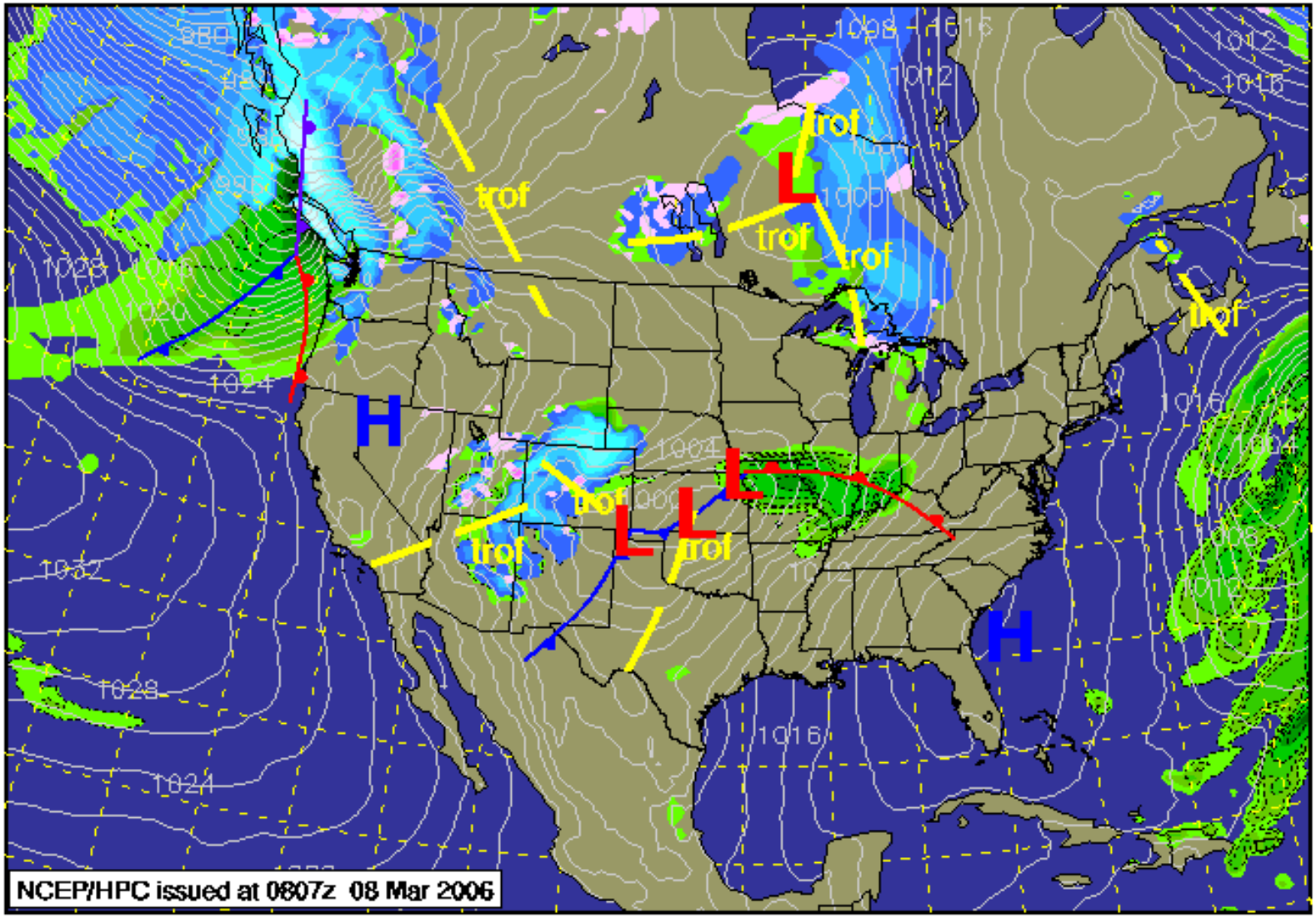
Current Conditions

8 March 2006

Henry Fuelberg
Geoffrey Stano

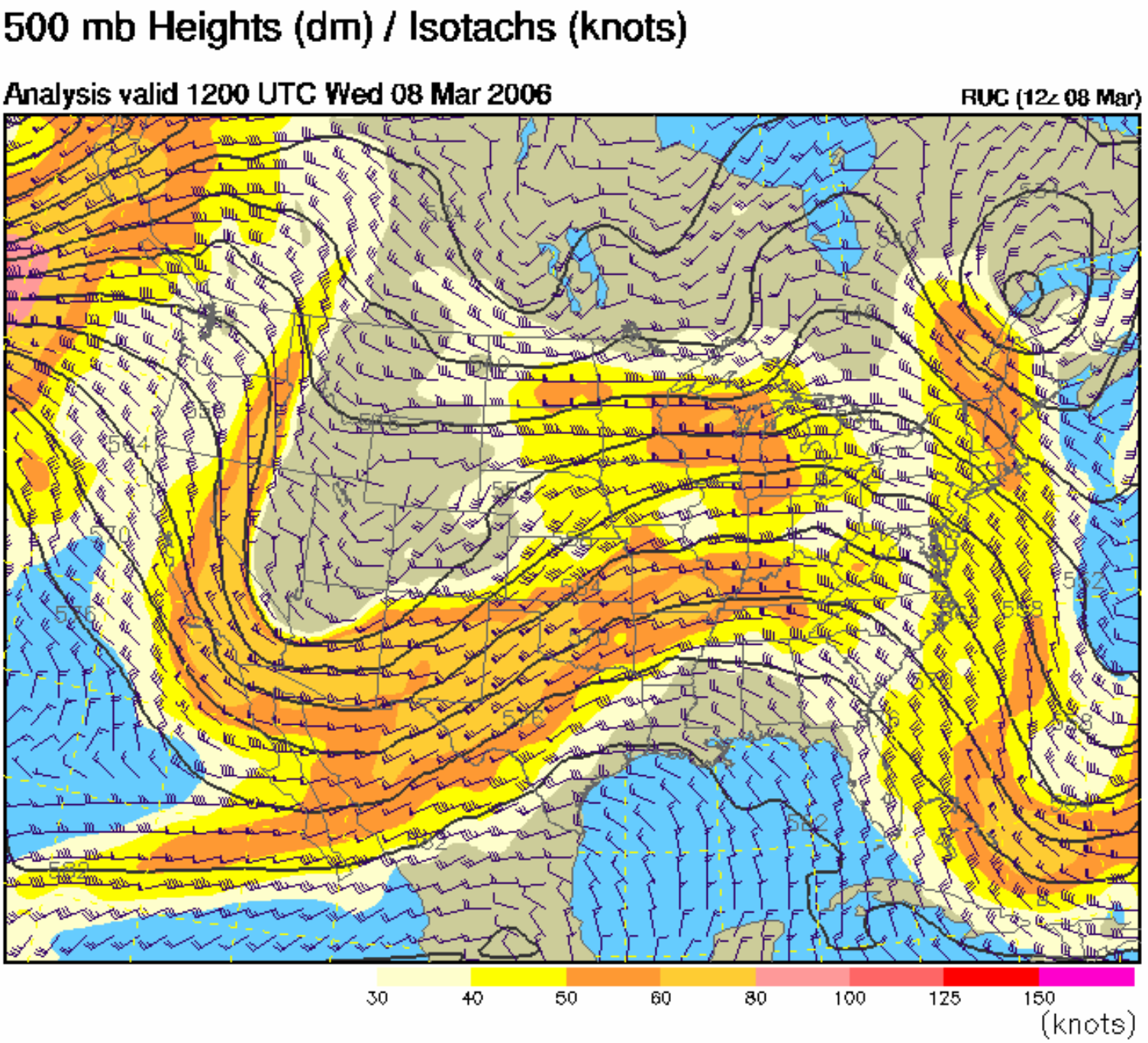
"Your Eyes to the Skies"

12 hr forecast valid 1800 UTC Wed 08 Mar 2006

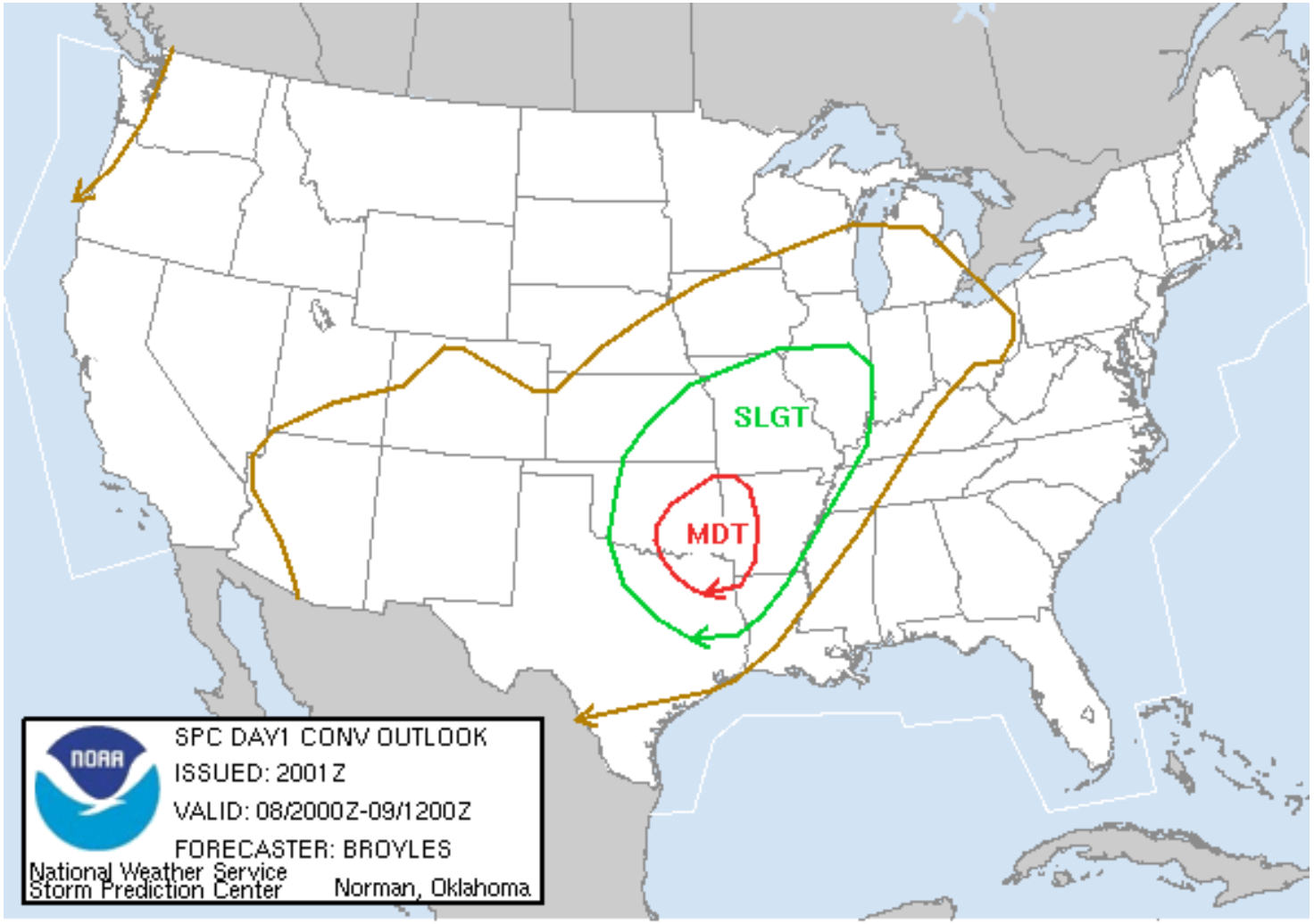


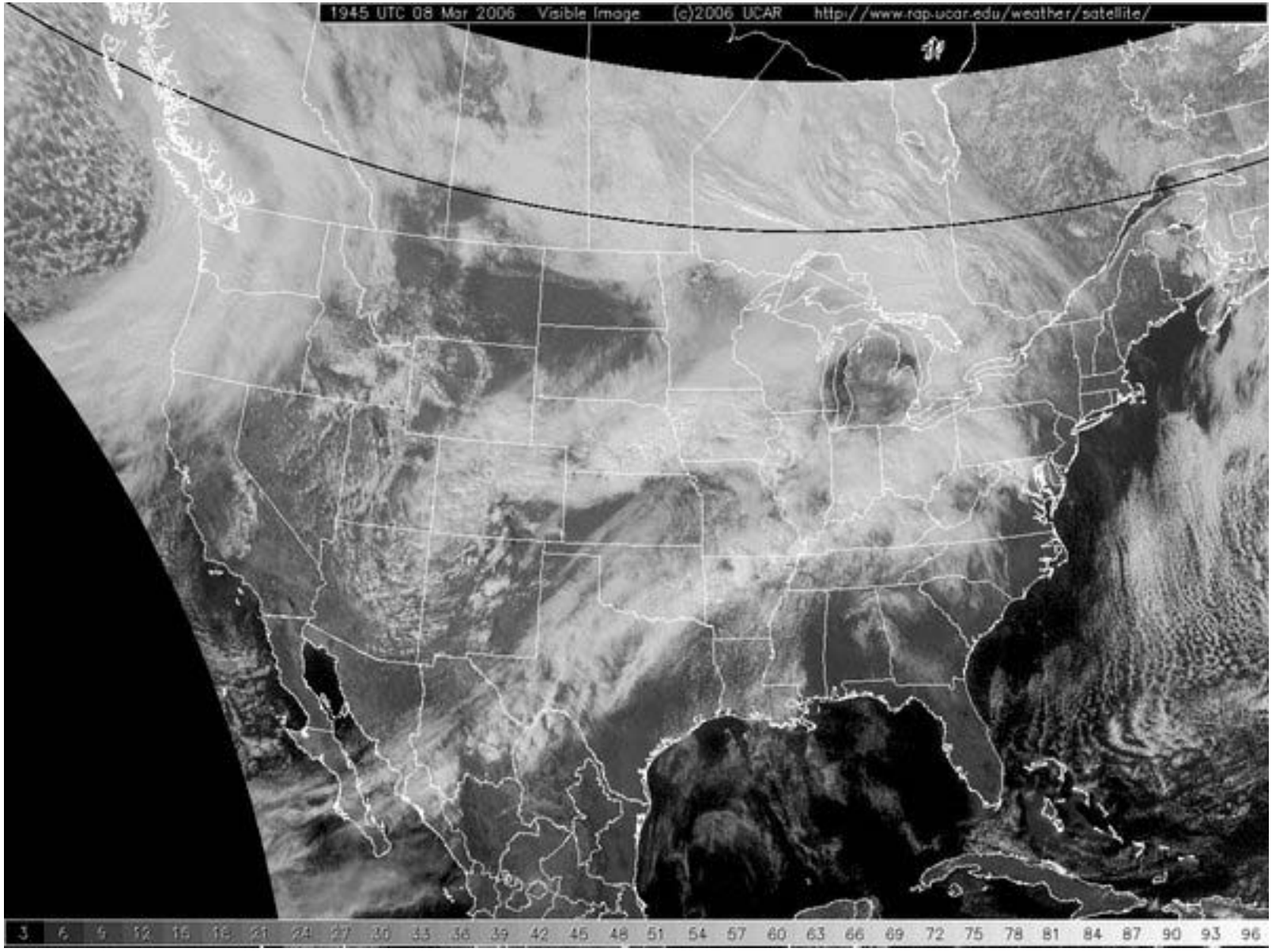
Rain Snow Wintry mix

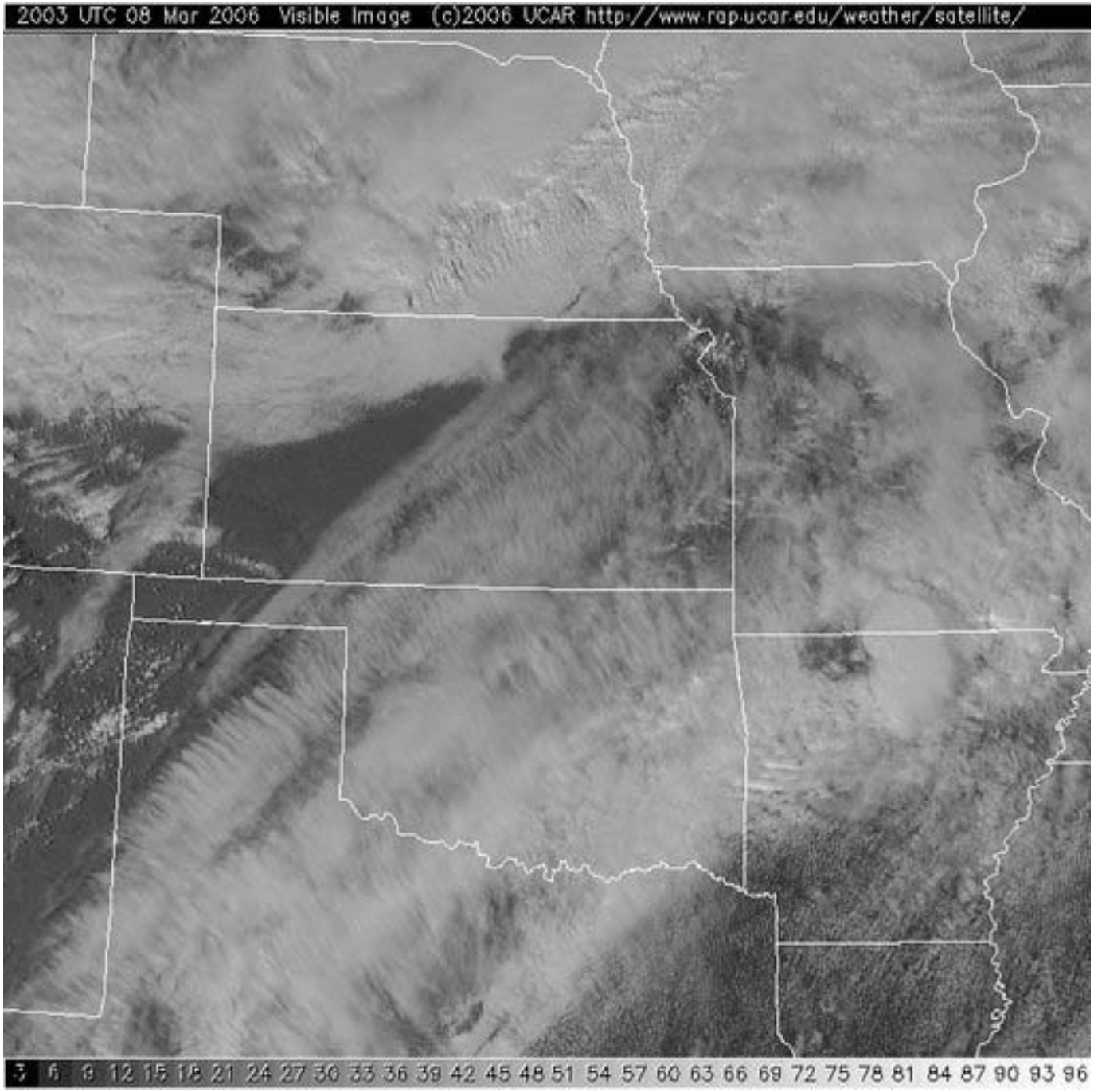
Current 500 mb

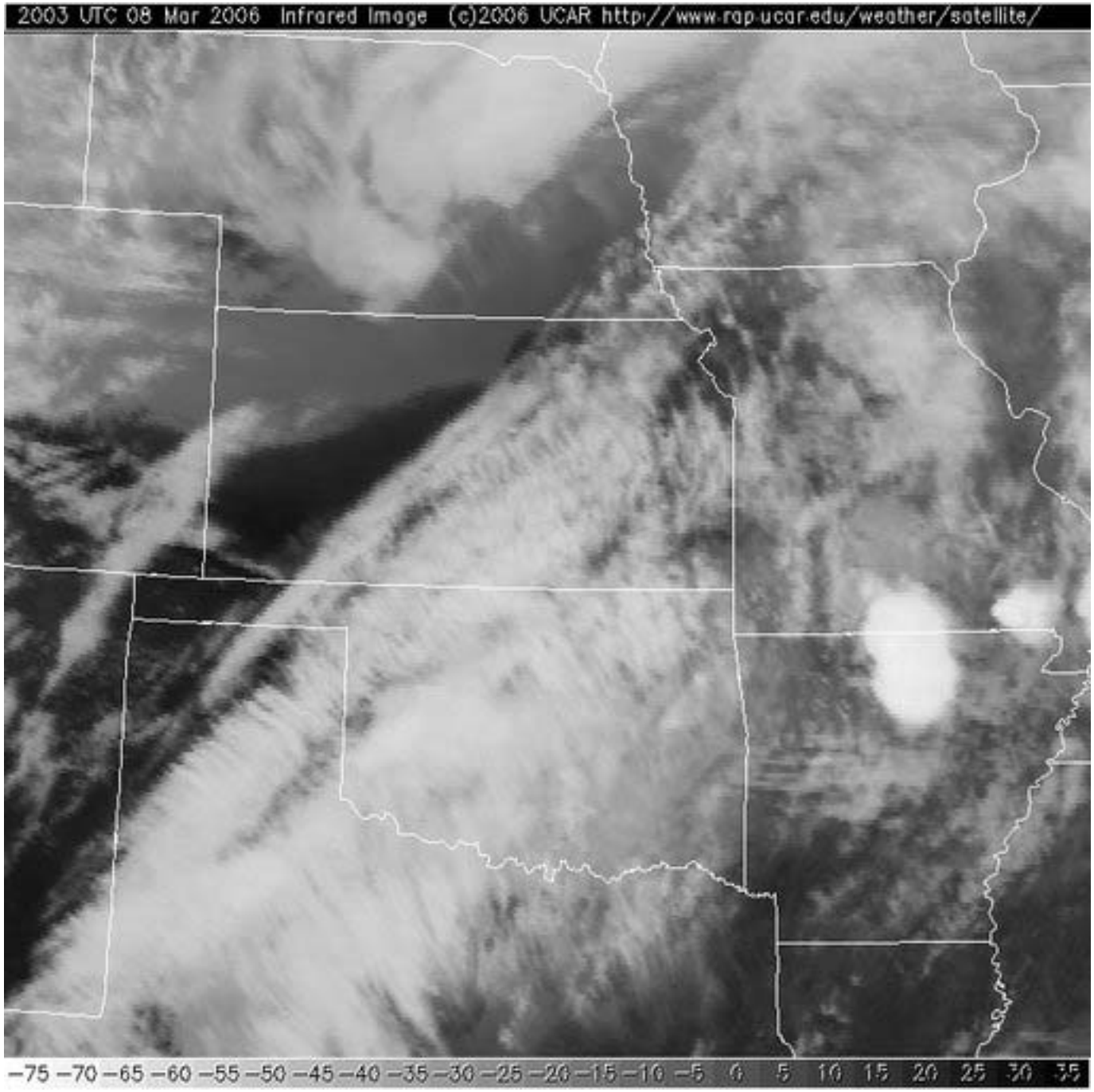


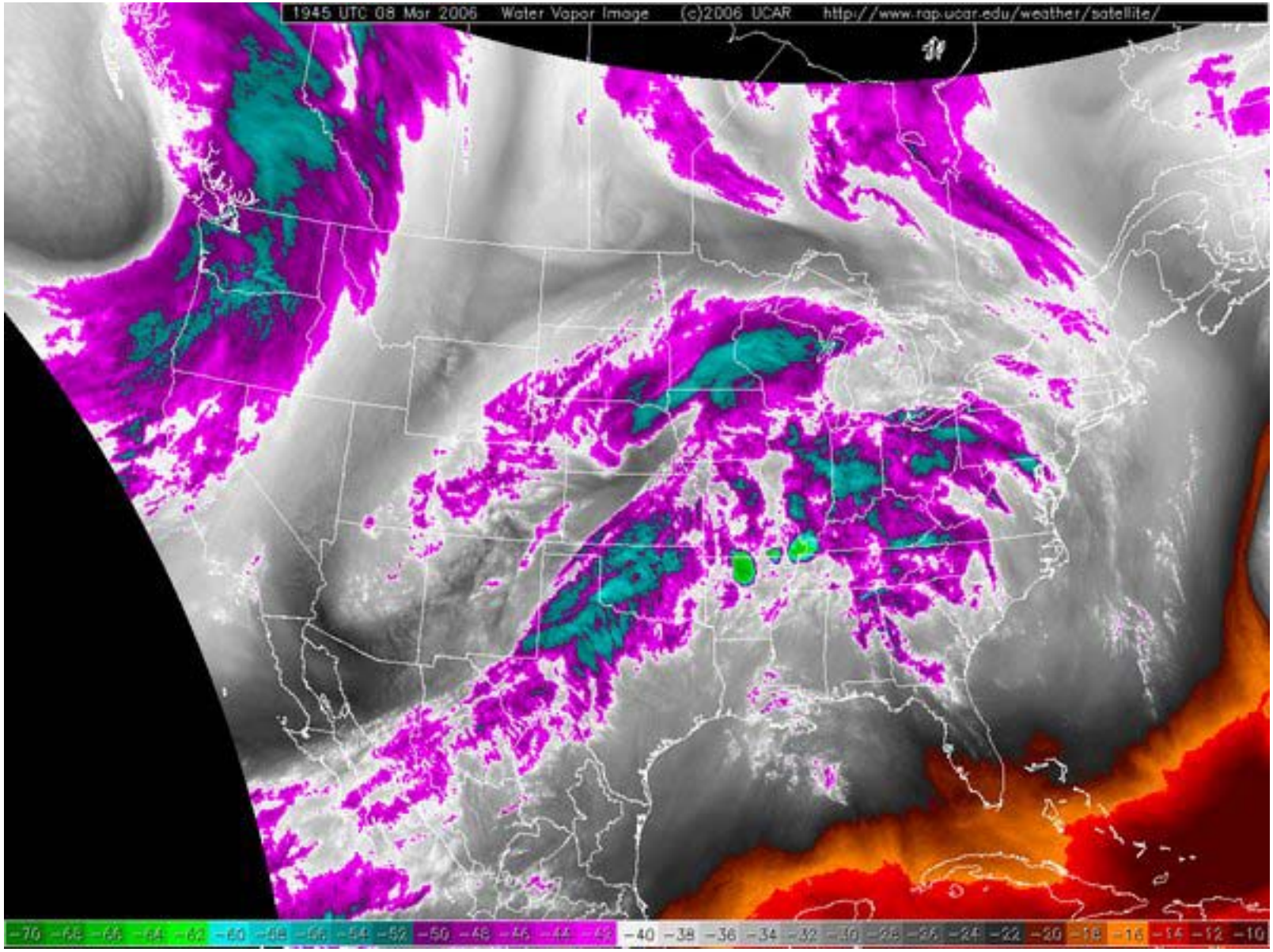
Wednesday SPC Forecast




1945 UTC 08 Mar 2006 Visible Image (c)2006 UCAR http://www.rap.ucar.edu/weather/satellite/
3 6 9 12 15 18 21 24 27 30 33 36 39 42 45 48 51 54 57 60 63 66 69 72 75 78 81 84 87 90 93 96

