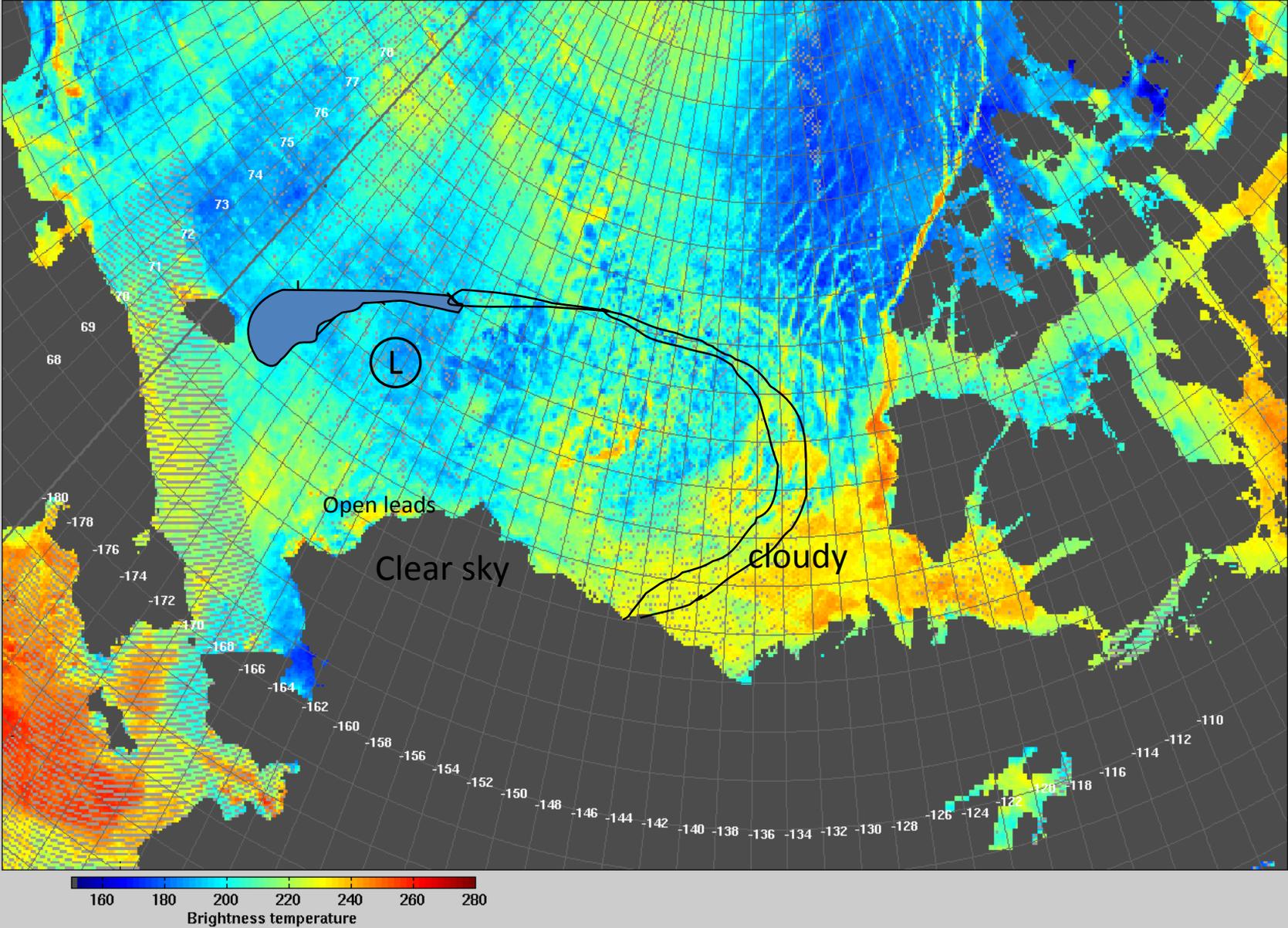


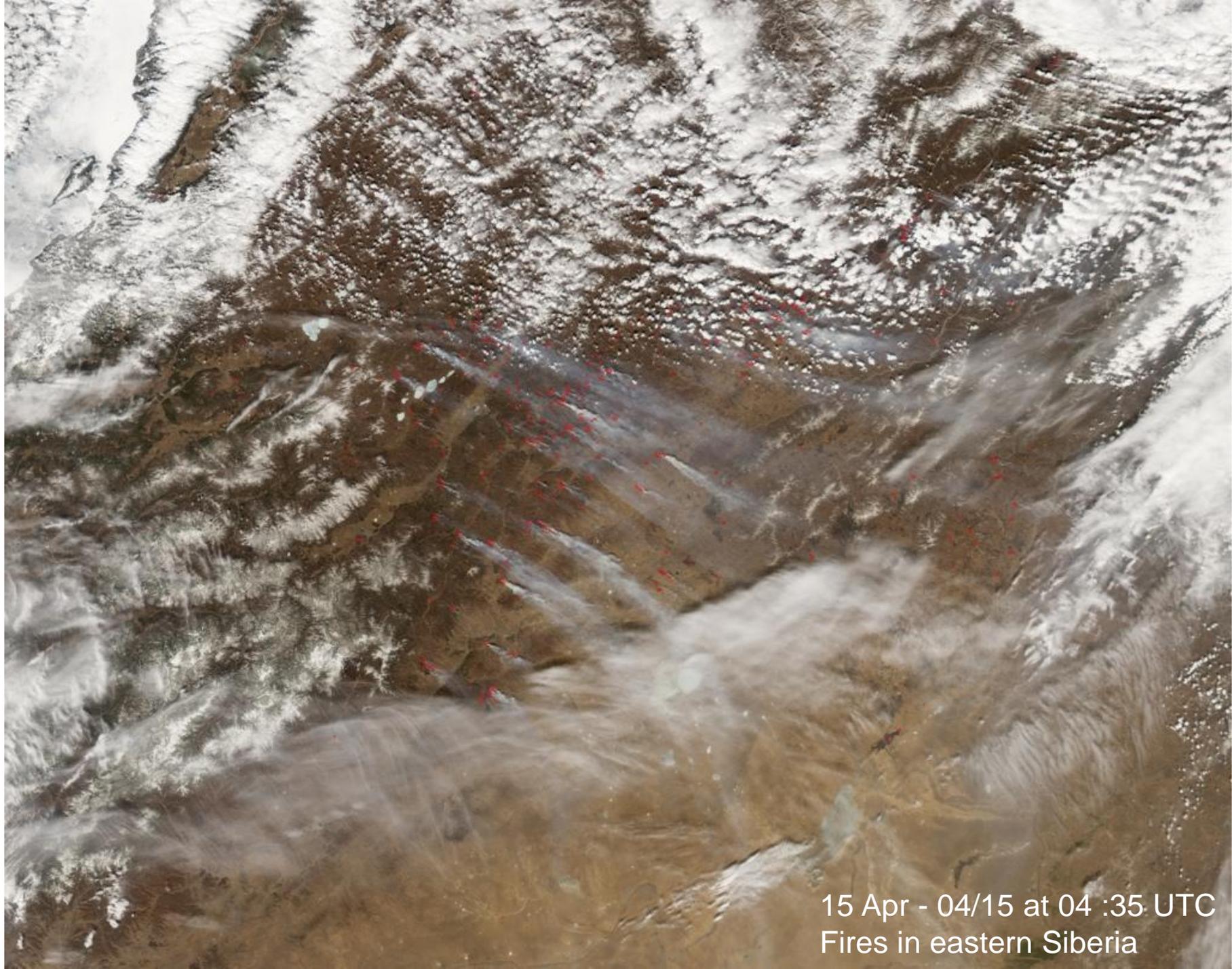
Tomorrow, 6pm



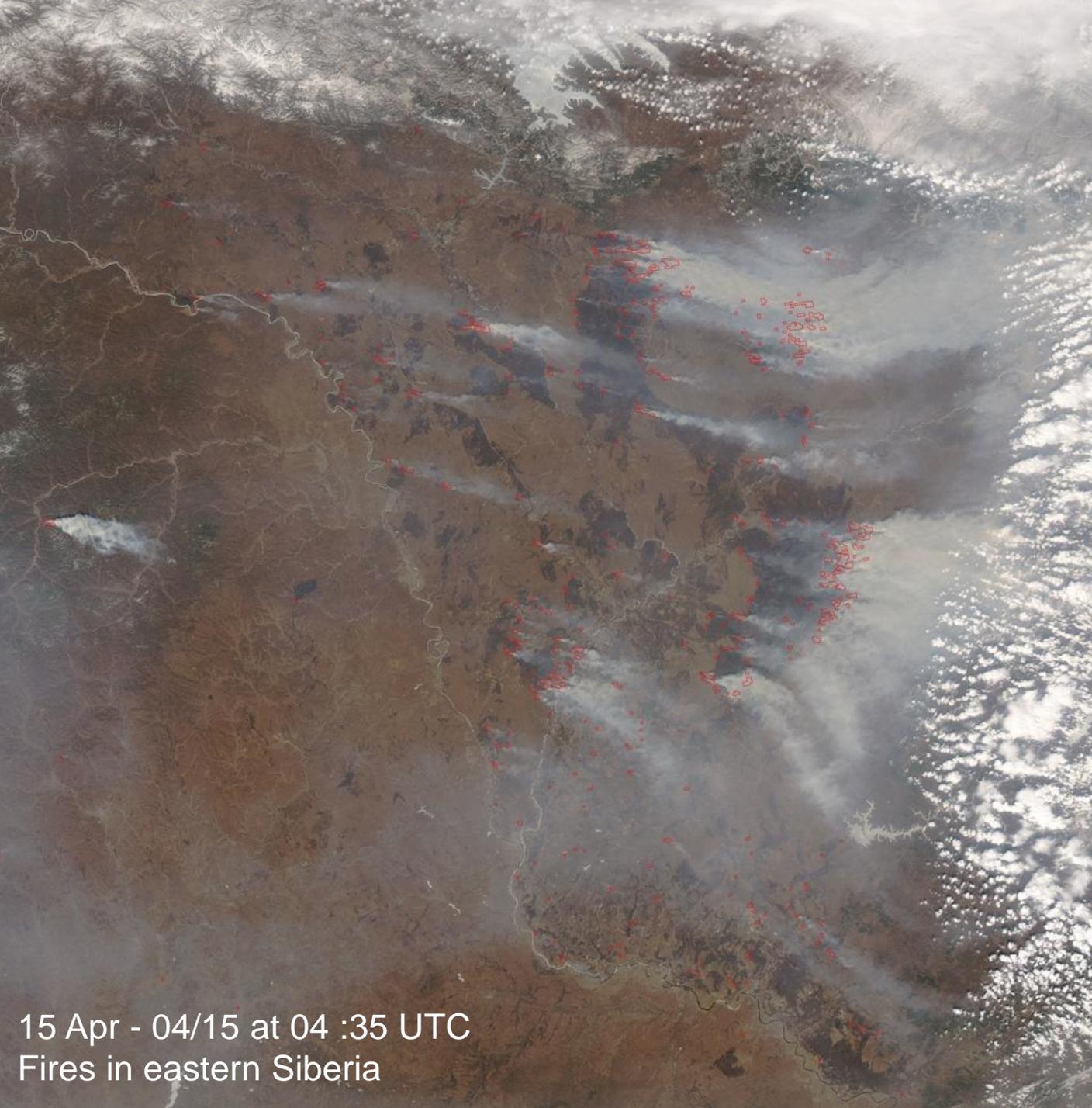
Tomorrow 4pm

AMSR-E/Aqua Daily L3 6.25 km 89GHz horizontal brightness temperature: 20080416



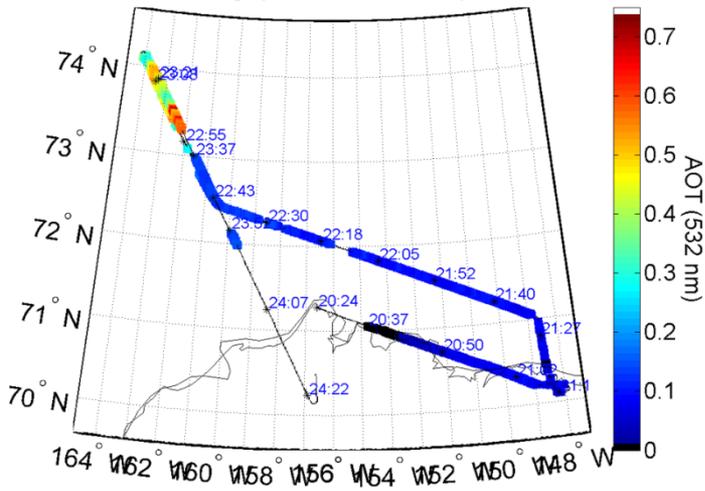


15 Apr - 04/15 at 04 :35 UTC
Fires in eastern Siberia

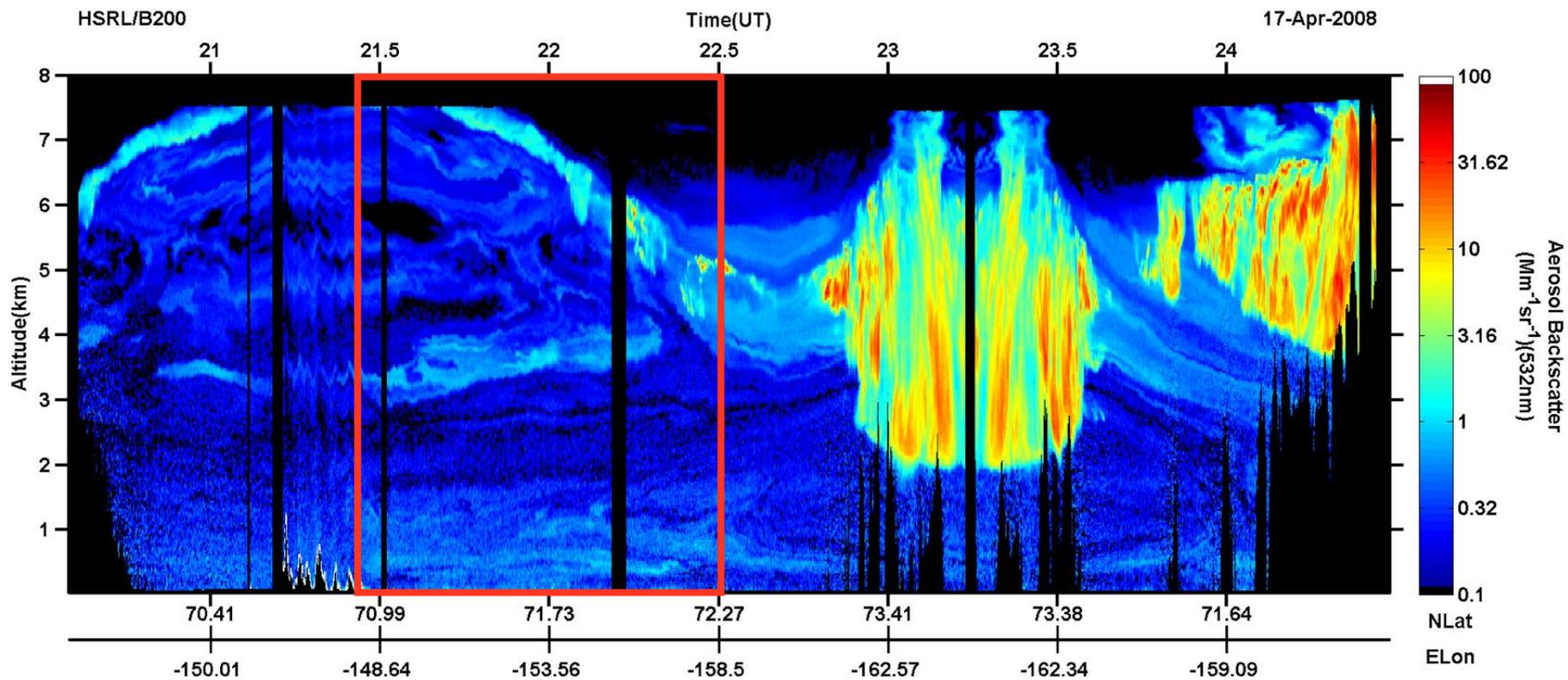


15 Apr - 04/15 at 04 :35 UTC
Fires in eastern Siberia

