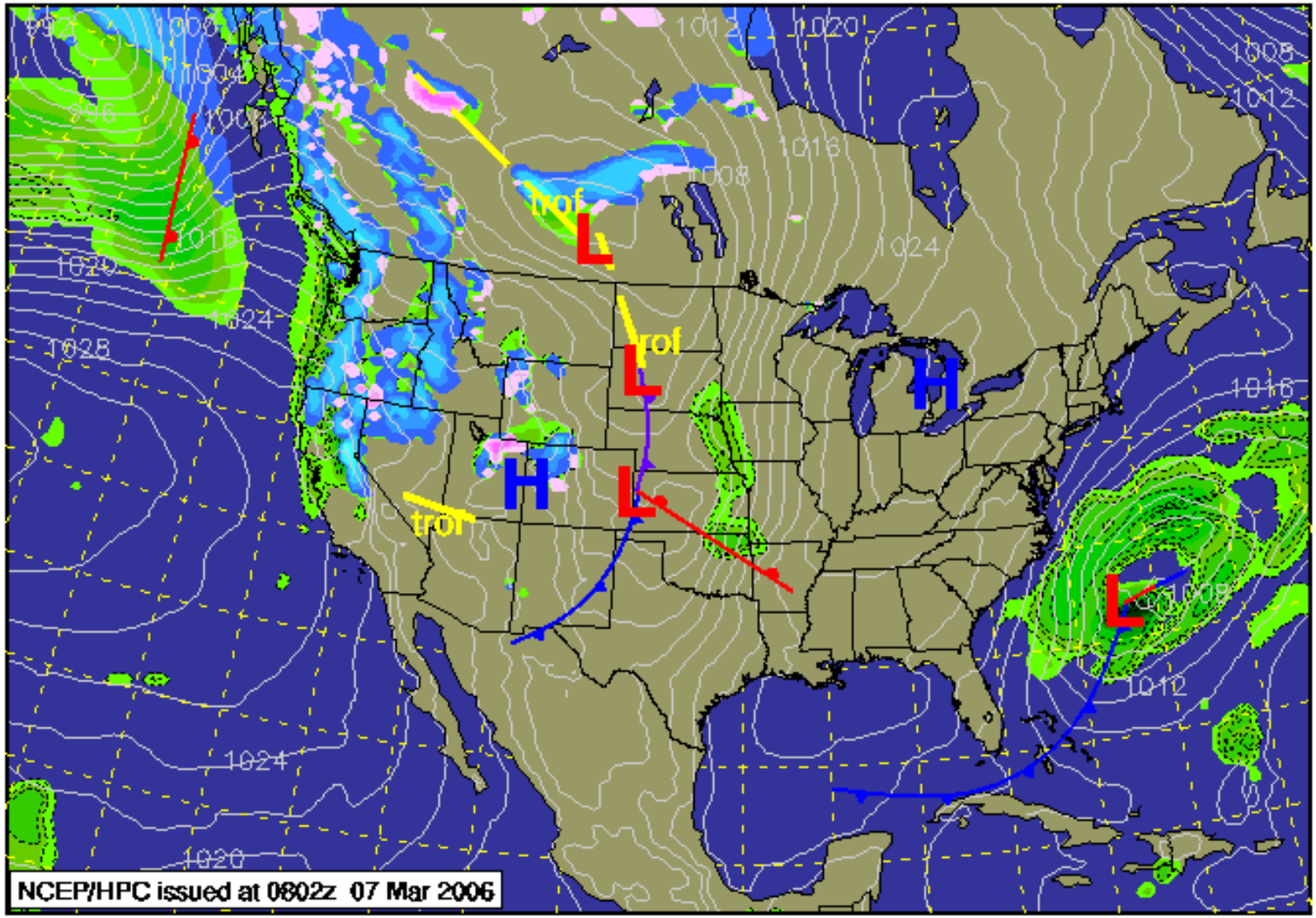
Current Conditions

7 March 2006

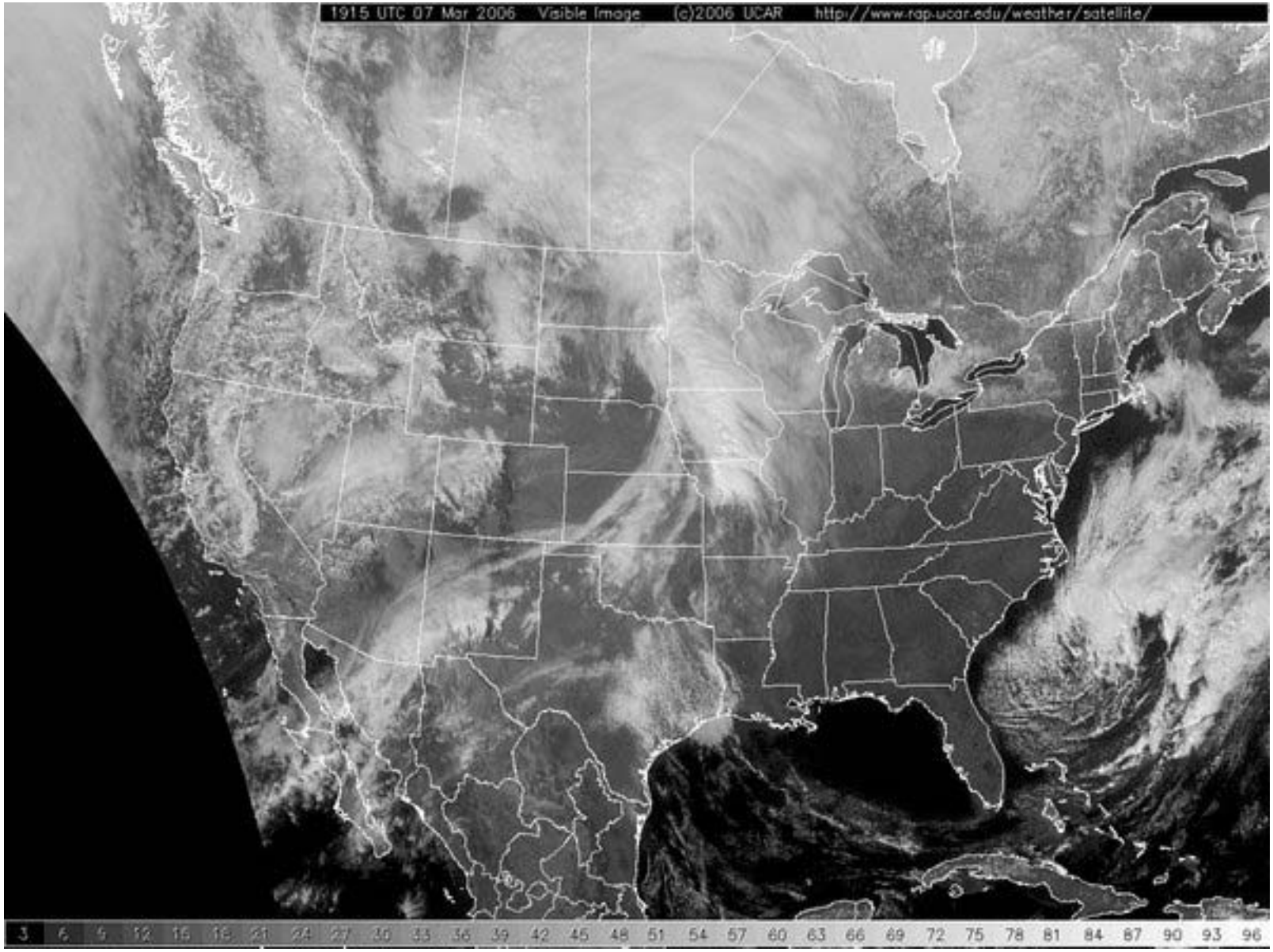
Henry Fuelberg
Geoffrey Stano

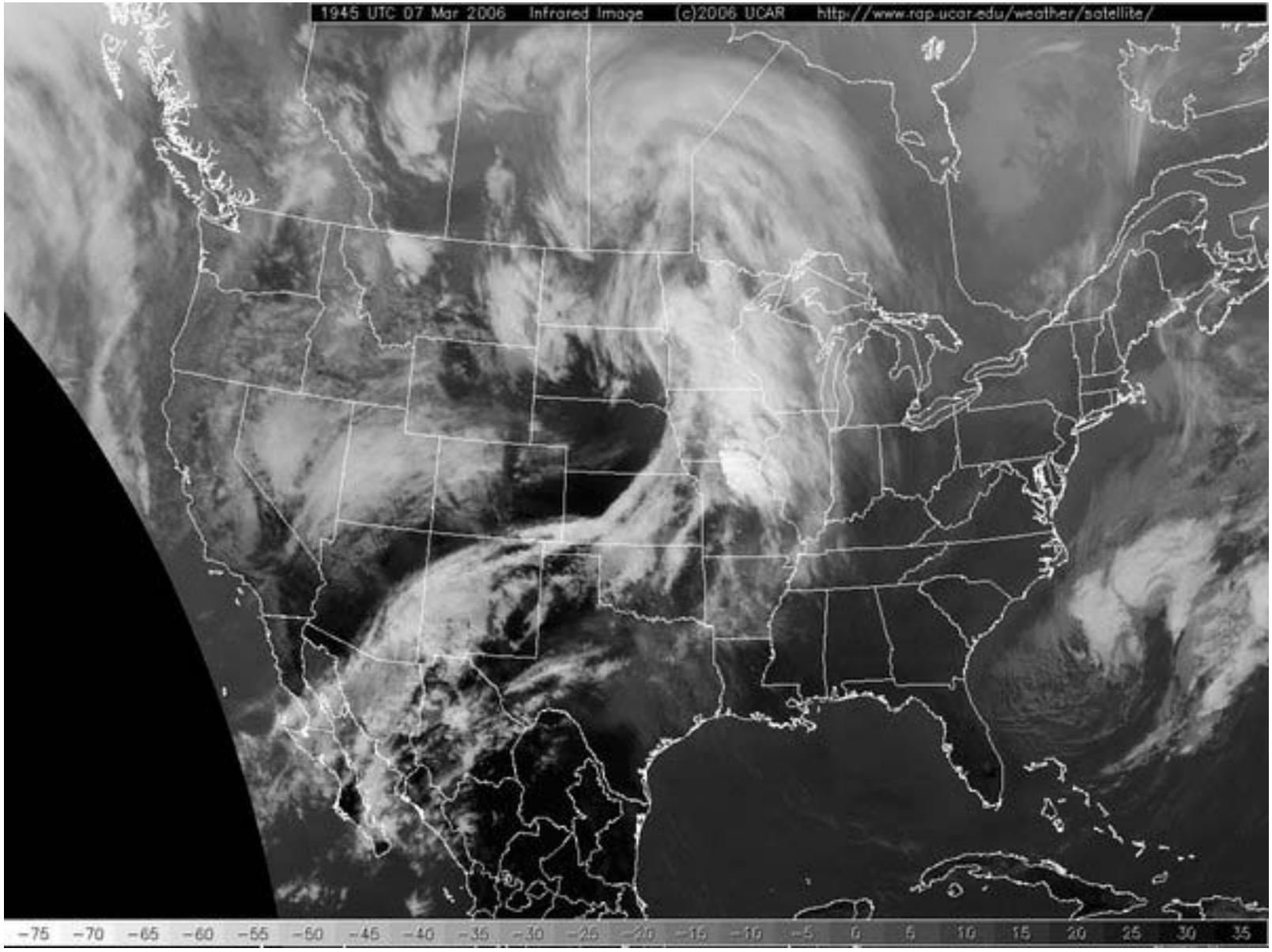
"Your Eyes to the Skies"

12 hr forecast valid 1800 UTC Tue 07 Mar 2006

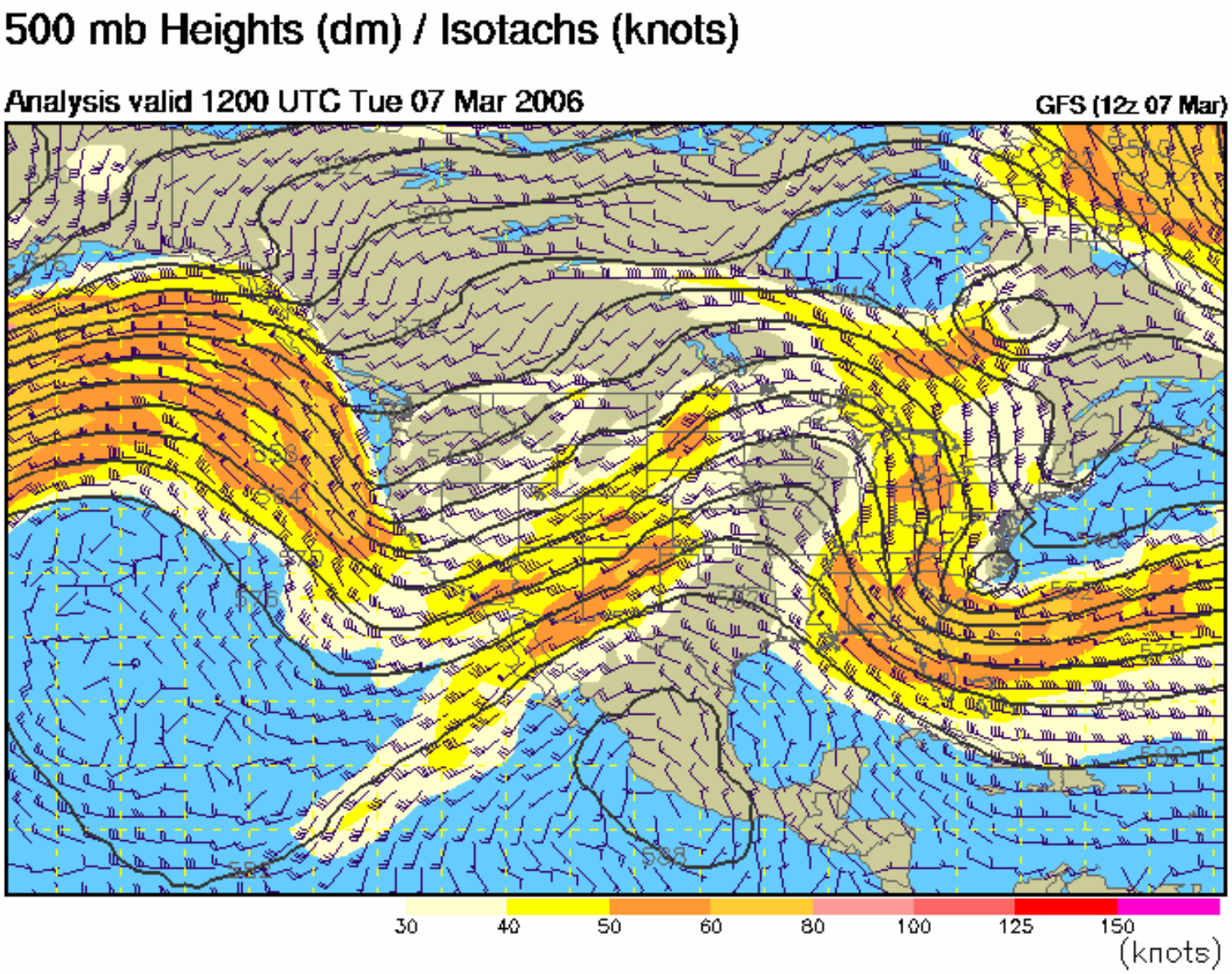


Rain Snow Wintry mix


1915 UTC 07 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

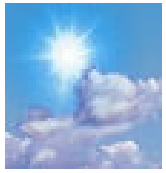

1945 UTC 07 Mar 2006 Infrared Image (c)2006 UCAR http://www.rap.ucar.edu/weather/satellite/
-75 -70 -65 -60 -55 -50 -45 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35