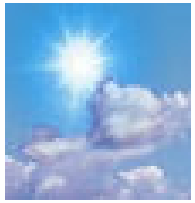

2003 UTC 08 Mar 2006 Visible Image (c)2006 UCAR http://www.rap.ucar.edu/weather/satellite/
3 6 9 12 15 18 21 24 27 30 33 36 39 42 45 48 51 54 57 60 63 66 69 72 75 78 81 84 87 90 93 96


2003 UTC 08 Mar 2006 Infrared Image (c)2006 UCAR http://www.rap.ucar.edu/weather/satellite/
-75 -70 -65 -60 -55 -50 -45 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35

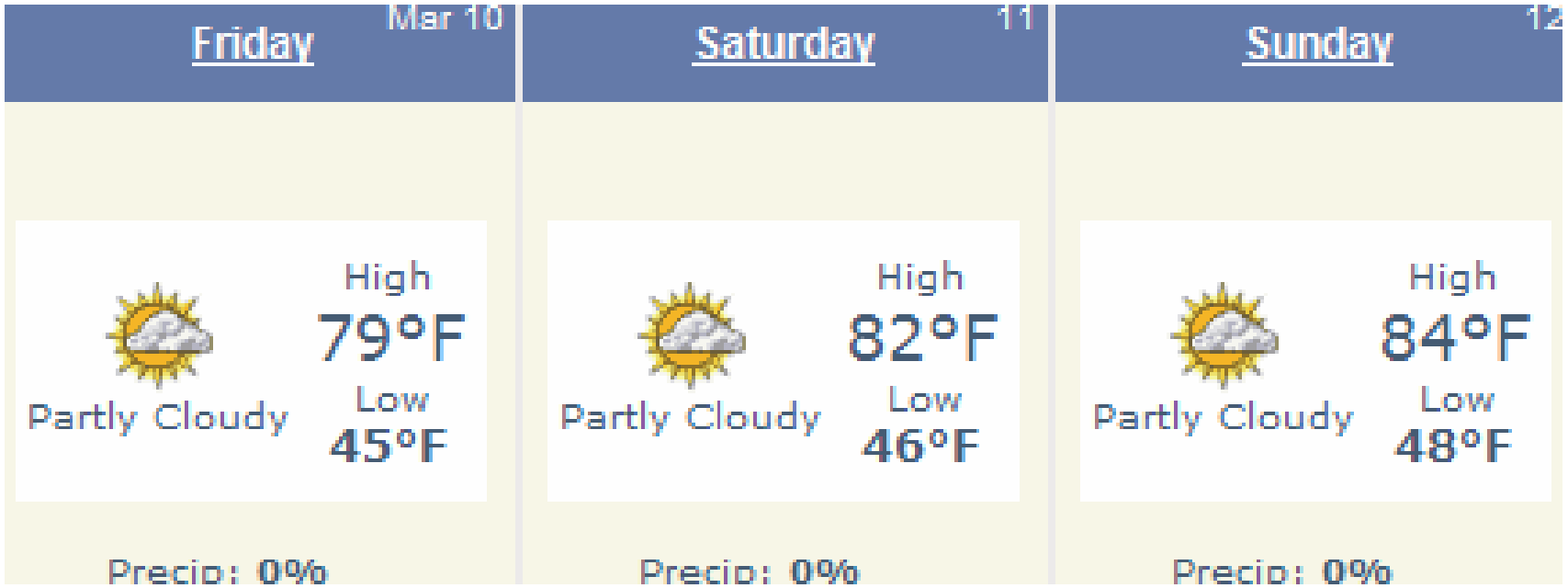

1945 UTC 08 Mar 2006 Water Vapor Image (c)2006 UCAR http://www.rap.ucar.edu/weather/satellite/
-70 -68 -66 -64 -62 -60 -58 -56 -54 -52 -50 -48 -46 -44 -42 -40 -38 -36 -34 -32 -30 -28 -26 -24 -22 -20 -18 -16 -14 -12 -10

Houston Forecast

This Afternoon	Tonight	Thursday	Thursday Night
Windy	Chance Tstms	Chance Tstms	Mostly Clear
Hi 81°F	Lo 64°F	Hi 83°F	Lo 54°F

Friday	Friday Night	Saturday	Saturday Night	Sunday
				
Partly Cloudy	Mostly Cloudy	Slight Chc Tstms	Slight Chc Tstms	Slight Chc Tstms
Hi 80°F	Lo 63°F	Hi 81°F	Lo 63°F	Hi 81°F

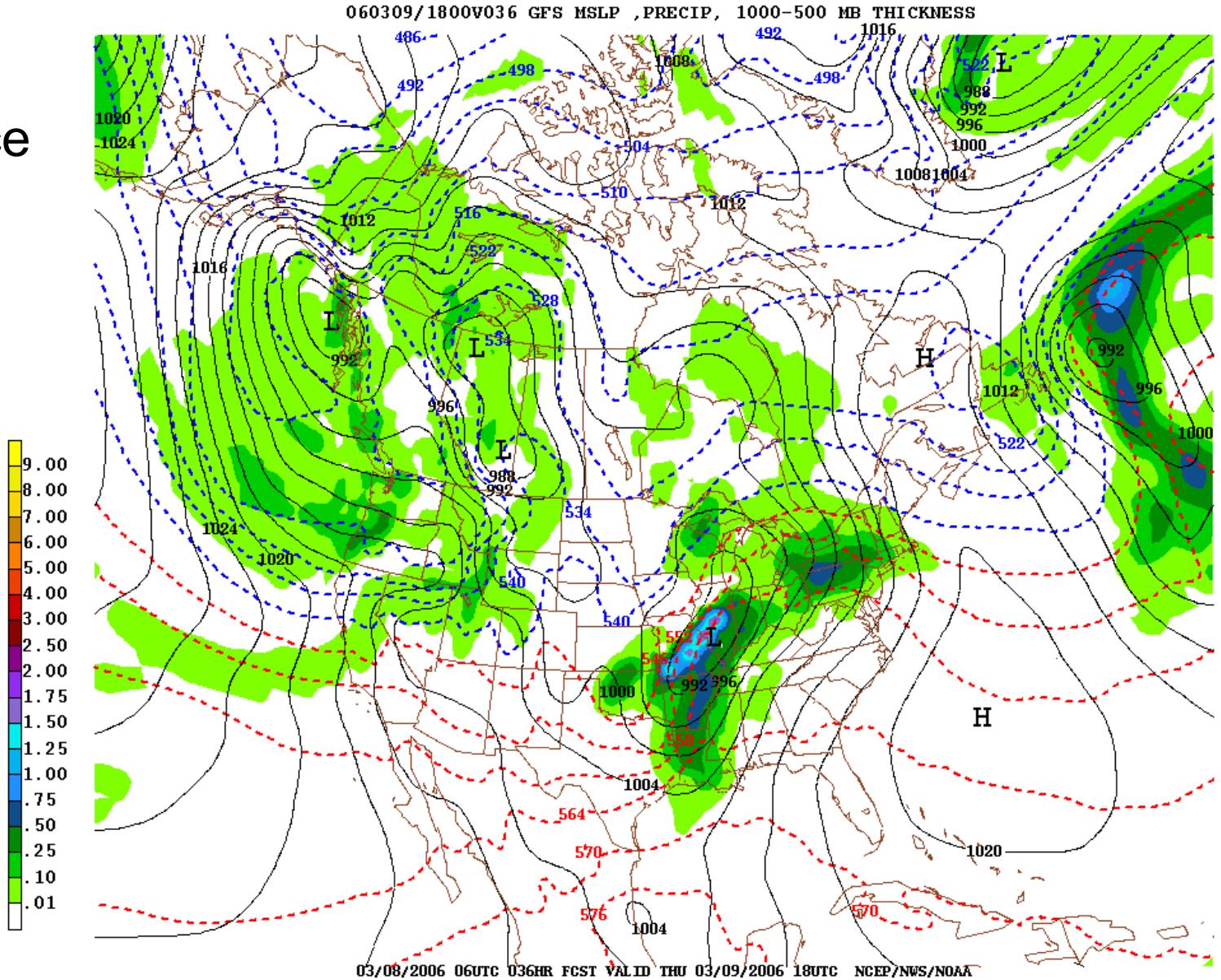
Mexico City Forecast



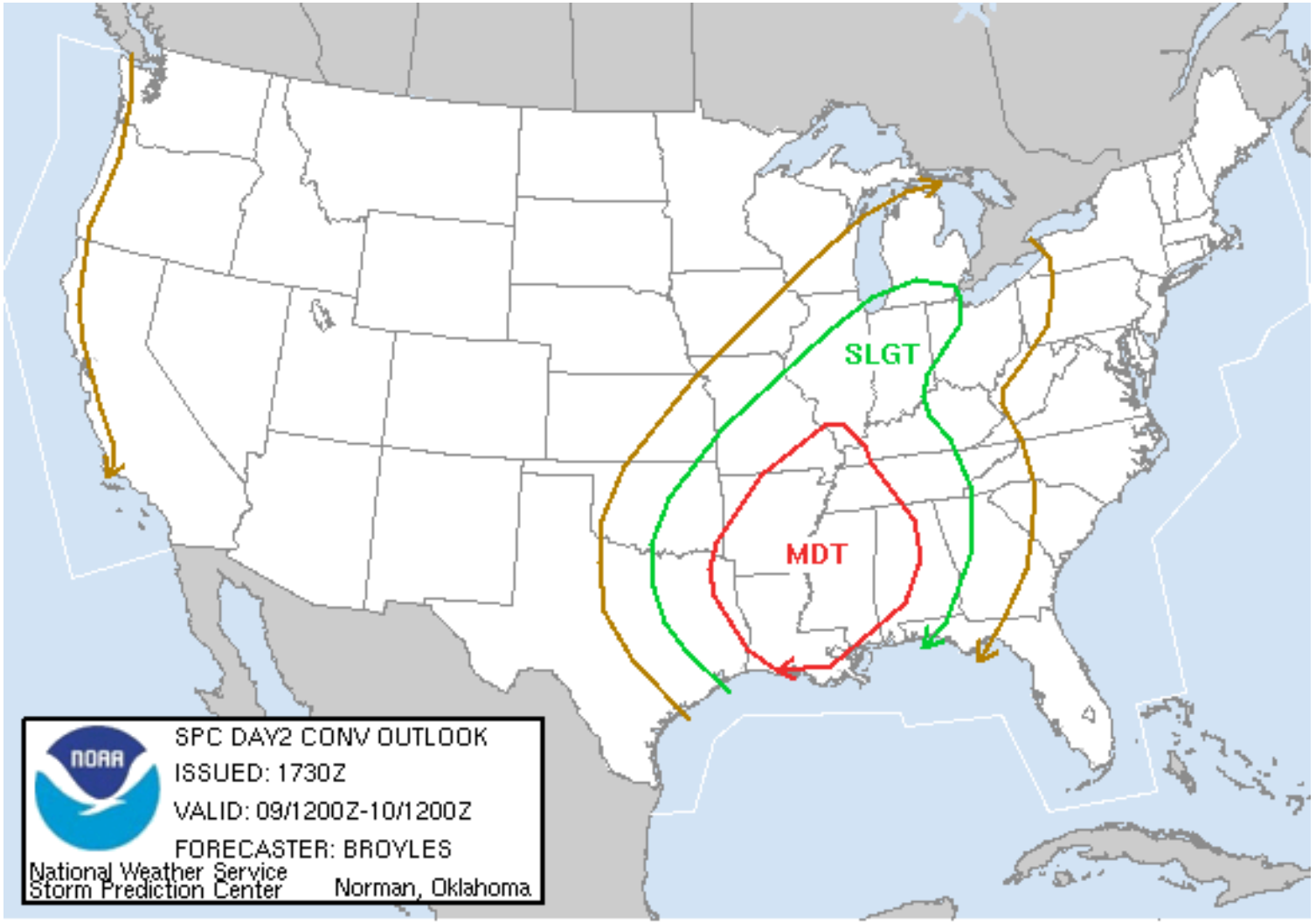
Thursday Forecast

9 March 2006

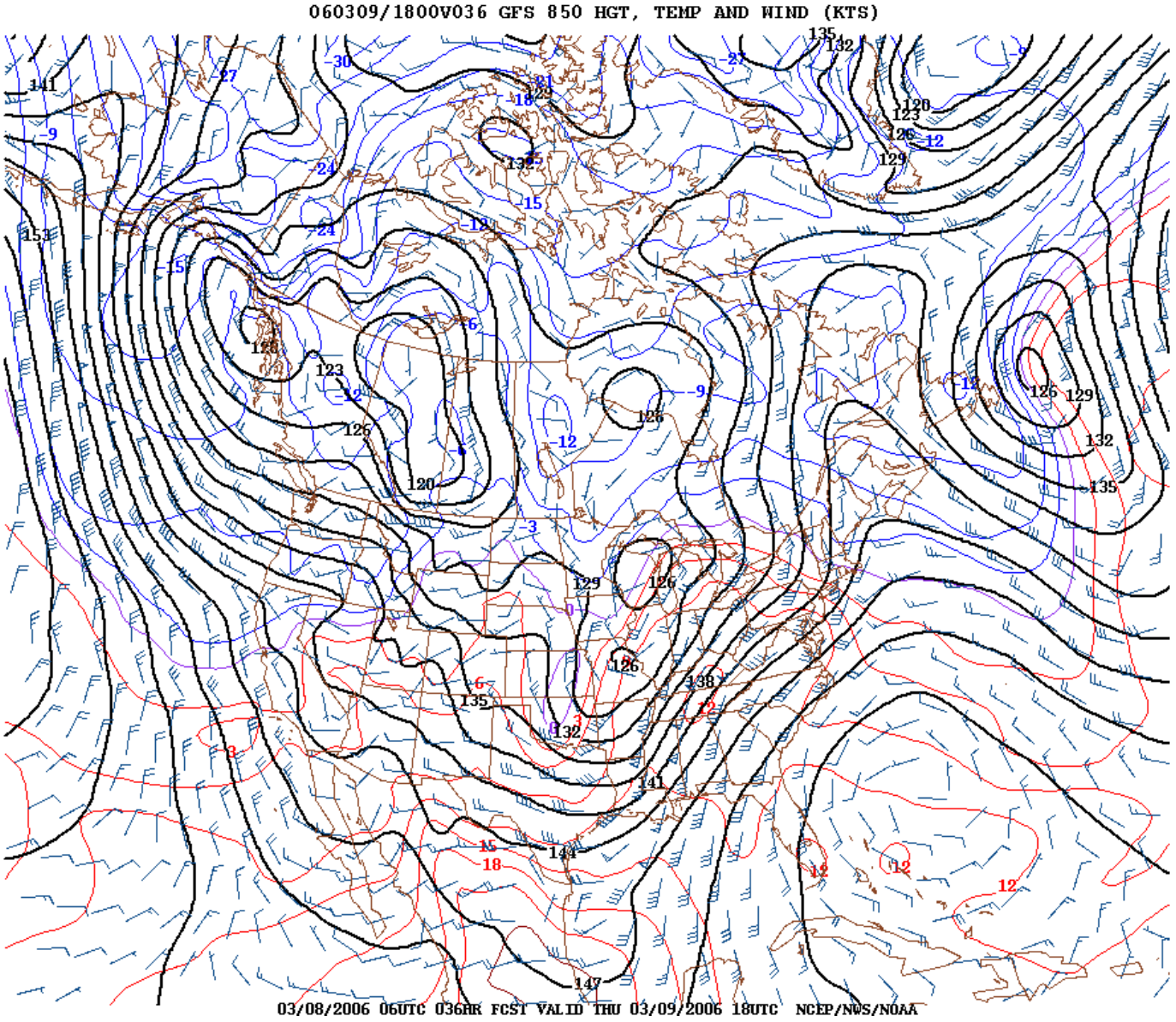
Thurs. Surface



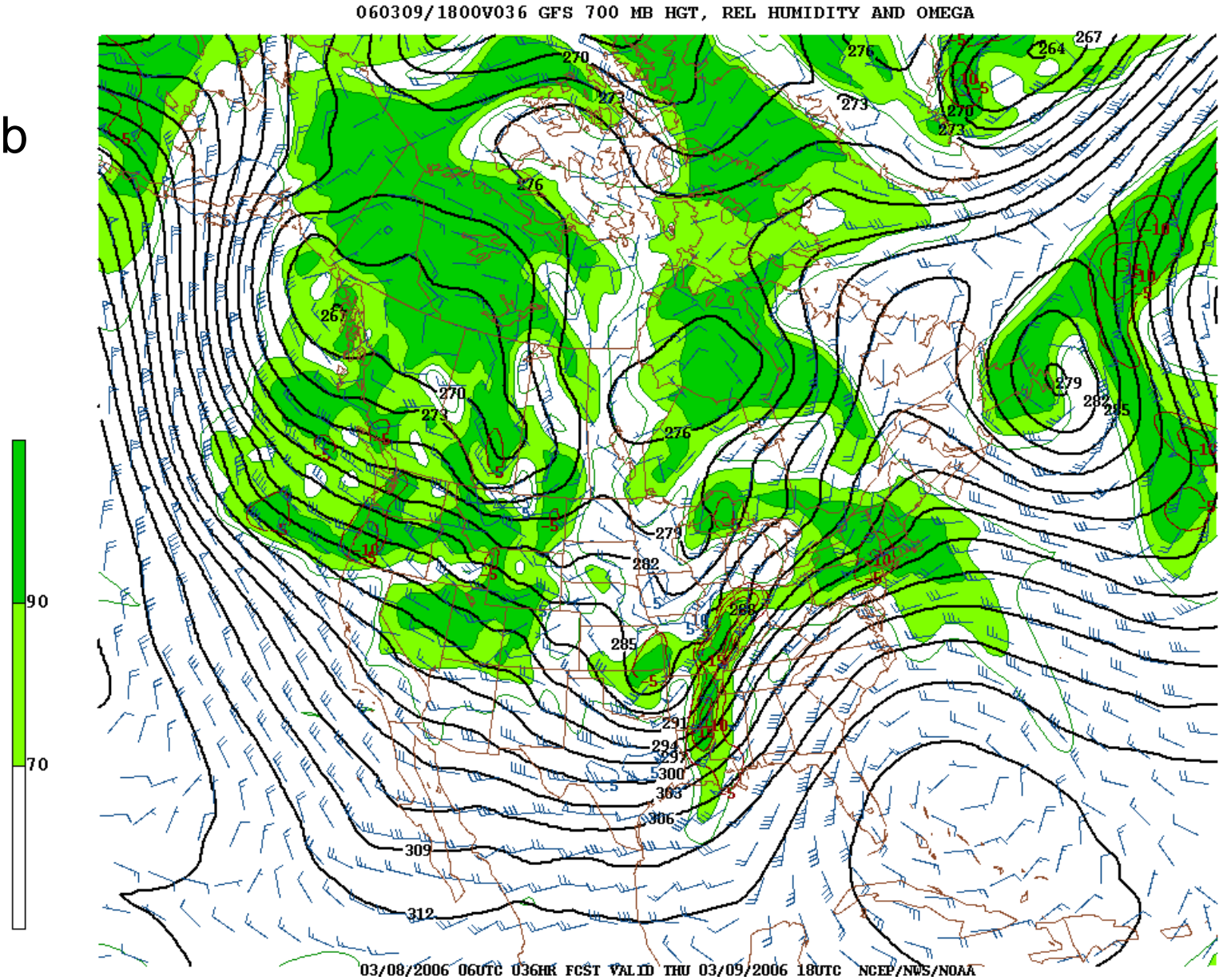
Thursday SPC Forecast



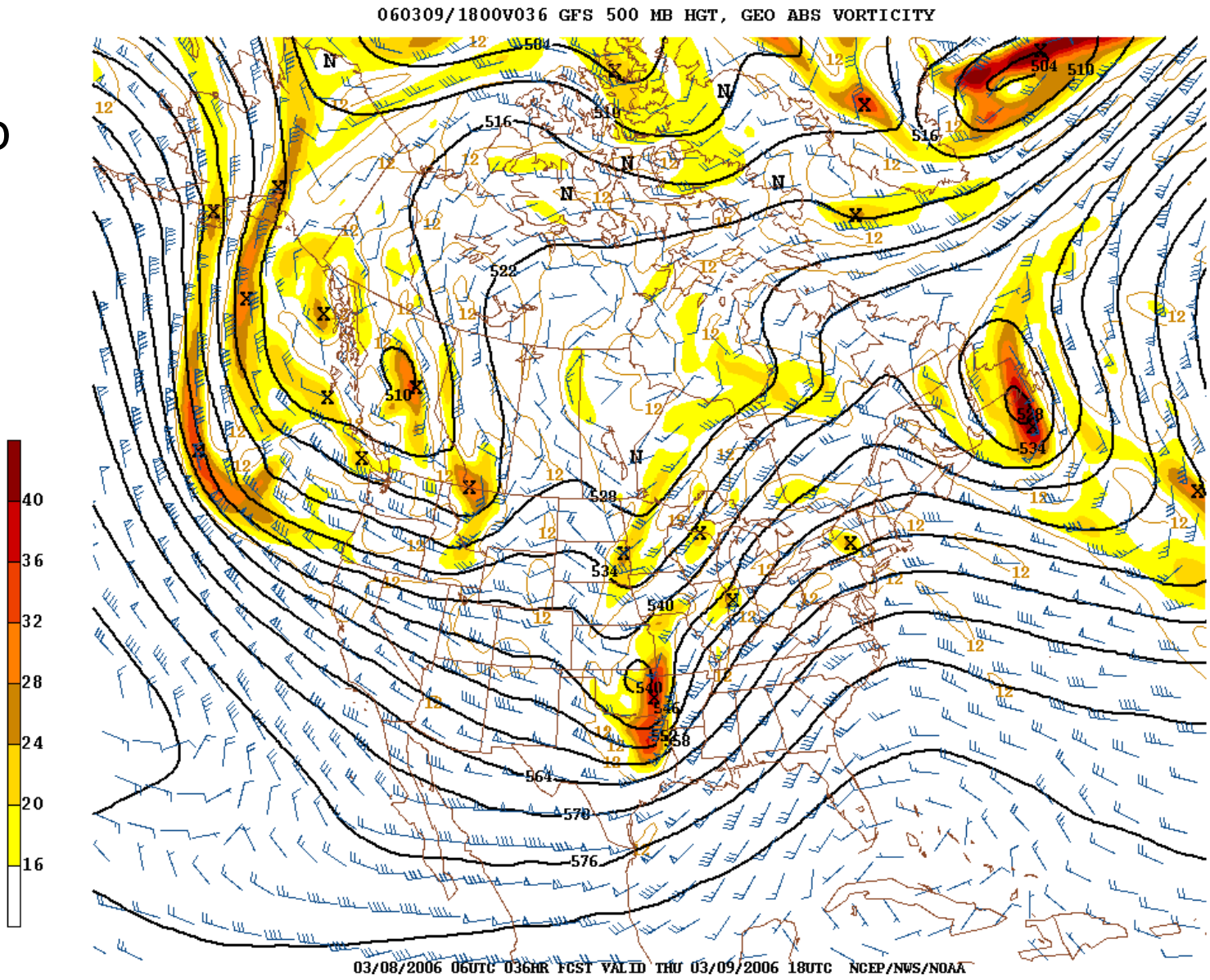
Thurs.
850 mb


060309/1800V036 GFS 850 HGT, TEMP AND WIND (KTS)
03/08/2006 06UTC 036HR FCST VALID THU 03/09/2006 18UTC NCEP/NWS/NOAA

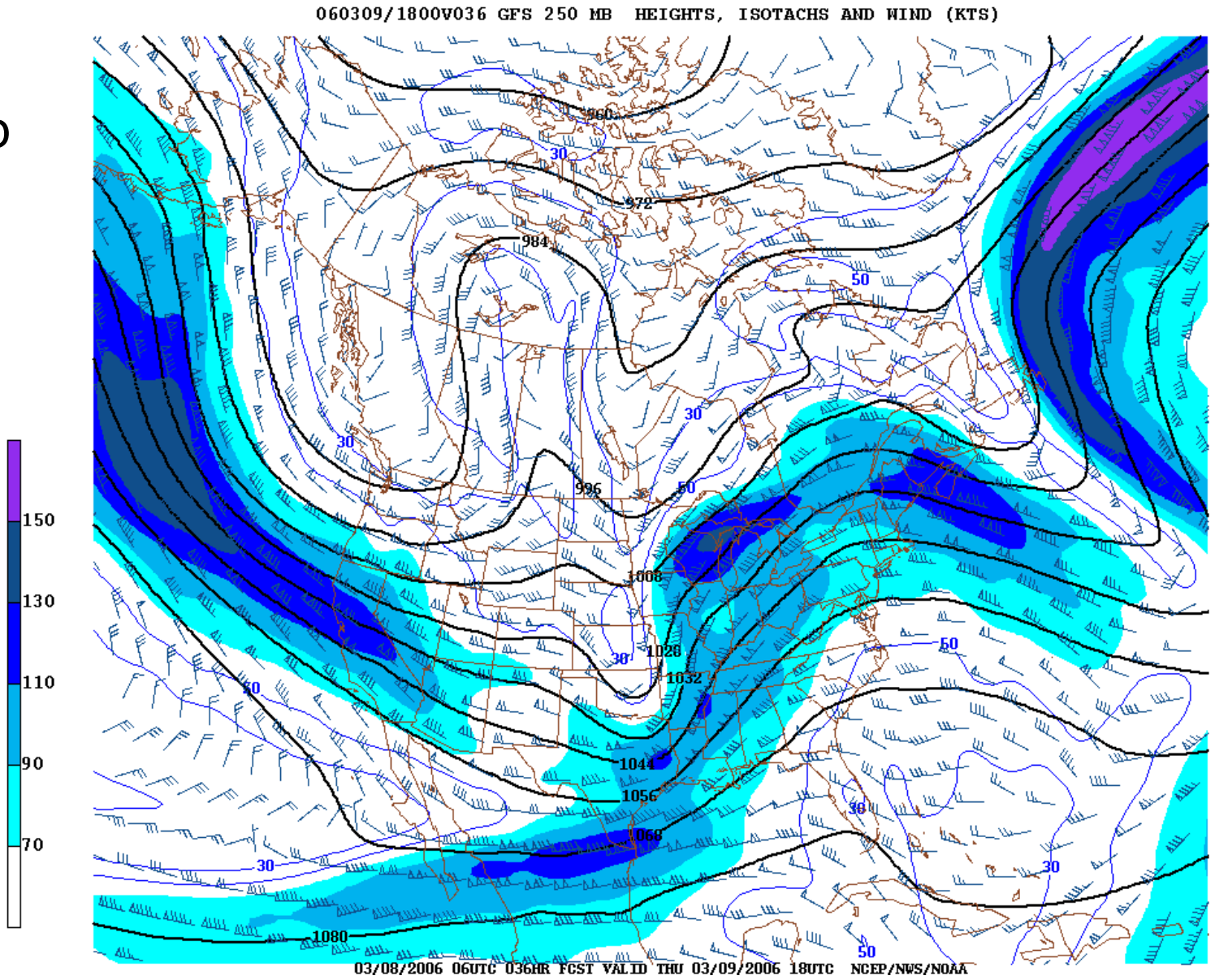
Thurs.
700 mb


060309/1800V036 GFS 700 MB HGT, REL HUMIDITY AND OMEGA
90
70
03/08/2006 06UTC 036HR FCST VALID THU 03/09/2006 18UTC NCEP/NWS/NOAA