NASA Langley HSRL/B200 17-Apr-2008



HSRL flight Tuesday, 17 Apr



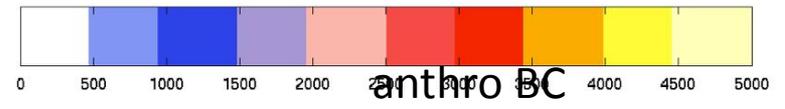
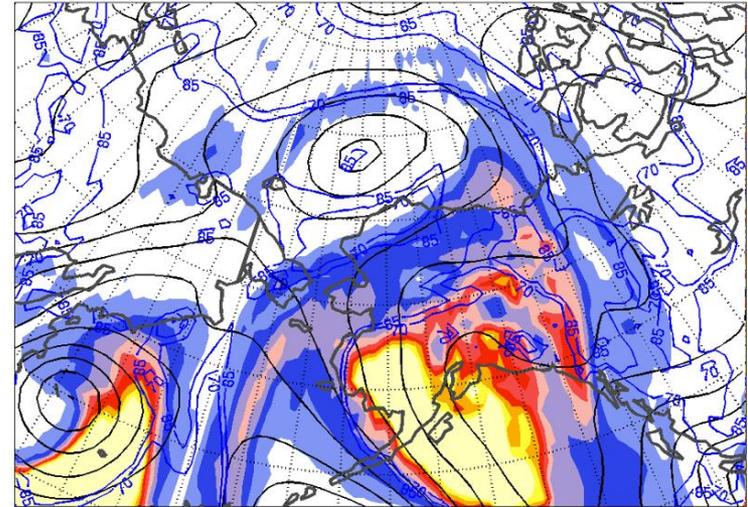
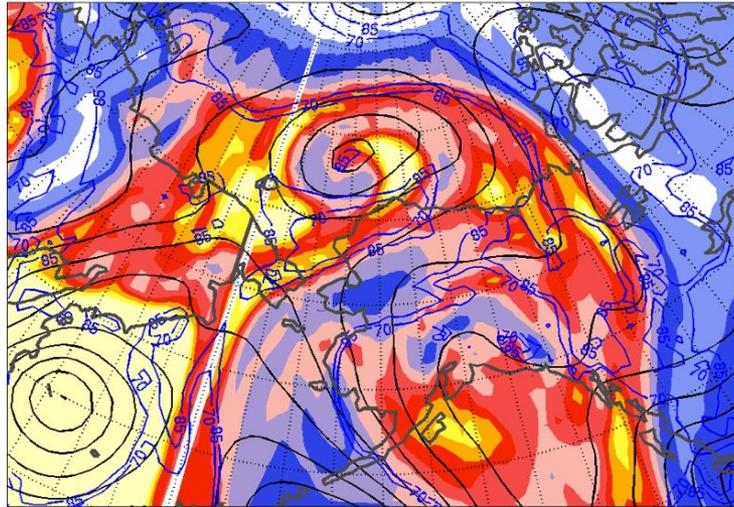
biomass CO

Saturday, 1pm

anthro SO4

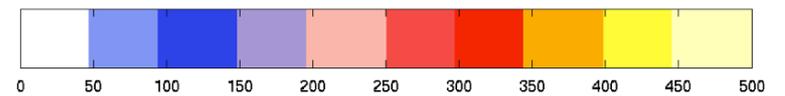
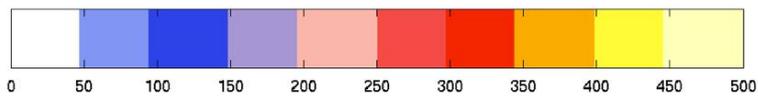
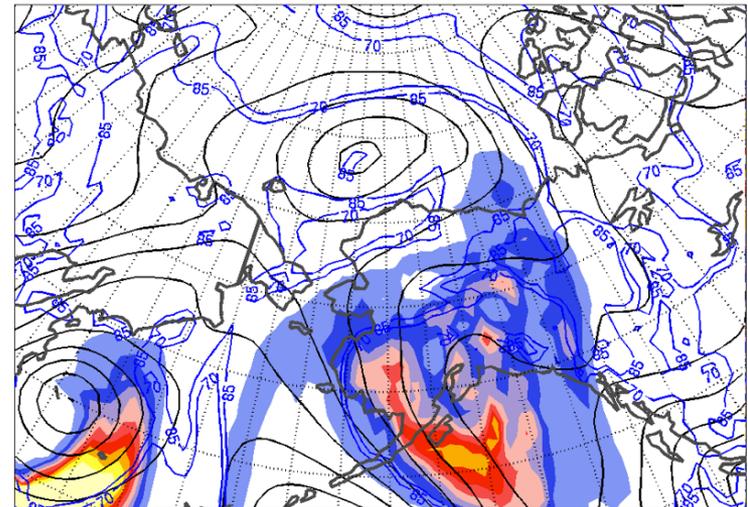
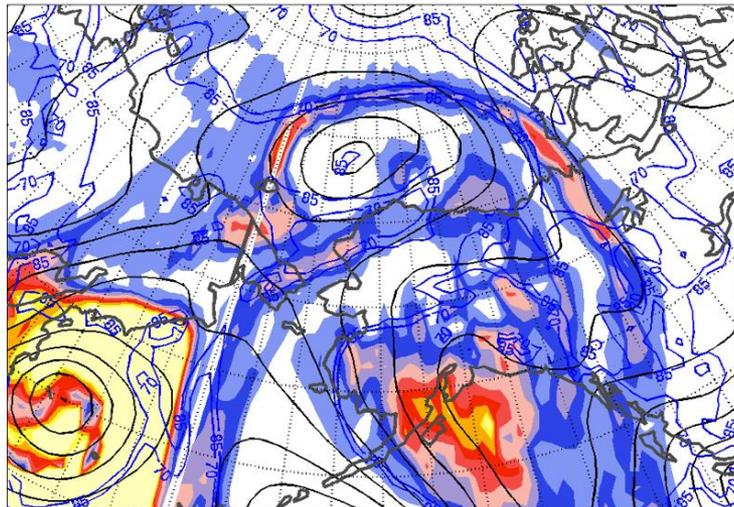
BB-CO on 21 UTC 2008-04-19 at level Total column