Current 500 mb



Houston Forecast

This Afternoon



Partly Cloudy
Hi 81°F

Tonight

Mostly Cloudy
Lo 65°F

Wednesday

Slight Chc Tstms
Hi 82°F

Wednesday Night

Chance Tstms
Lo 63°F

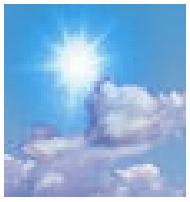
Thursday

Chance Tstms
Hi 79°F

Thursday Night

Mostly Clear
Lo 56°F

Friday



Partly Cloudy
Hi 81°F

Friday Night

Partly Cloudy
Lo 60°F

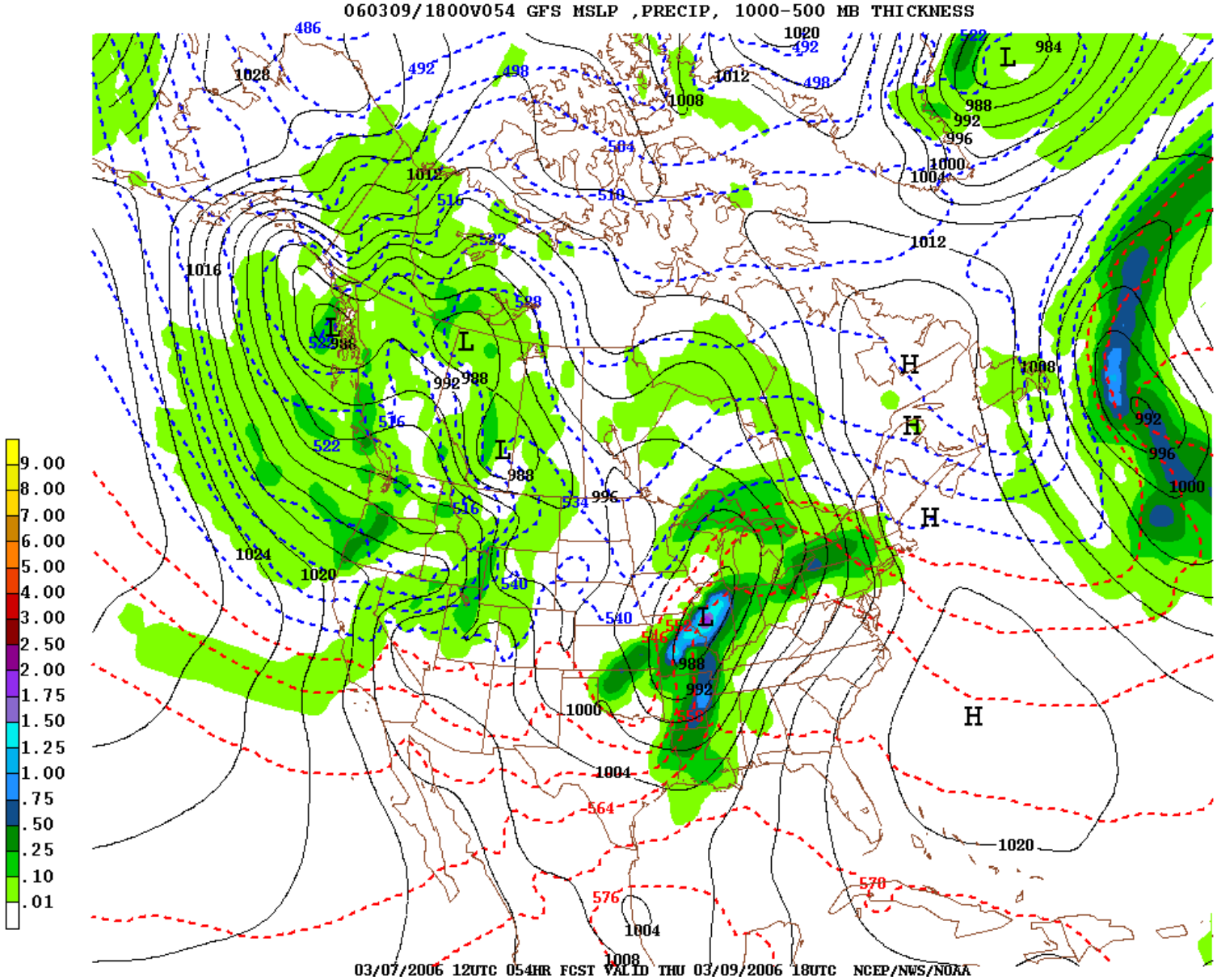
Saturday

Slight Chc Tstms
Hi 81°F

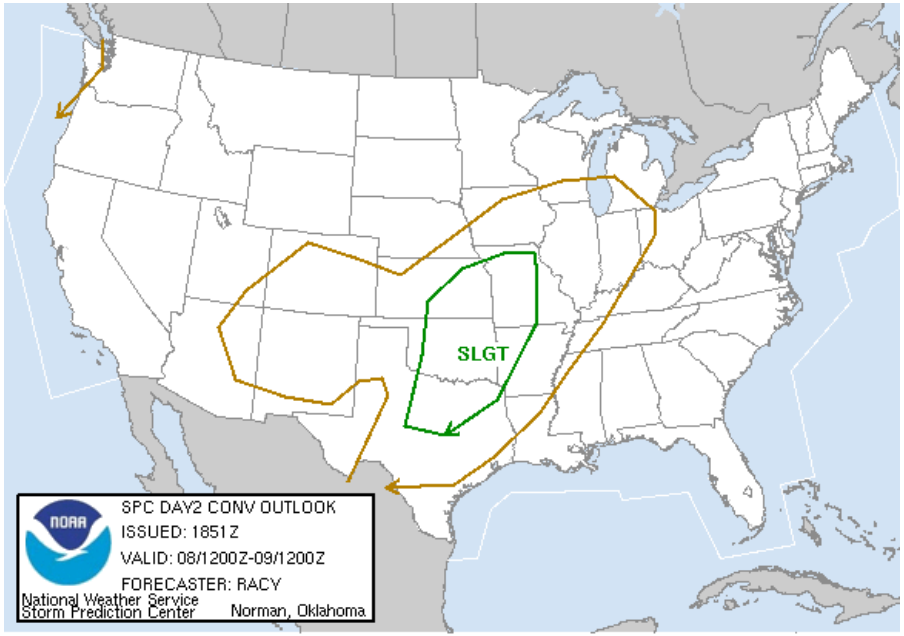
Thursday Forecast

9 March 2006

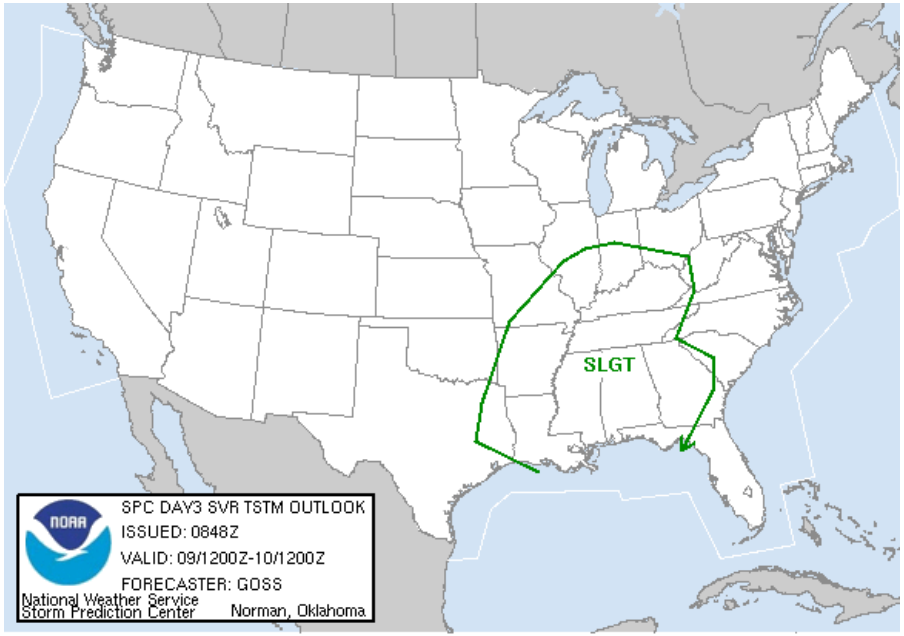
March 9 Surface



Storm Prediction Center Forecasts

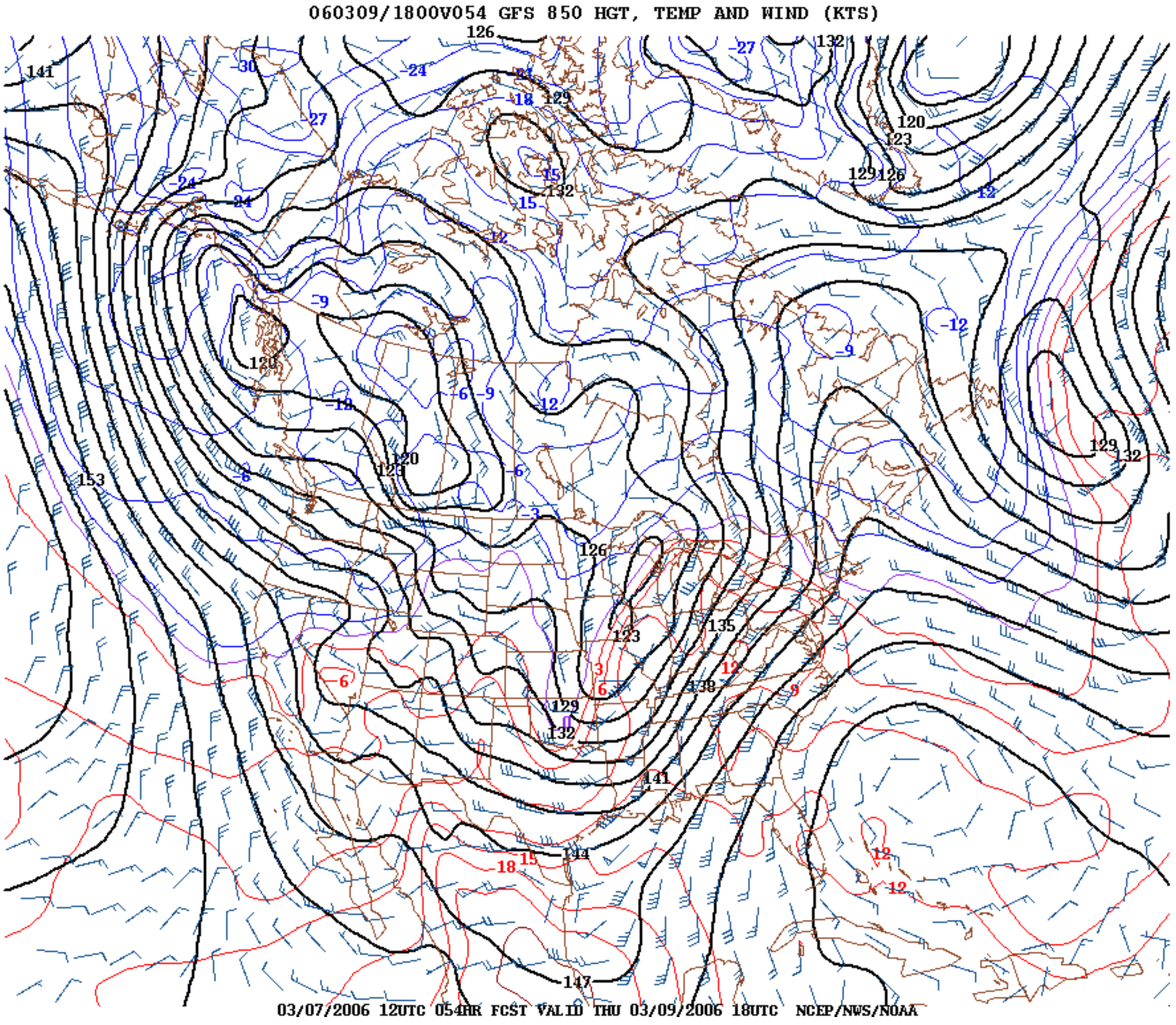


Wednesday