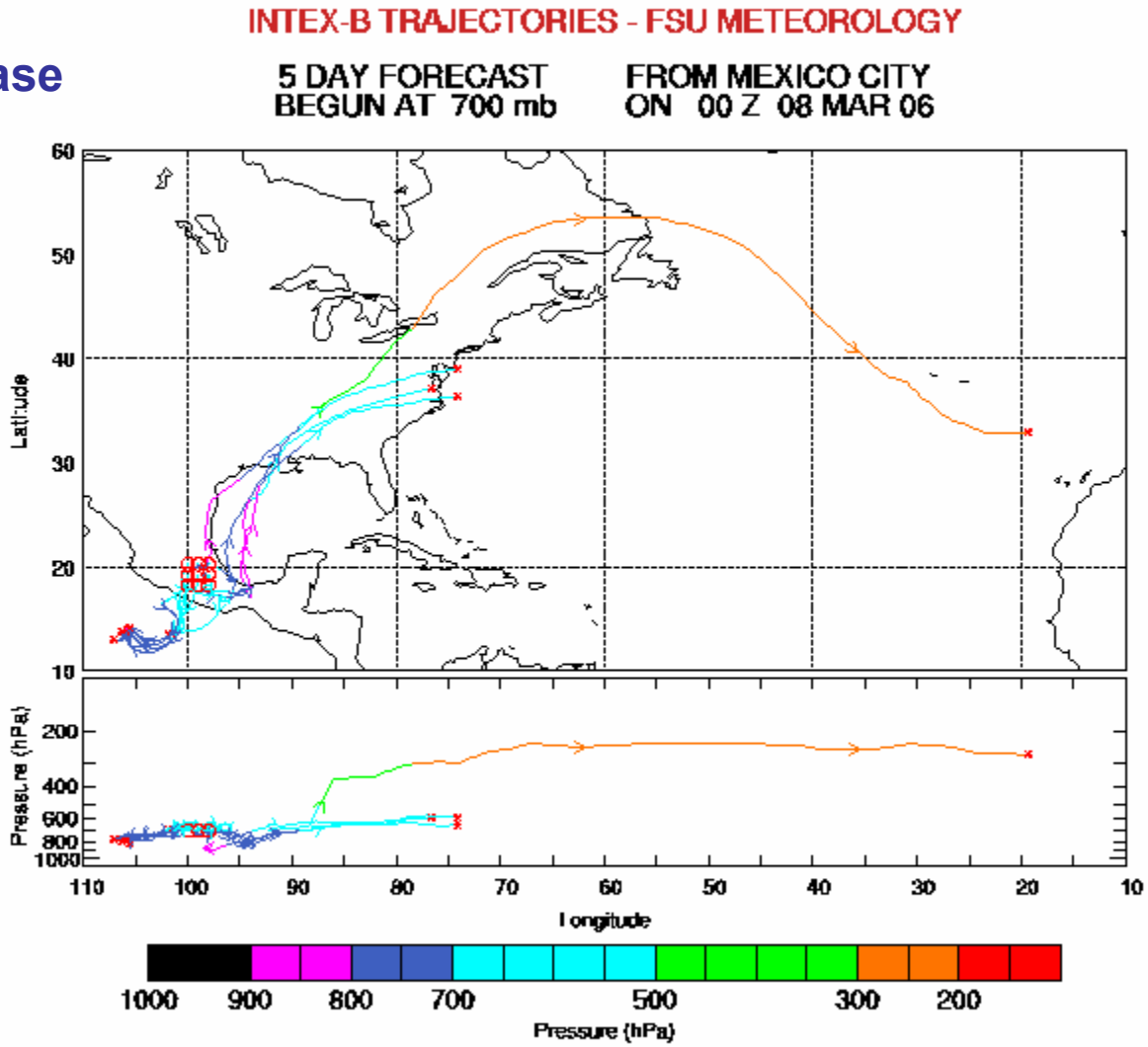
Thurs.
500 mb


060309/1800V036 GFS 500 MB HGT, GEO ABS VORTICITY
40
36
32
28
24
20
16
03/08/2006 06UTC 036HR FCST VALID THU 03/09/2006 18UTC NCEP/NWS/NOAA

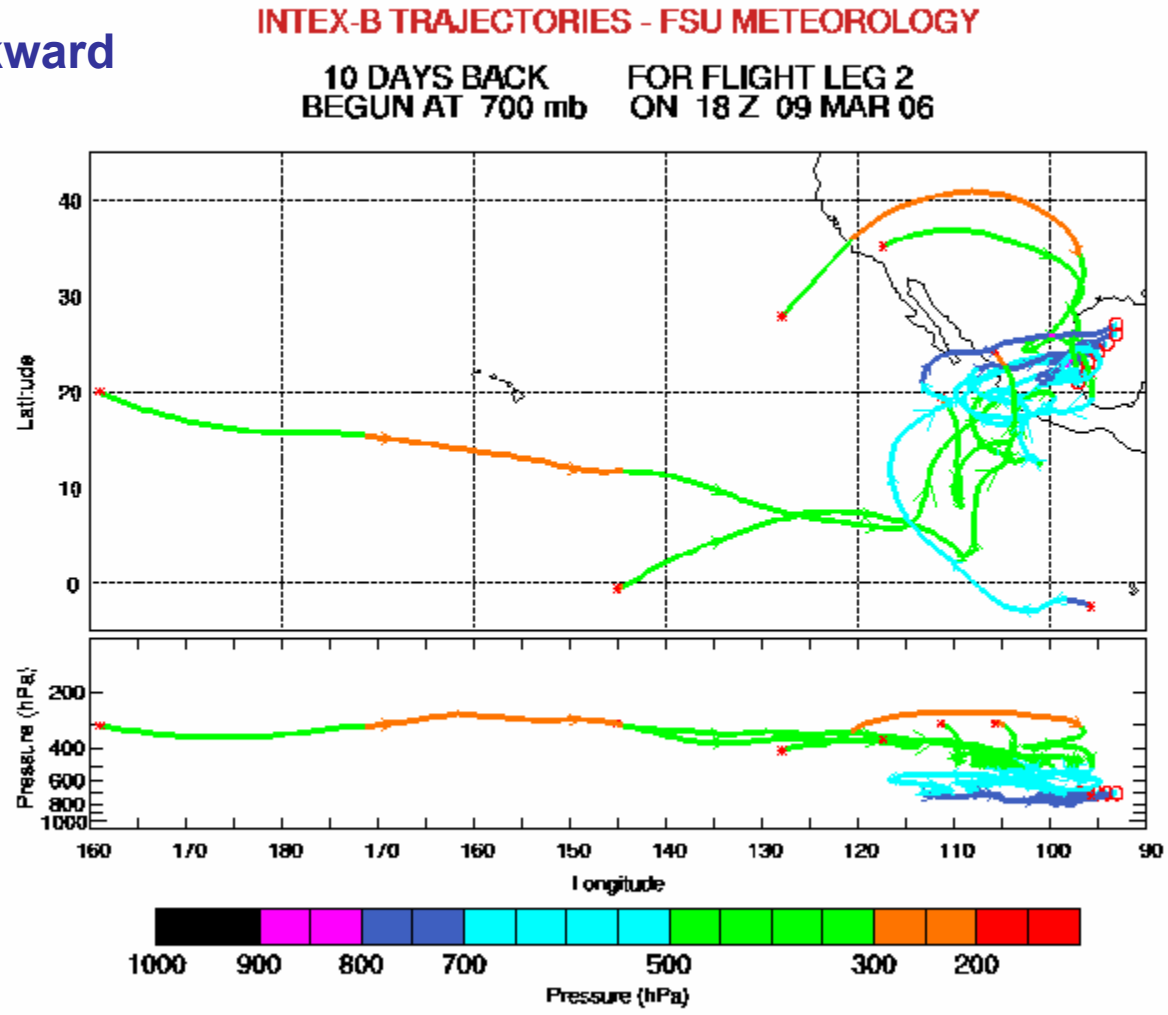
Thurs.
250 mb


060309/1800V036 GFS 250 MB HEIGHTS, ISOTACHS AND WIND (KTS)
150
130
110
90
70
960
972
984
996
1008
1020
1032
1044
1056
1068
1080
30
50
03/08/2006 06UTC 036HR FCST VALID THU 03/09/2006 18UTC NCEP/NWS/NOAA

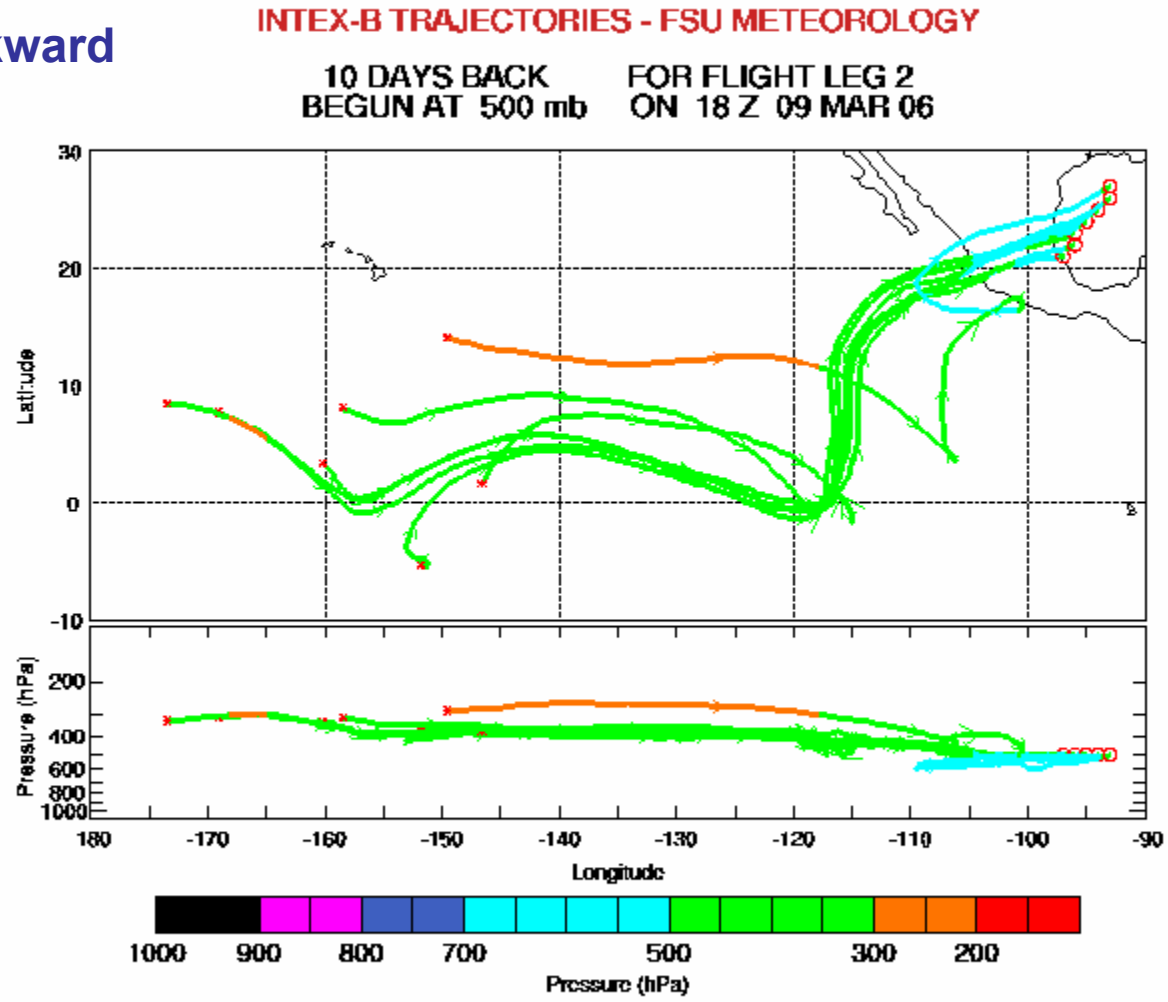
700 mb Release



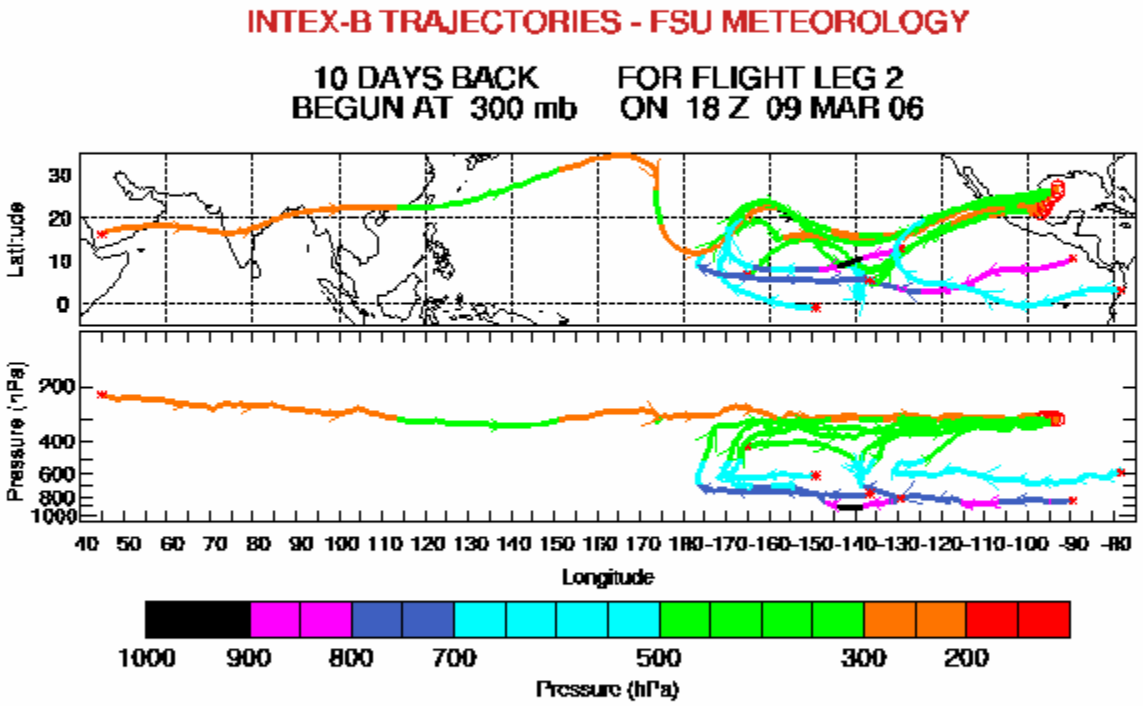
700 mb Backward



500 mb Backward



300 mb Backward

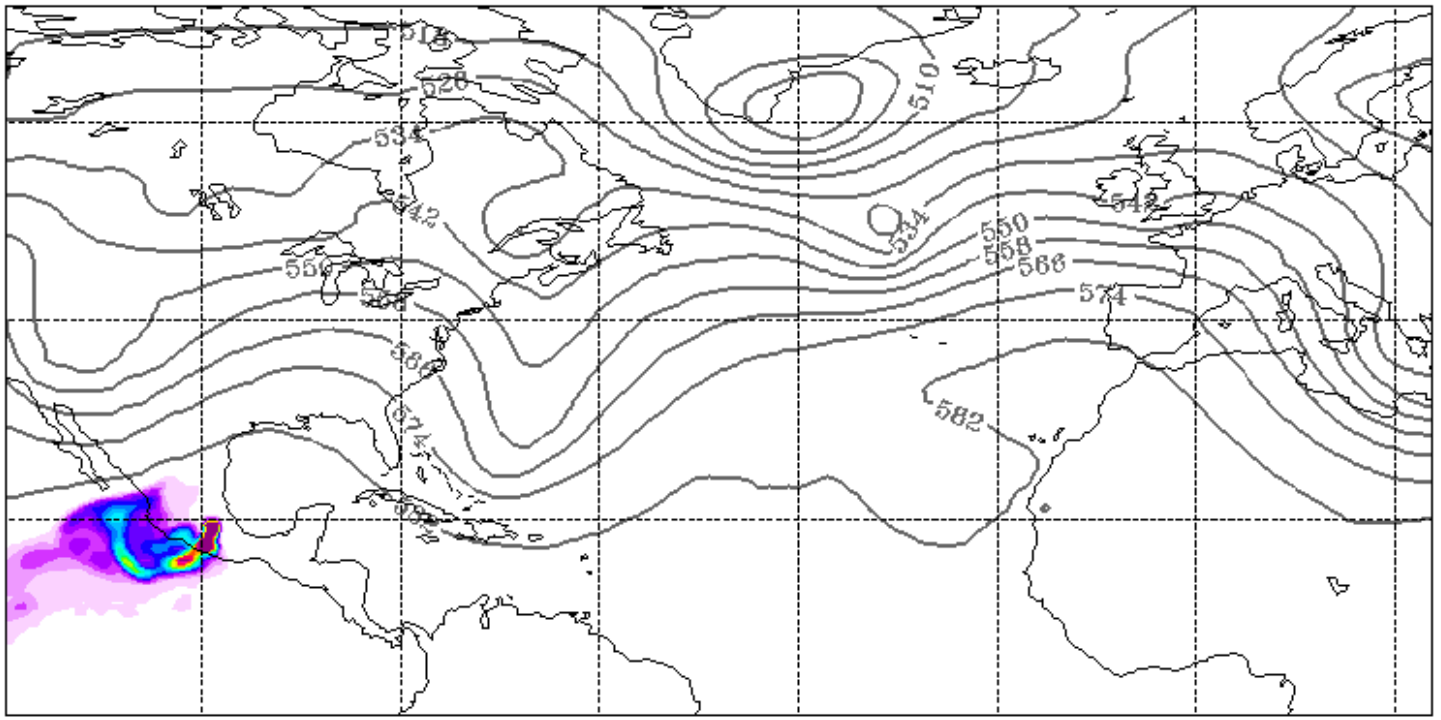


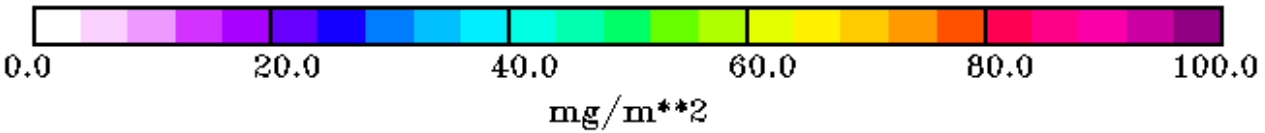
Flexpart Forecasts

7-12 March 2006

TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060308 0 UTC ACTUAL 20060308 120000 UTC
MAXIMUM VALUE: 0.179E+03

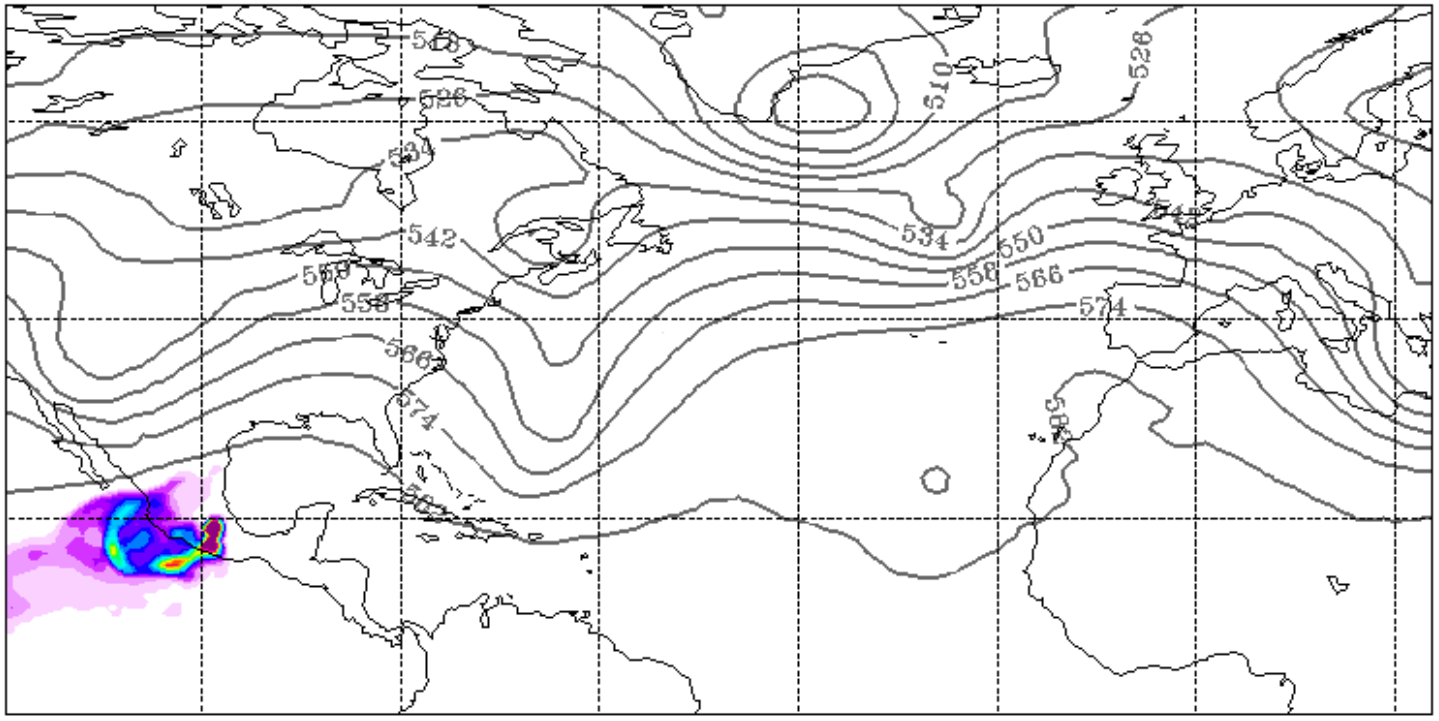
Wed. 12Z





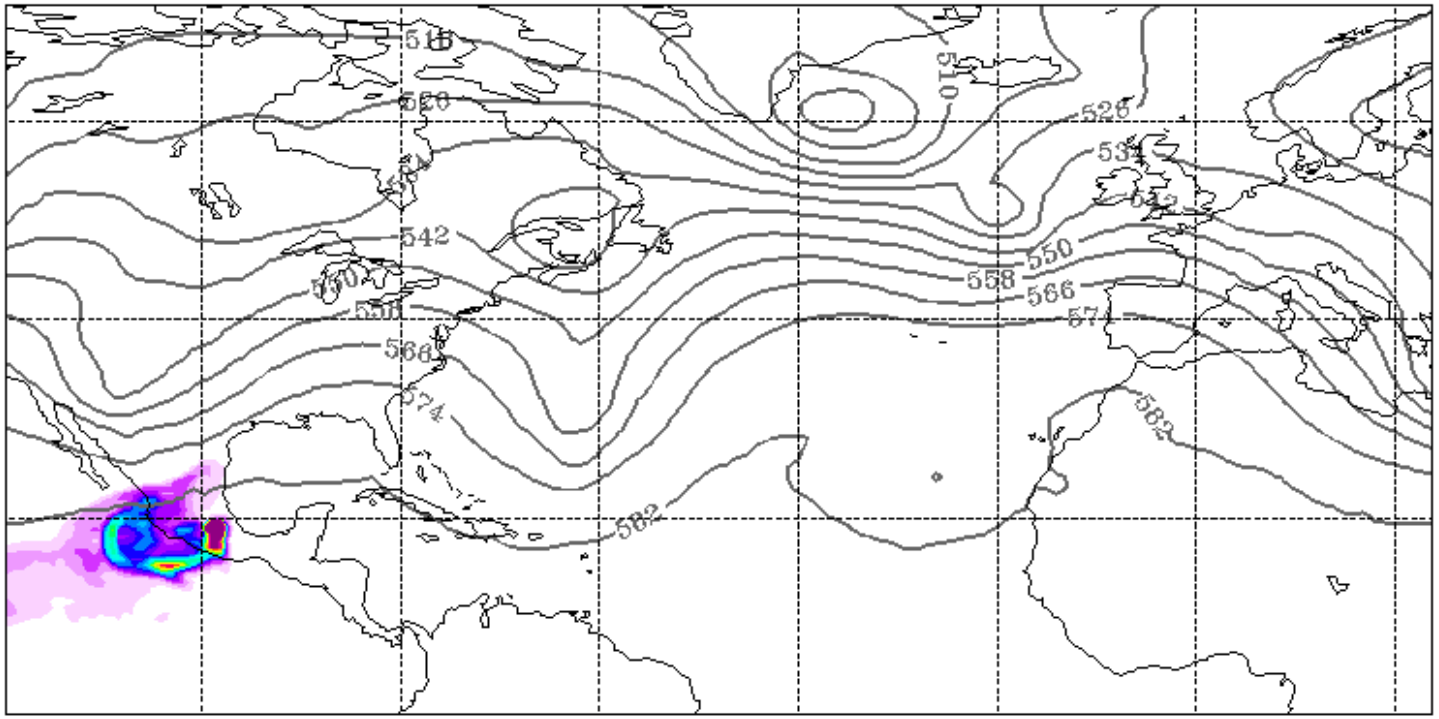
TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060308 0 UTC ACTUAL 20060308 180000 UTC
MAXIMUM VALUE: 0.303E+03