AN-SO4 on 21 UTC 2008-04-19 at level Total column



BB-BC on 21 UTC 2008-04-19 at level Total column

AN-BC on 21 UTC 2008-04-19 at level Total column

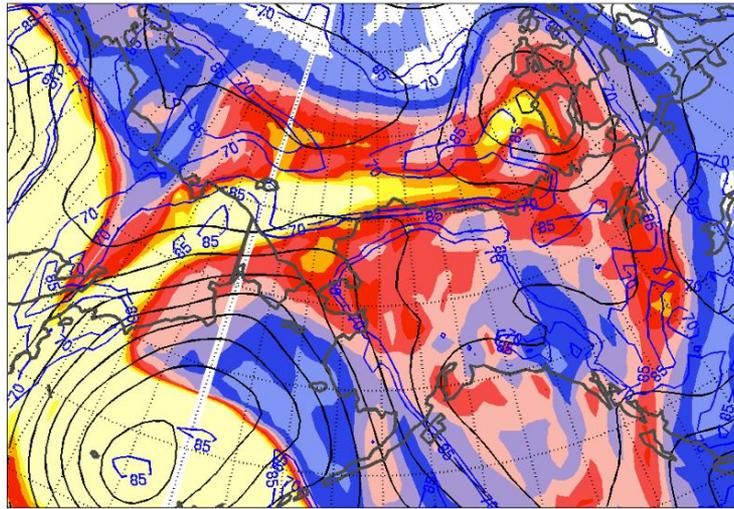


biomass CO

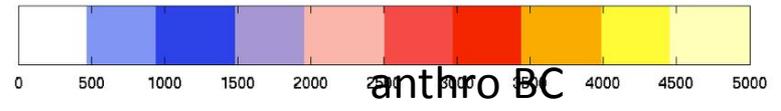
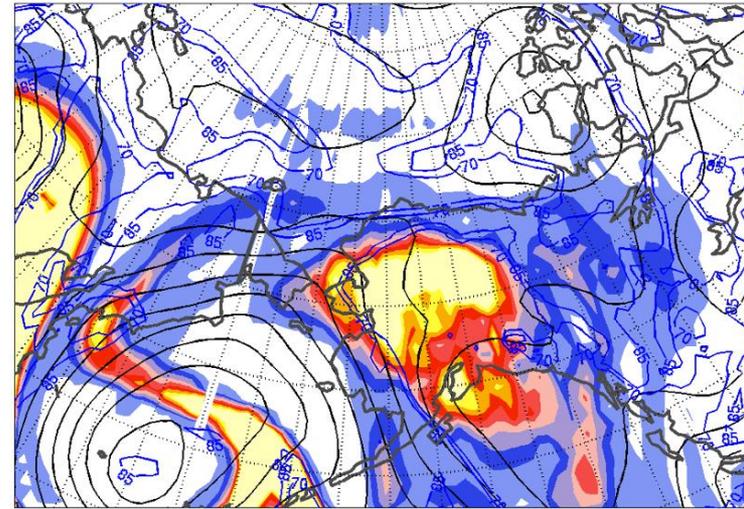
Sunday, 1pm

anthro SO4

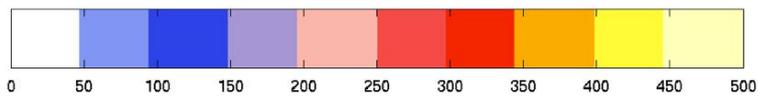
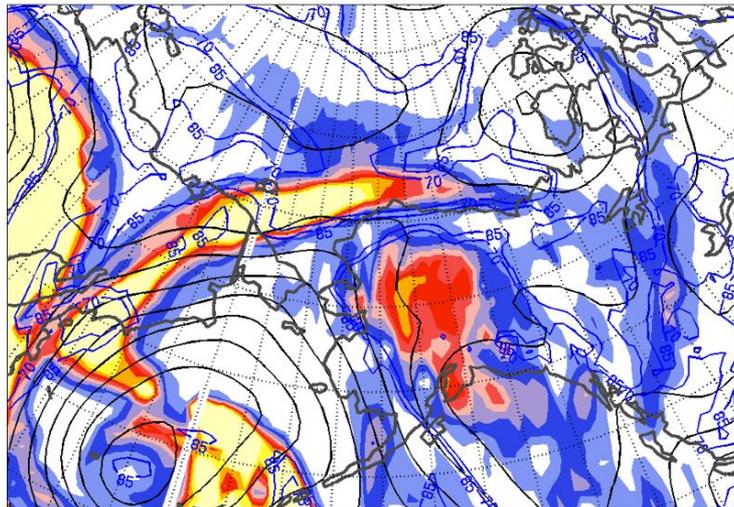
BB-CO on 21 UTC 2008-04-20 at level Total column



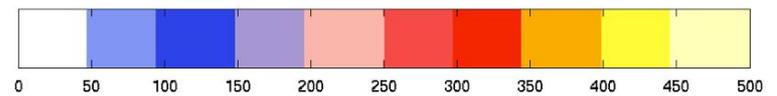
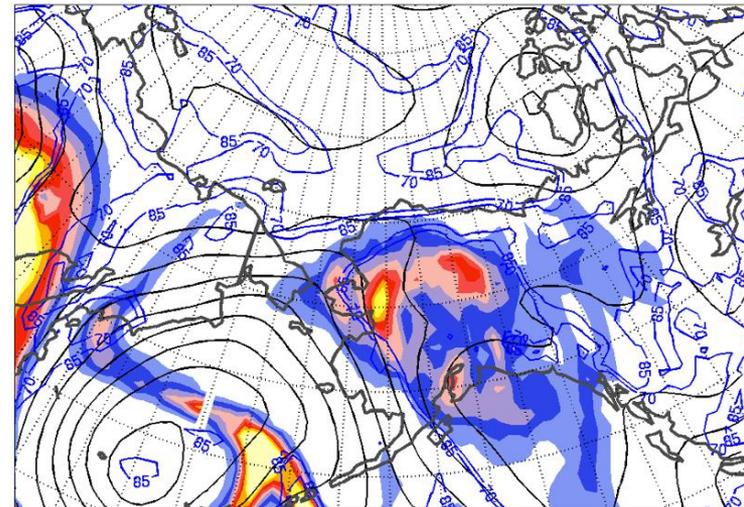
AN-SO4 on 21 UTC 2008-04-20 at level Total column



BB-BC on 21 UTC 2008-04-20 at level Total column



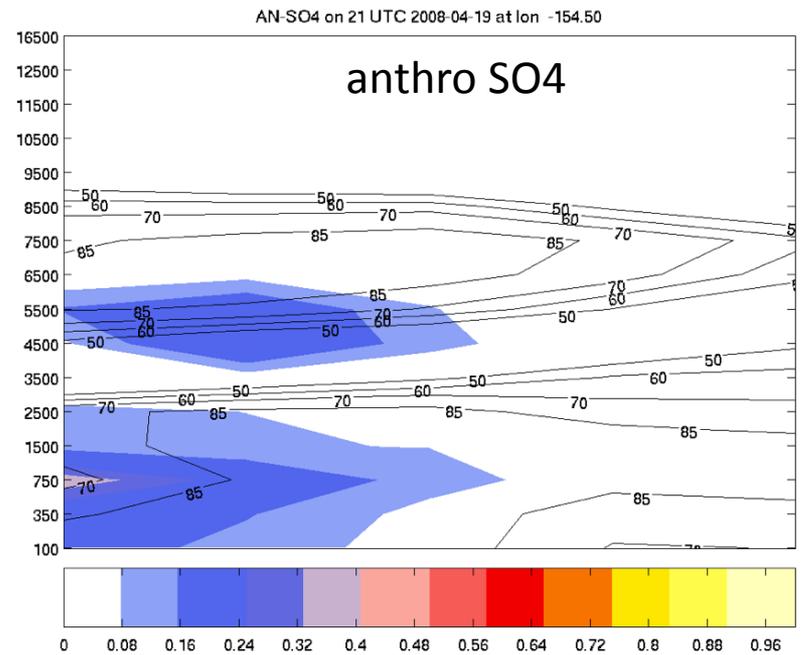
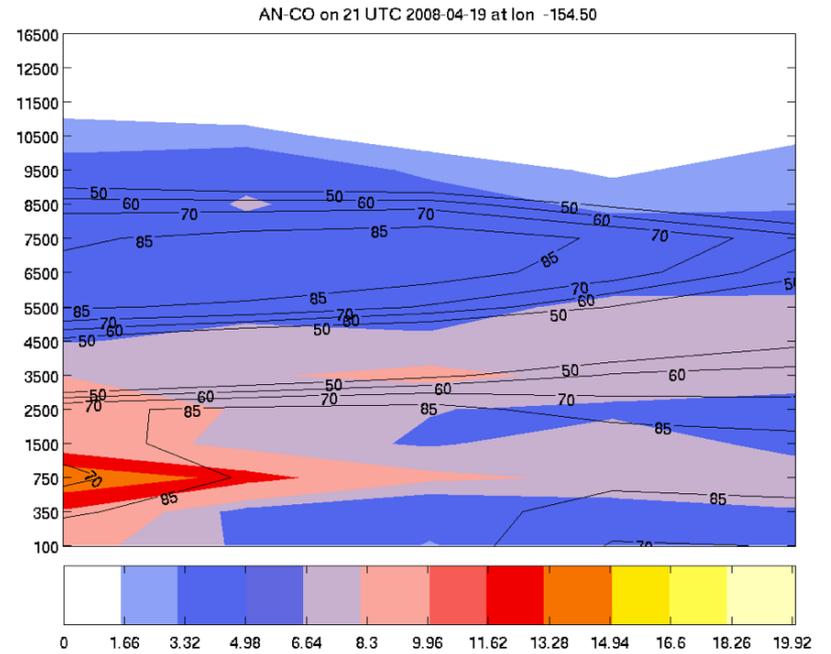
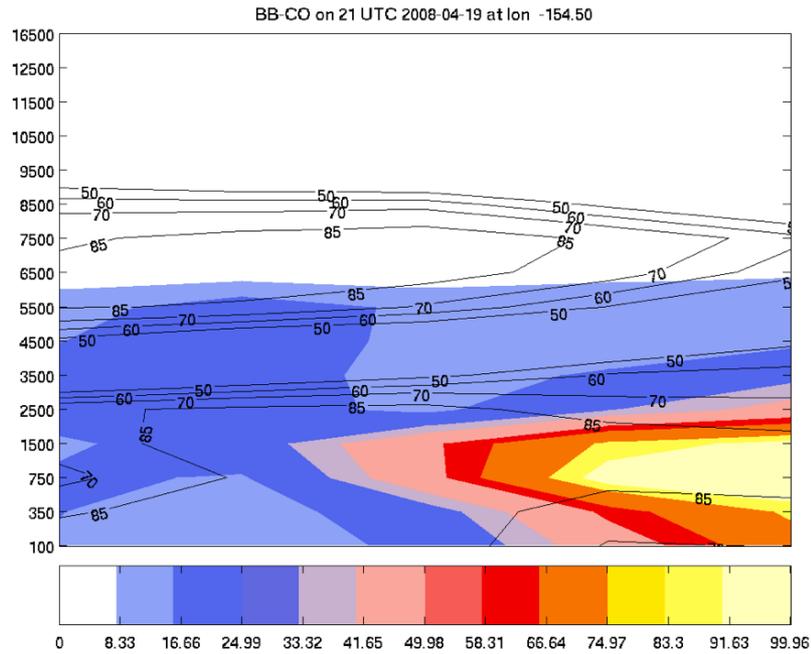
AN-BC on 21 UTC 2008-04-20 at level Total column