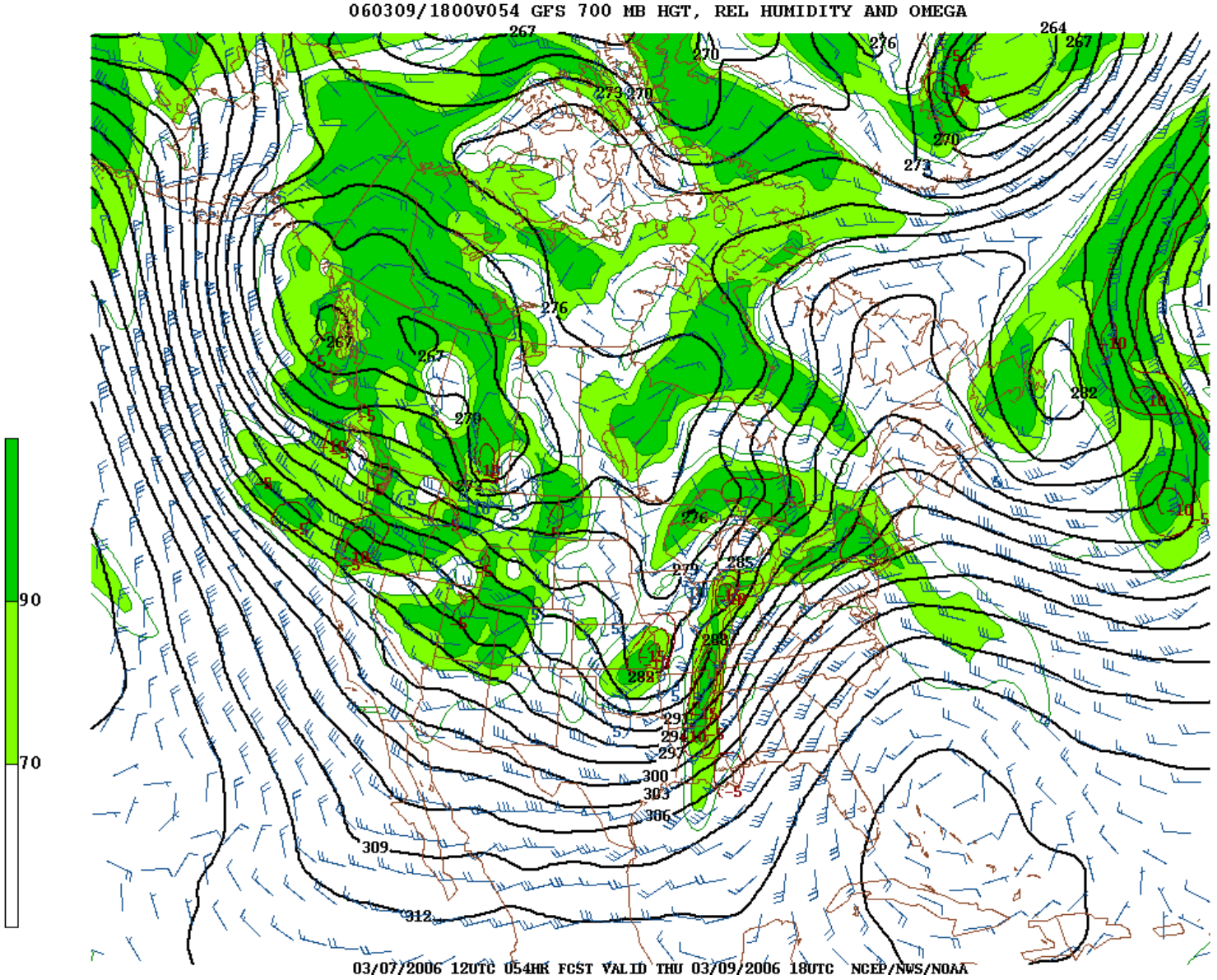


Thursday

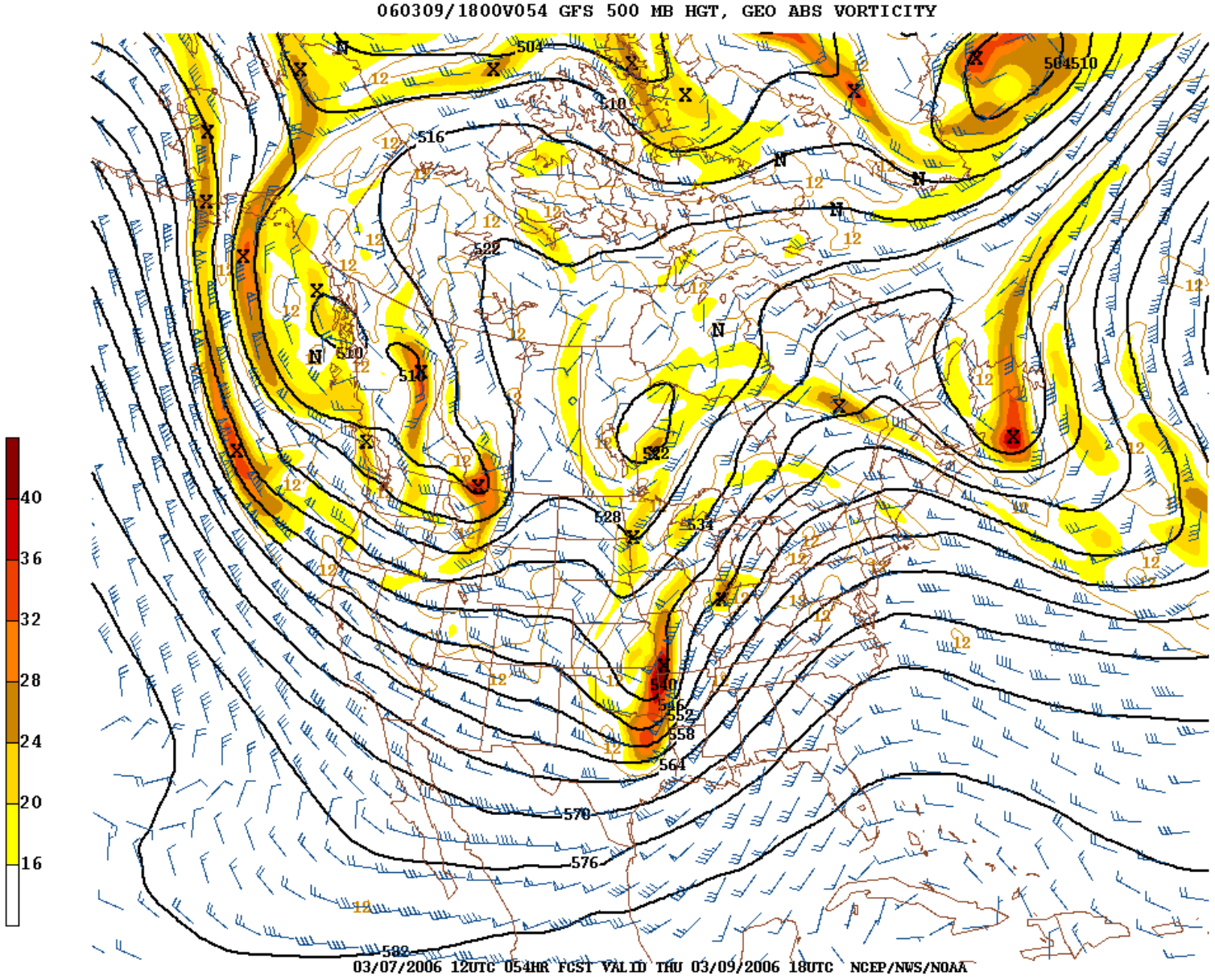
March 9
850 mb



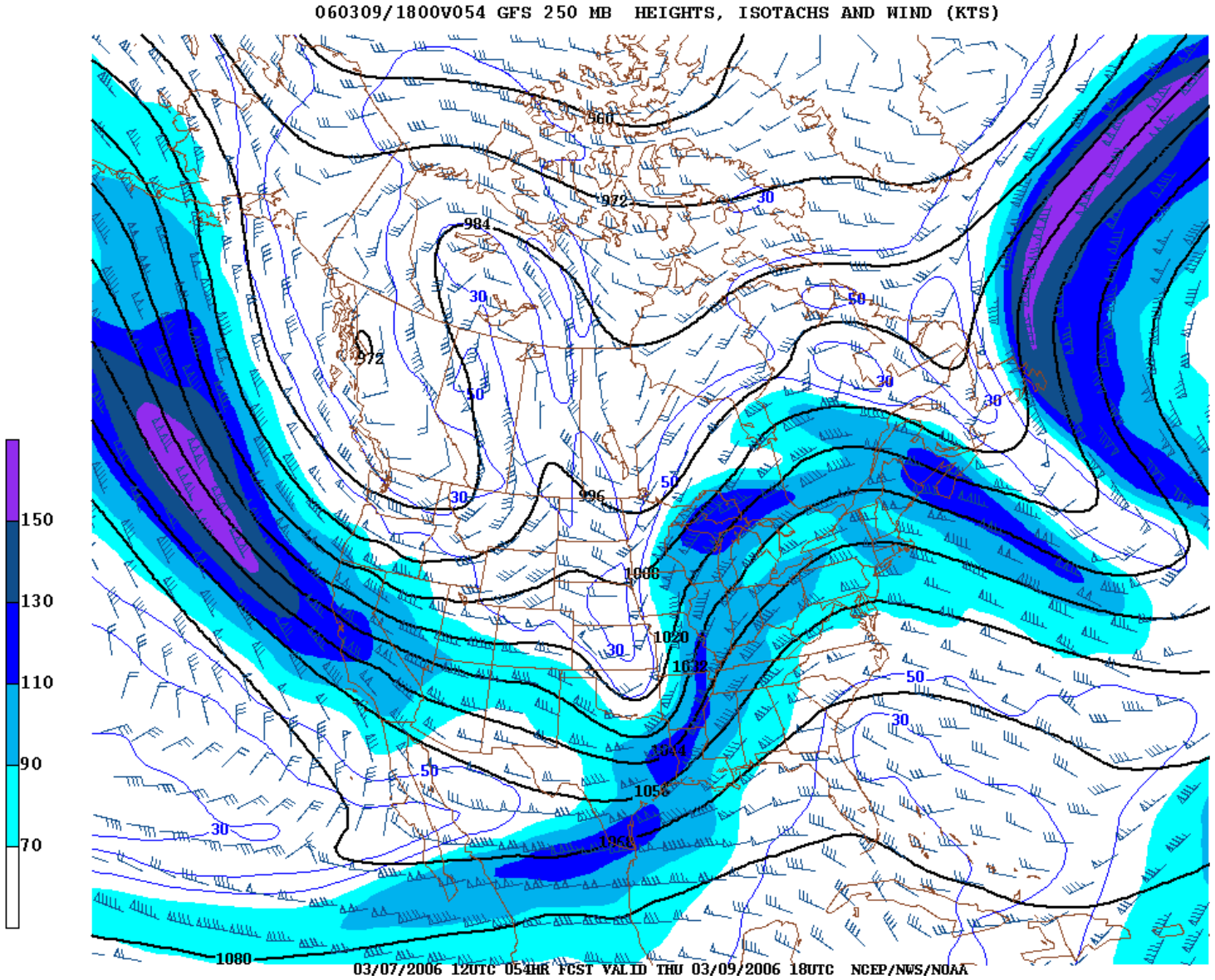
March 9
700 mb



March 9
500 mb



March 9
250 mb

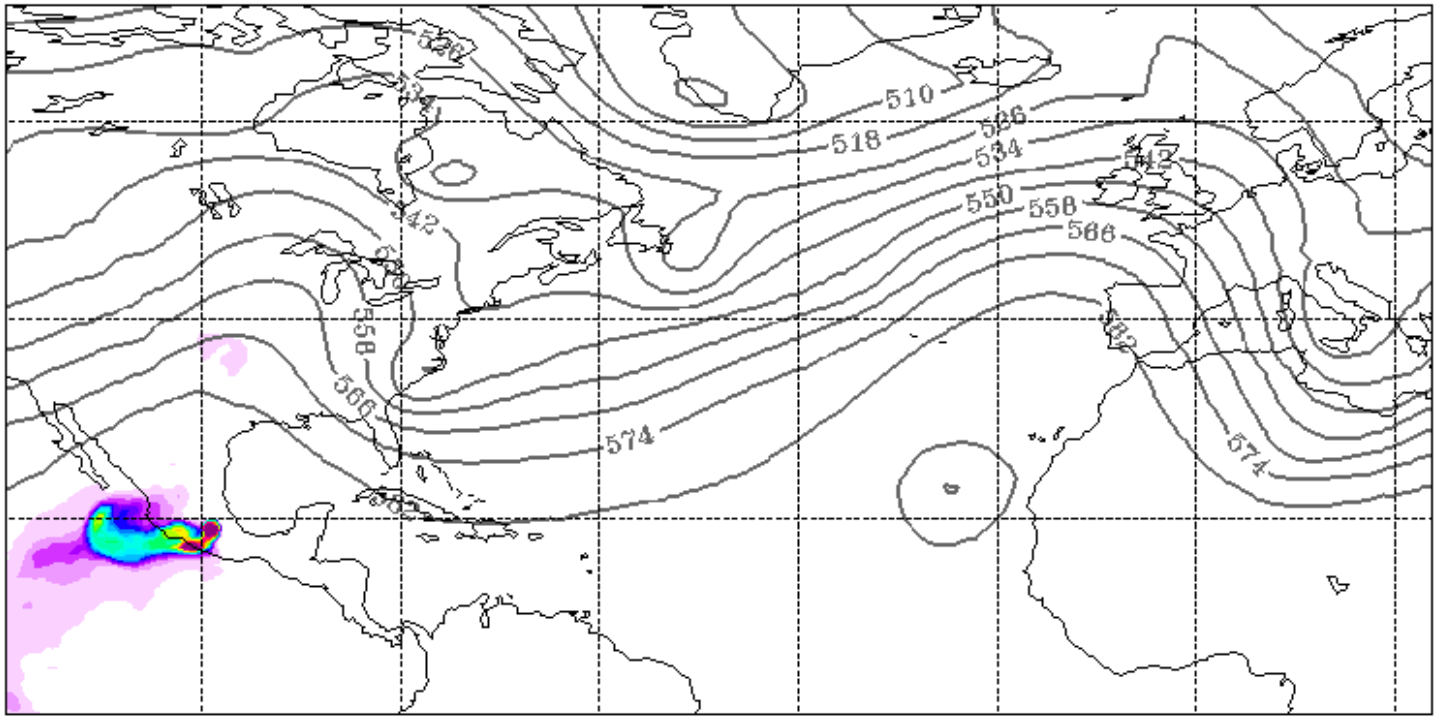


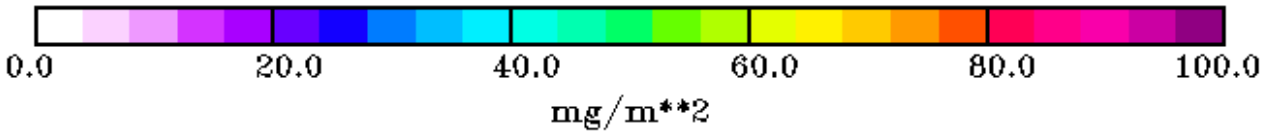
Flexpart Forecasts

7-12 March 2006

TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060307 0 UTC ACTUAL 20060307 120000 UTC
MAXIMUM VALUE: 0.283E+03

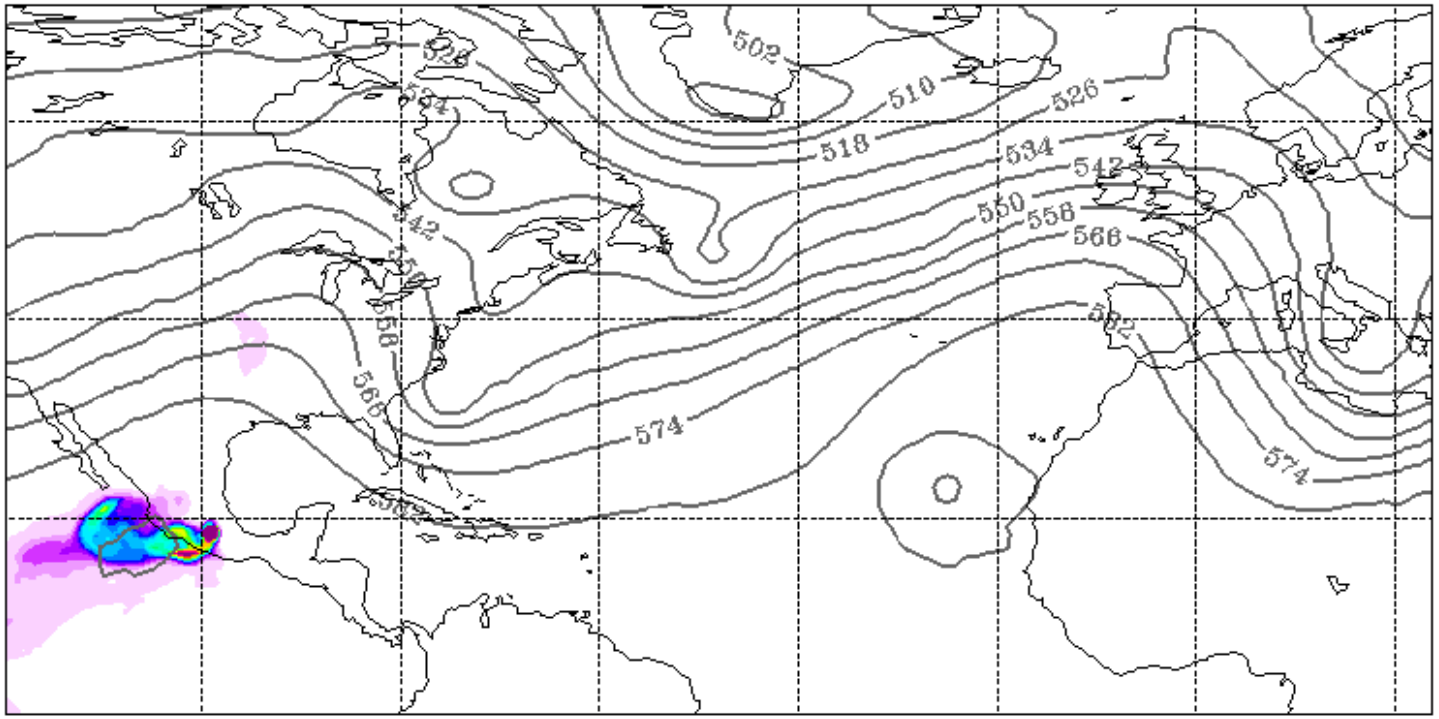
Tues. 12Z

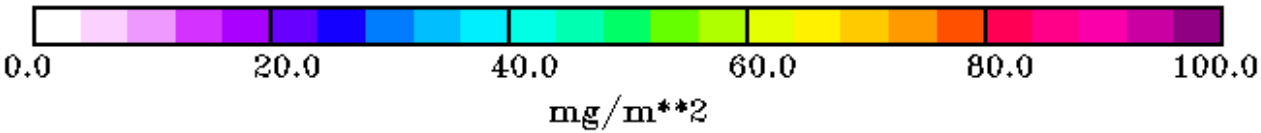




TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060307 0 UTC ACTUAL 20060307 180000 UTC
MAXIMUM VALUE: 0.440E+03