Wed. 18Z



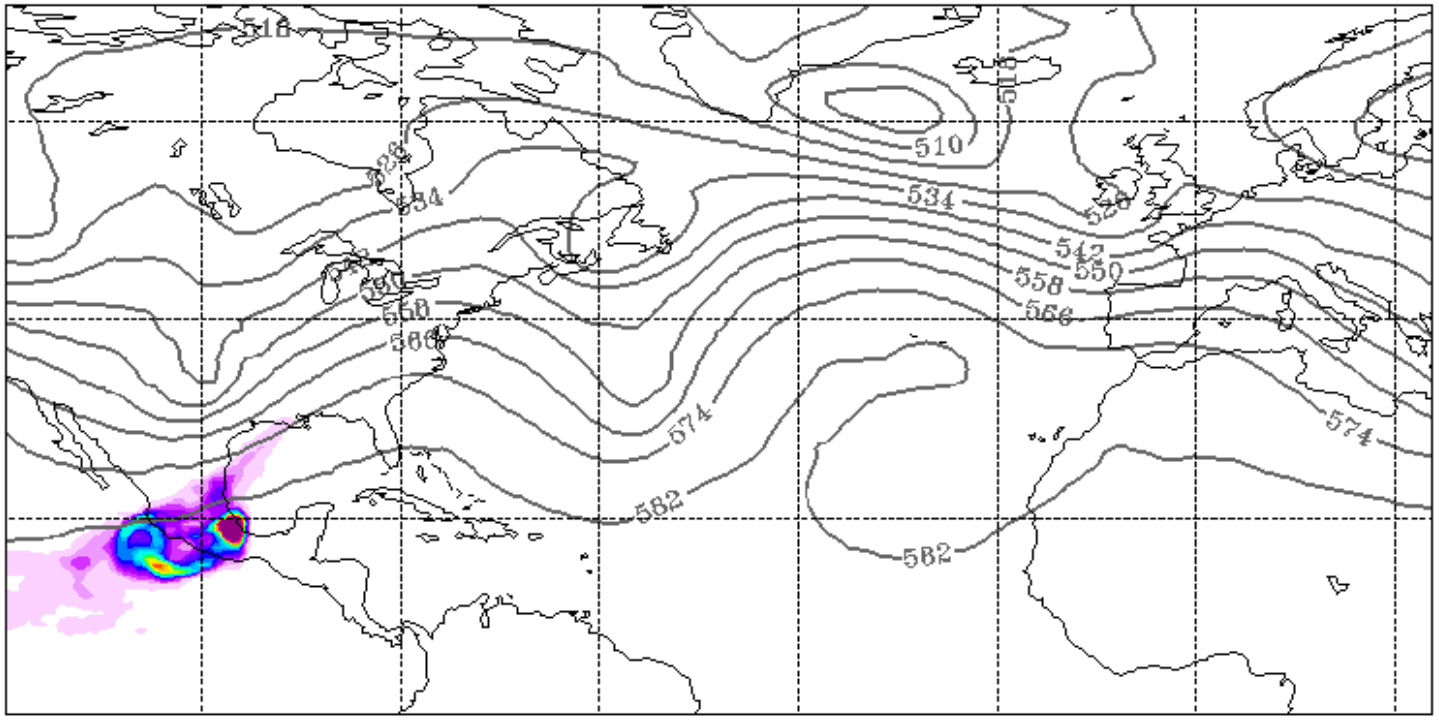
TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060308 0 UTC ACTUAL 20060309 0 UTC
MAXIMUM VALUE: 0.427E+03

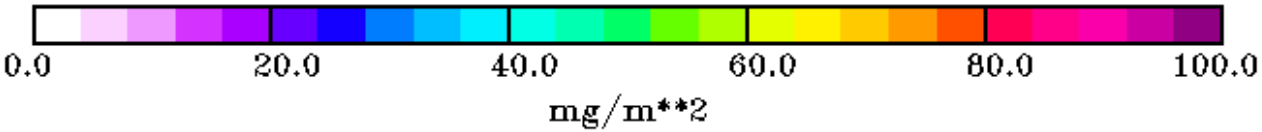
Thurs. 00Z



TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060308 0 UTC ACTUAL 20060309 120000 UTC
MAXIMUM VALUE: 0.284E+03

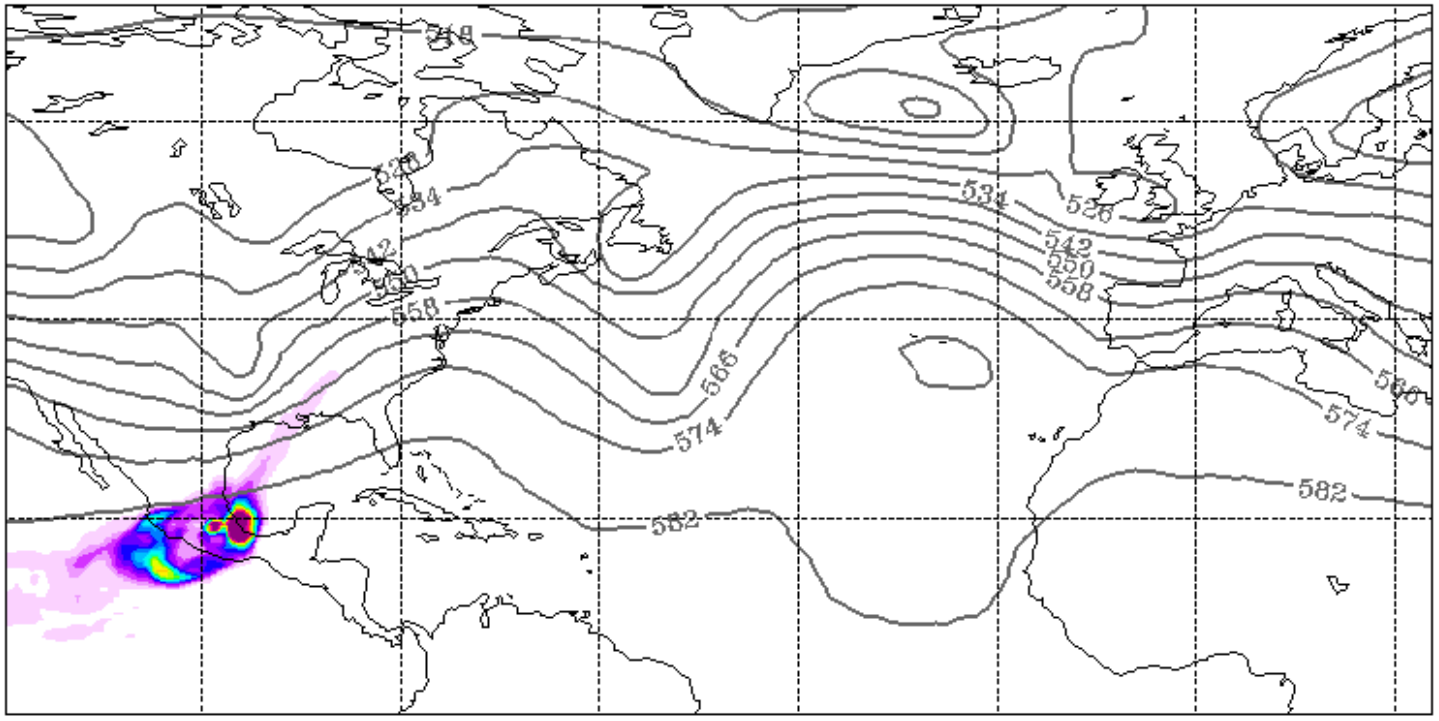
Thurs. 12Z

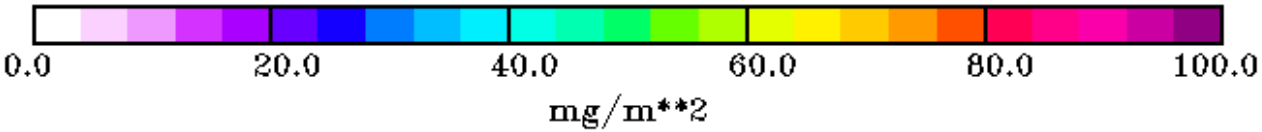




TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060308 0 UTC ACTUAL 20060309 180000 UTC
MAXIMUM VALUE: 0.203E+03

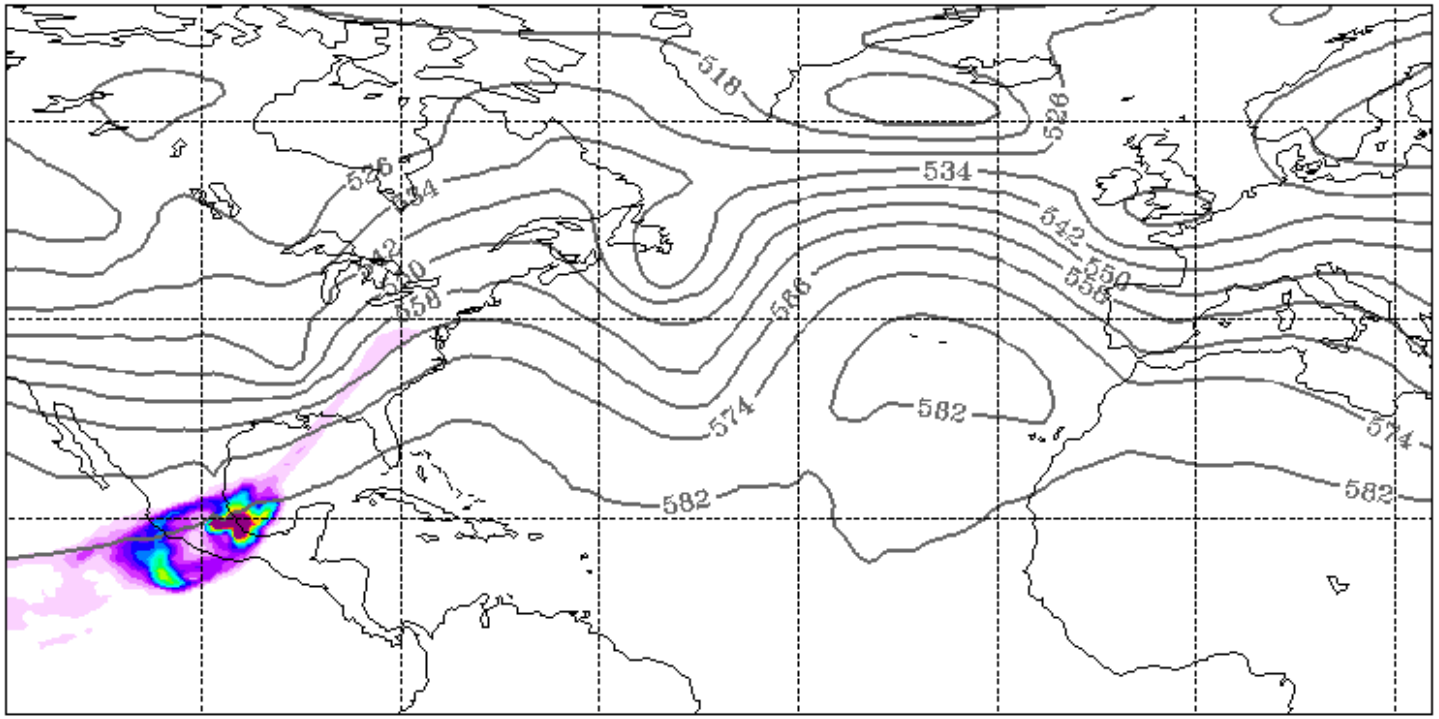
Thurs. 18Z





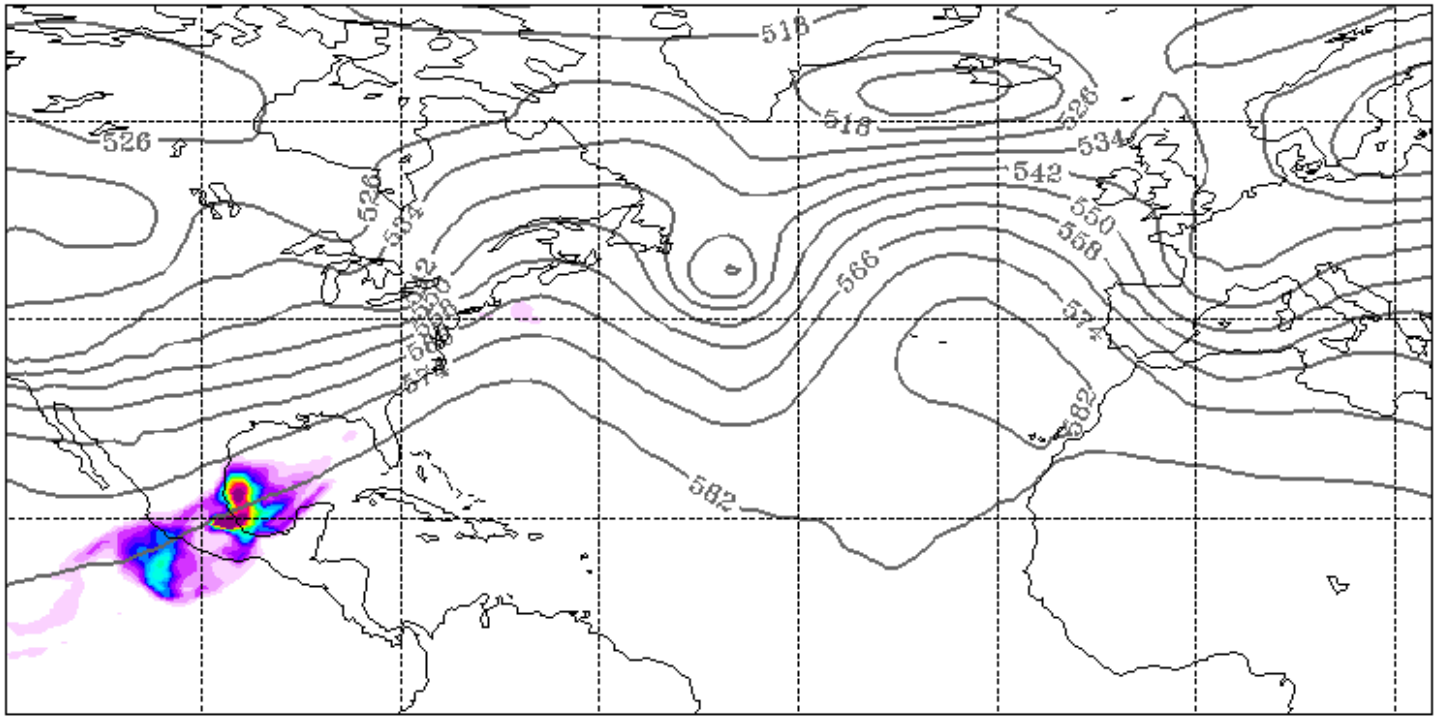
TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060308 0 UTC ACTUAL 20060310 0 UTC
MAXIMUM VALUE: 0.265E+03

Fri. 00Z



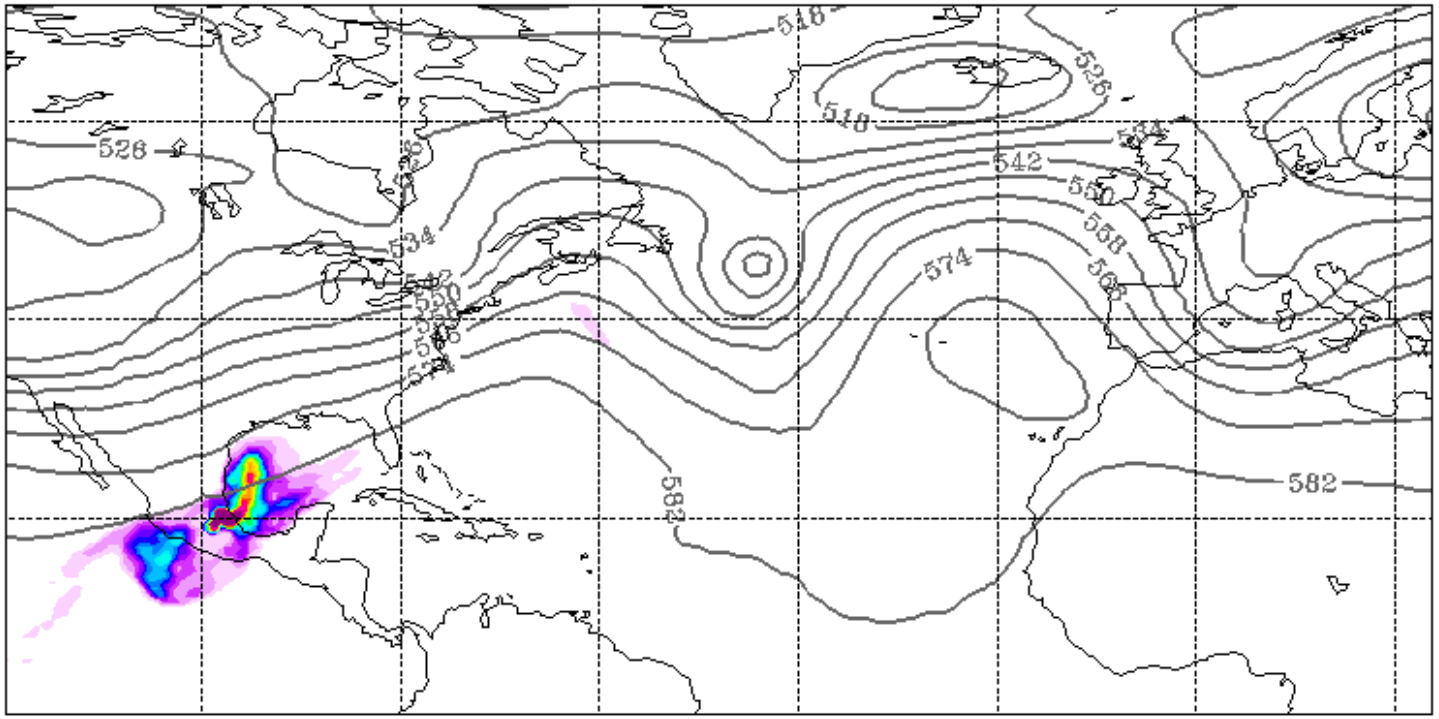
TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060308 0 UTC ACTUAL 20060310 120000 UTC
MAXIMUM VALUE: 0.203E+03

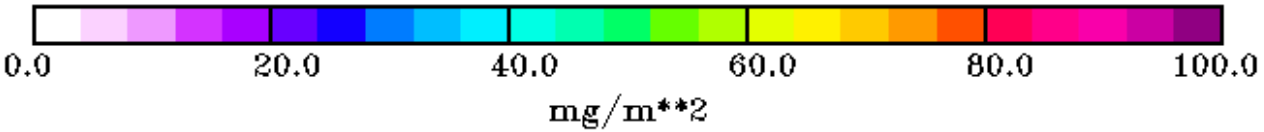
Fri. 12Z



TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060308 0 UTC ACTUAL 20060310 180000 UTC
MAXIMUM VALUE: 0.235E+03

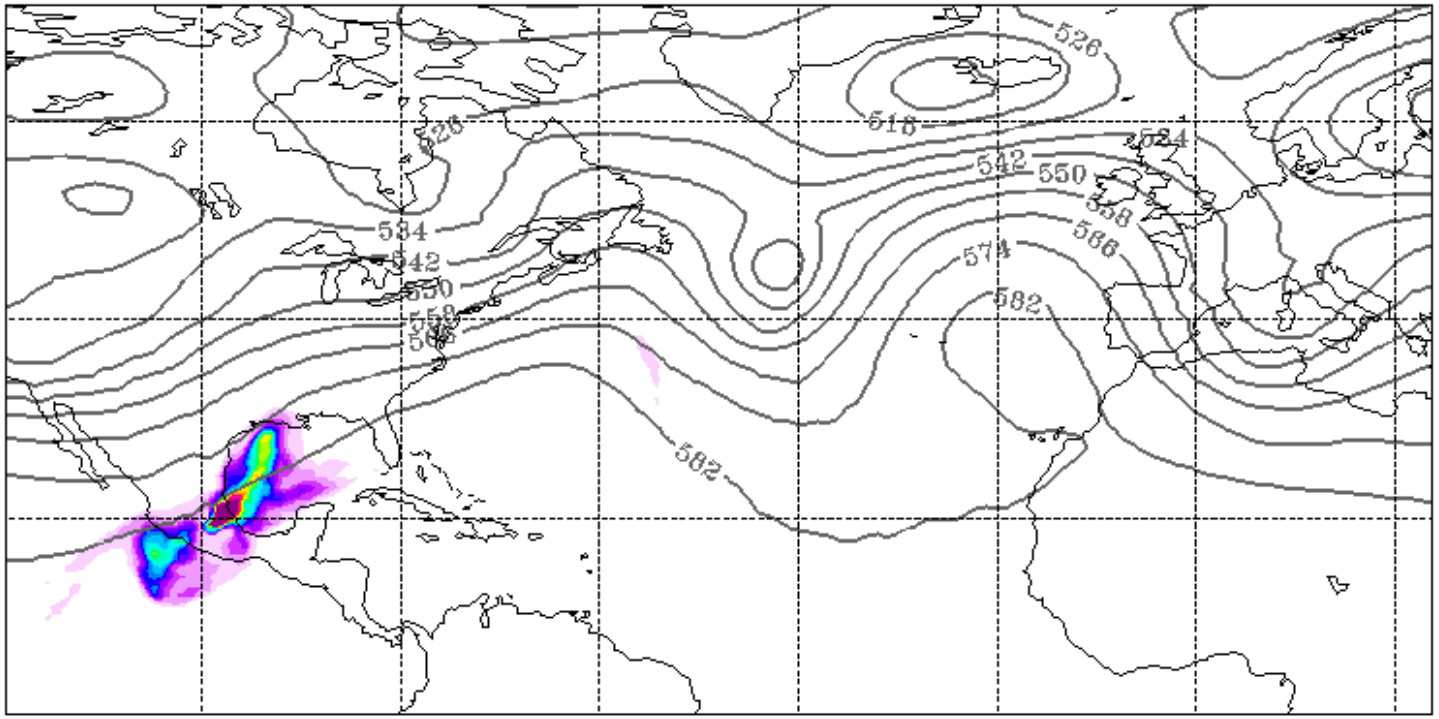
Fri. 18Z





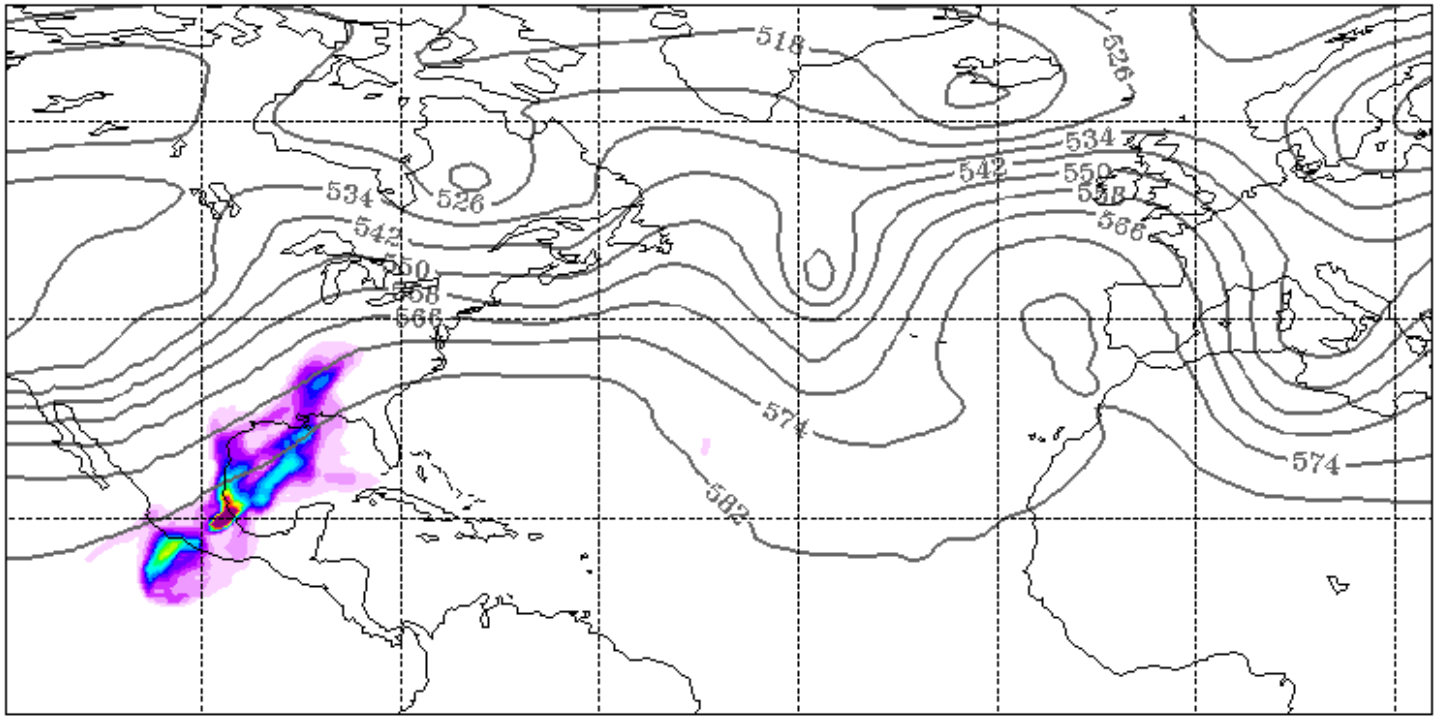
TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060308 0 UTC ACTUAL 20060311 0 UTC
MAXIMUM VALUE: 0.284E+03