biomass CO

Saturday, 1pm

anthro CO

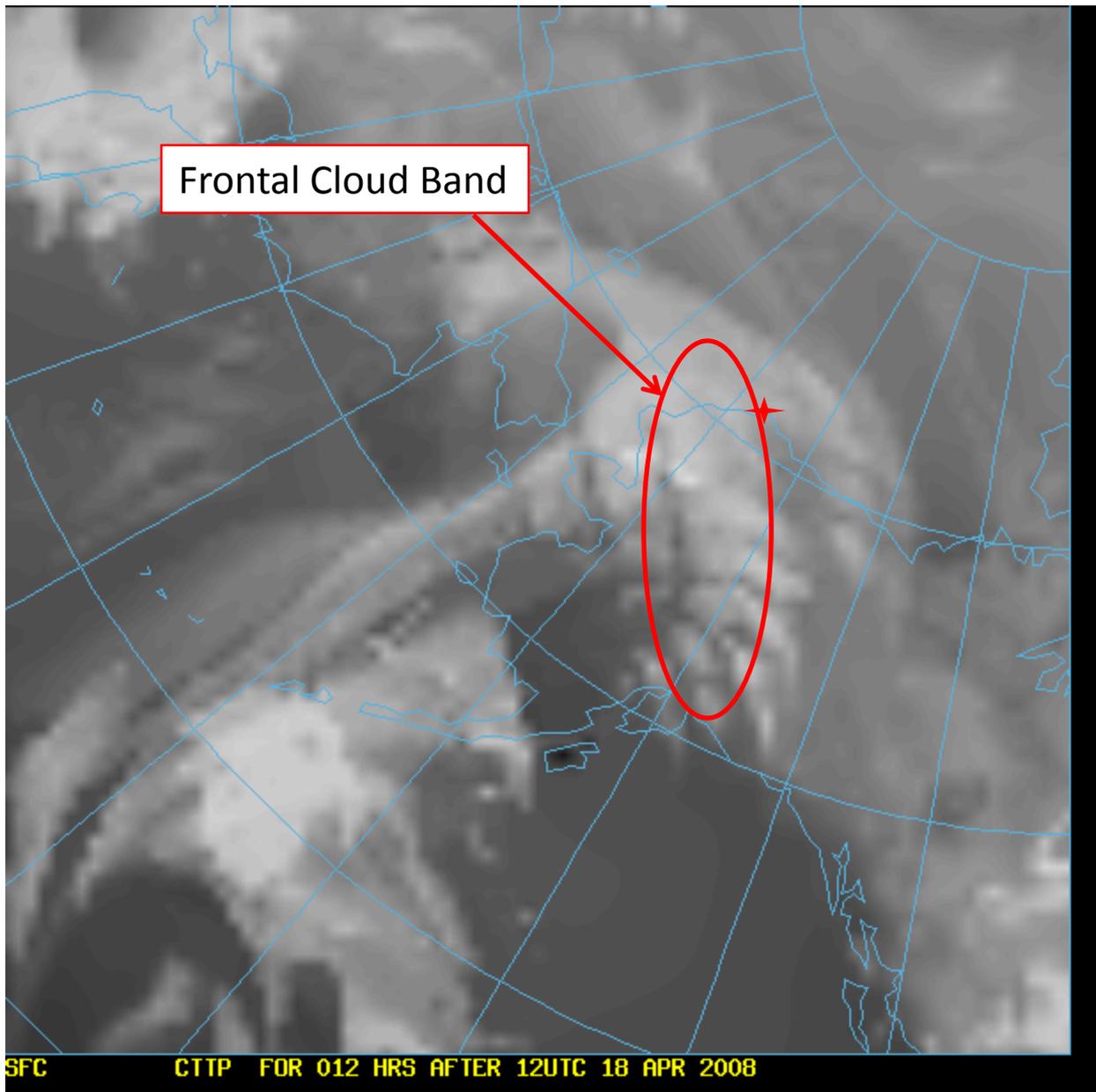


**RAQMS Fairbanks Local
FX Discussion:**

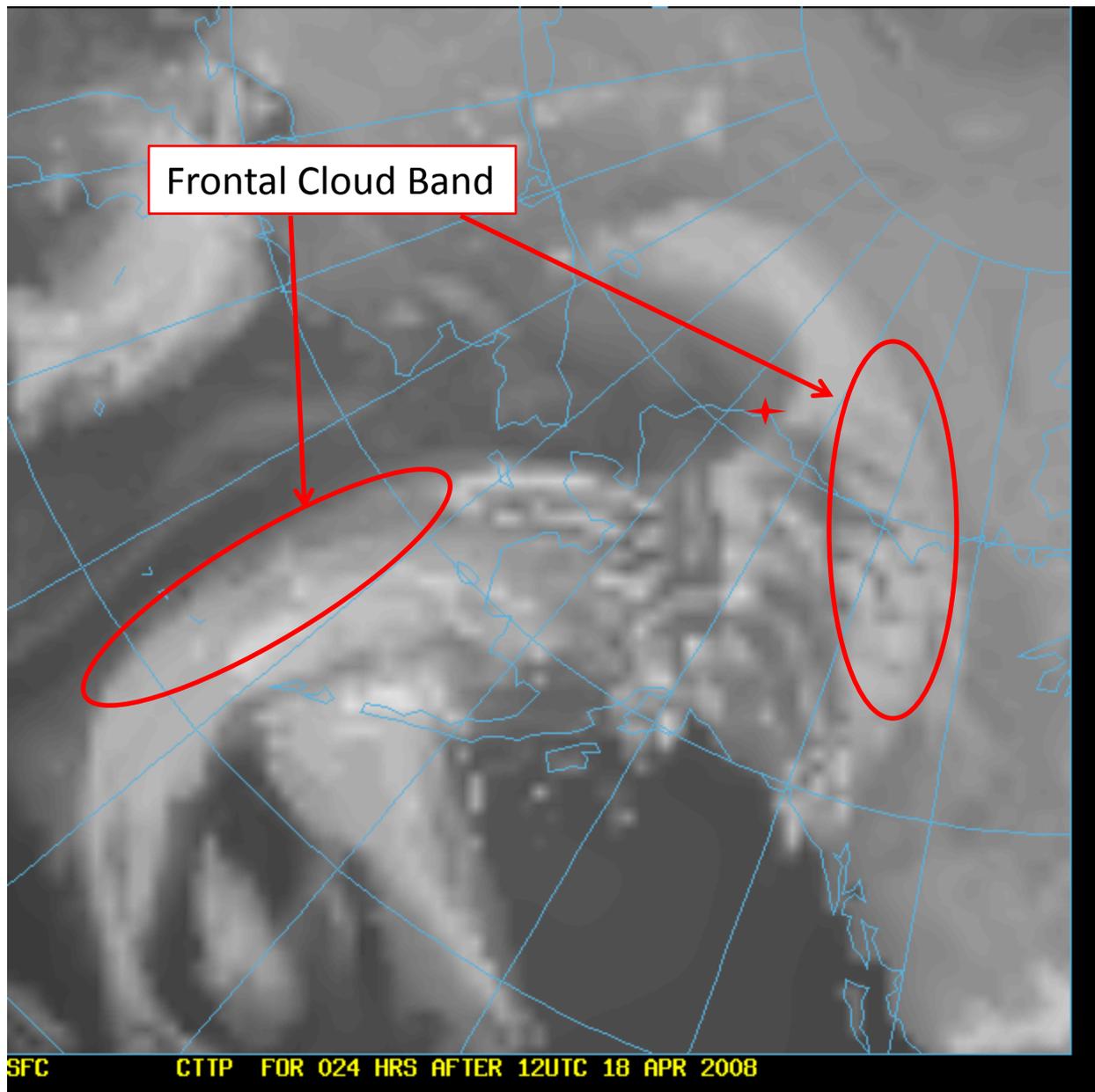
00Z 04/19-00Z 04/22

Initialized 12Z 04/17

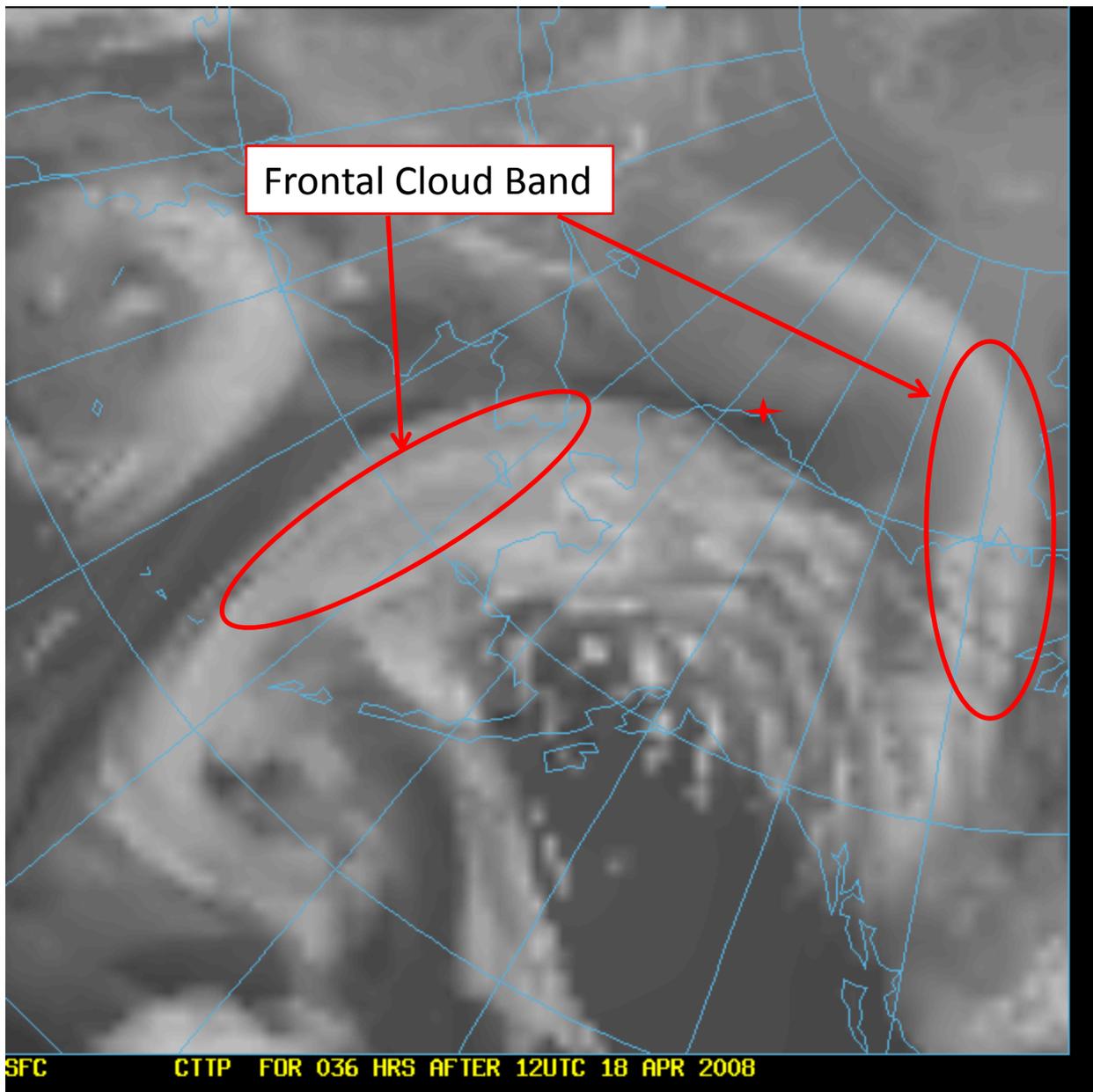
CRAS 6.11 micron (Vis) FX Valid 00Z 04/19/08