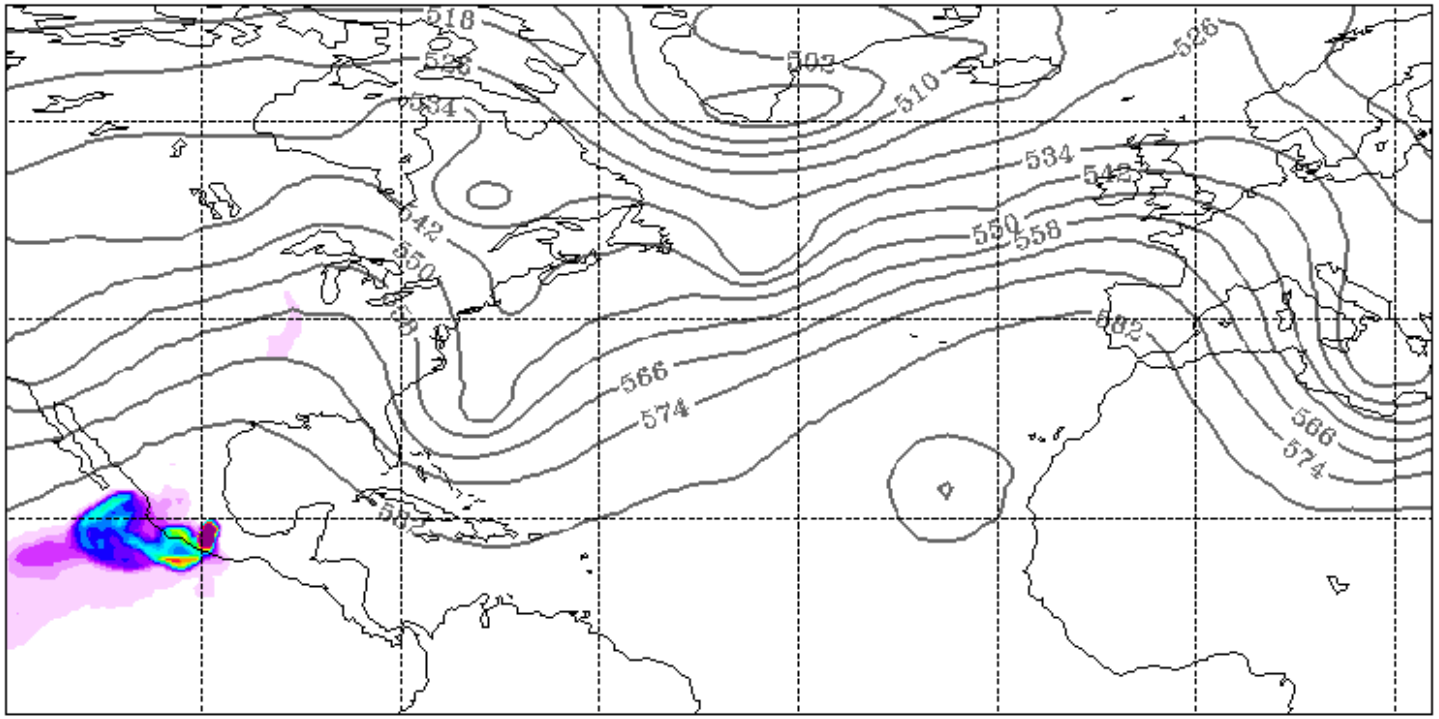
Tues. 18Z





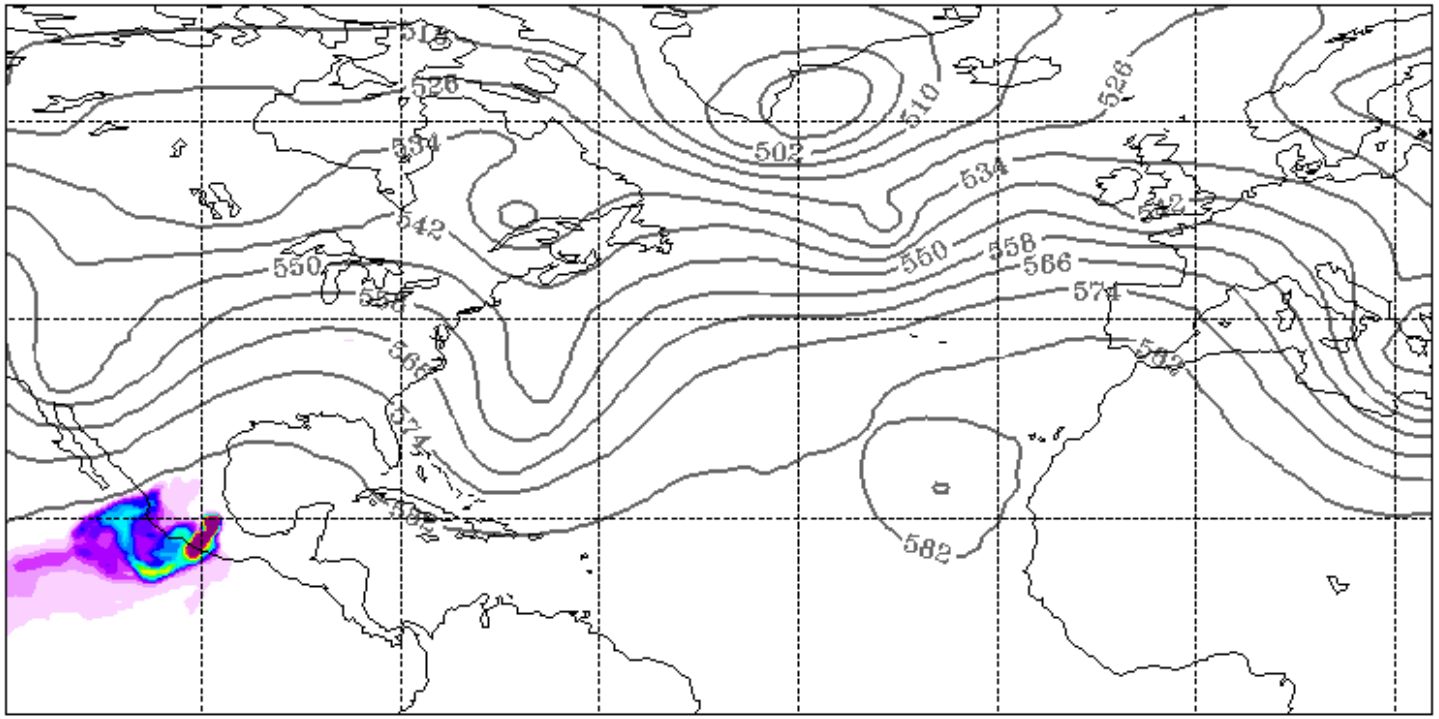
TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060307 0 UTC ACTUAL 20060308 0 UTC
MAXIMUM VALUE: 0.425E+03

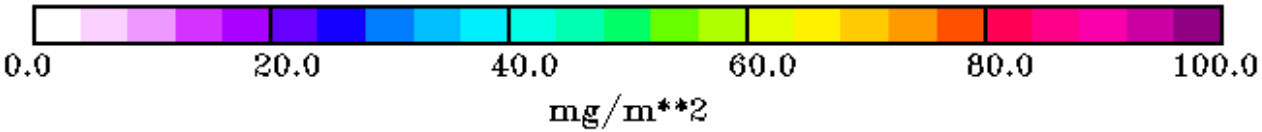
Wed. 00Z



TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060307 0 UTC ACTUAL 20060308 120000 UTC
MAXIMUM VALUE: 0.237E+03

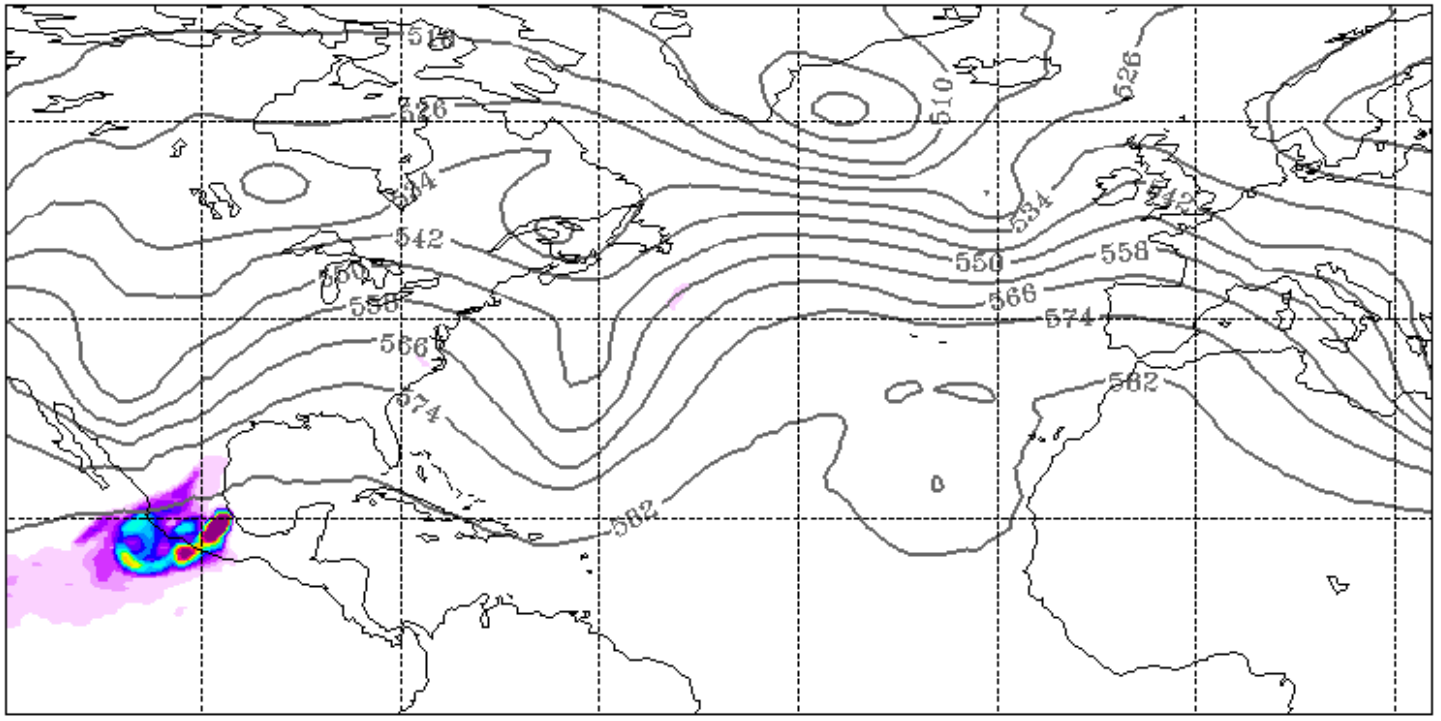
Wed. 12Z

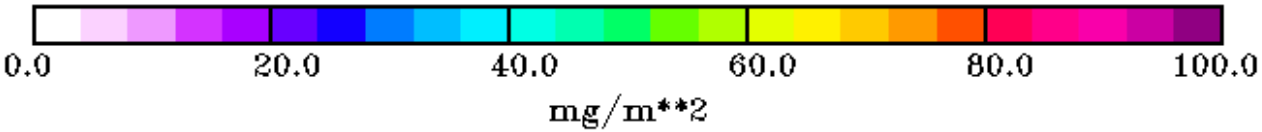




TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060307 0 UTC ACTUAL 20060309 0 UTC
MAXIMUM VALUE: 0.402E+03

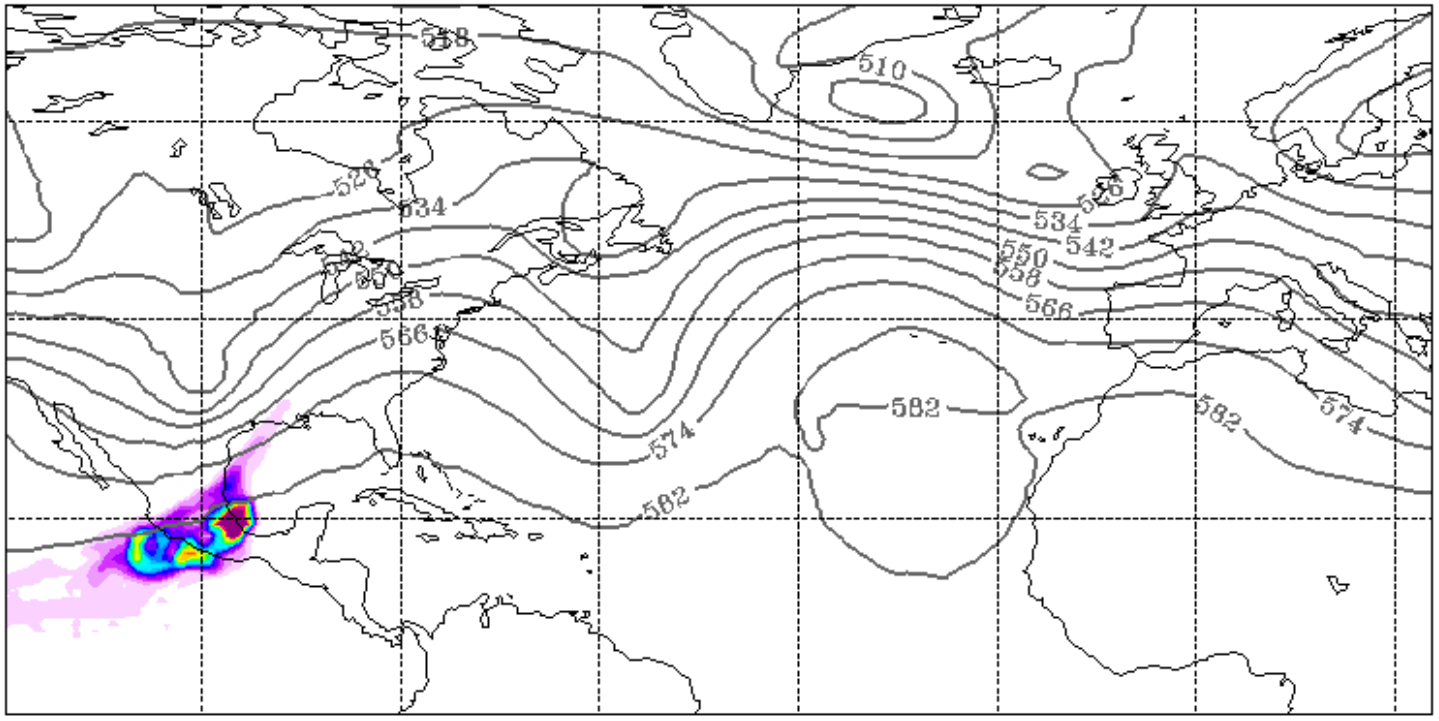
Thur. 00Z

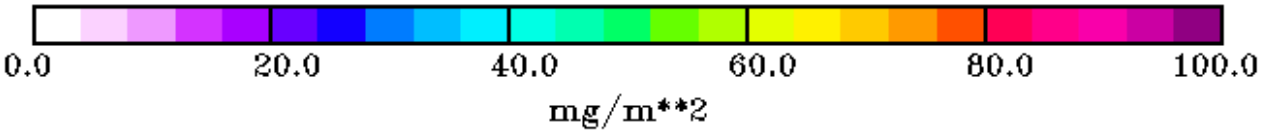




TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060307 0 UTC ACTUAL 20060309 120000 UTC
MAXIMUM VALUE: 0.311E+03