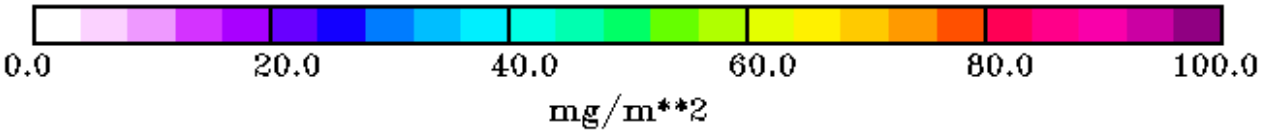
Sat. 00Z



TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060308 0 UTC ACTUAL 20060311 120000 UTC
MAXIMUM VALUE: 0.205E+03

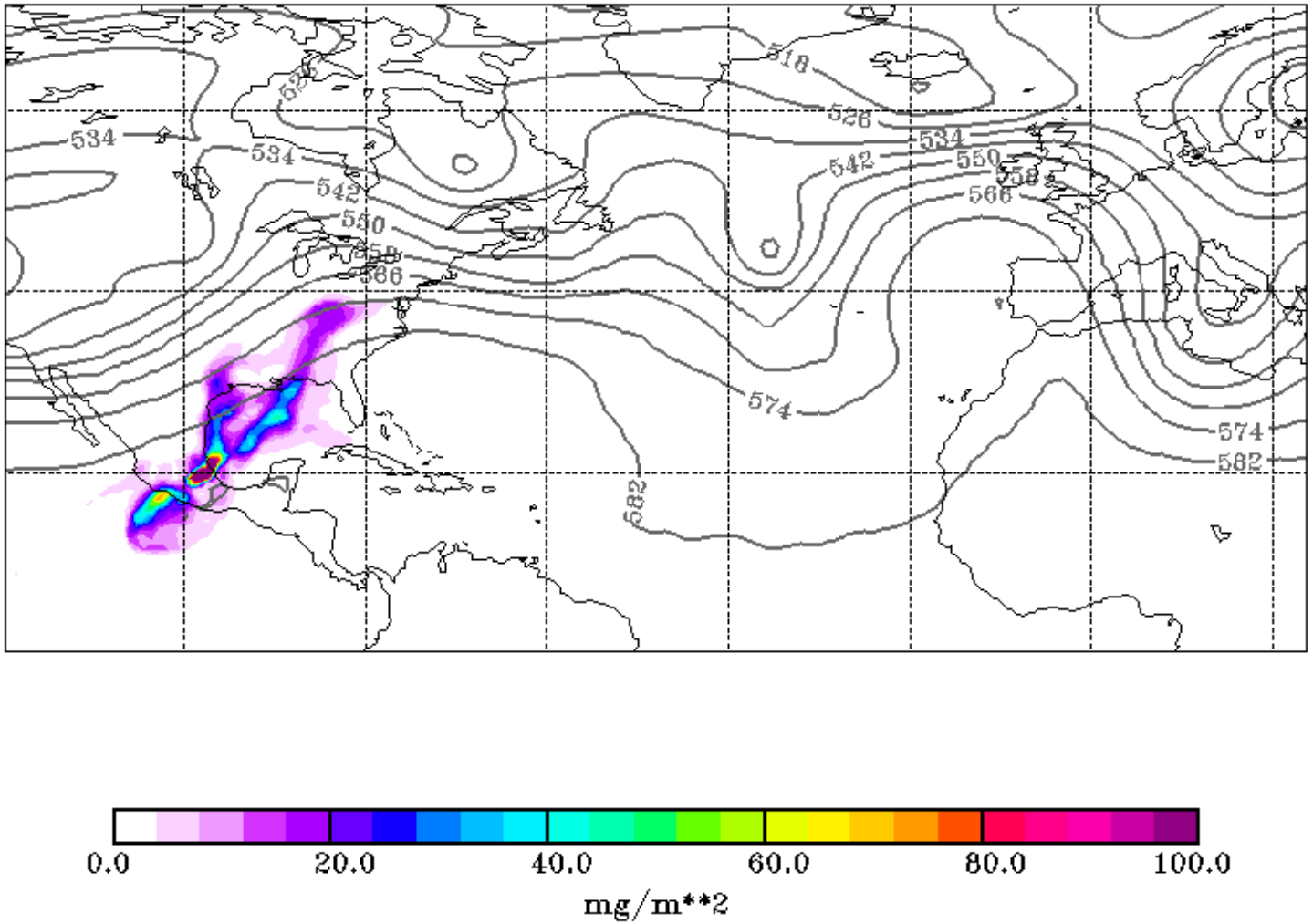
Sat. 12Z





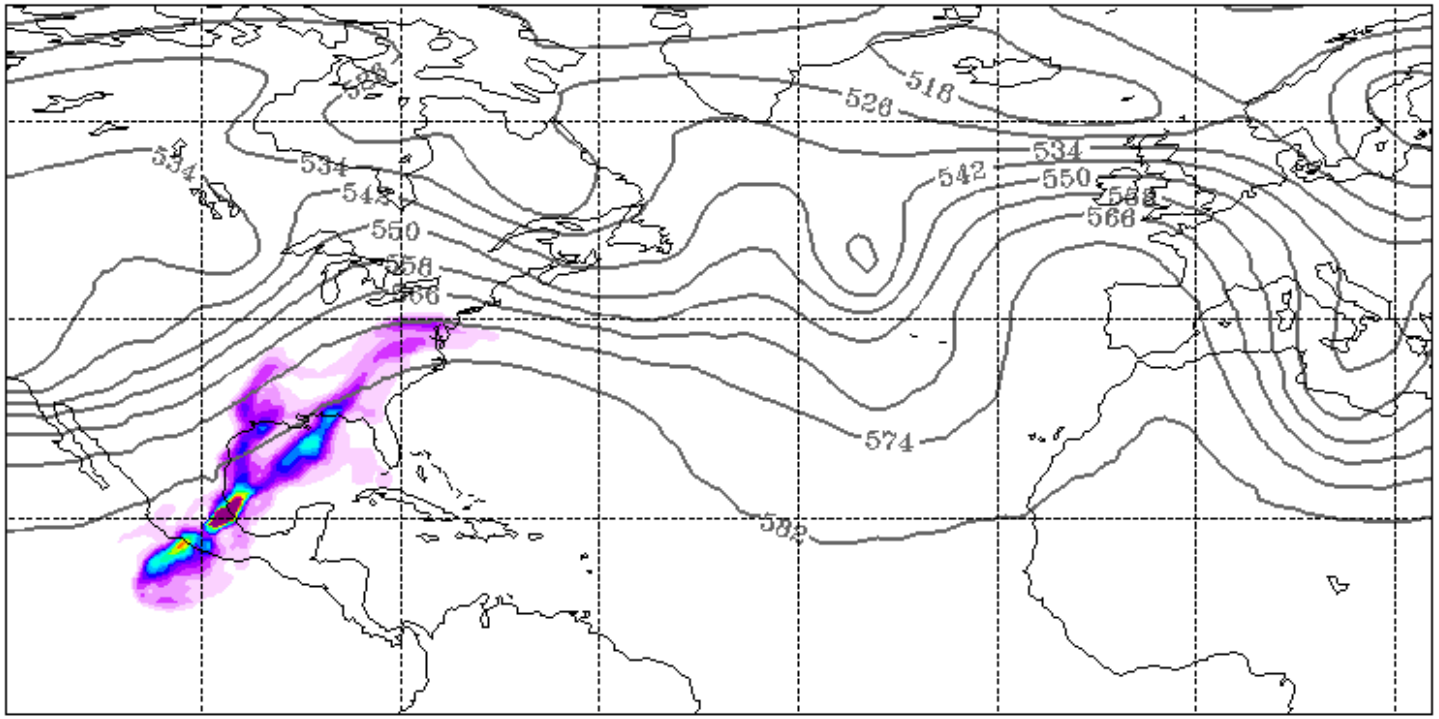
TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060308 0 UTC ACTUAL 20060311 180000 UTC
MAXIMUM VALUE: 0.194E+03

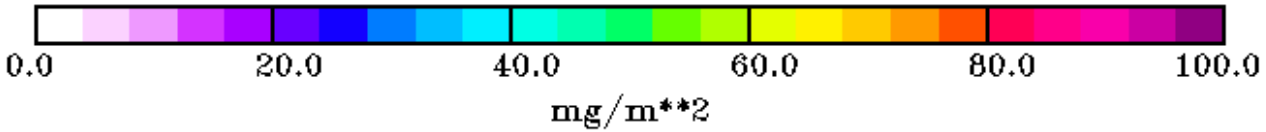
Sat. 18Z



TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060308 0 UTC ACTUAL 20060312 0 UTC
MAXIMUM VALUE: 0.263E+03

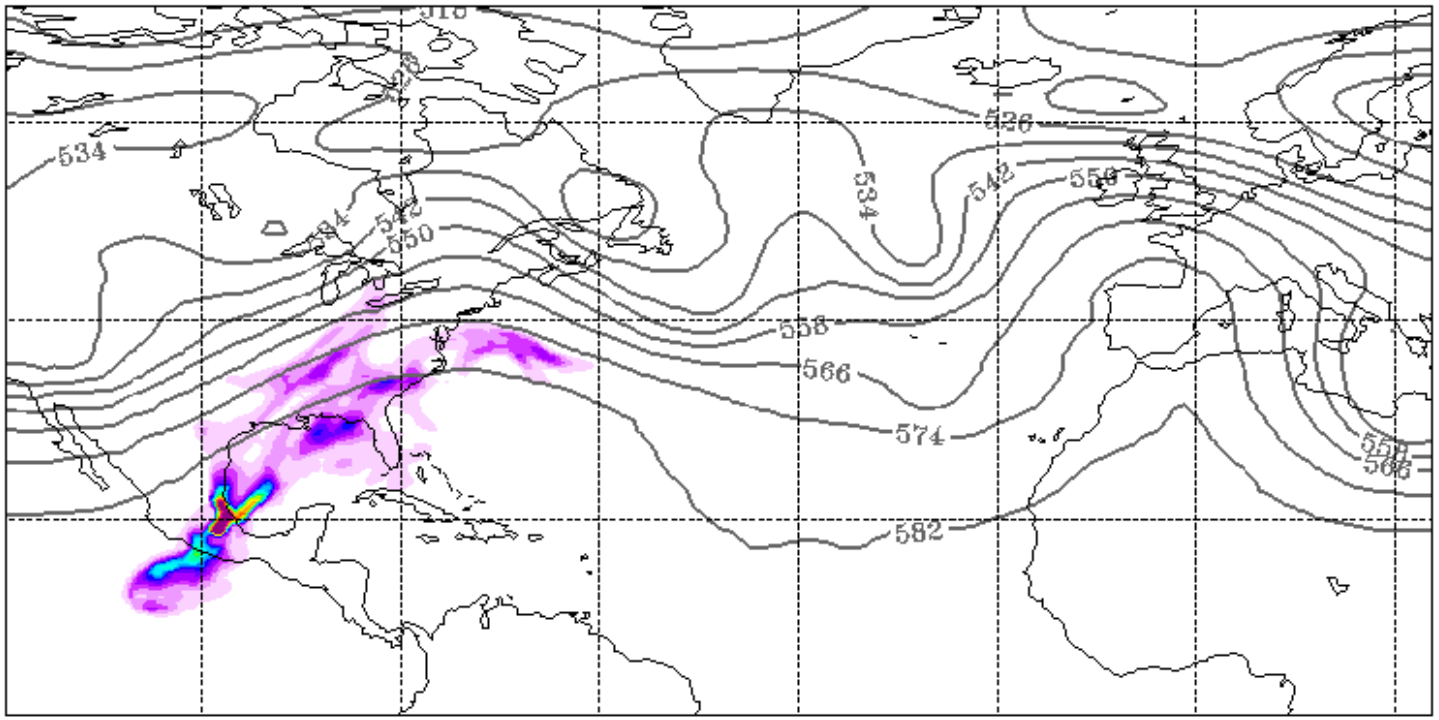
Sun. 00Z

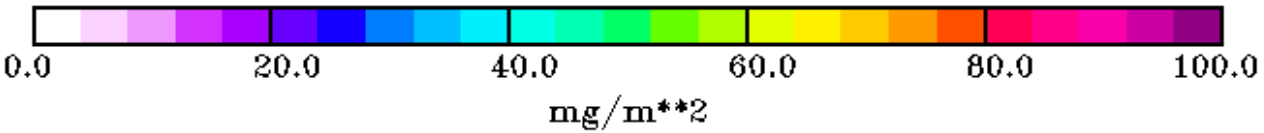




TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060308 0 UTC ACTUAL 20060312 120000 UTC
MAXIMUM VALUE: 0.234E+03

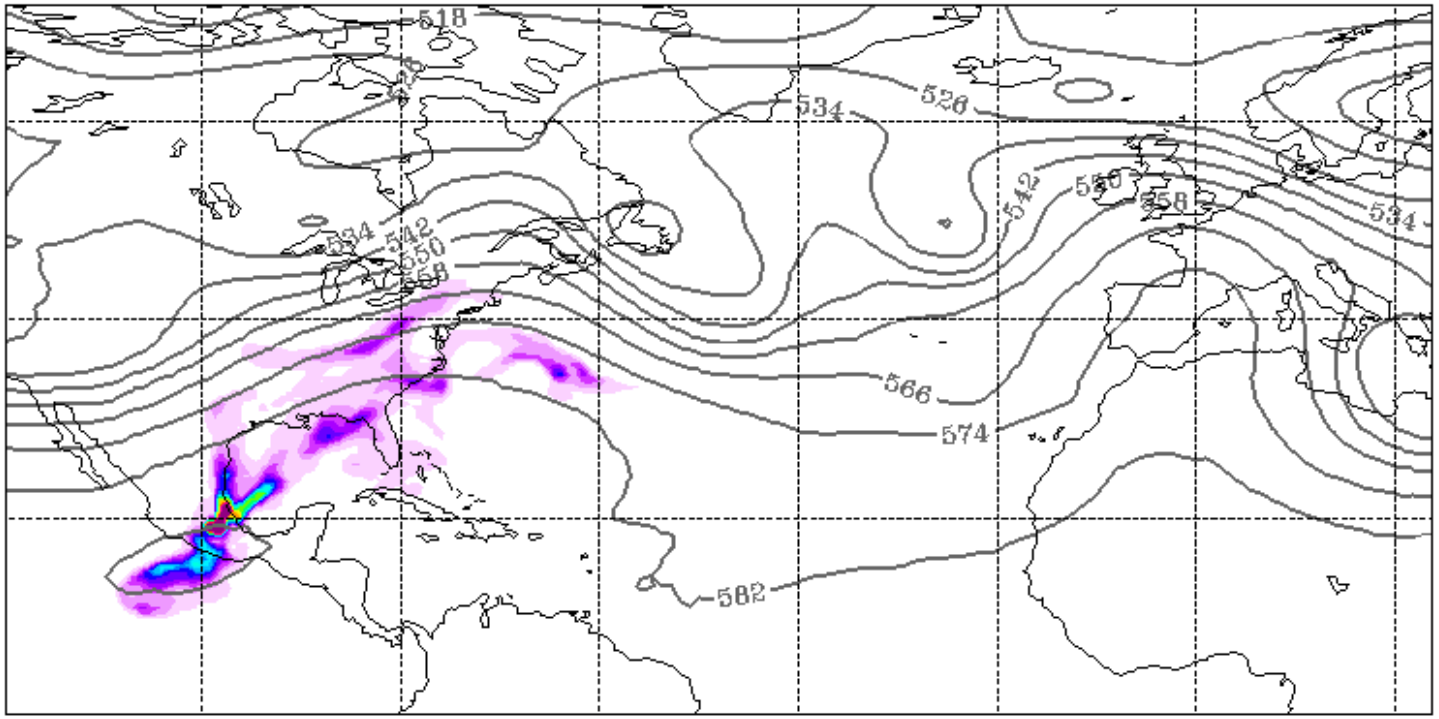
Sun. 12Z

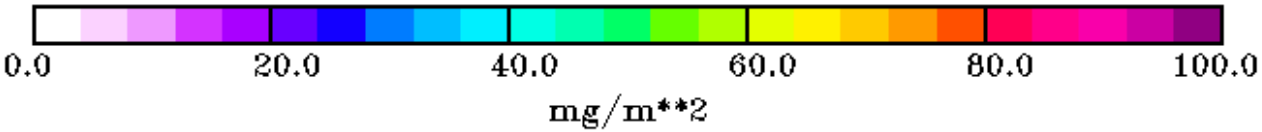




TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060308 0 UTC ACTUAL 20060312 180000 UTC
MAXIMUM VALUE: 0.187E+03

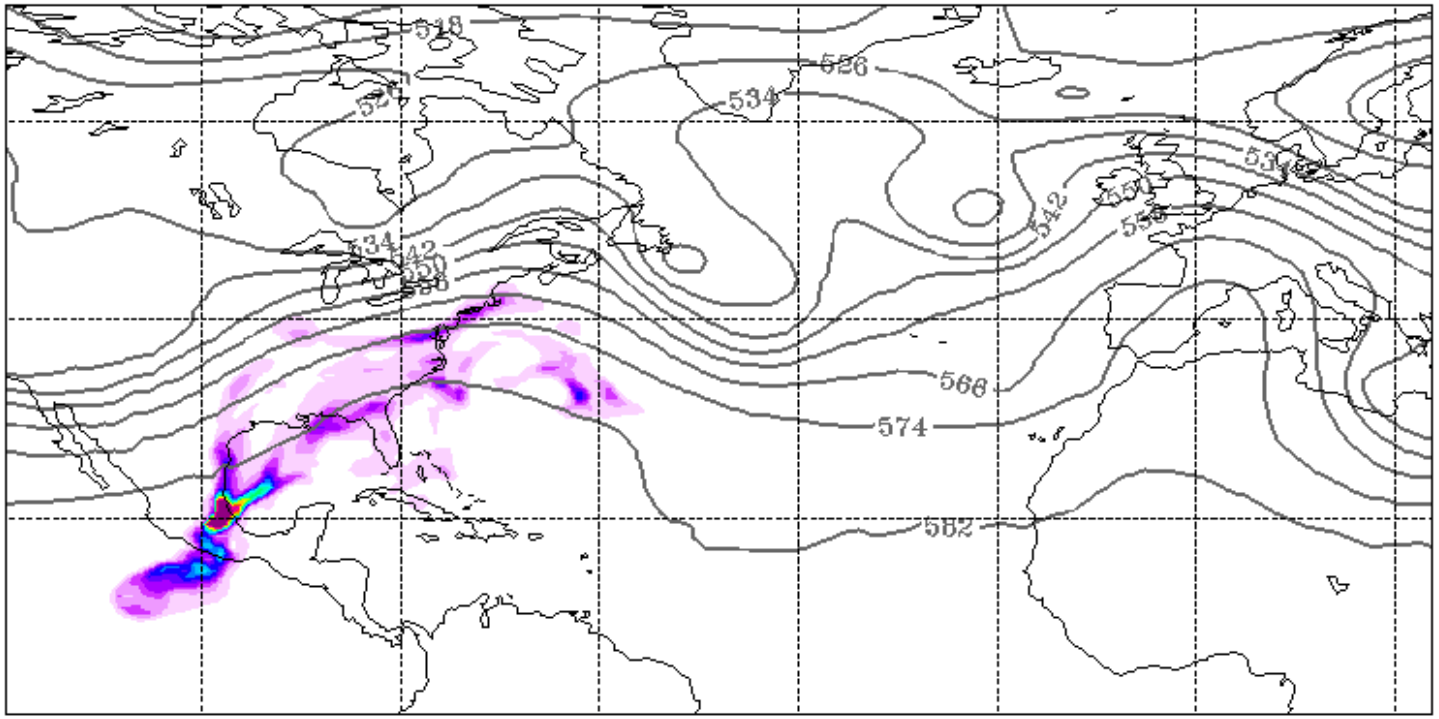
Sun. 18Z

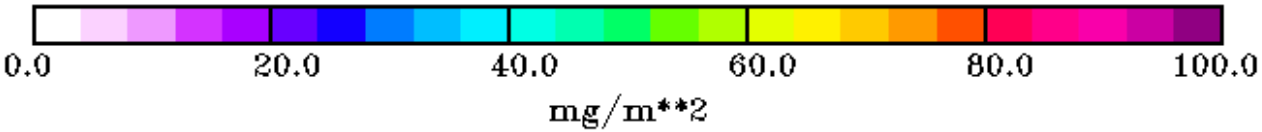


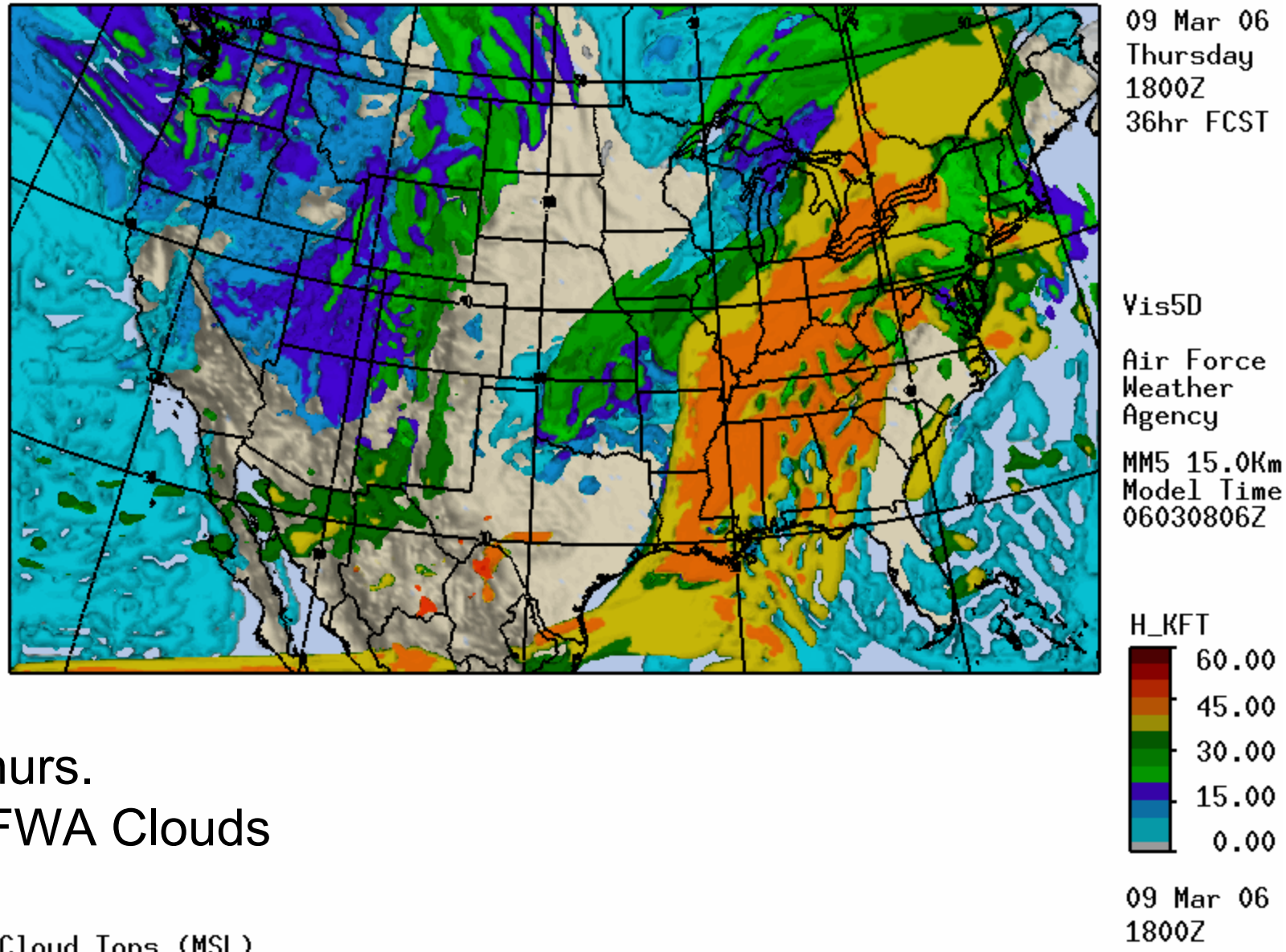


TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060308 0 UTC ACTUAL 20060313 0 UTC
MAXIMUM VALUE: 0.305E+03