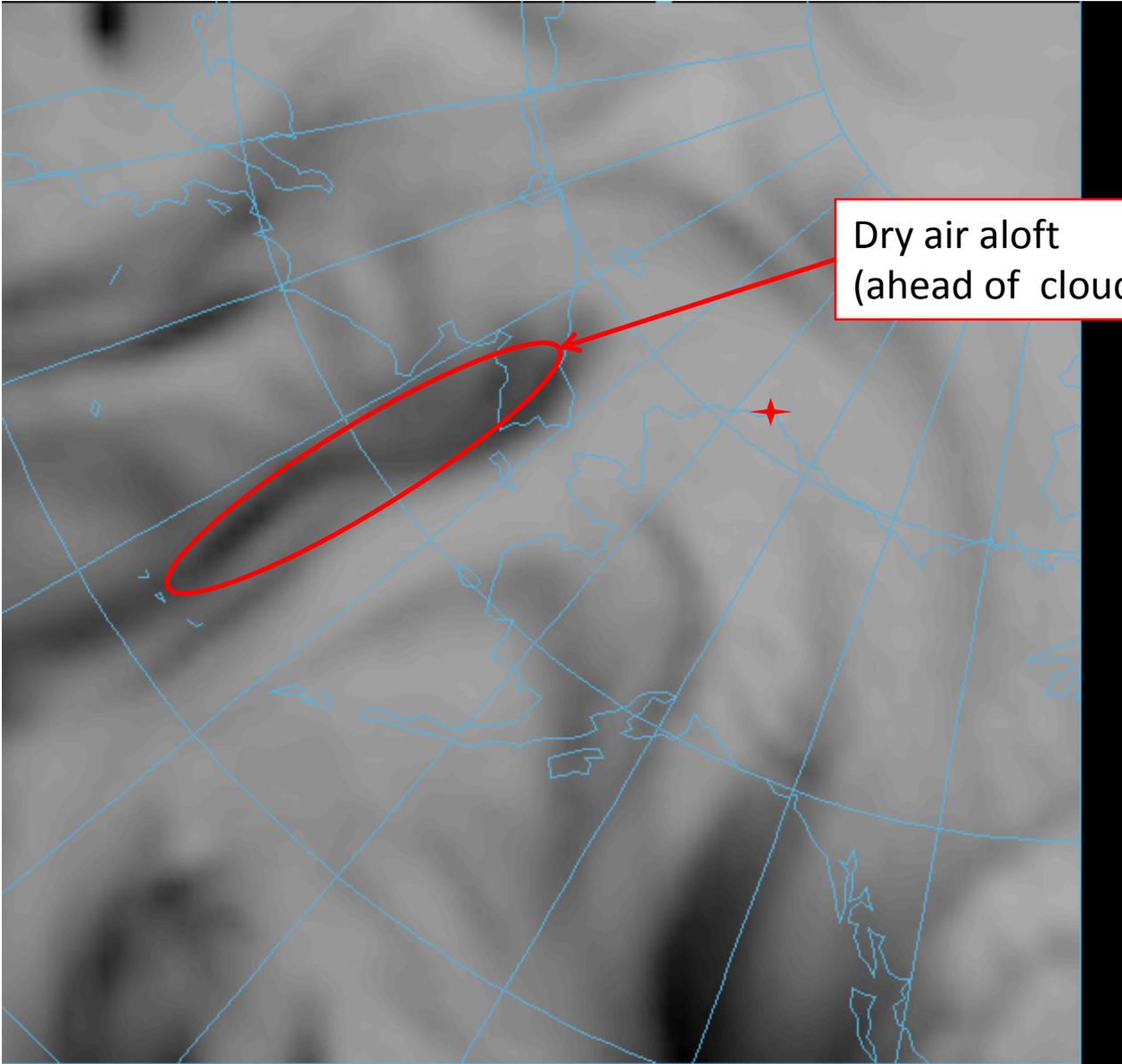
CRAS 6.11 micron (Vis) FX Valid 12Z 04/19/08



CRAS 6.11 micron (Vis) FX Valid 00Z 04/20/08

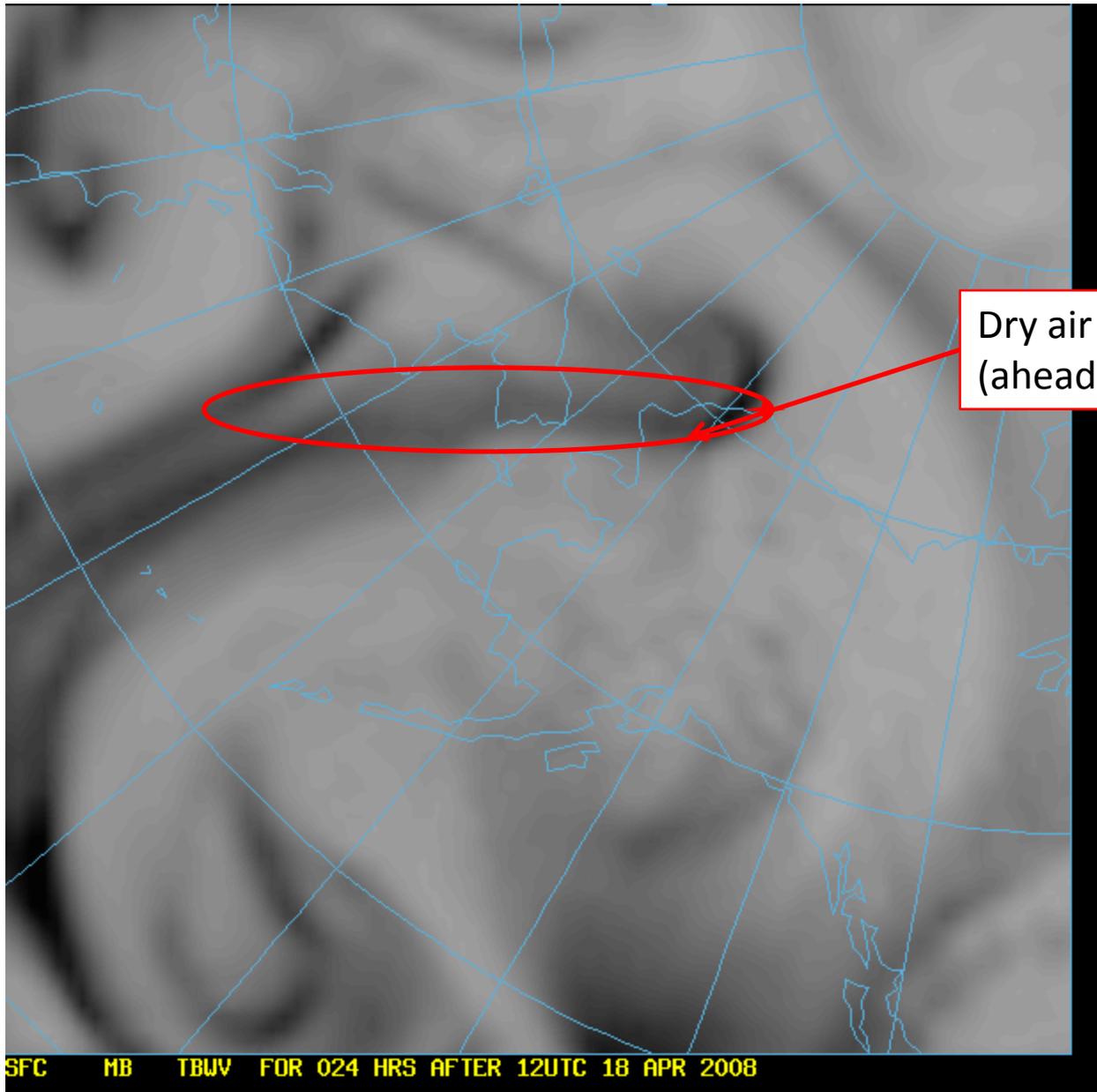


CRAS 6.7micron (WV) FX valid 00Z 04/19/04



Dry air aloft
(ahead of cloud band)

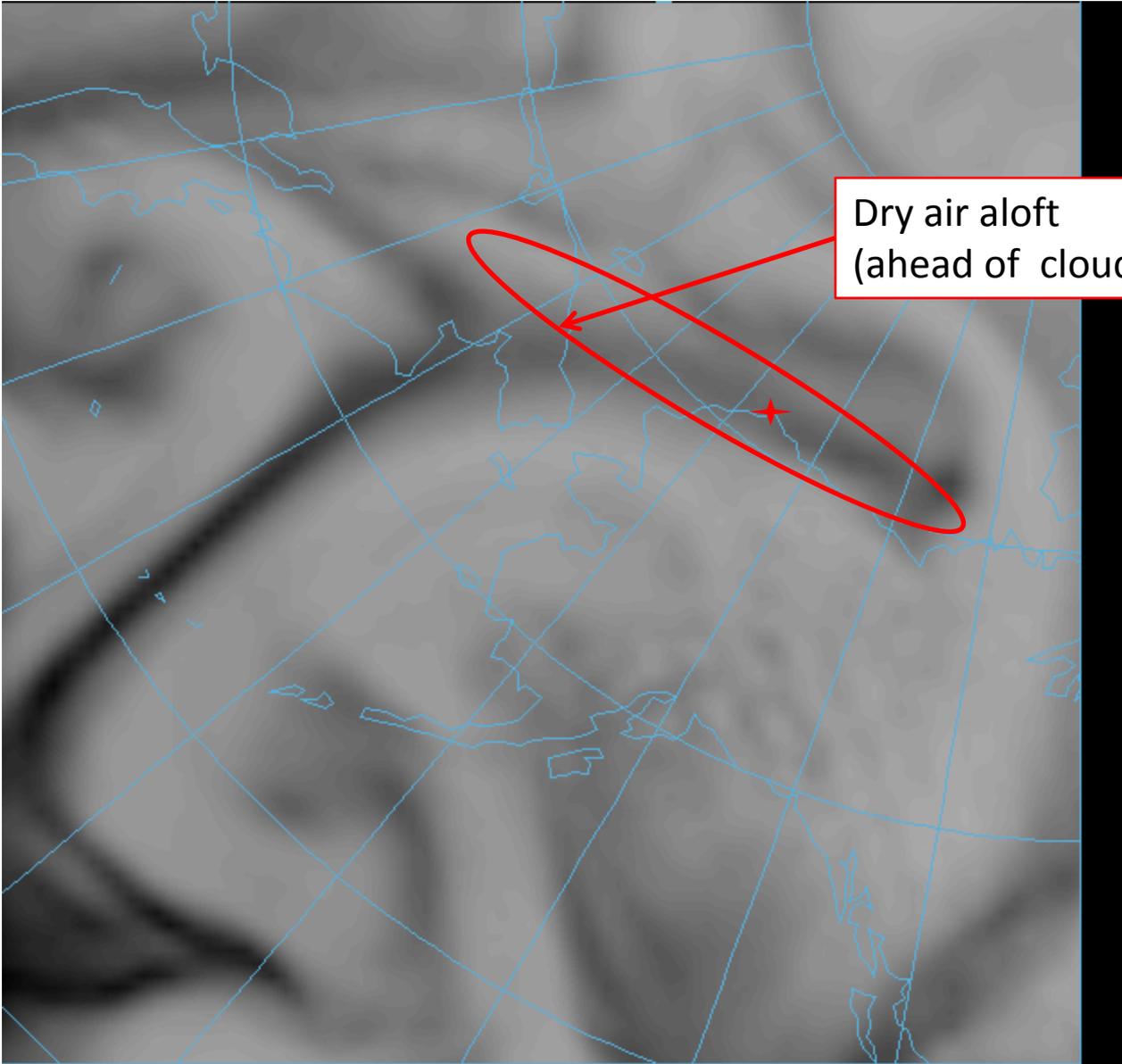
CRAS 6.7micron (WV) FX valid 12Z 04/19/04



Dry air aloft
(ahead of cloud band)