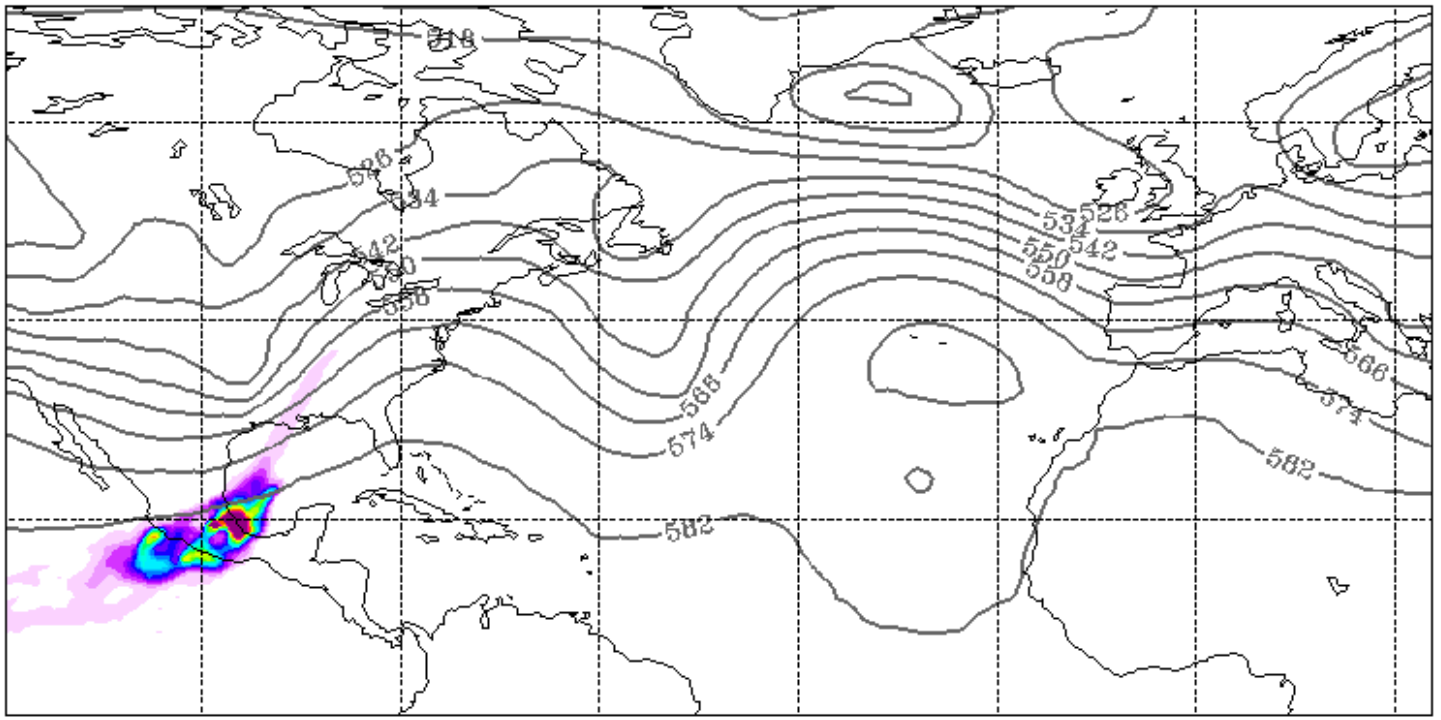
Thur. 12Z

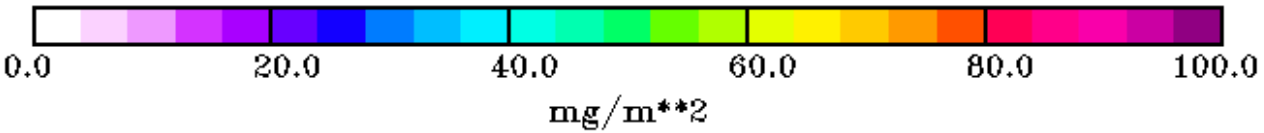




TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060307 0 UTC ACTUAL 20060309 180000 UTC
MAXIMUM VALUE: 0.275E+03

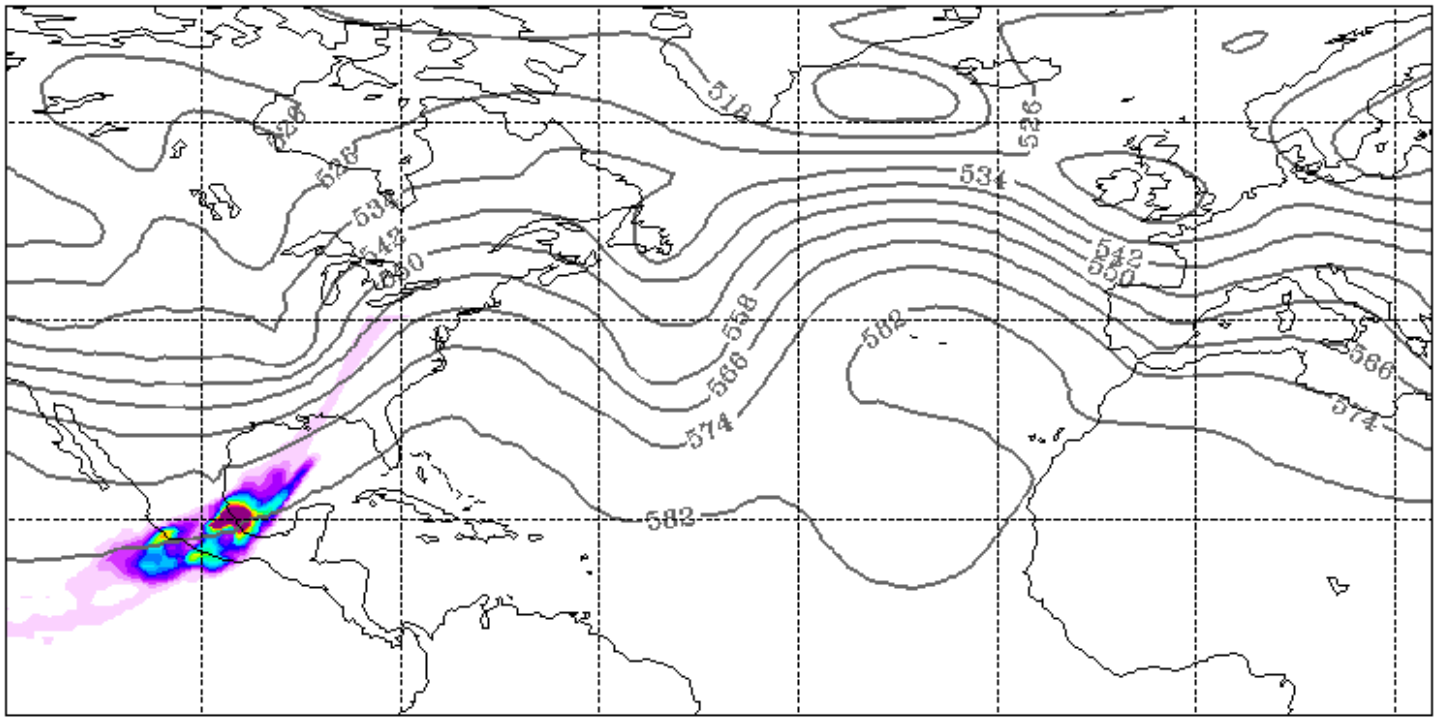
Thur. 18Z





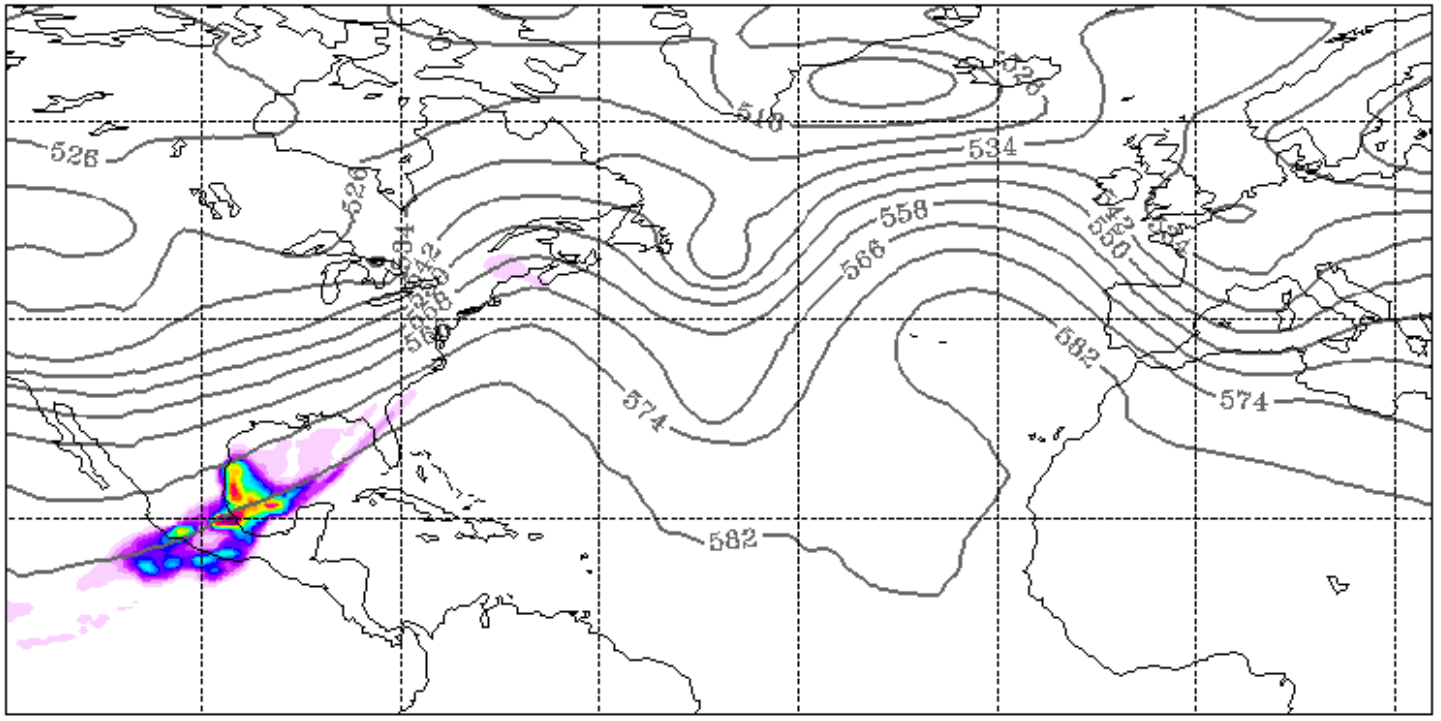
TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060307 0 UTC ACTUAL 20060310 0 UTC
MAXIMUM VALUE: 0.253E+03

Fri. 00Z



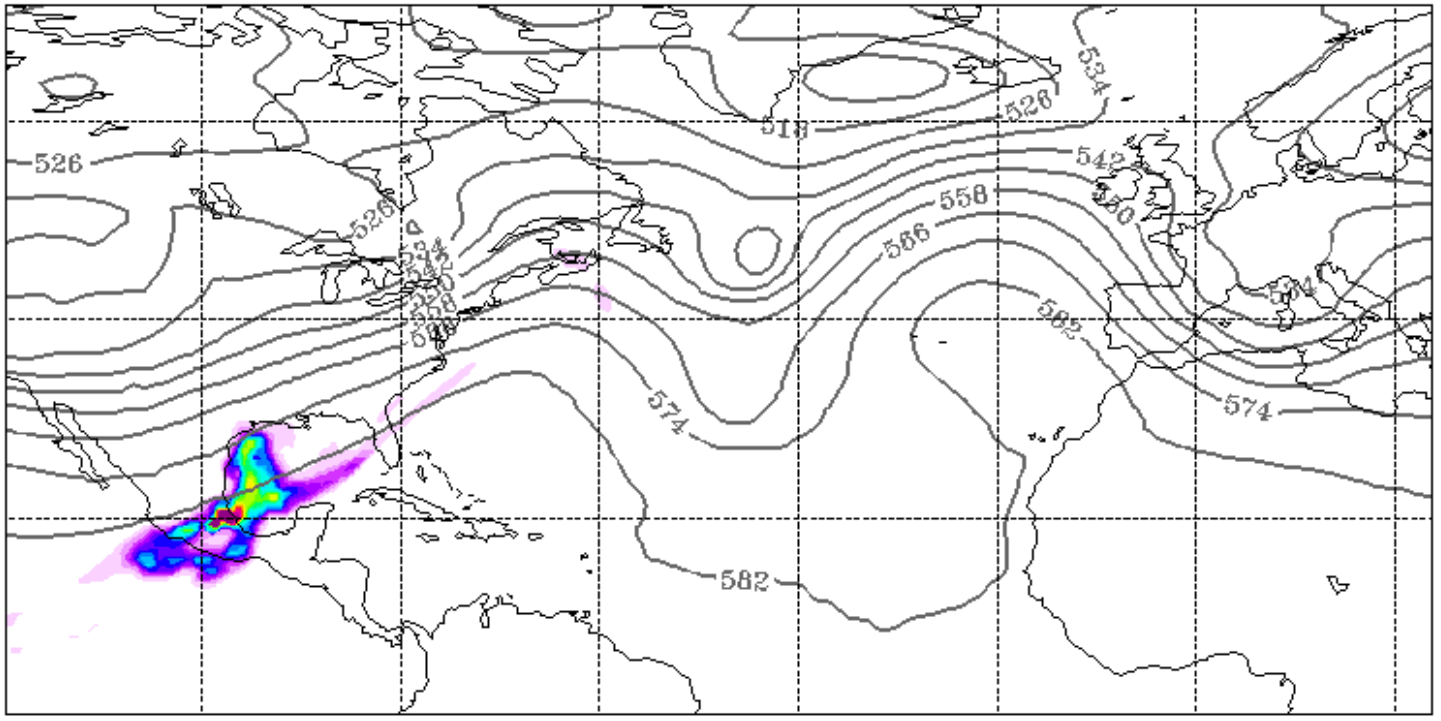
TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060307 0 UTC ACTUAL 20060310 120000 UTC
MAXIMUM VALUE: 0.166E+03

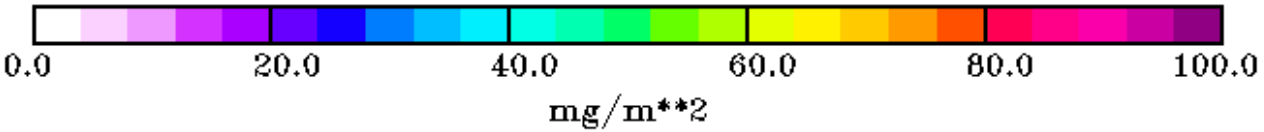
Fri. 12Z



TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060307 0 UTC ACTUAL 20060310 180000 UTC
MAXIMUM VALUE: 0.209E+03