Mon. 00Z

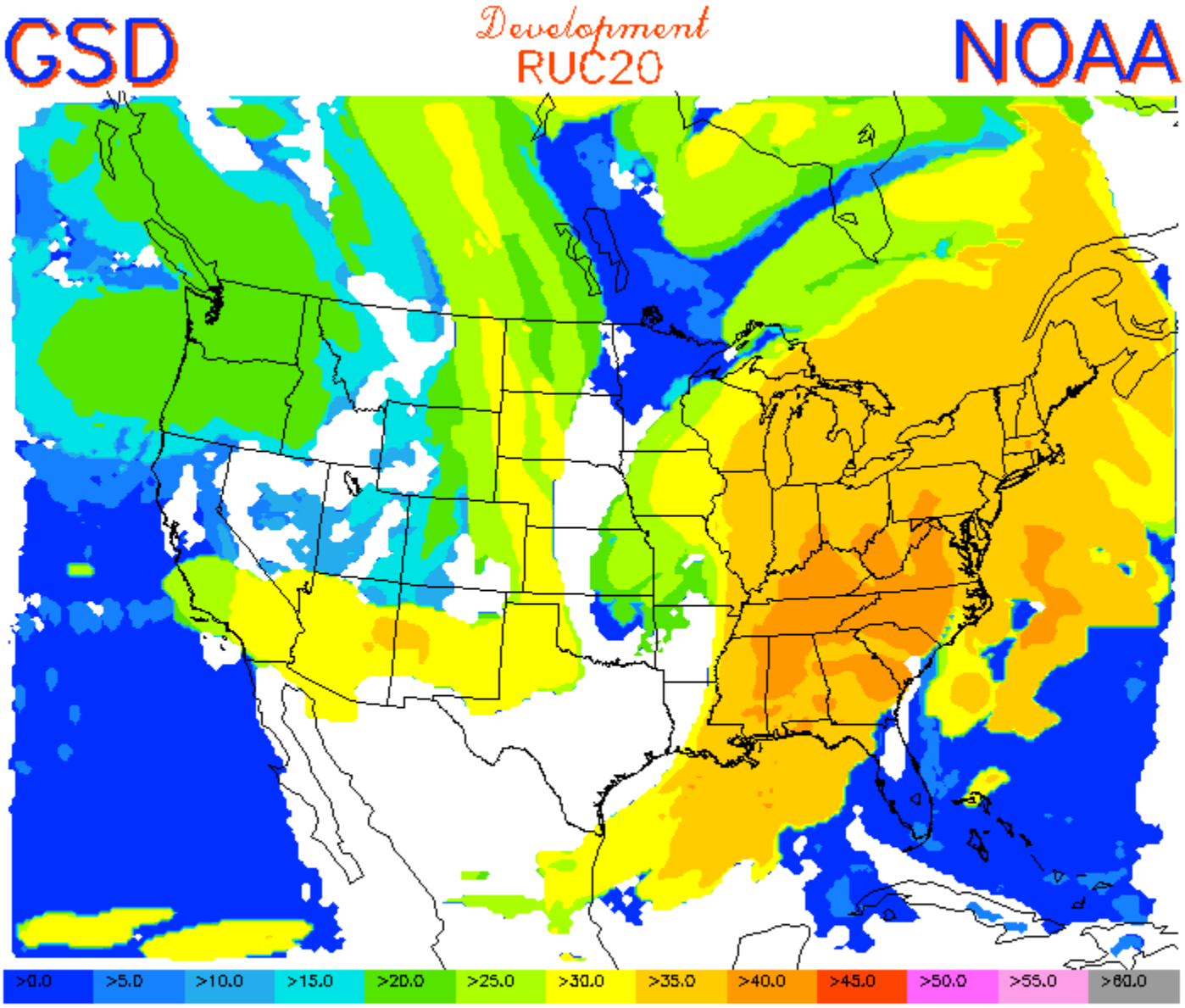




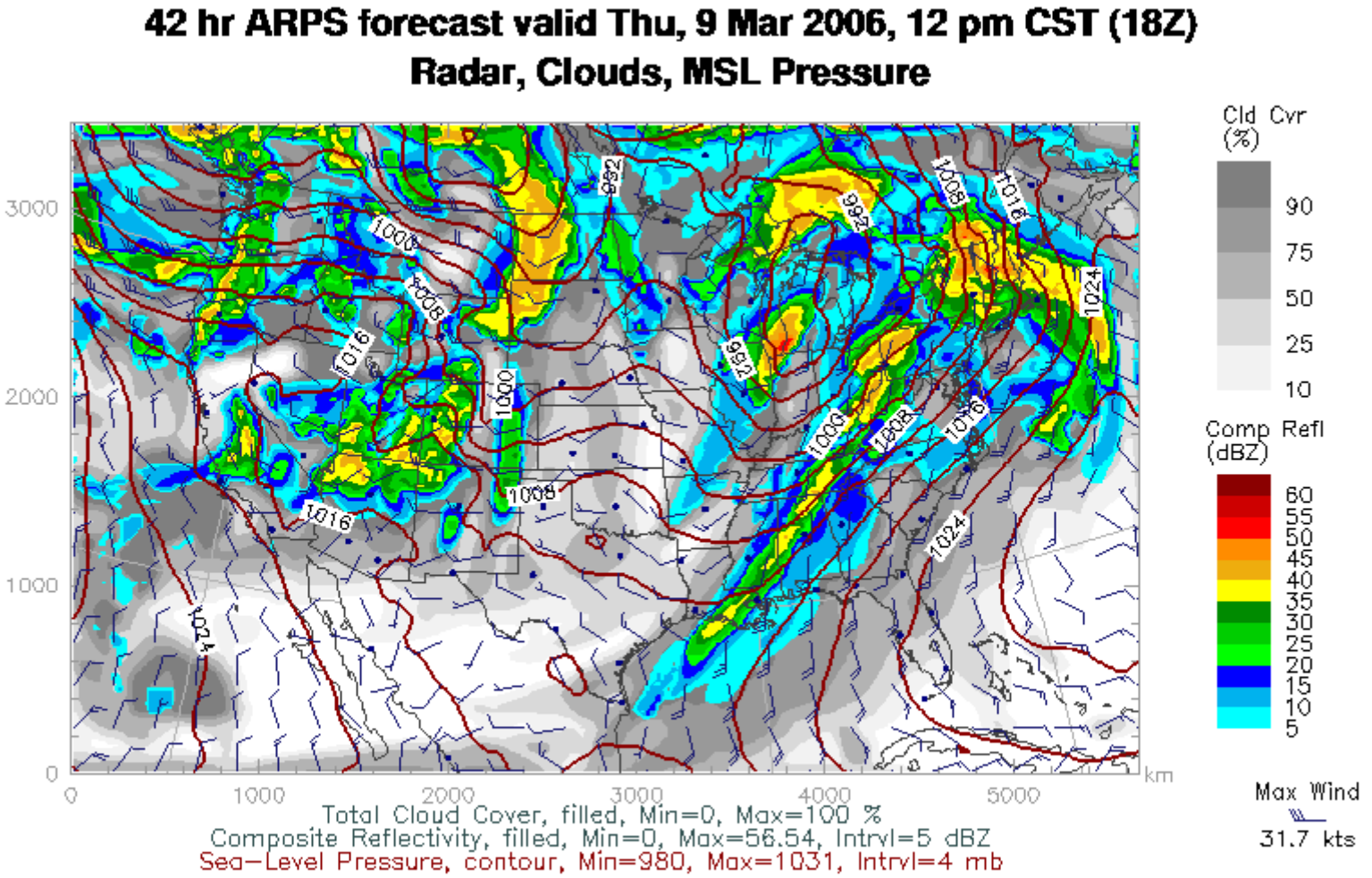


Thurs.
AFWA Clouds

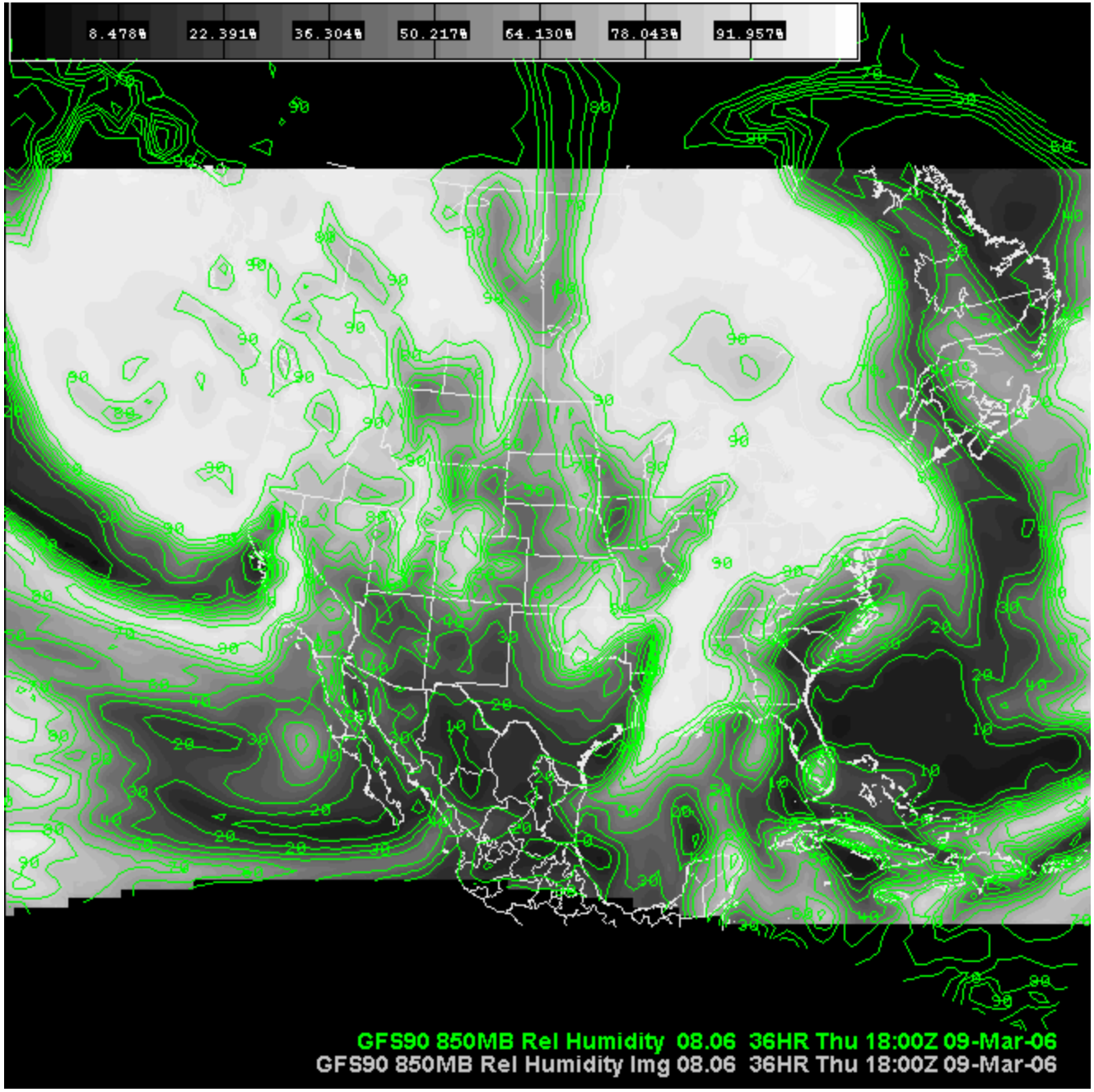
Thurs.
RUC
Clouds



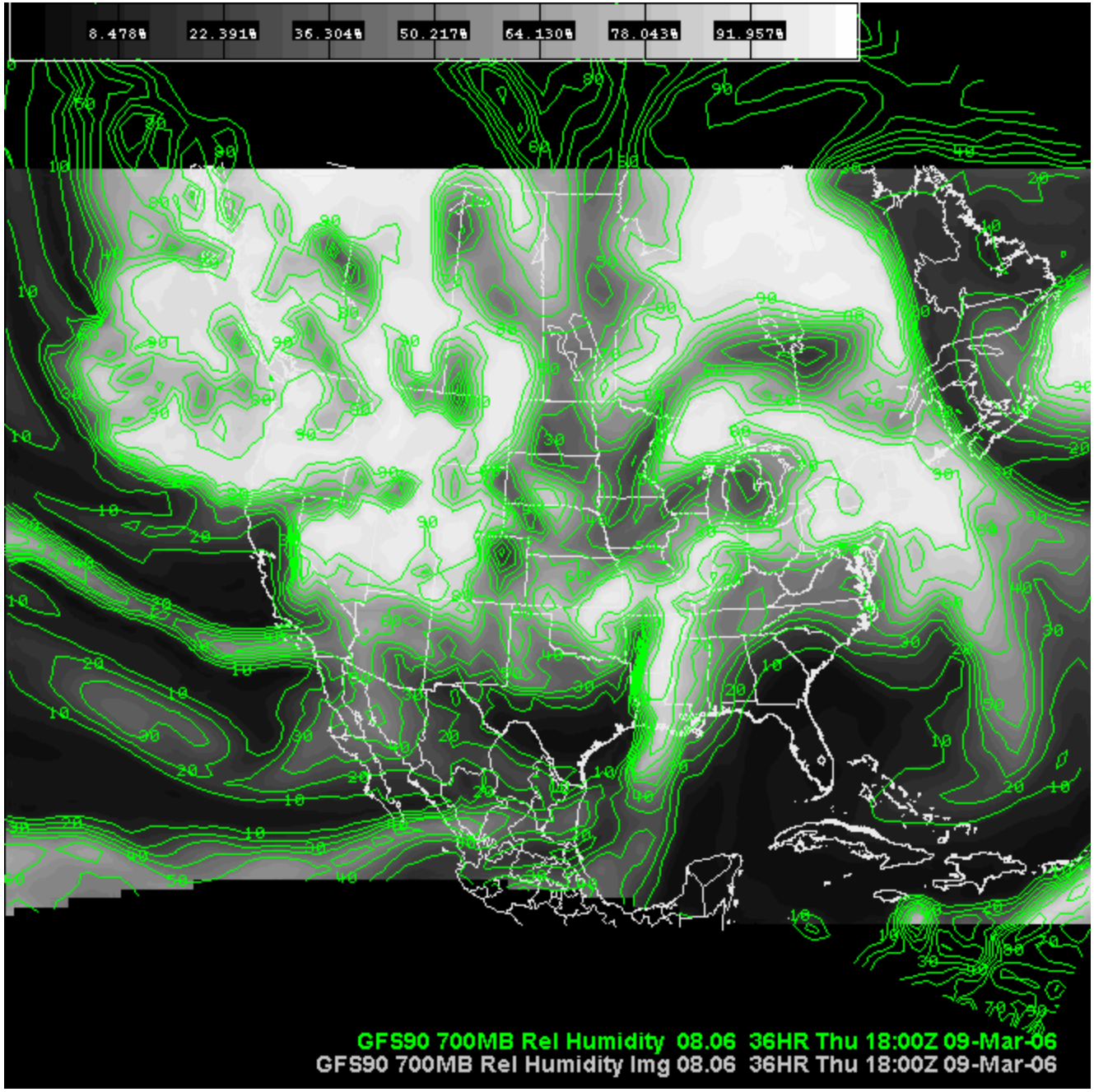
Thurs.
ARPS
Clouds



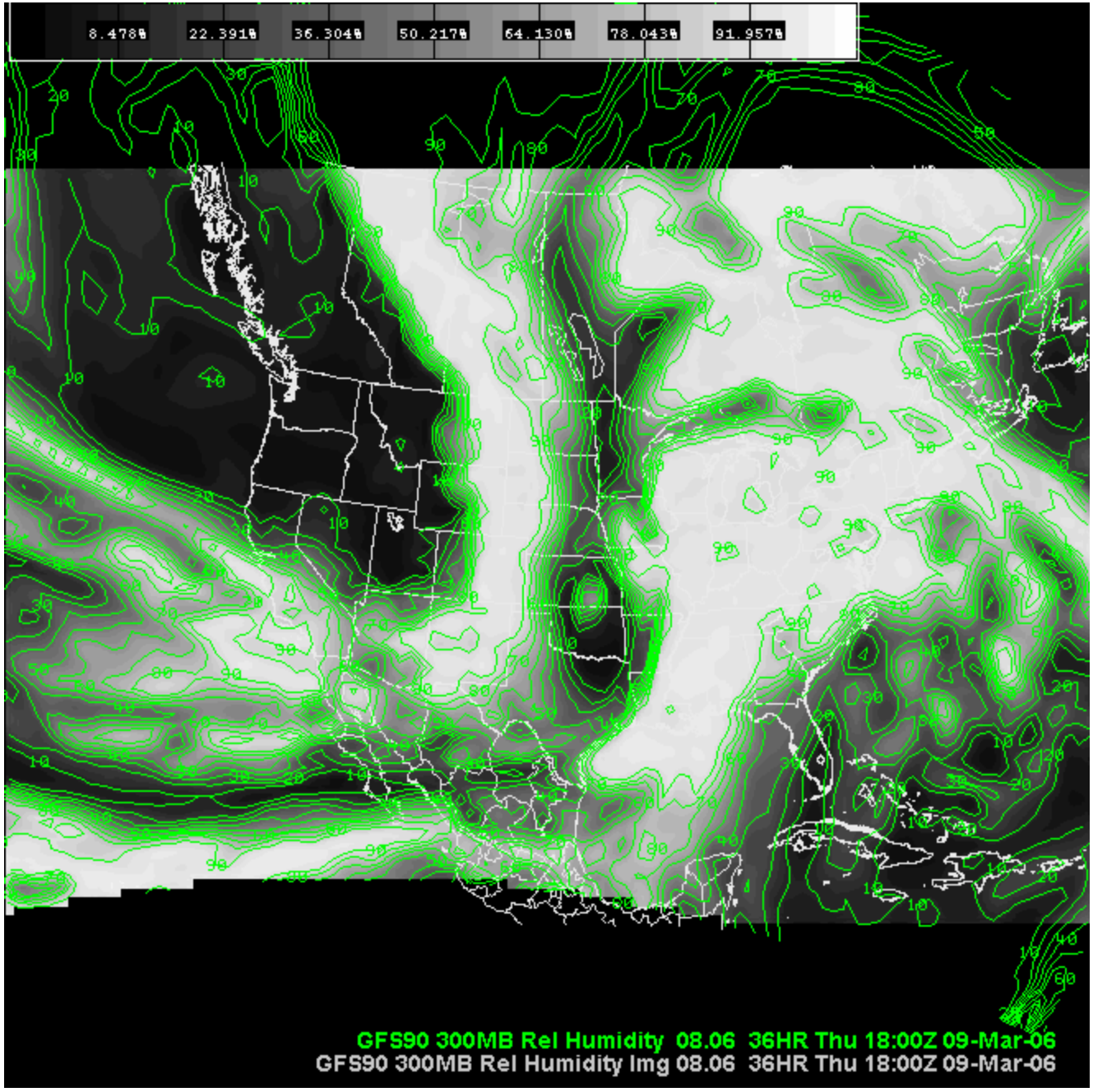
Thurs.
850 mb


8.4780
22.3910
36.3040
50.2170
64.1300
78.0430
91.9570
GFS90 850MB Rel Humidity 08.06 36HR Thu 18:00Z 09-Mar-06
GFS90 850MB Rel Humidity Img 08.06 36HR Thu 18:00Z 09-Mar-06

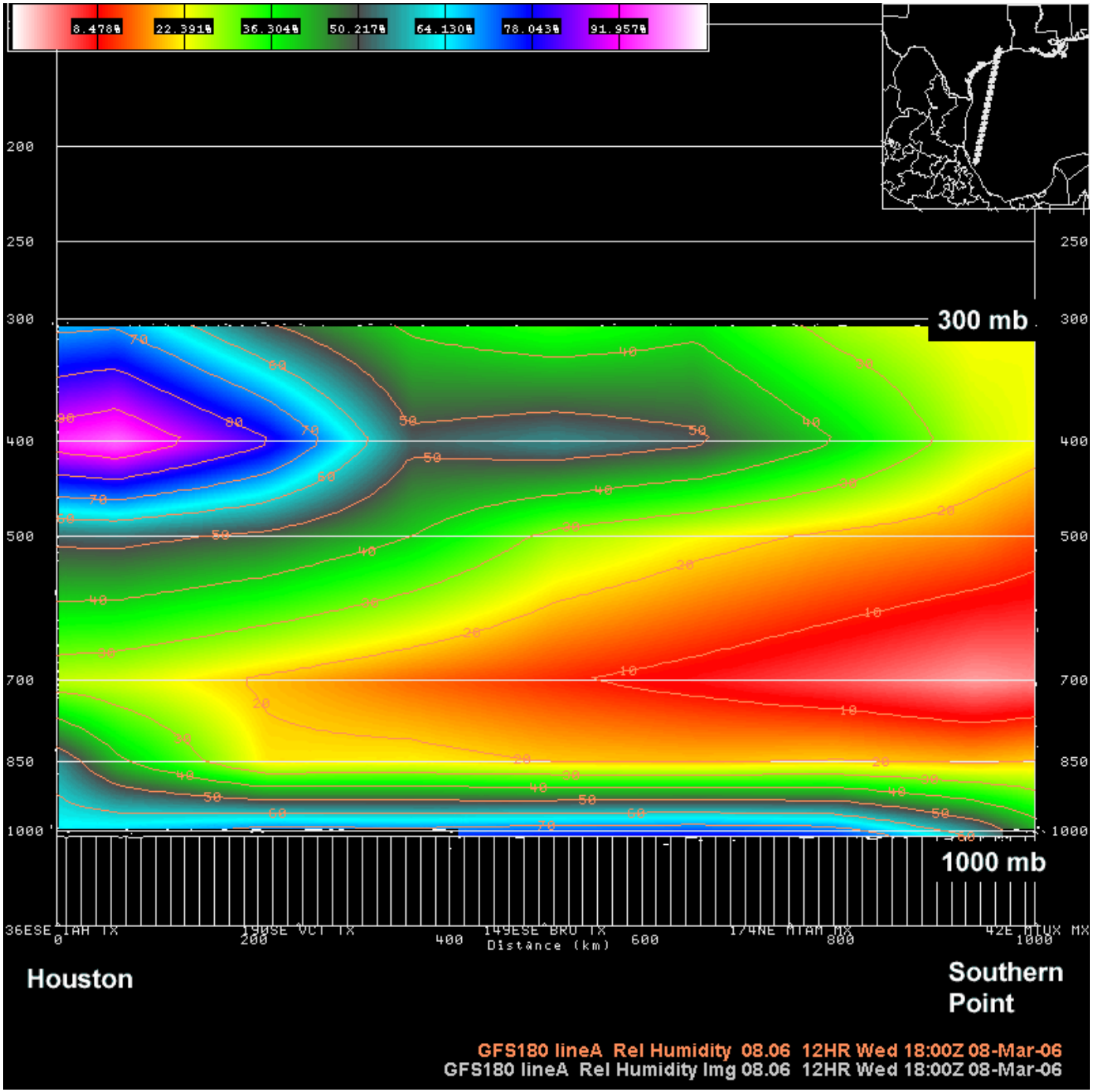
Thurs.
700 mb


8.4780
22.3910
36.3040
50.2170
64.1300
78.0430
91.9570
GFS90 700MB Rel Humidity 08.06 36HR Thu 18:00Z 09-Mar-06
GFS90 700MB Rel Humidity Img 08.06 36HR Thu 18:00Z 09-Mar-06