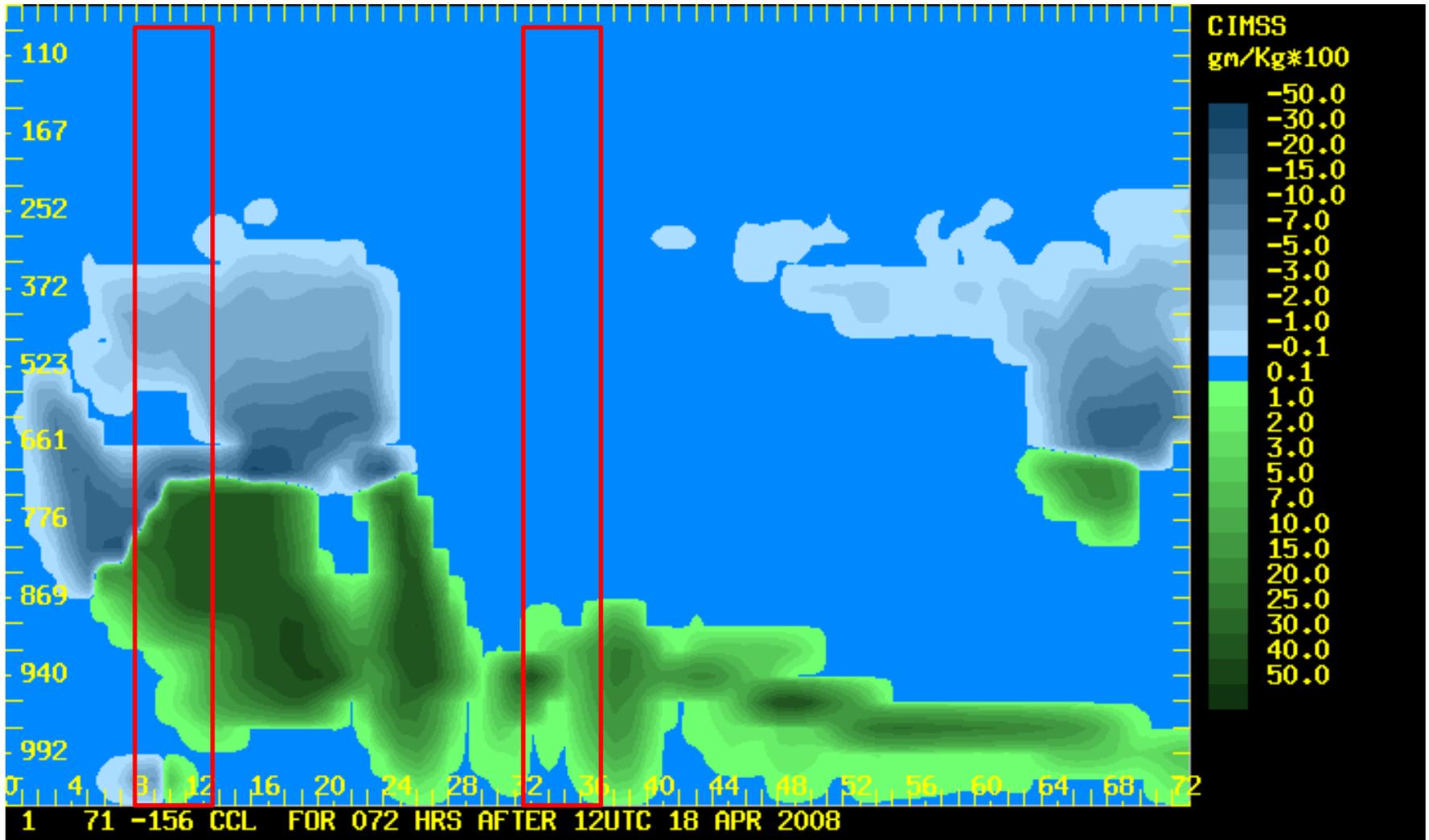
SFC MB TBWV FOR 024 HRS AFTER 12UTC 18 APR 2008

CRAS 6.7micron (WV) FX valid 00Z 04/20/04



Dry air aloft
(ahead of cloud band)

CRAS Barrow CLD FX initialized 12Z 04/18/04 (Friday)



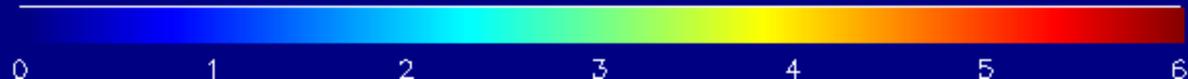
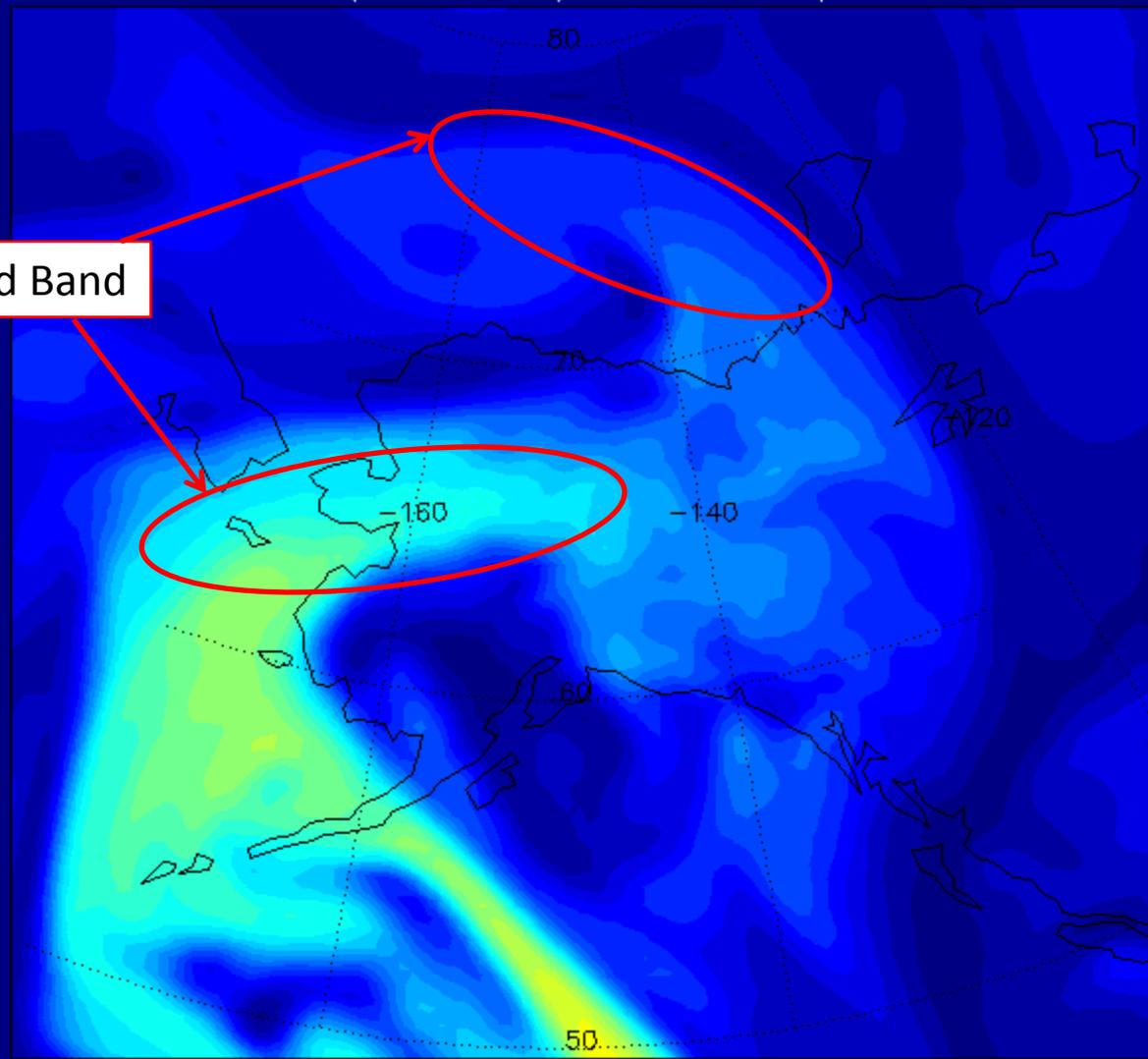
20-24Z 04/18/08 (Friday)

20-24Z 04/19/08 (Saturday)

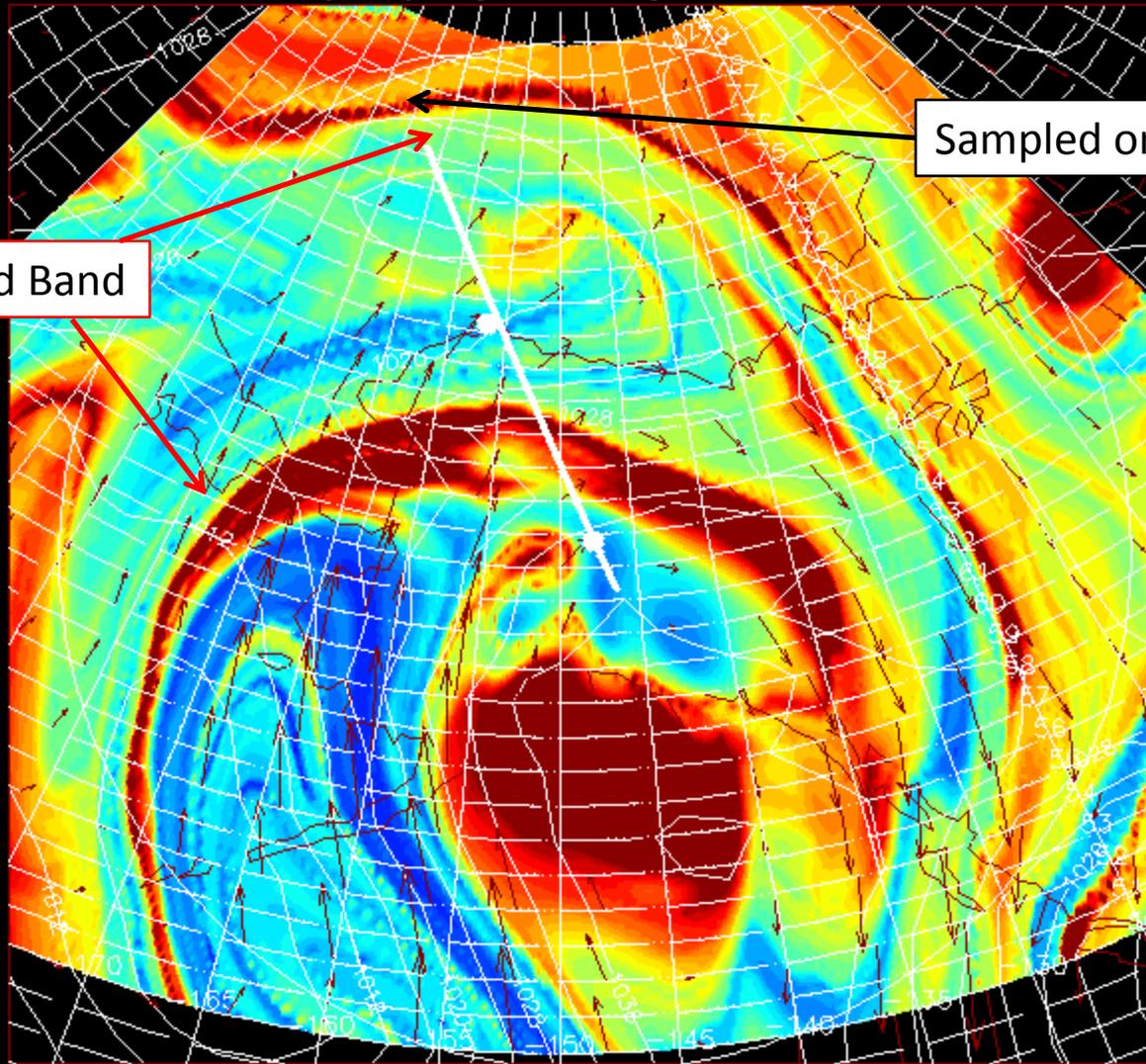
GFS 3km Q 00Z 20080420

(Pressure Contoured/SFC Intersection Dashed)