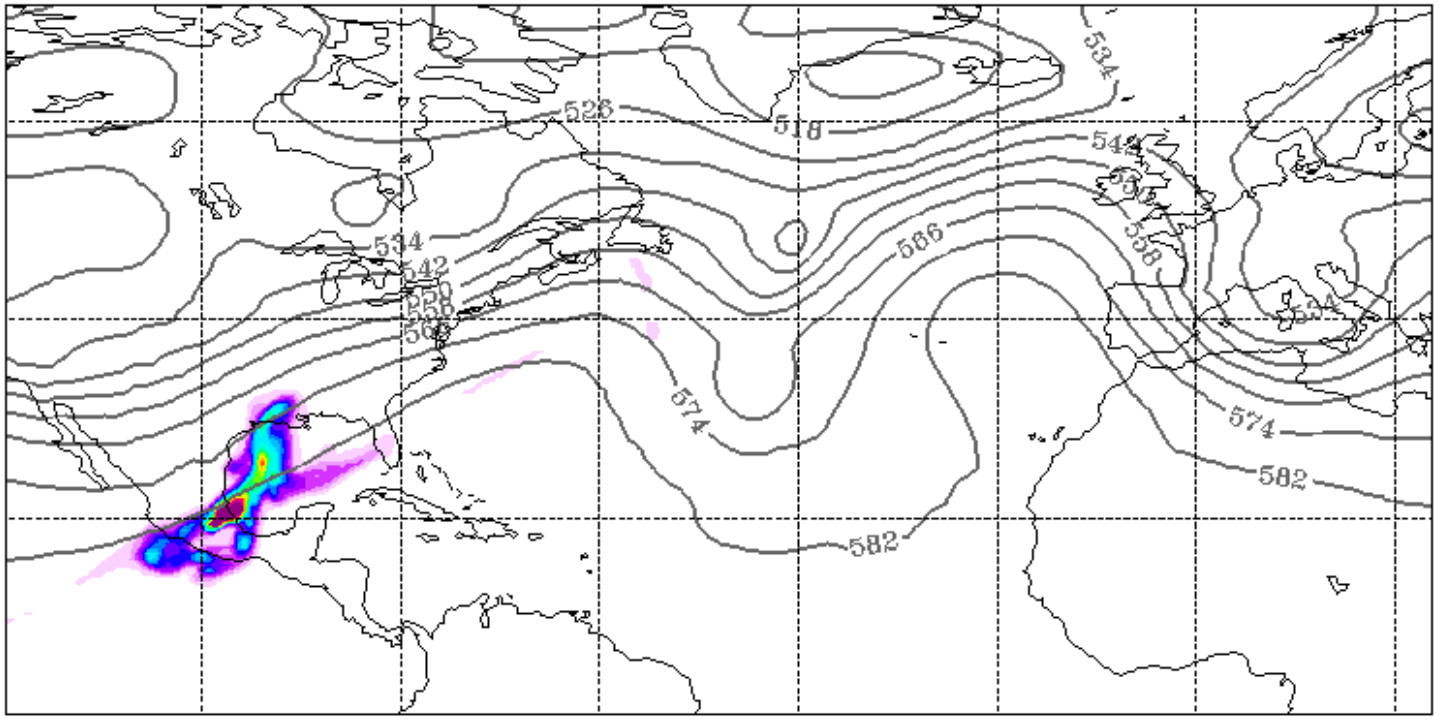
Fri. 18Z

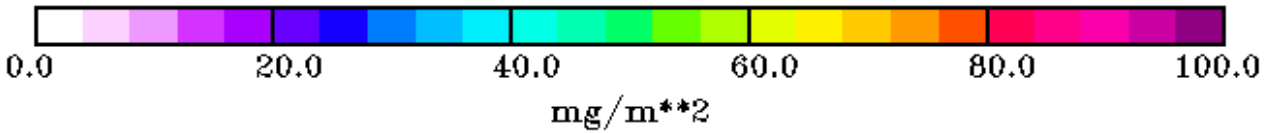




TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060307 0 UTC ACTUAL 20060311 0 UTC
MAXIMUM VALUE: 0.225E+03

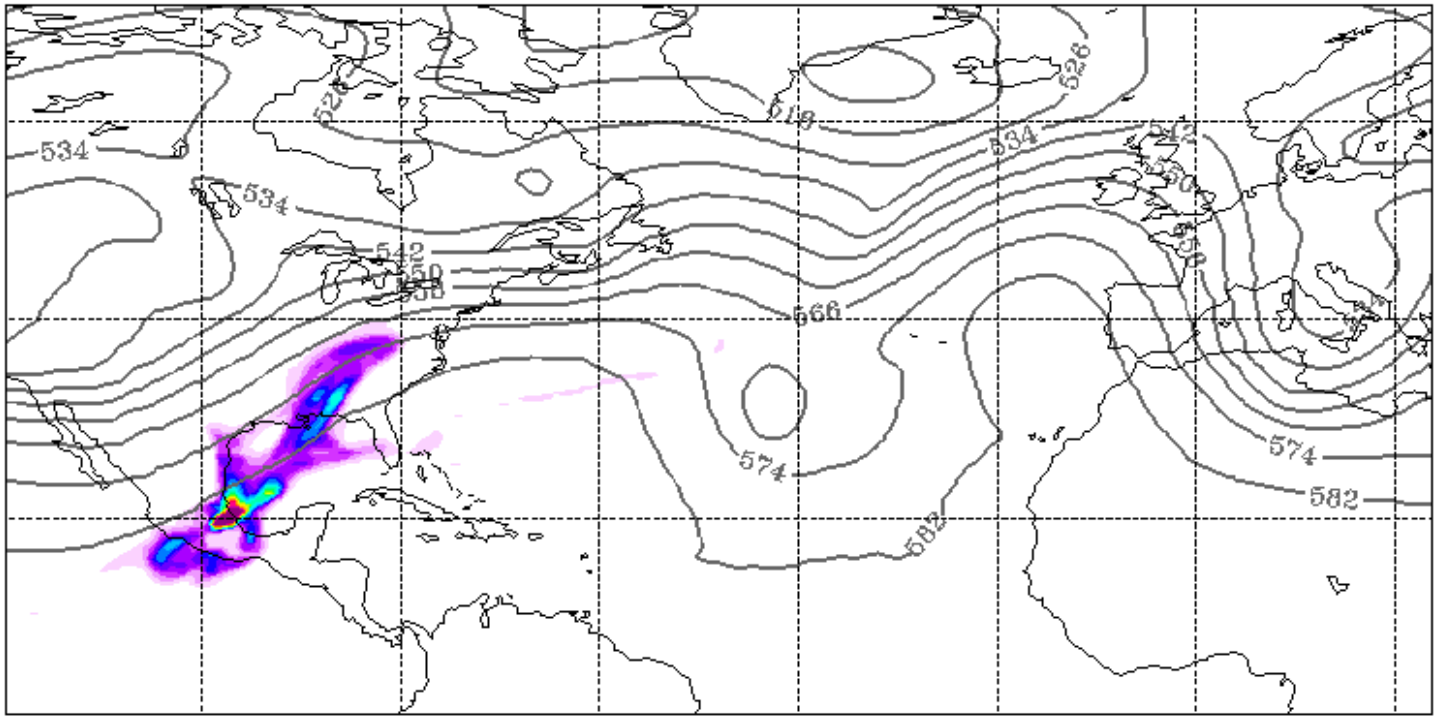
Sat. 00Z

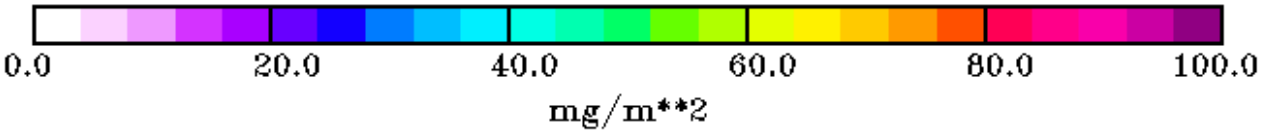




TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060307 0 UTC ACTUAL 20060311 120000 UTC
MAXIMUM VALUE: 0.201E+03

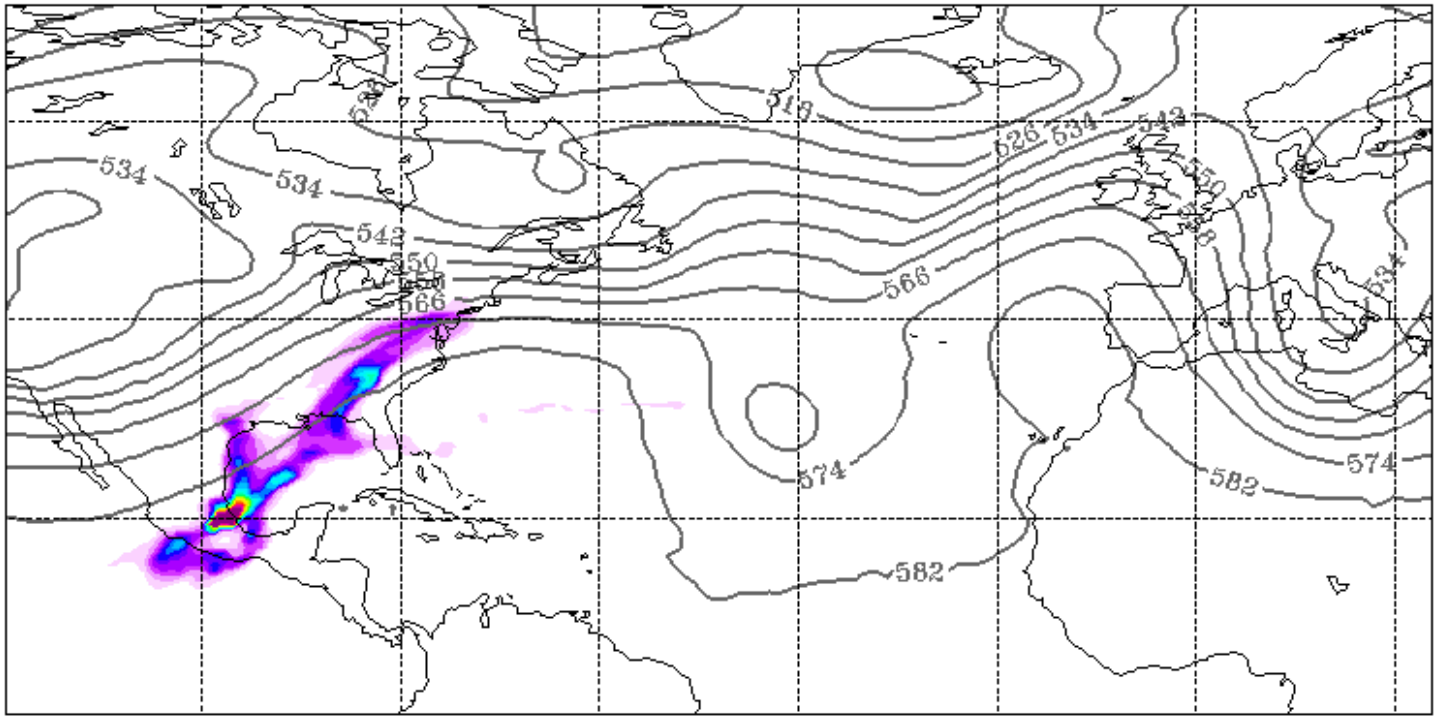
Sat. 12Z

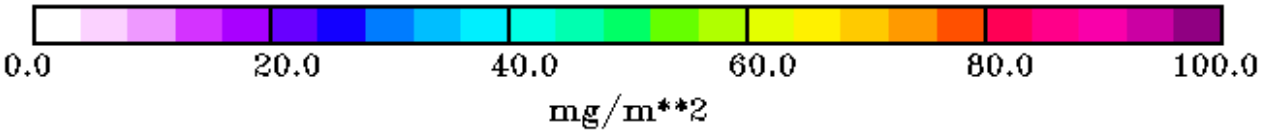




TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060307 0 UTC ACTUAL 20060311 180000 UTC
MAXIMUM VALUE: 0.189E+03