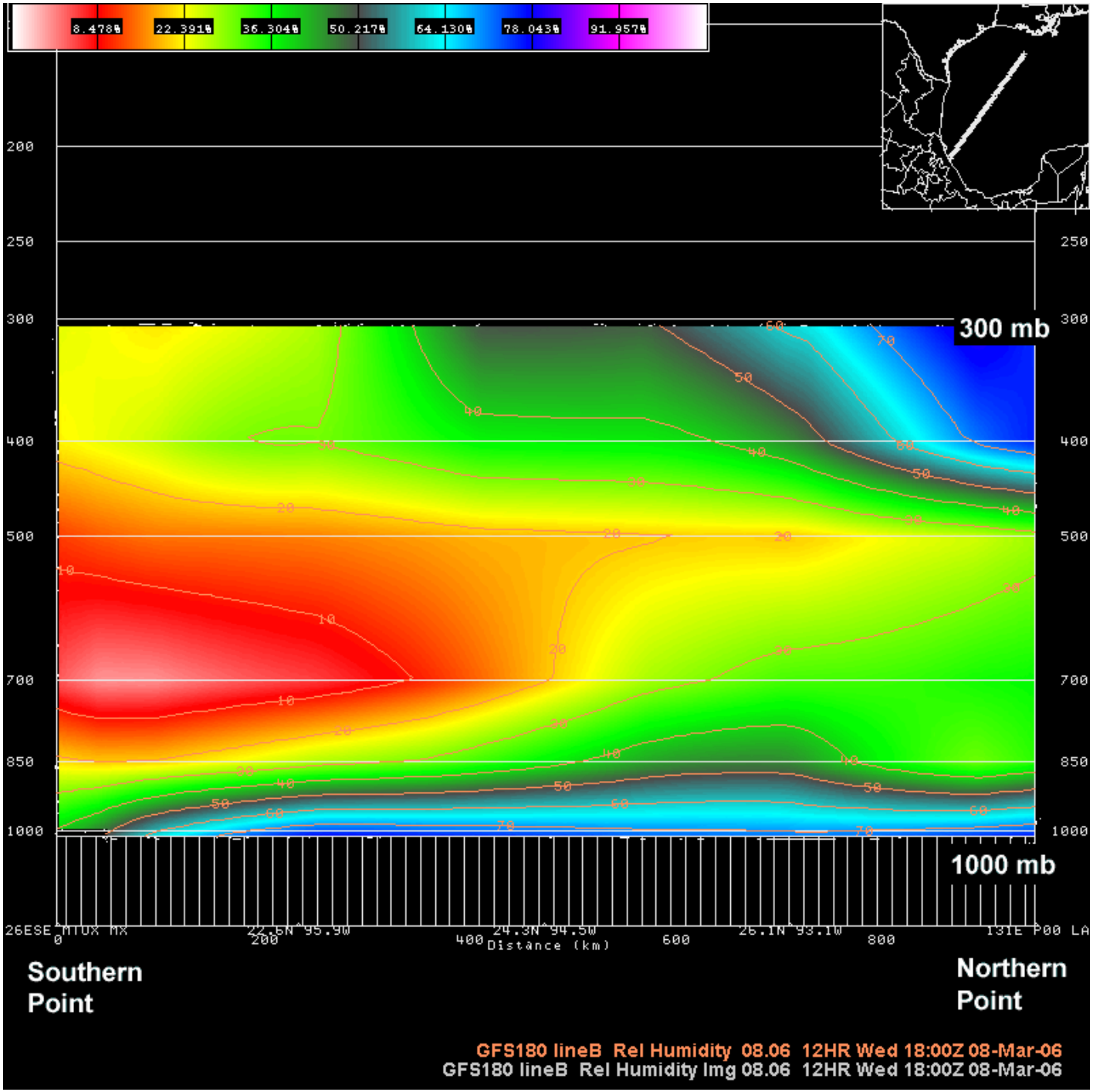
Thurs.
300 mb


8.4780
22.3910
36.3040
50.2170
64.1300
78.0430
91.9570
GFS90 300MB Rel Humidity 08.06 36HR Thu 18:00Z 09-Mar-06
GFS90 300MB Rel Humidity Img 08.06 36HR Thu 18:00Z 09-Mar-06

RH Cross Section



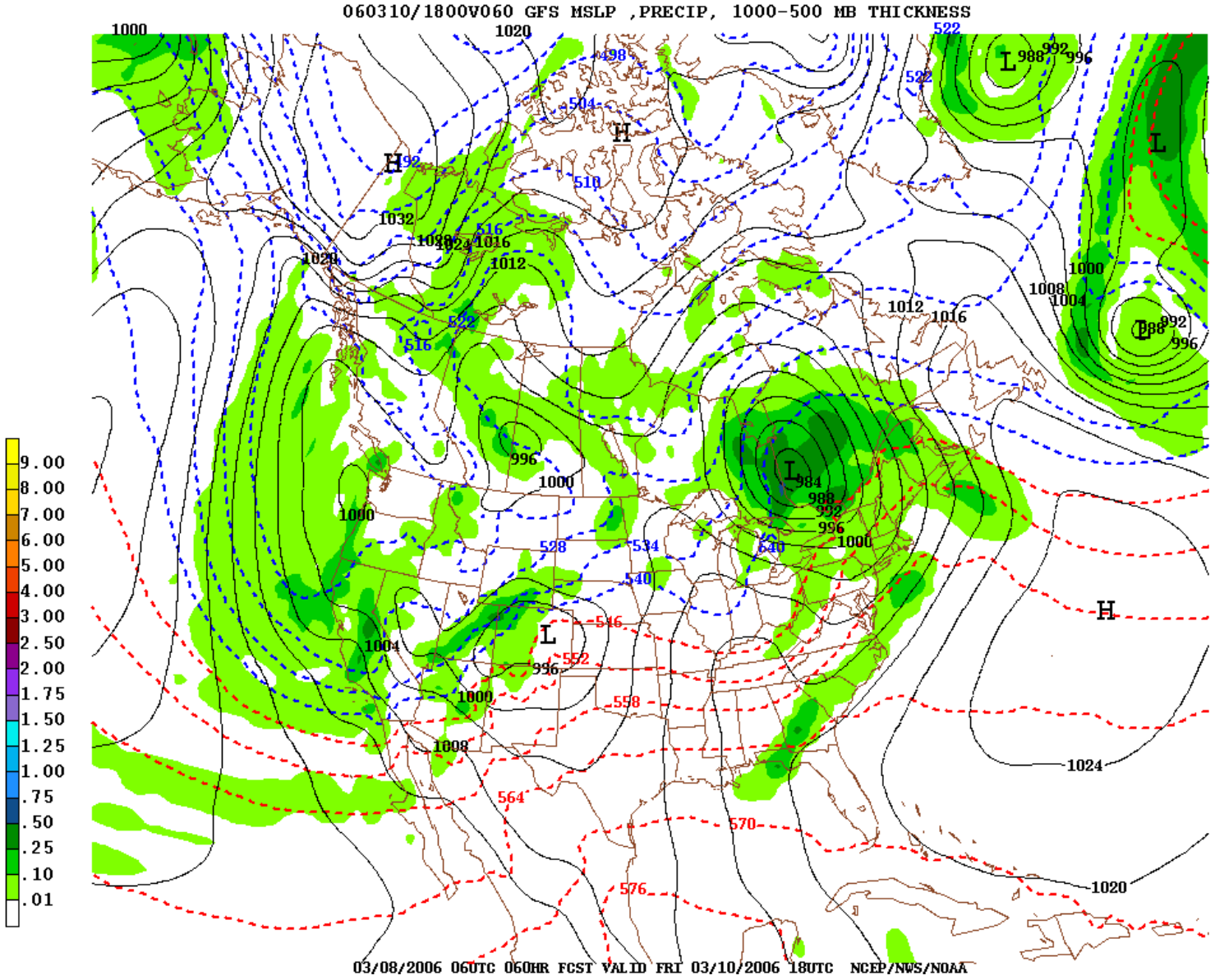
RH Cross Section



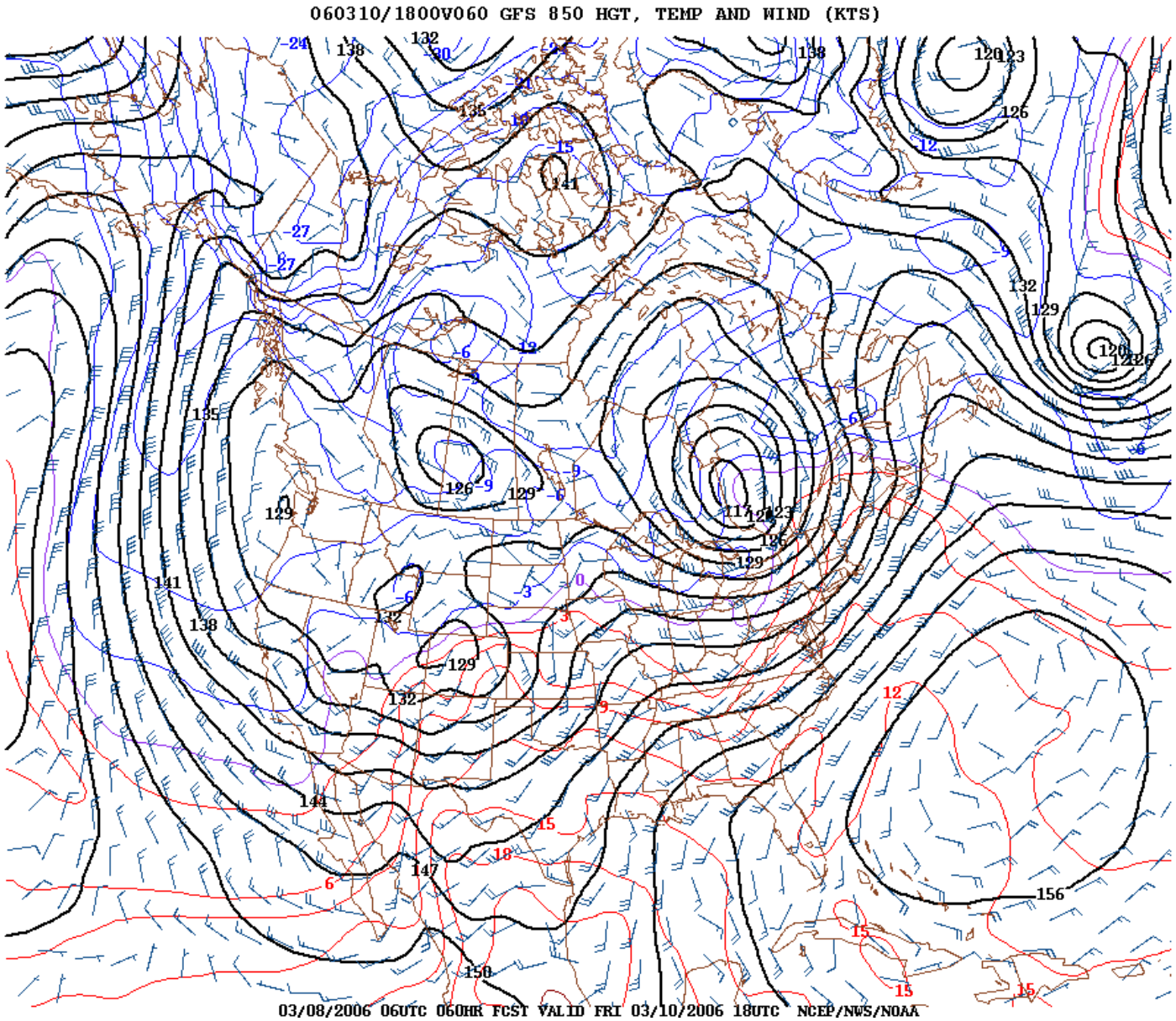
Friday Forecast

10 March 2006

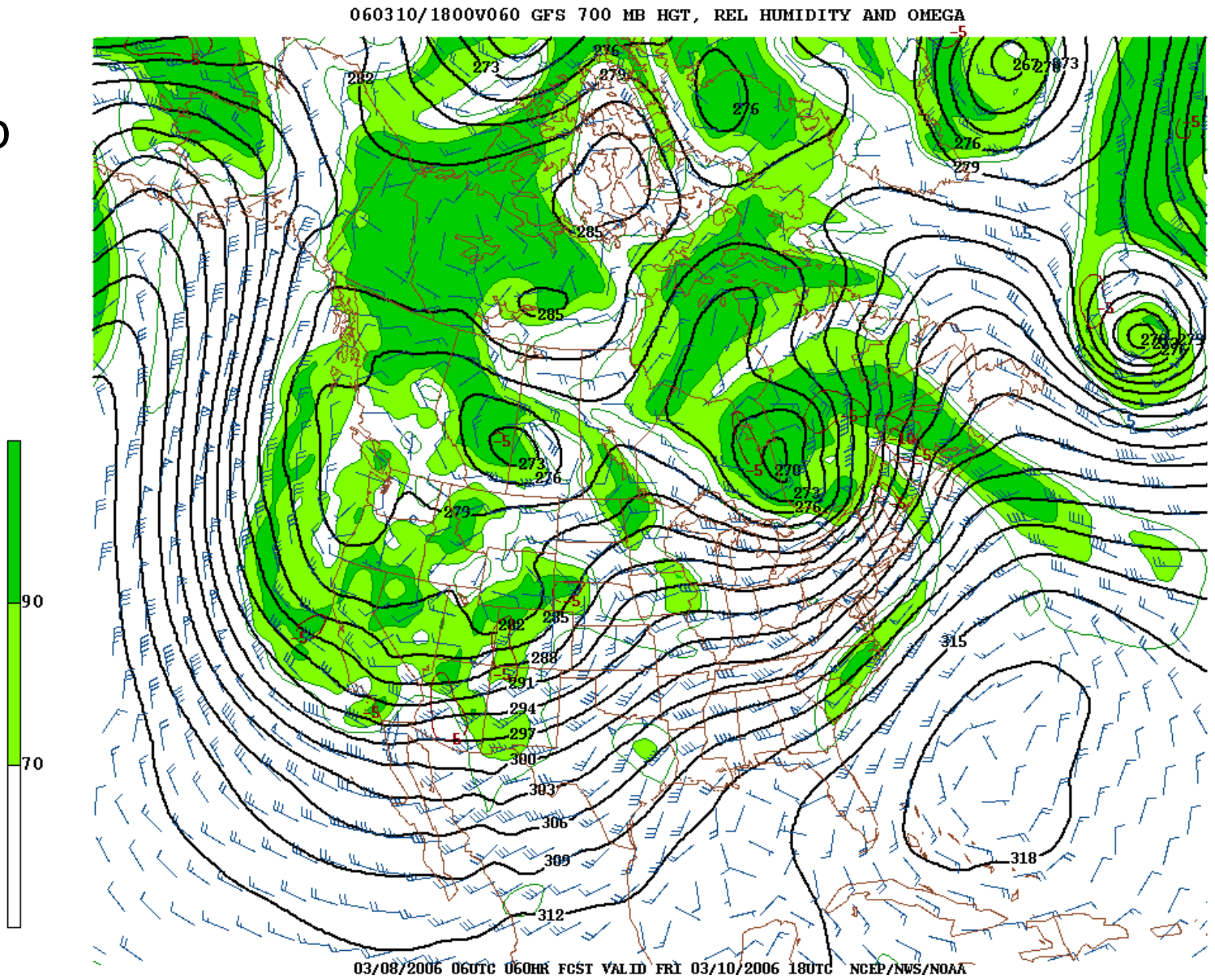
Fri.
Surface


060310/1800V060 GFS MSLP ,PRECIP, 1000-500 MB THICKNESS
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.50
2.00
1.75
1.50
1.25
1.00
.75
.50
.25
.10
.01
03/08/2006 06UTC 060HR FCST VALID FRI 03/10/2006 18UTC NCEP/NWS/NOAA

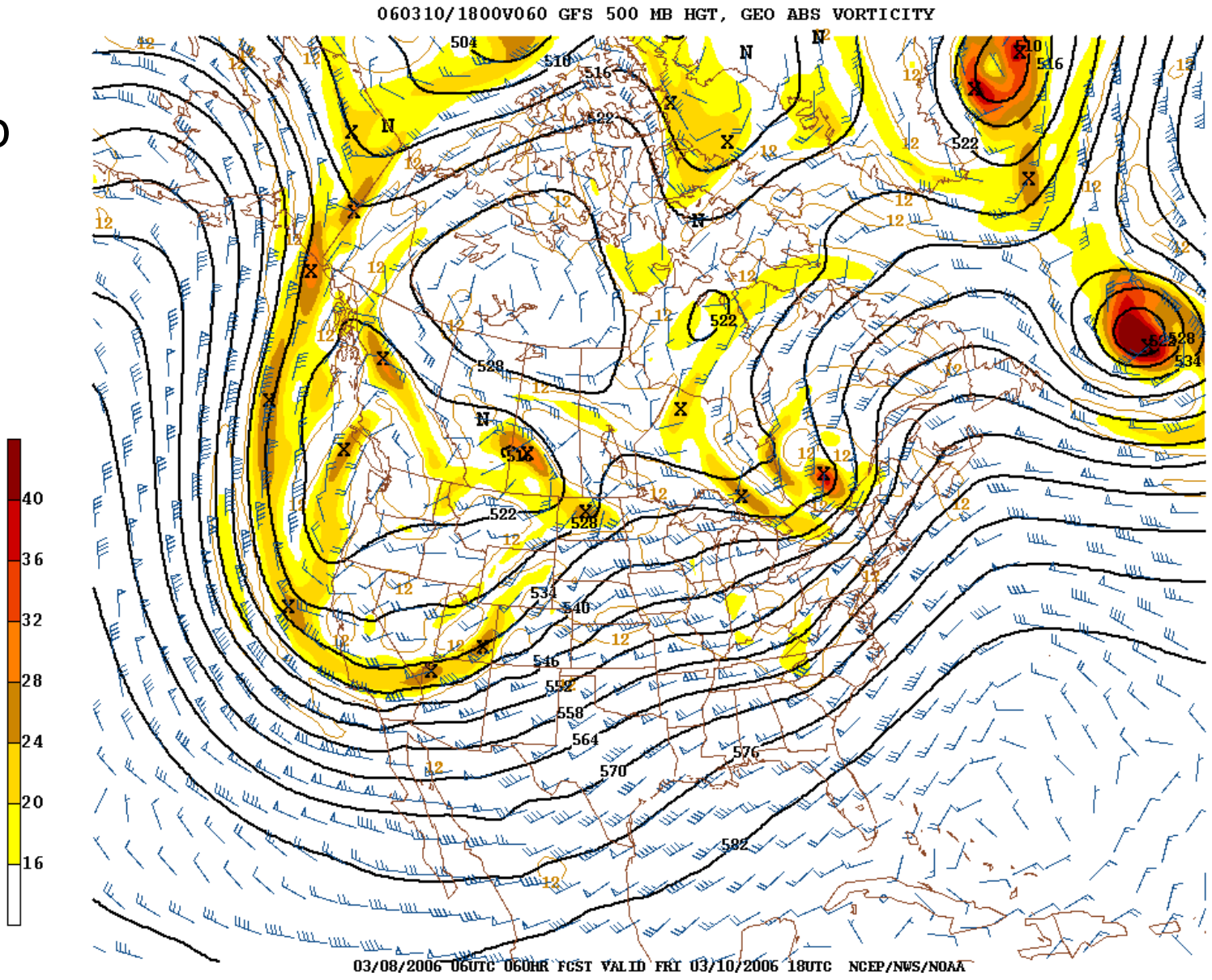
Fri.
850 mb


060310/1800V060 GFS 850 HGT, TEMP AND WIND (KTS)
03/08/2006 06UTC 060HR FCST VALID FRI 03/10/2006 18UTC NCEP/NWS/NOAA

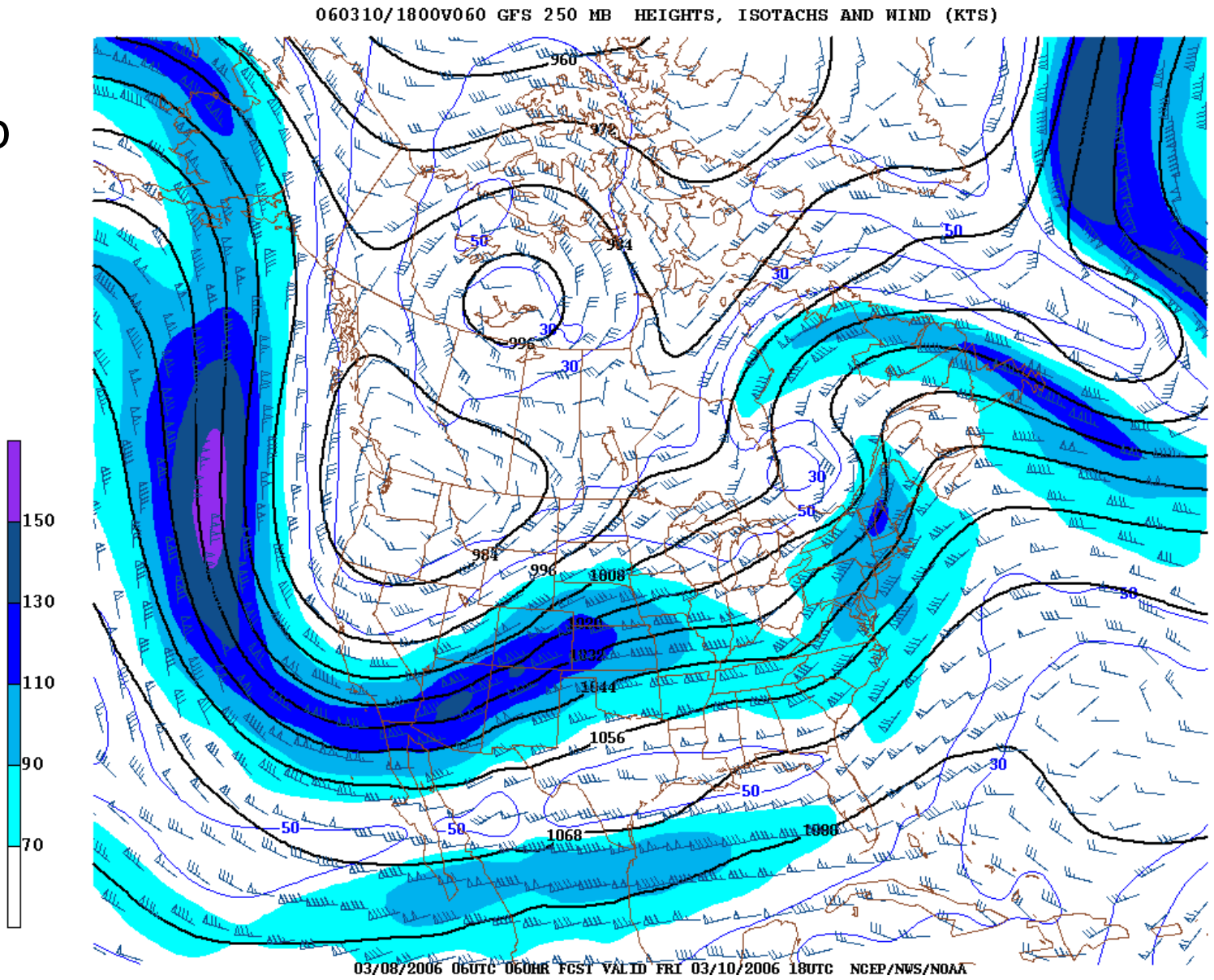
Fri.
700 mb


060310/1800V060 GFS 700 MB HGT, REL HUMIDITY AND OMEGA
90
70
03/08/2006 06UTC 060HR FCST VALID FRI 03/10/2006 18UTC NCEP/NWS/NOAA

Fri.
500 mb

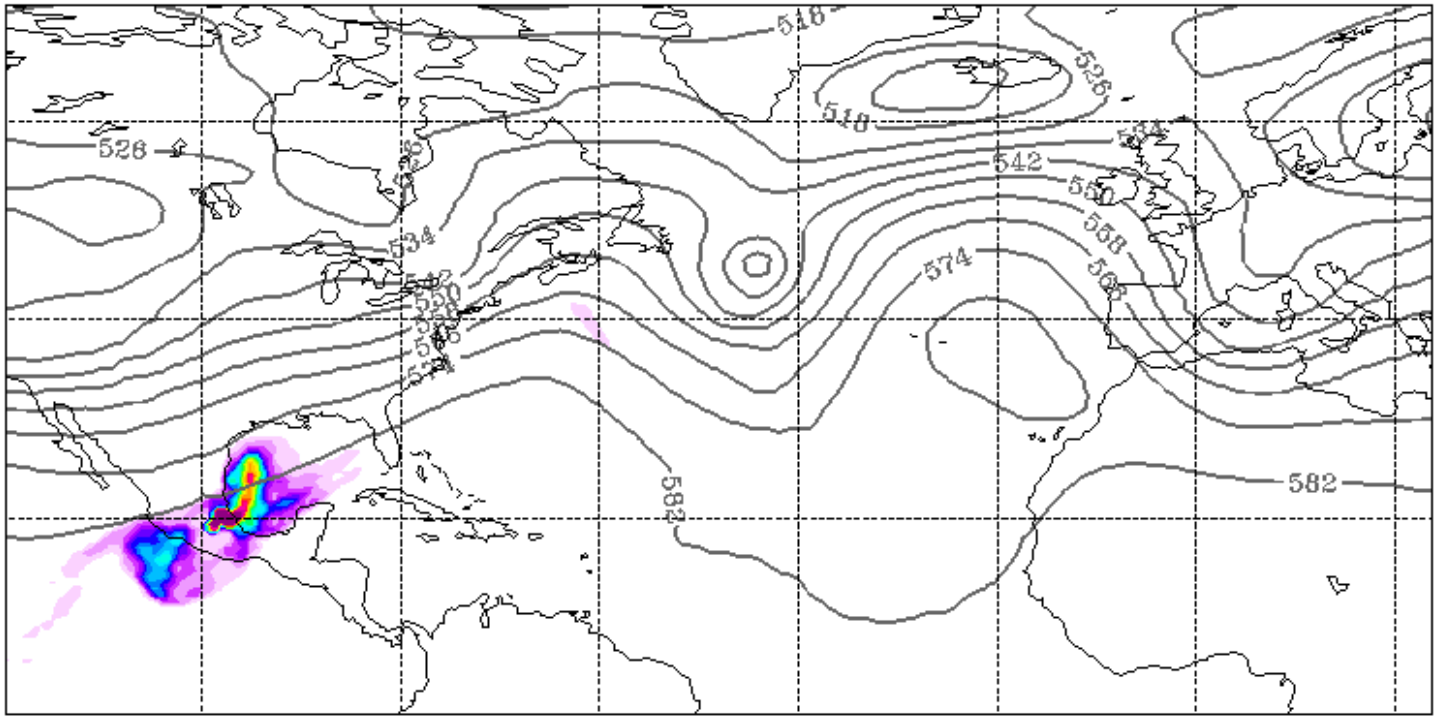

060310/1800V060 GFS 500 MB HGT, GEO ABS VORTICITY
504
510
516
522
528
534
540
546
552
558
564
570
576
582
40
36
32
28
24
20
16
03/08/2006 06UTC 060HR FCST VALID FRI 03/10/2006 18UTC NCEP/NWS/NOAA