Frontal Cloud Band



3km 5-day Lagrangian Averaged SO₄ 2008042000



Frontal Cloud Band

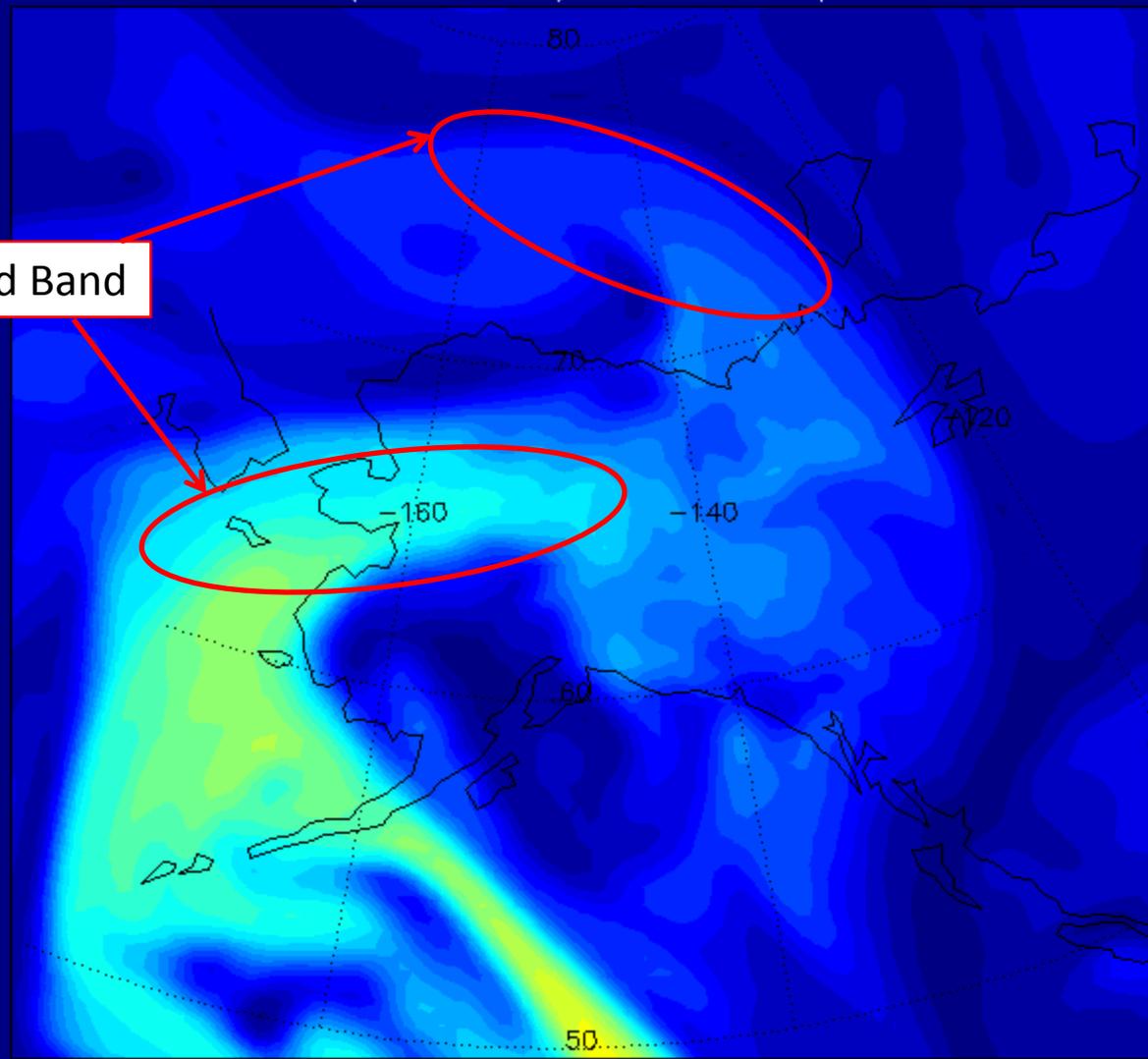
Sampled on 04/18



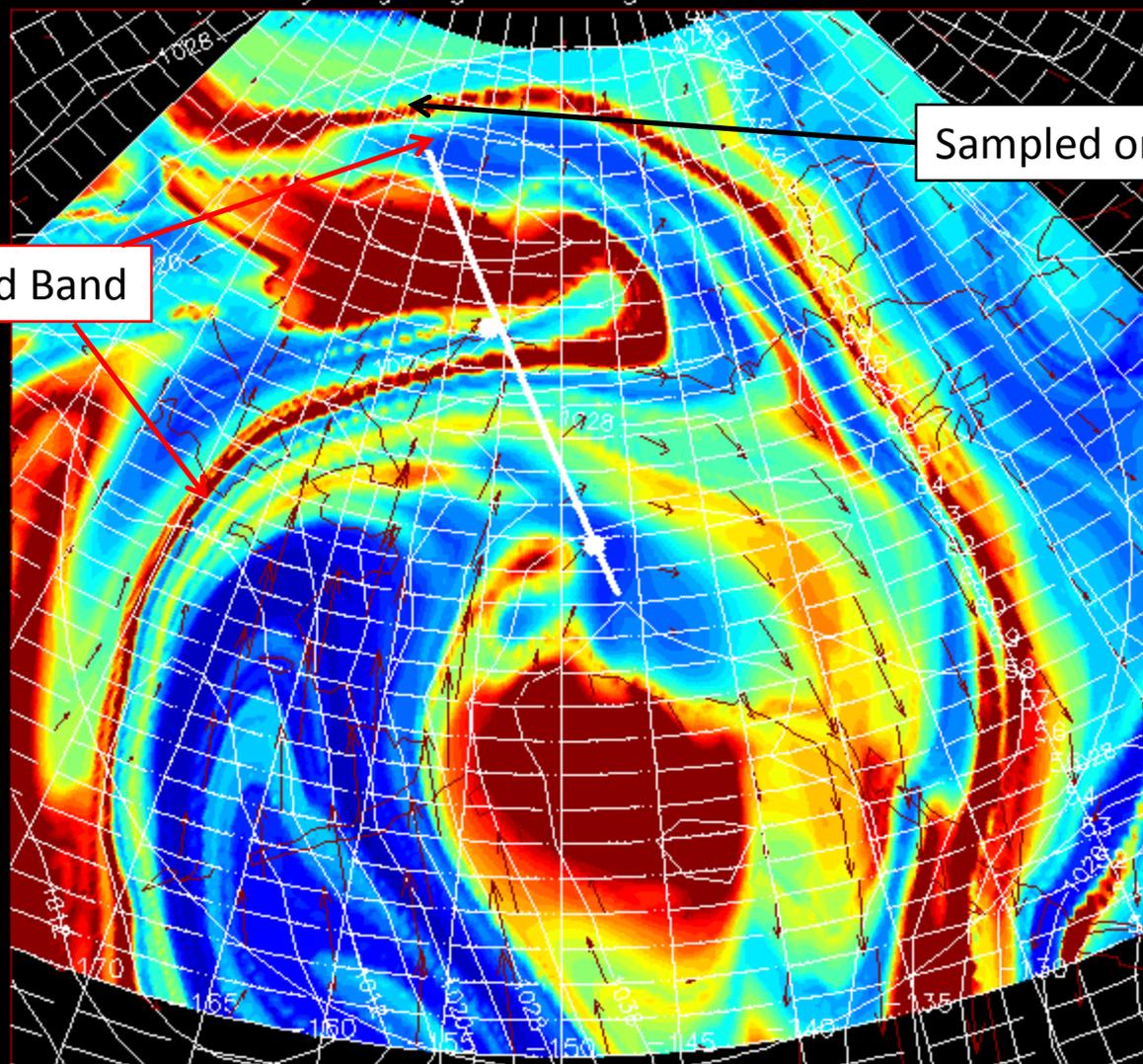
GFS 3km Q 00Z 20080420

(Pressure Contoured/SFC Intersection Dashed)

Frontal Cloud Band



3km 5-day Lagrangian Averaged BC+OC 2008042000

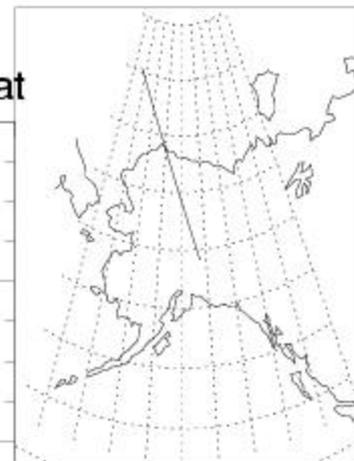
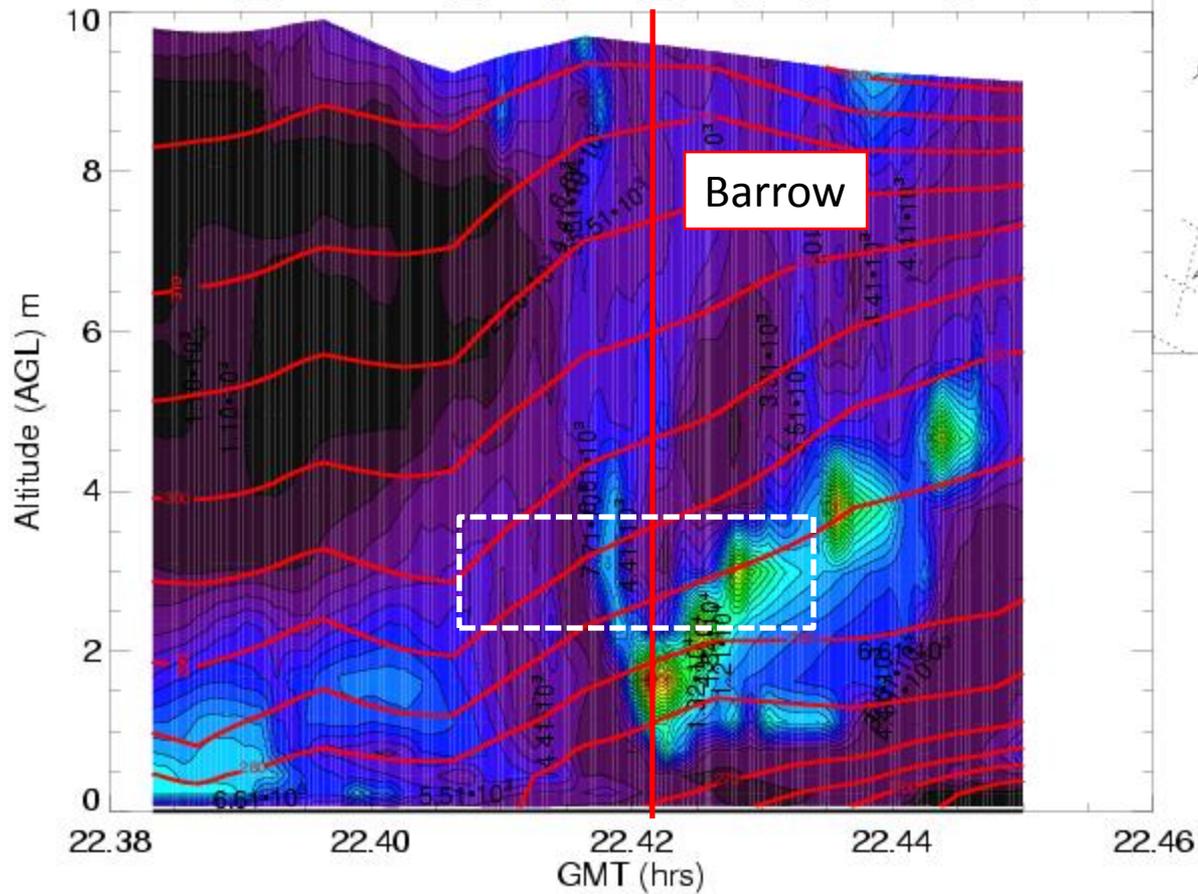