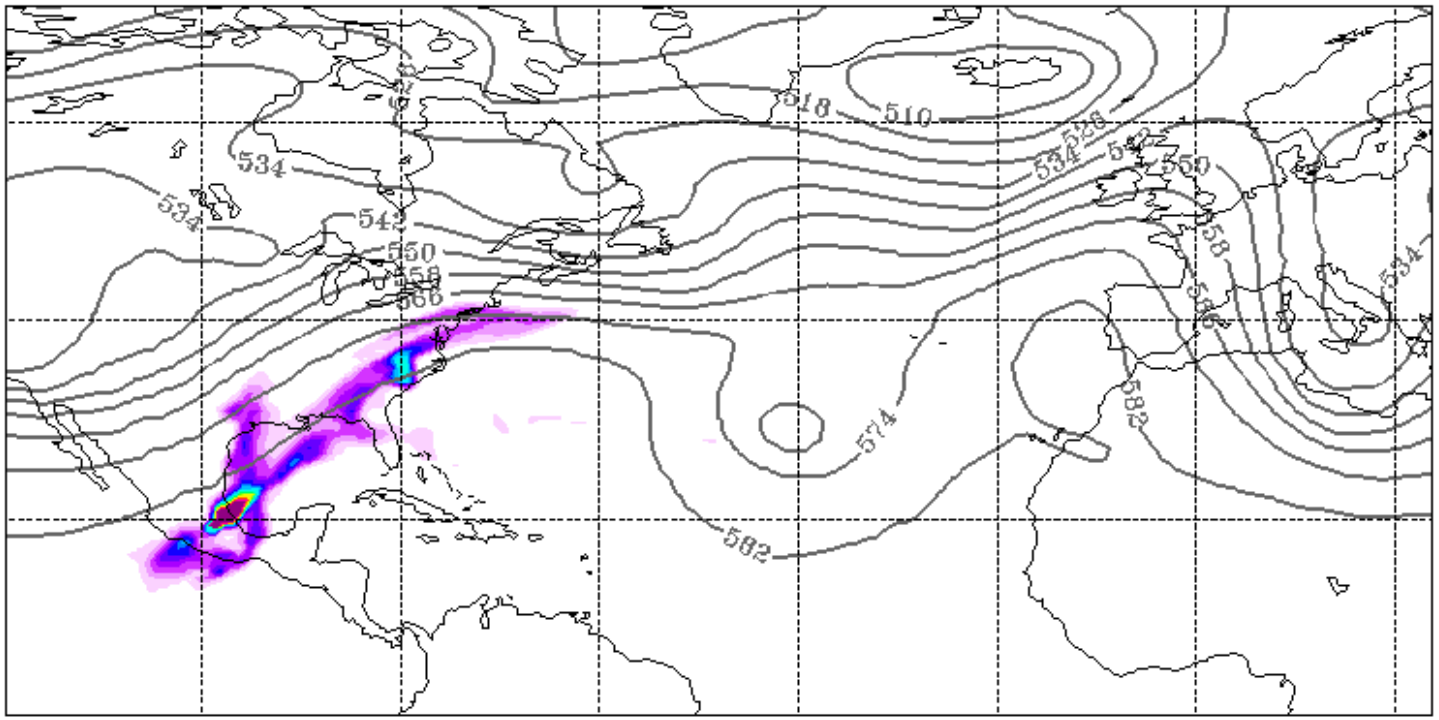
Sat. 18Z

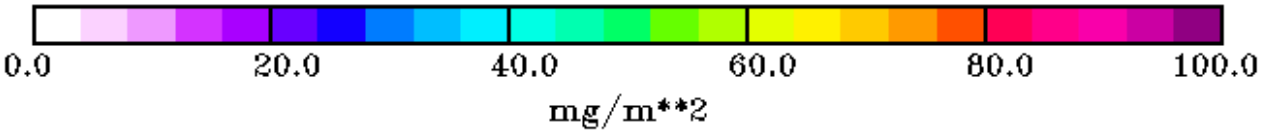




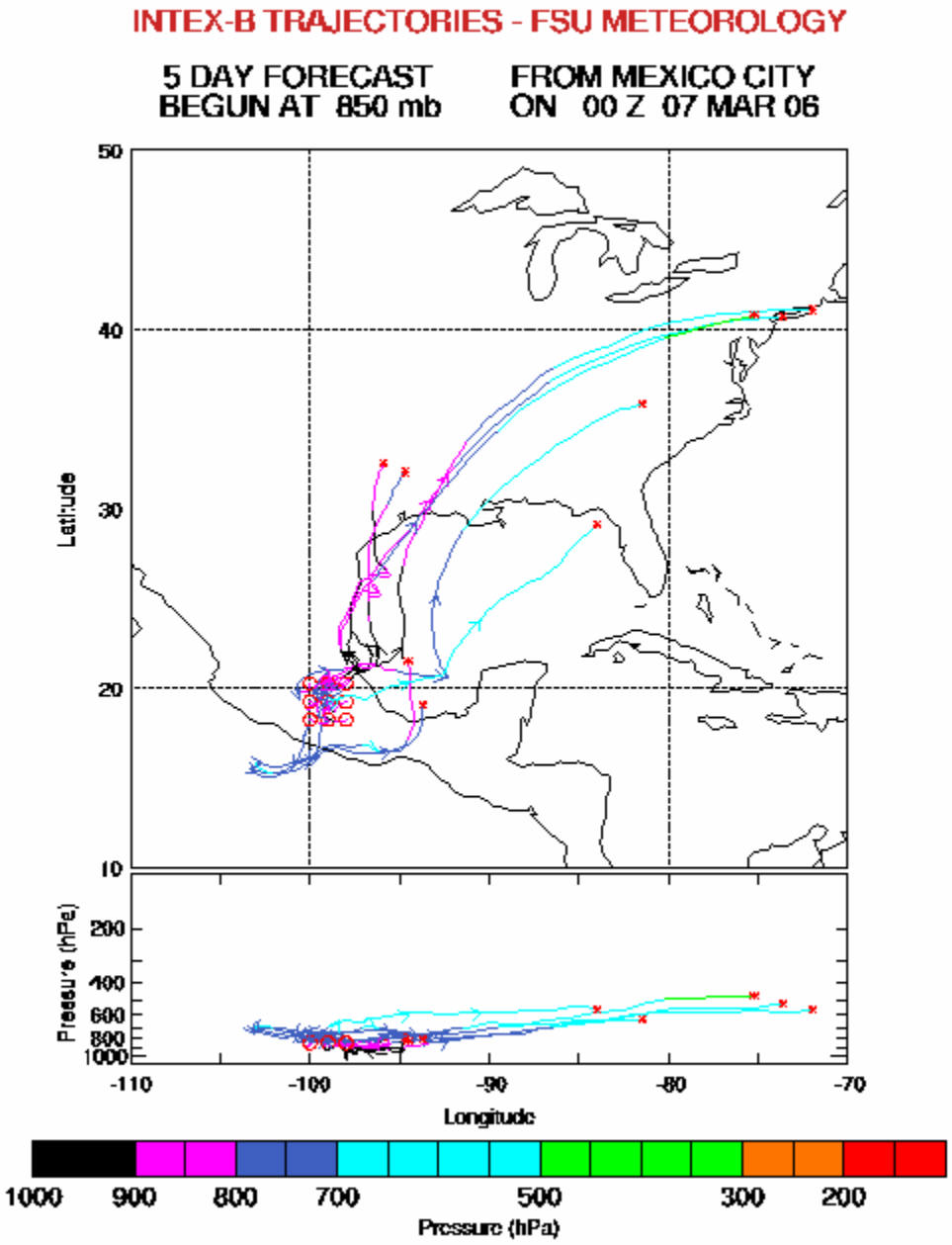
TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060307 0 UTC ACTUAL 20060312 0 UTC
MAXIMUM VALUE: 0.209E+03