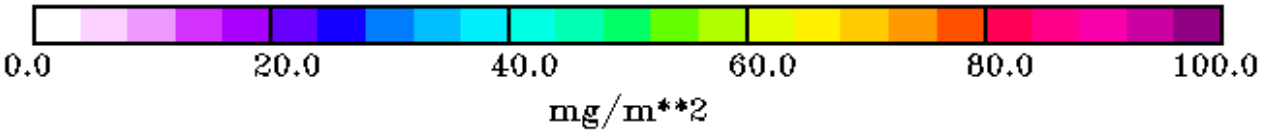
Fri.
250 mb


060310/1800V060 GFS 250 MB HEIGHTS, ISOTACHS AND WIND (KTS)
960
972
984
996
1008
1020
1032
1044
1056
1068
1080
150
130
110
90
70
03/08/2006 06UTC 060HR FCST VALID FRI 03/10/2006 18UTC NCEP/NWS/NOAA

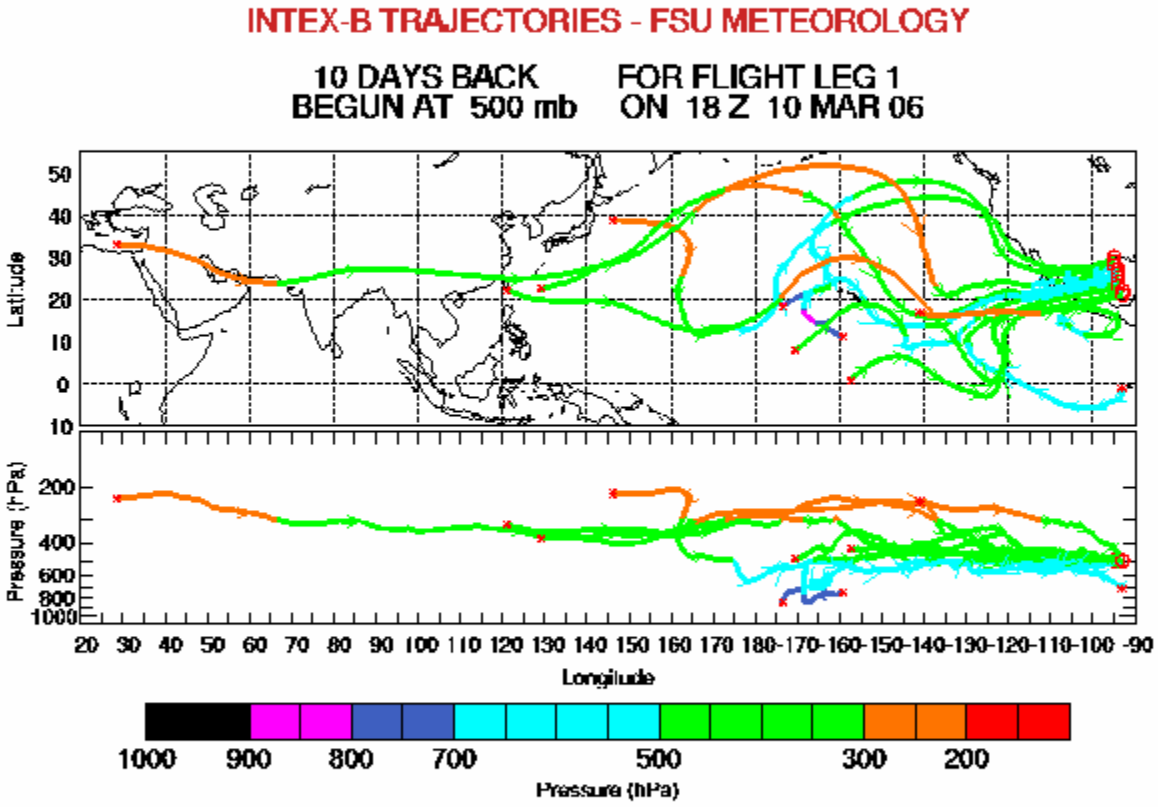
TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060308 0 UTC ACTUAL 20060310 180000 UTC
MAXIMUM VALUE: 0.235E+03

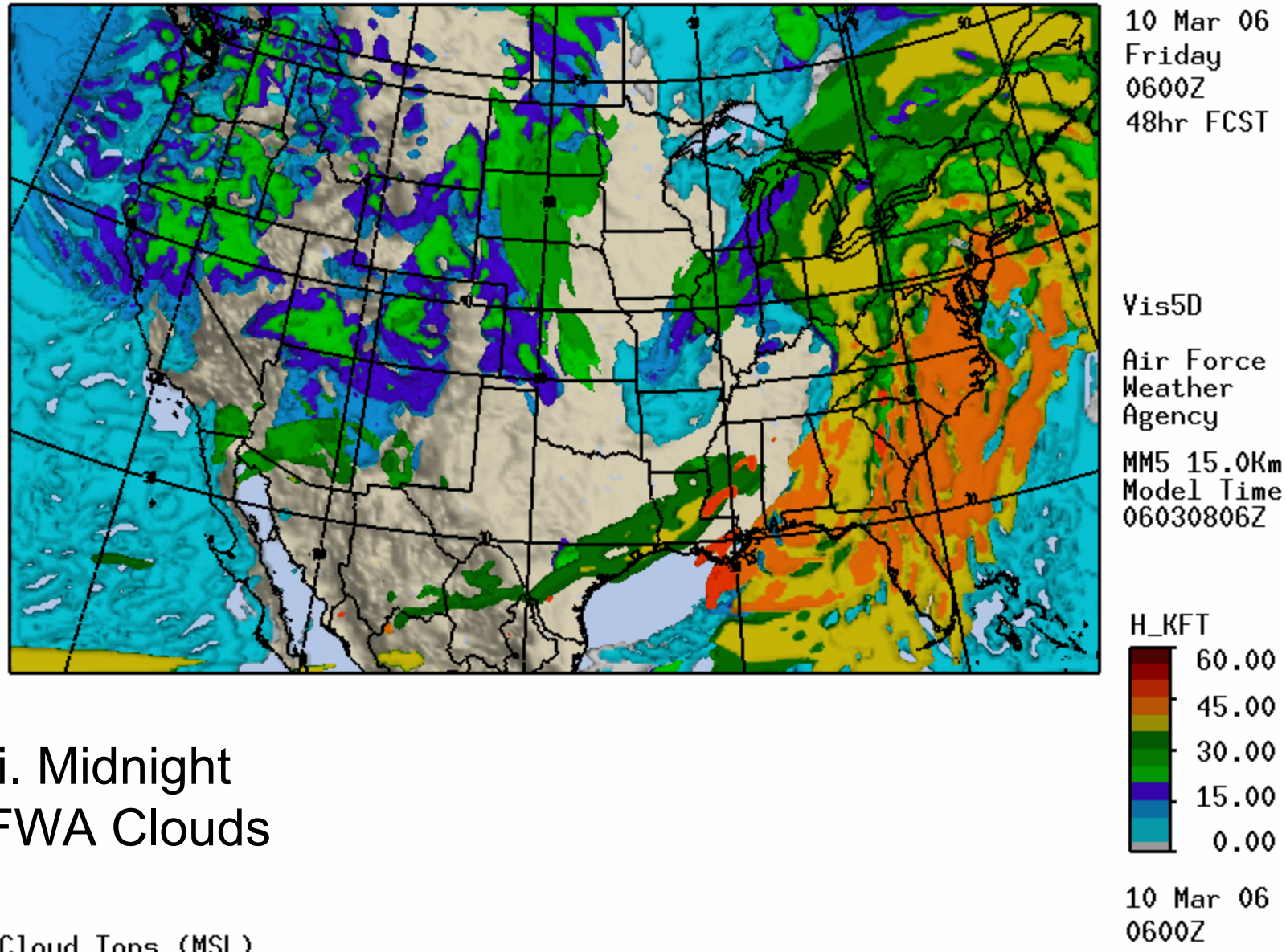
Fri. 18Z





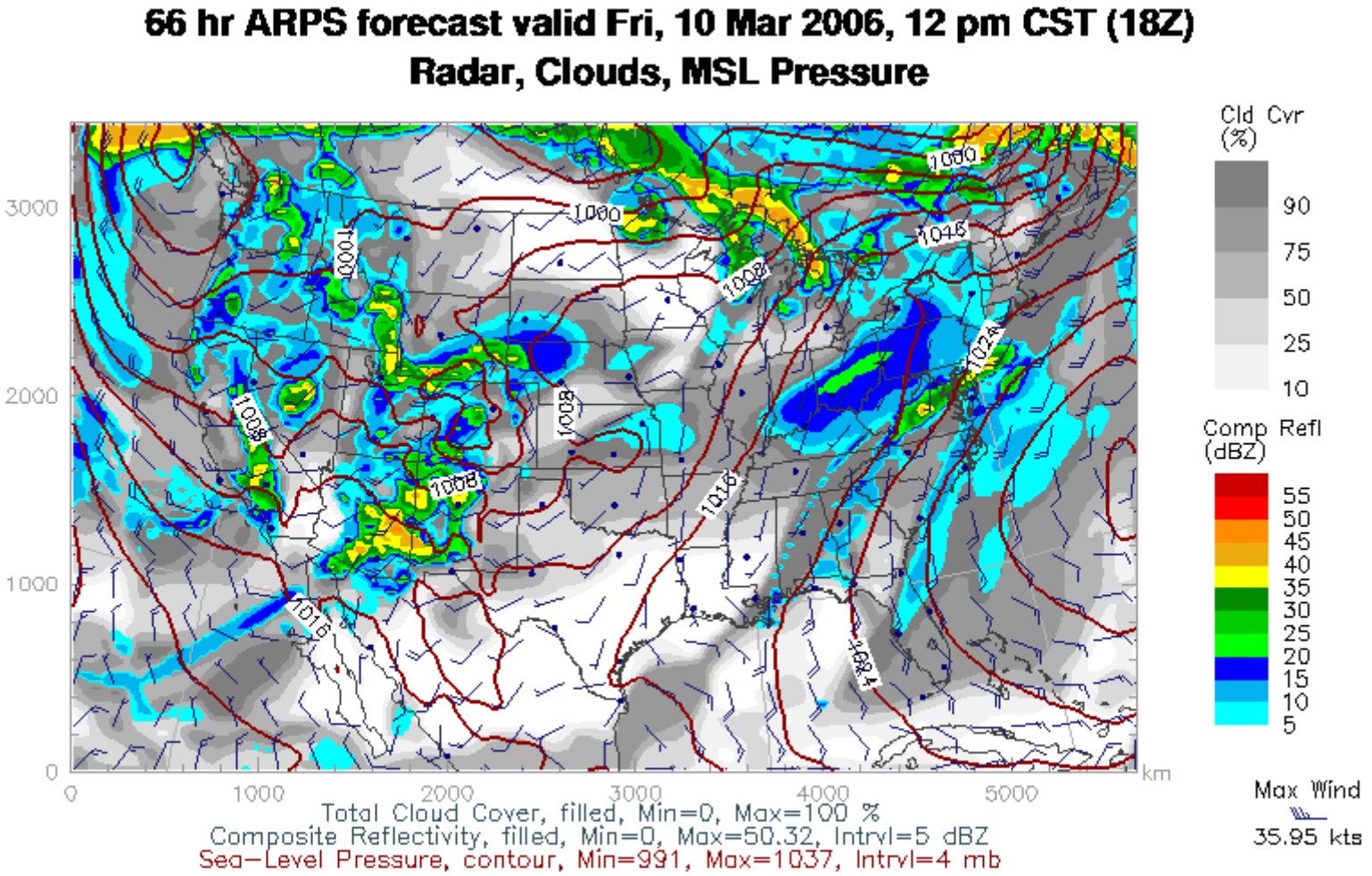
500 mb Backward





Fri. Midnight
AFWA Clouds

Fri.
ARPS
Clouds

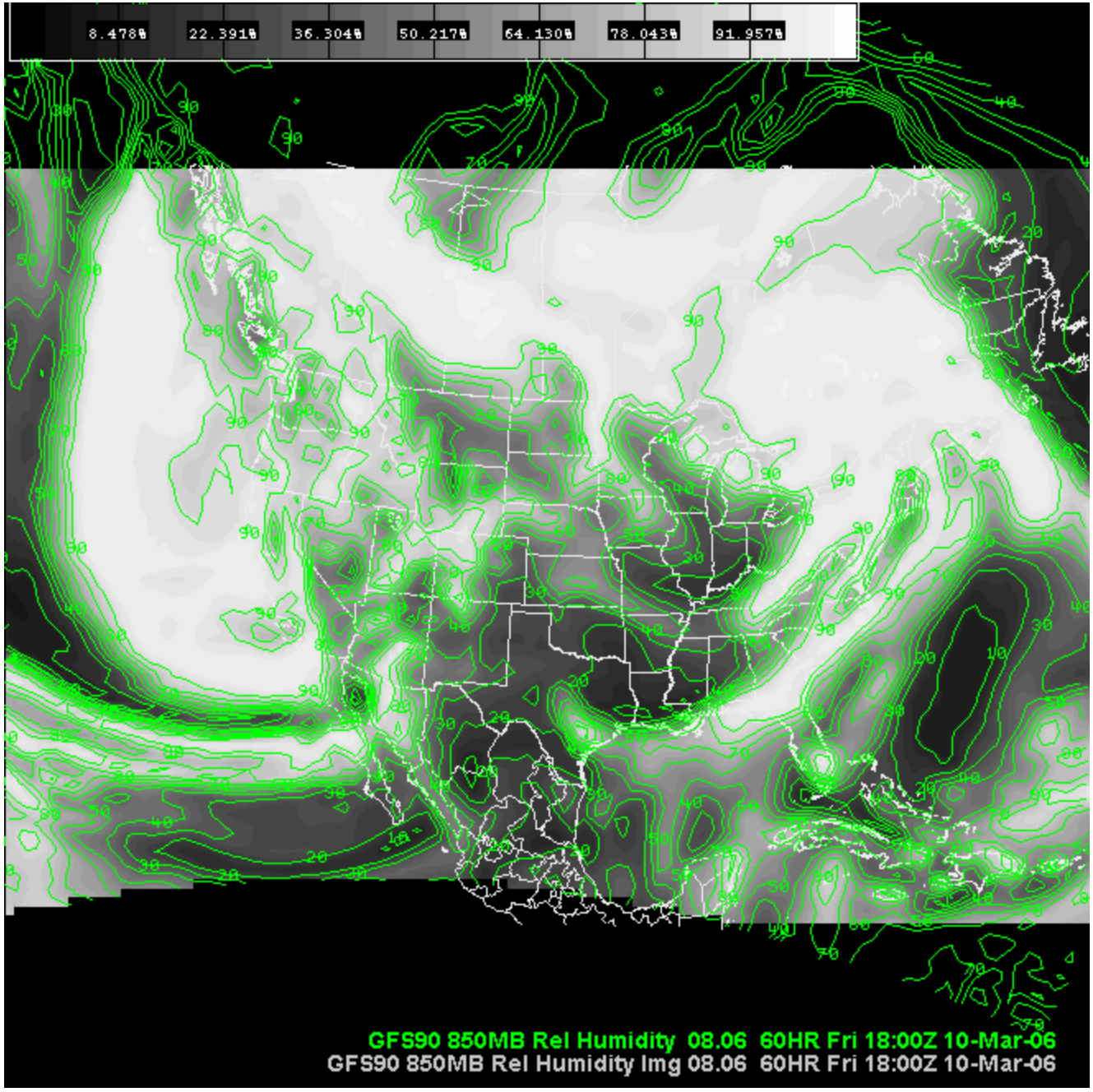


CAPS/OU Experimental Forecasts

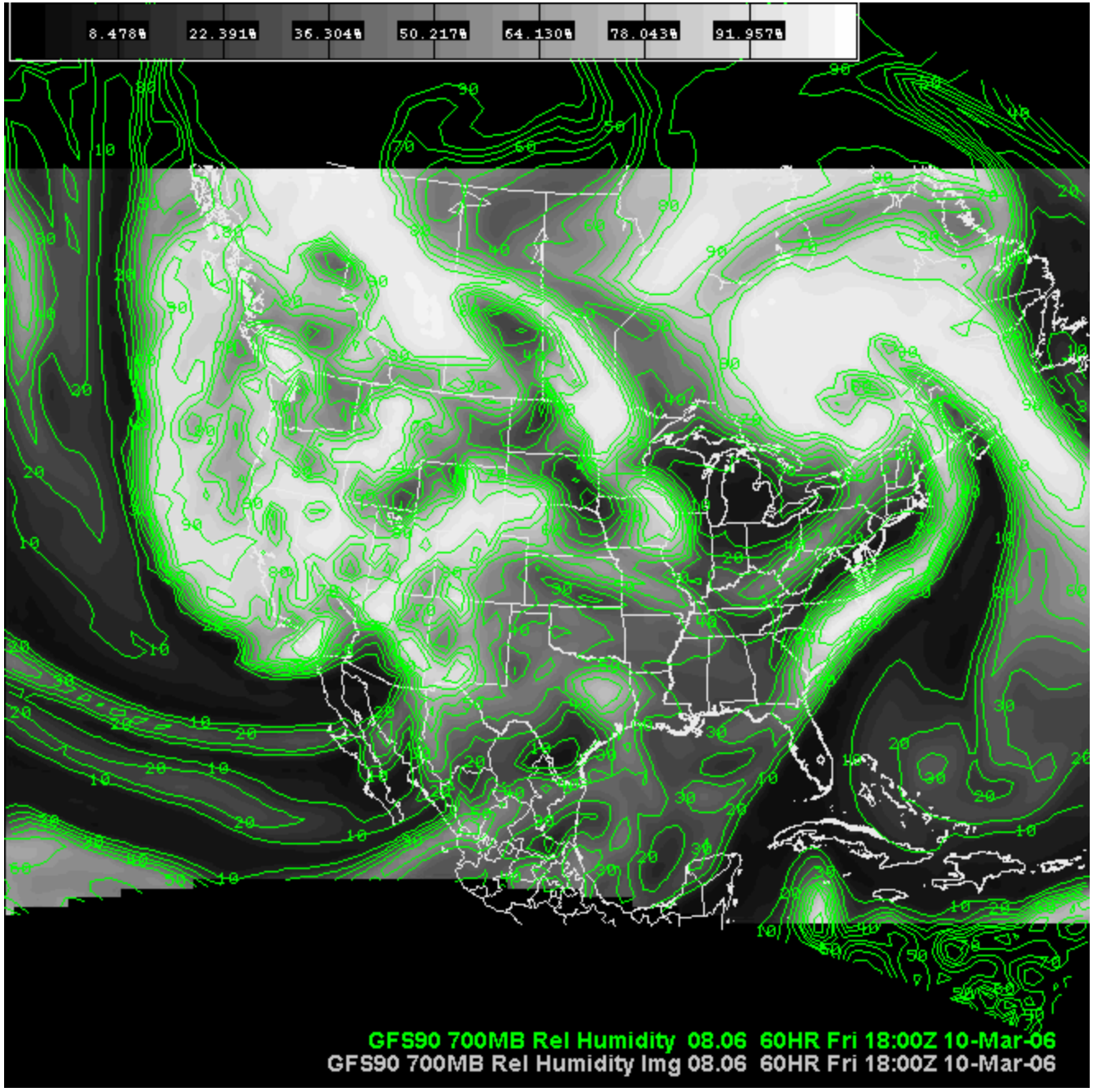
CONUS, 210x128x50, dx=27 km

03/08/06 05:35 CST

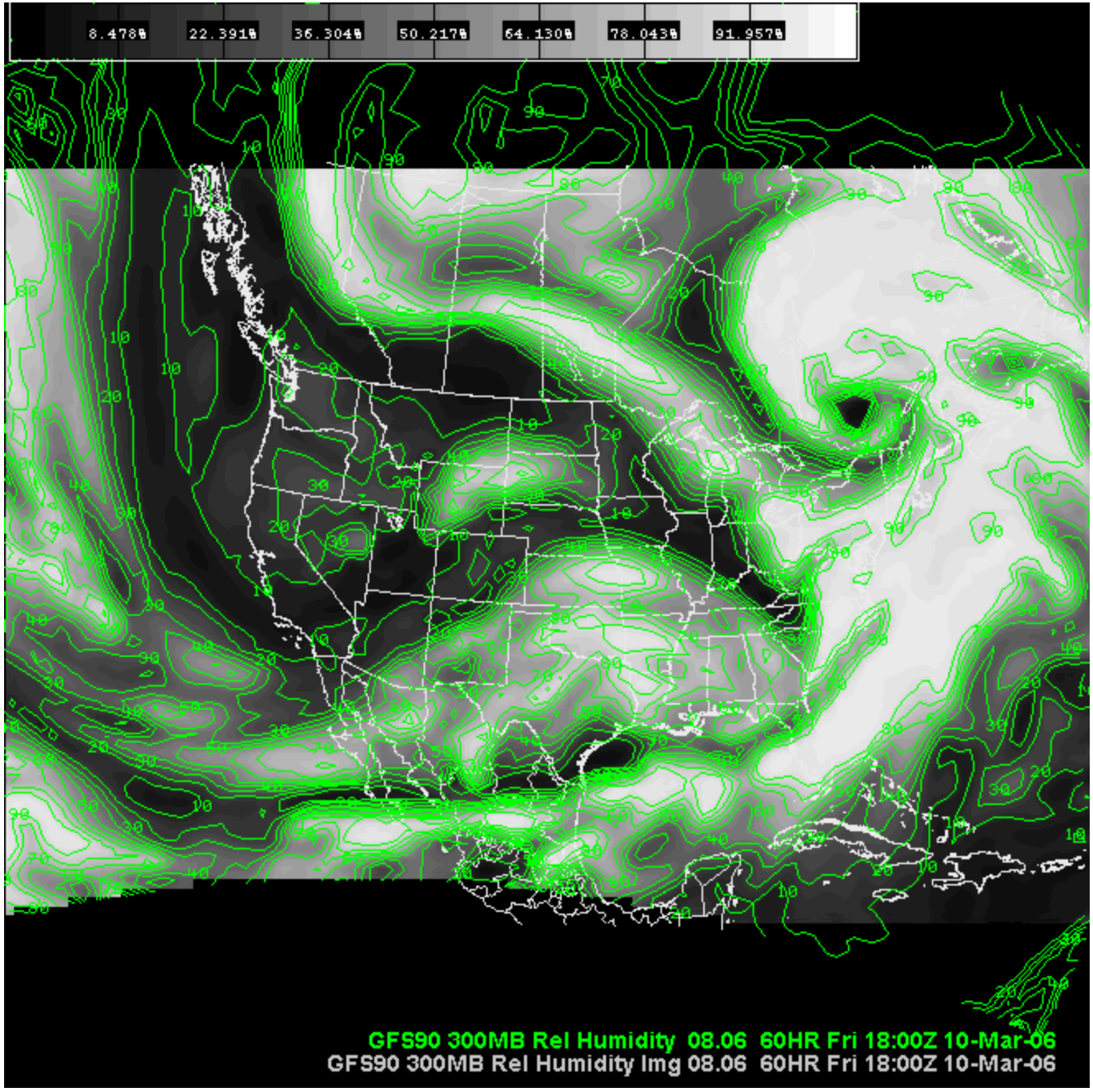
Fri.
850 mb


8.4780
22.3910
36.3040
50.2170
64.1300
78.0430
91.9570
GFS90 850MB Rel Humidity 08.06 60HR Fri 18:00Z 10-Mar-06
GFS90 850MB Rel Humidity Img 08.06 60HR Fri 18:00Z 10-Mar-06

Fri.
700 mb


8.4780
22.3910
36.3040
50.2170
64.1300
78.0430
91.9570
GFS90 700MB Rel Humidity 08.06 60HR Fri 18:00Z 10-Mar-06
GFS90 700MB Rel Humidity Img 08.06 60HR Fri 18:00Z 10-Mar-06

Fri.
300 mb


8.4780
22.3910
36.3040
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