Sampled on 04/18

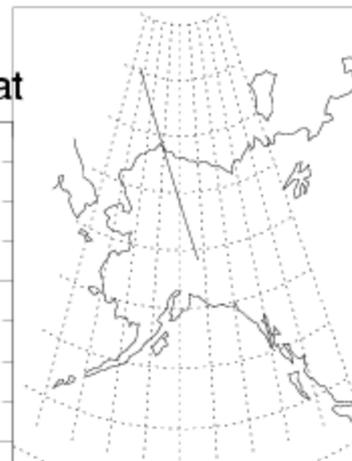
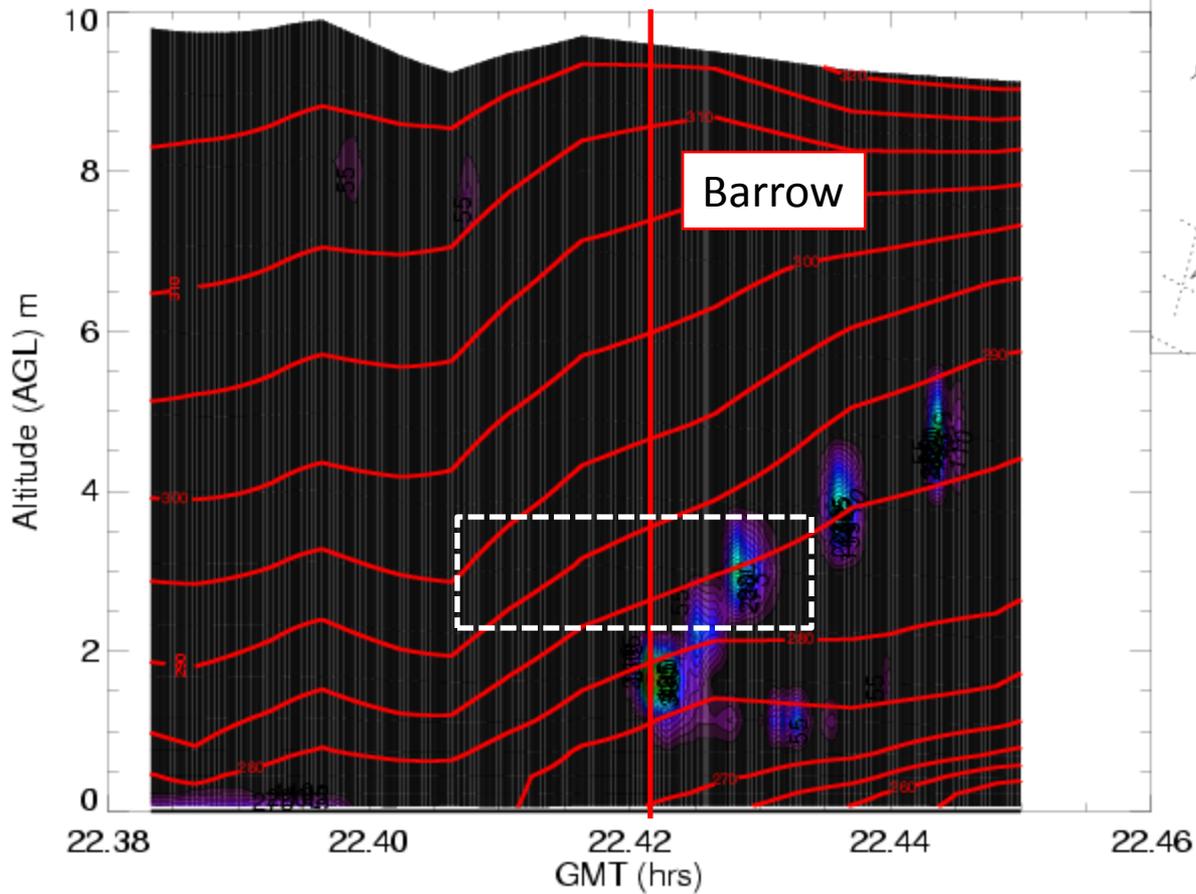
Frontal Cloud Band



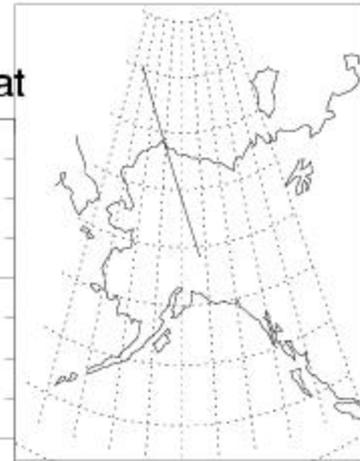
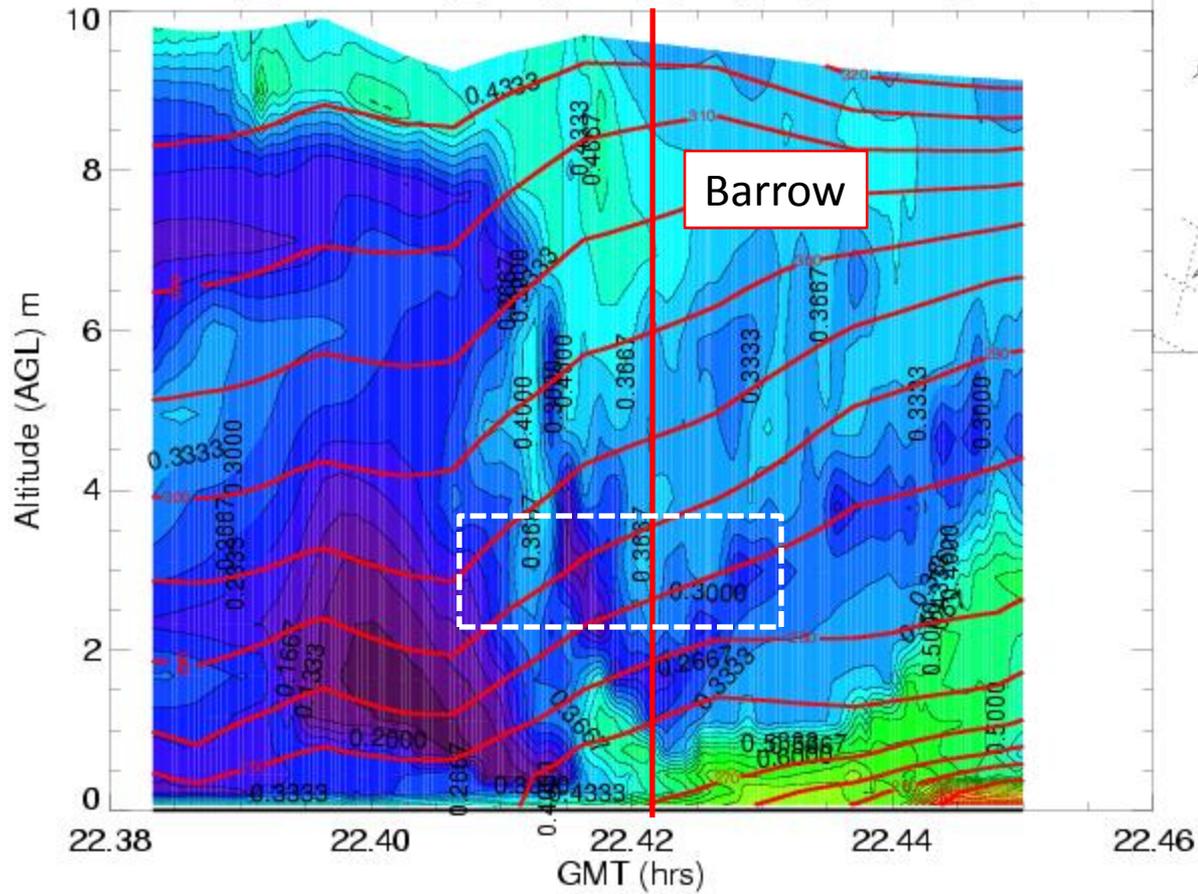
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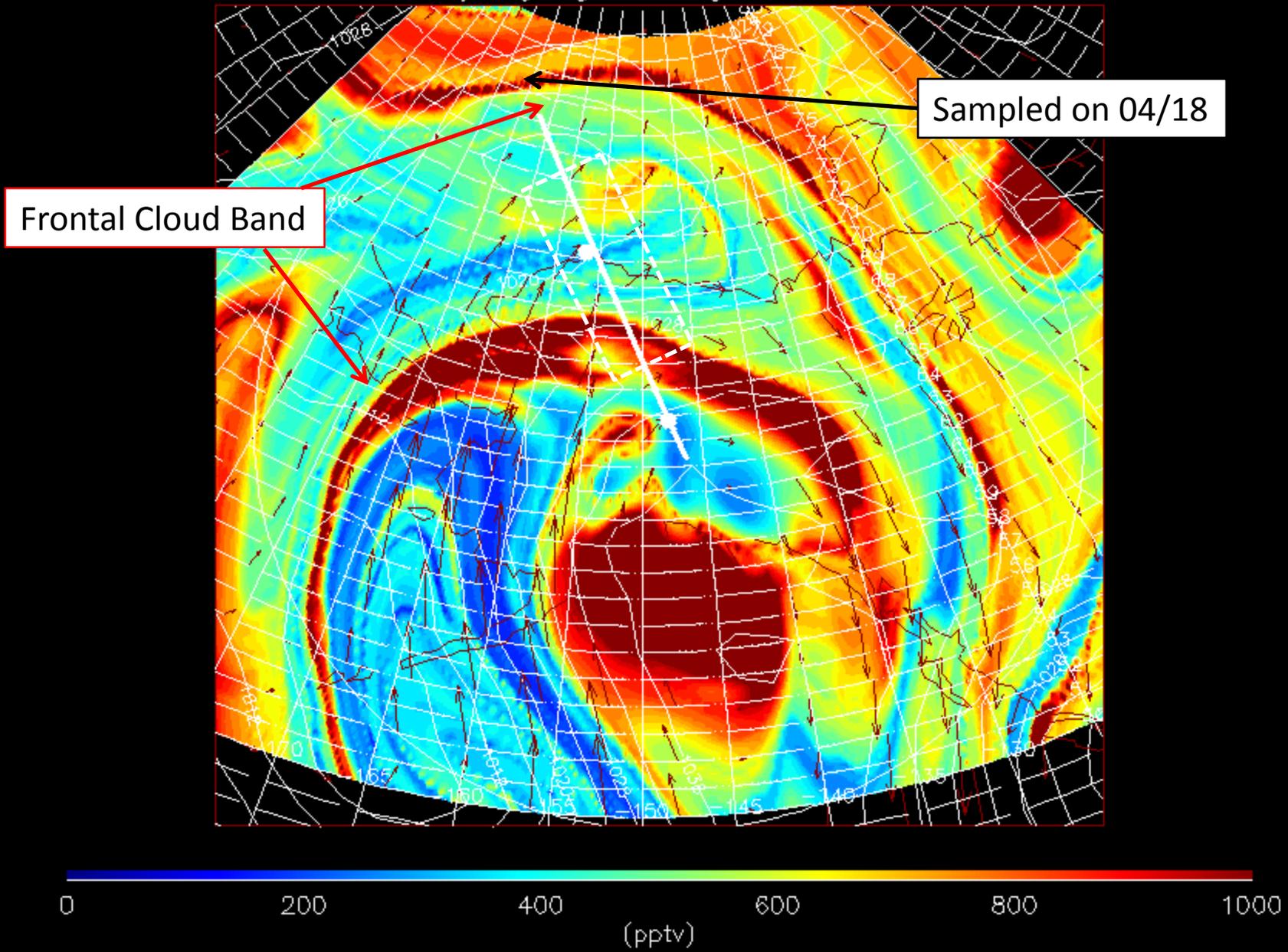
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60hr FX ipannoy CI= 0.0333333 max= 0.931671
RAQMS_20080420_00Z_60hr_fcst_rdf_curtain_arcpac.dat



3km 5-day Lagrangian Averaged SO₄ 2008042000



3km 5-day Lagrangian Averaged BC+OC 2008042000

Frontal Cloud Band