Sun. 00Z

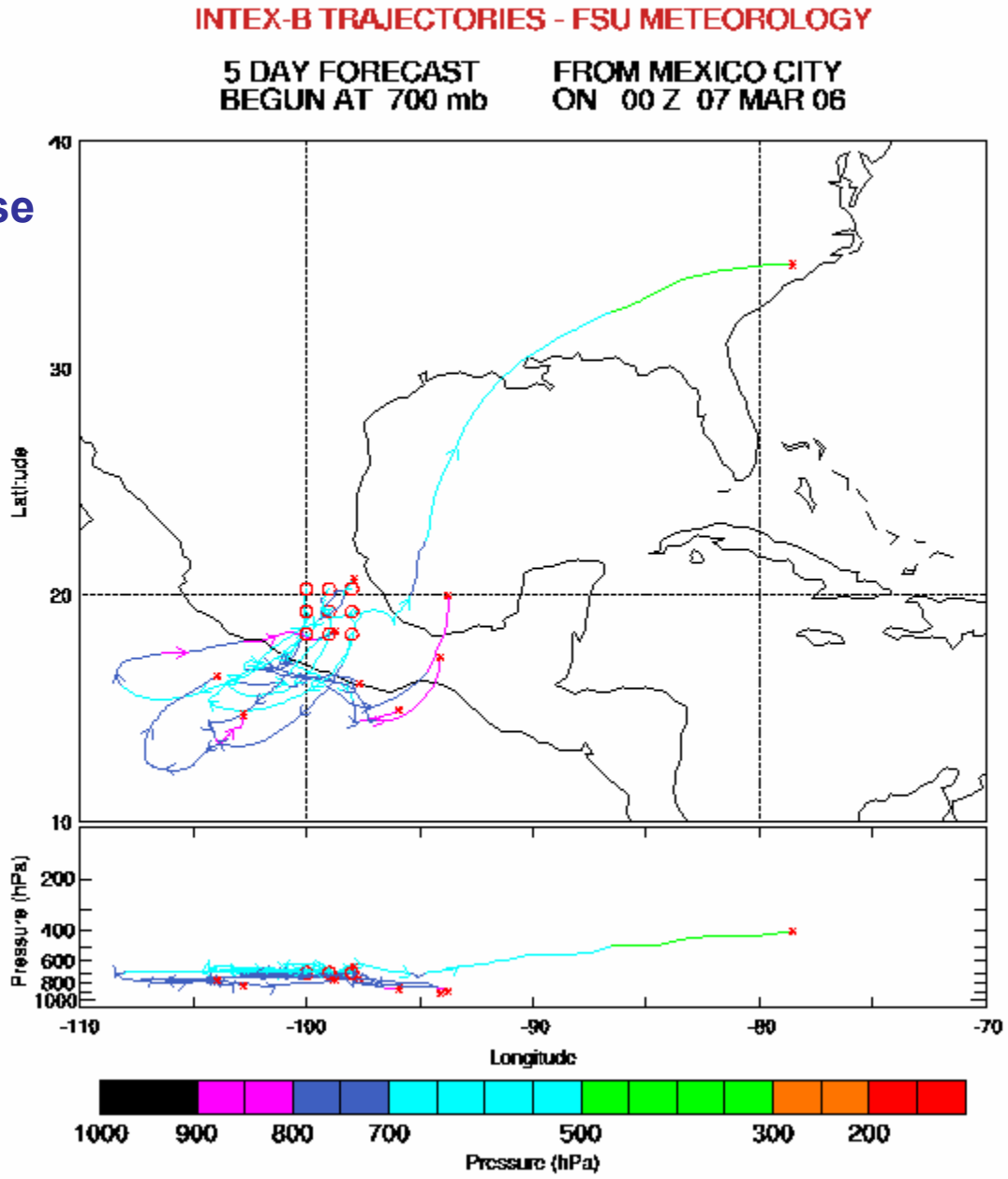


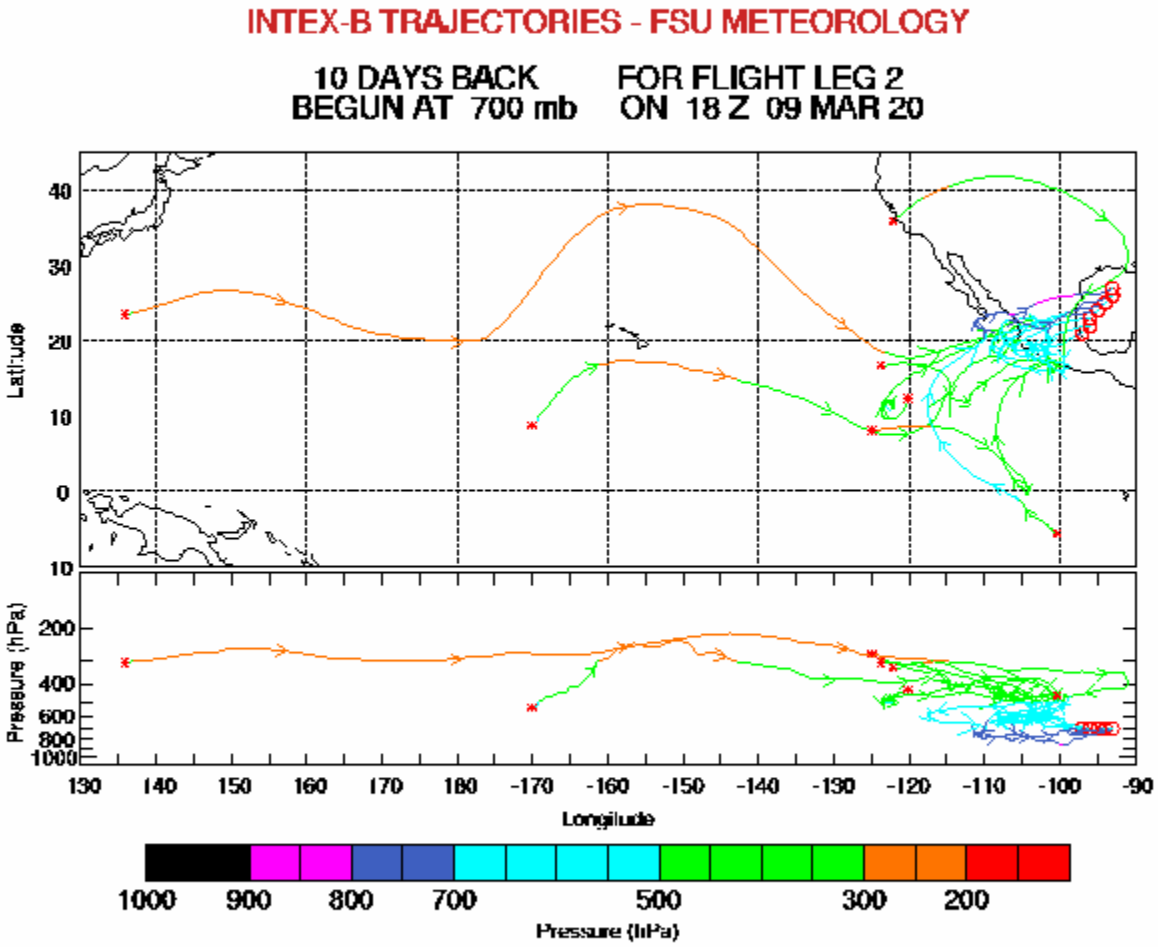


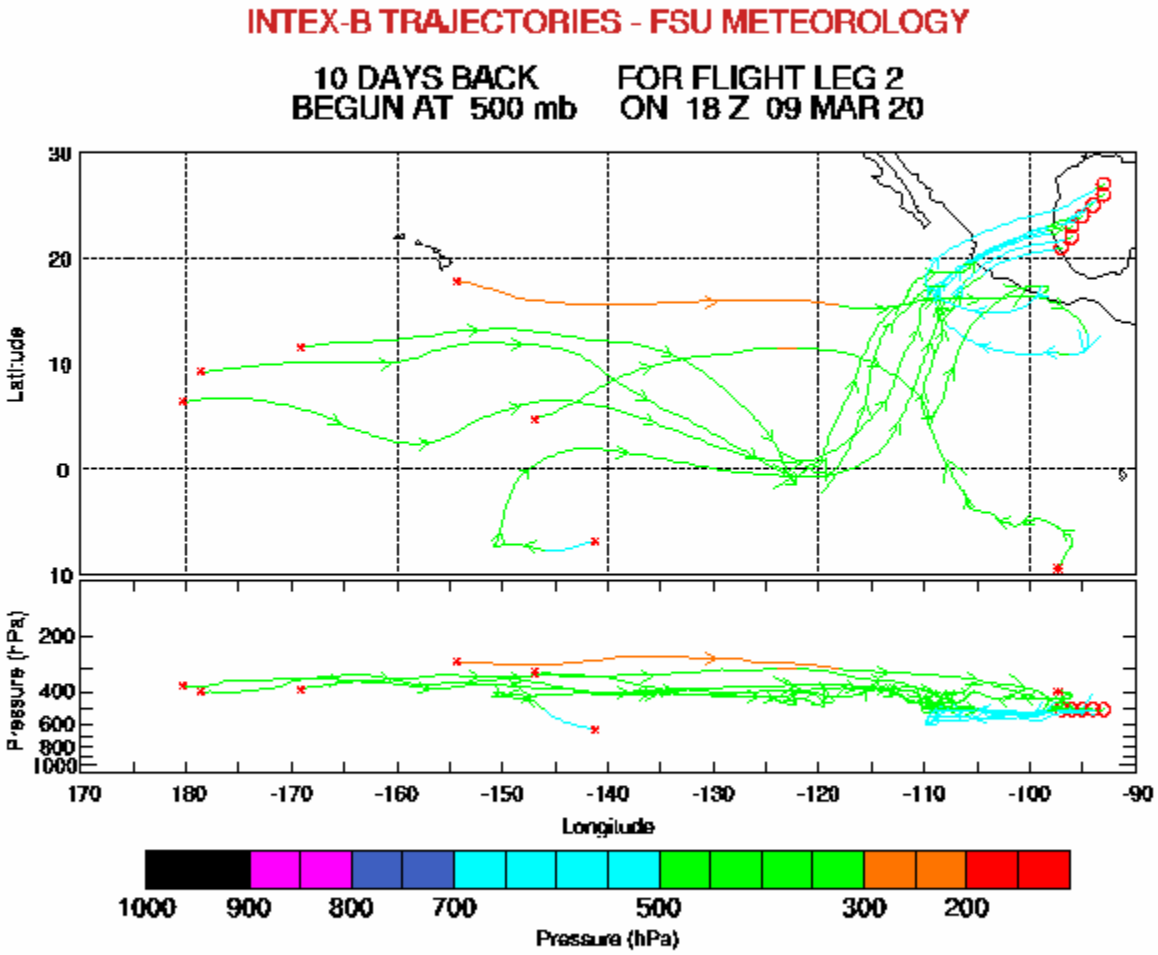
850 mb Release



700 mb Release



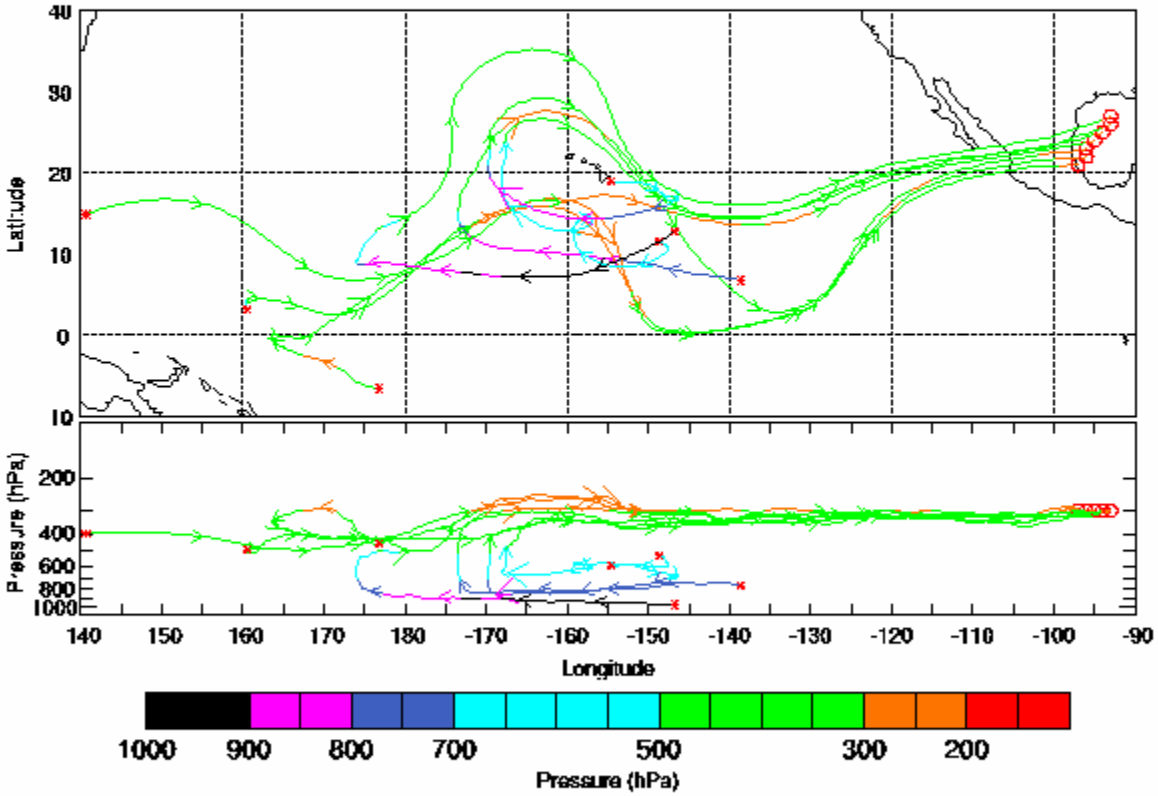

INTEX-B TRAJECTORIES - FSU METEOROLOGY
10 DAYS BACK
BEGUN AT 700 mb
FOR FLIGHT LEG 2
ON 18 Z 09 MAR 20
Latitude
40
30
20
10
0
10
Pressure (hPa)
200
400
600
800
1000
130
140
150
160
170
180
-170
-160
-150
-140
-130
-120
-110
-100
-90
Longitude
1000
900
800
700
500
300
200
Pressure (hPa)


INTEX-B TRAJECTORIES - FSU METEOROLOGY
10 DAYS BACK
BEGUN AT 500 mb
FOR FLIGHT LEG 2
ON 18 Z 09 MAR 20
Latitude
30
20
10
0
10
Pressure (hPa)
200
400
600
800
1000
170
180
-170
-160
-150
-140
-130
-120
-110
-100
-90
Longitude
1000
900
800
700
500
300
200
Pressure (hPa)

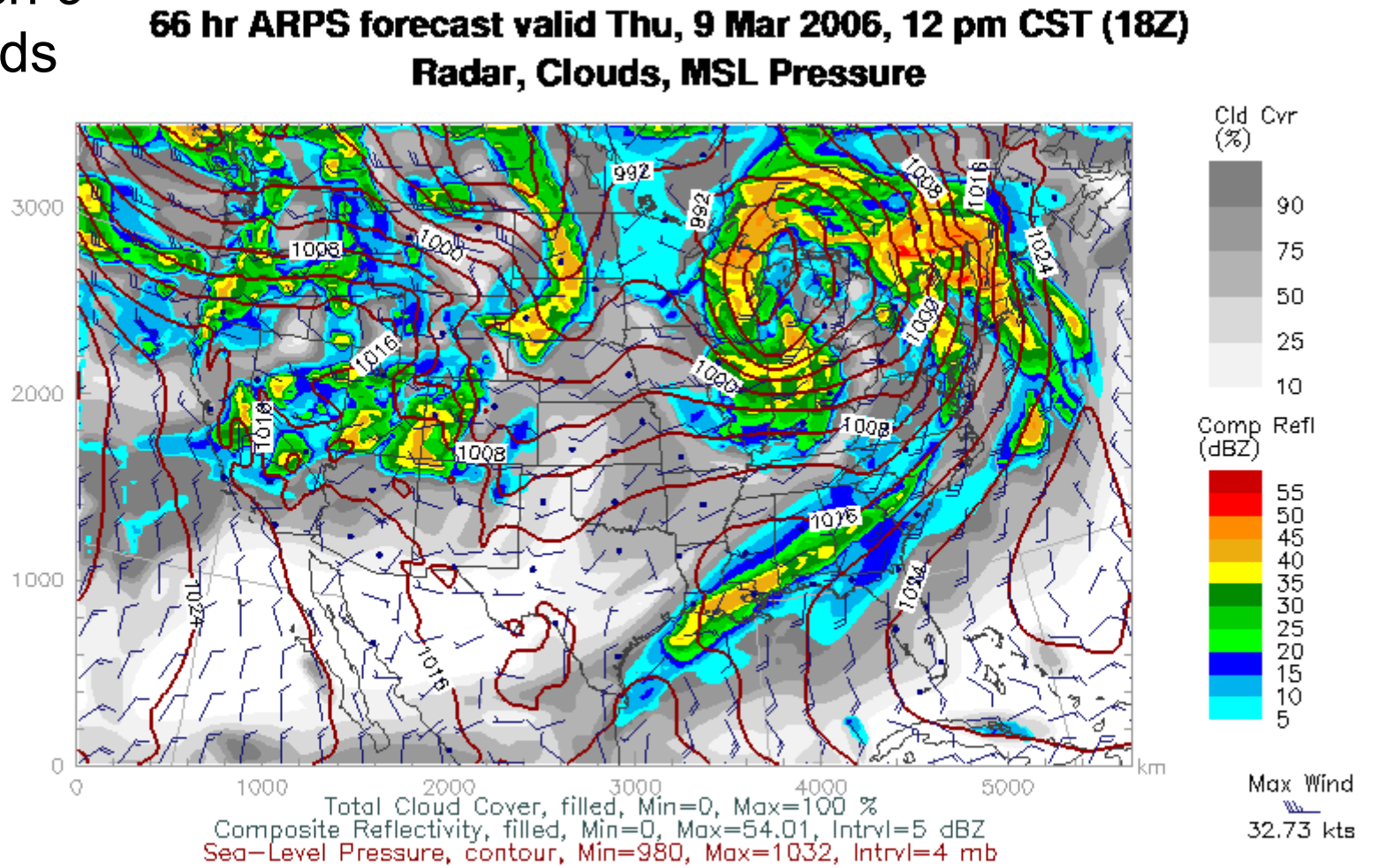
INTEX-B TRAJECTORIES - FSU METEOROLOGY

10 DAYS BACK BEGUN AT 300 mb

FOR FLIGHT LEG 2 ON 18 Z 09 MAR 20



March 9 Clouds

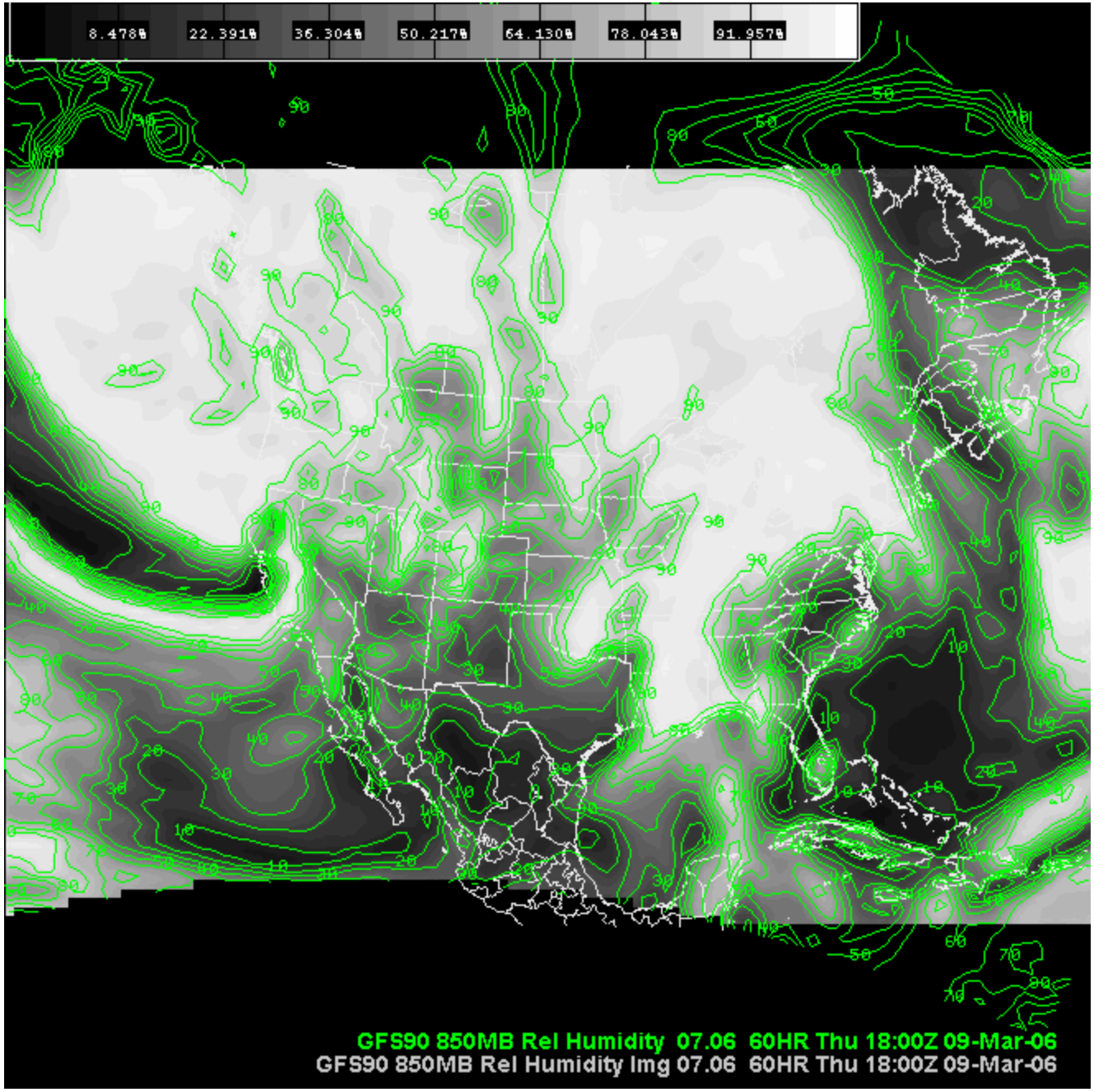


CAPS/OU Experimental Forecasts

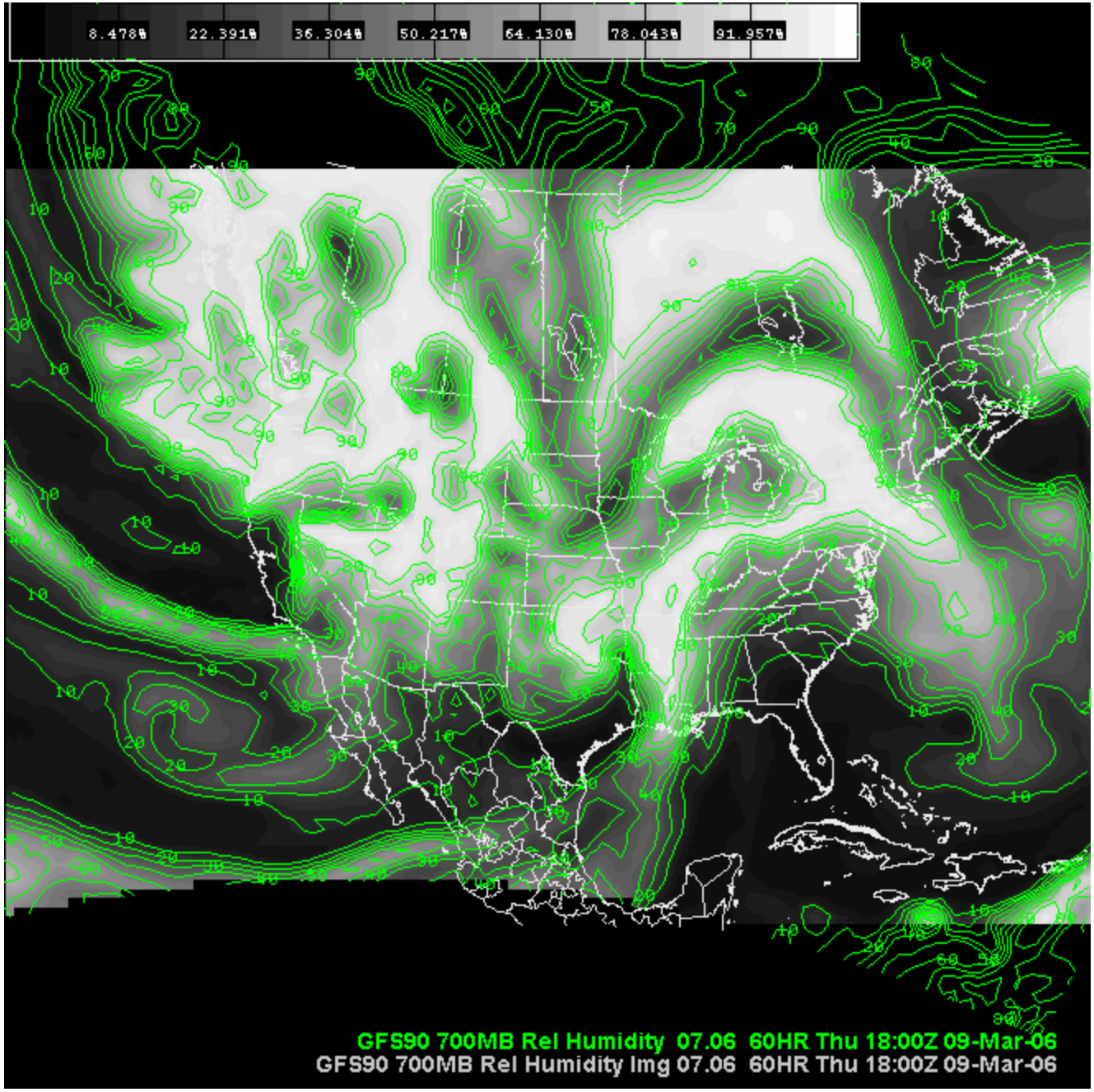
CONUS, 210x128x50, dx=27 km

03/07/06 06:01 CST

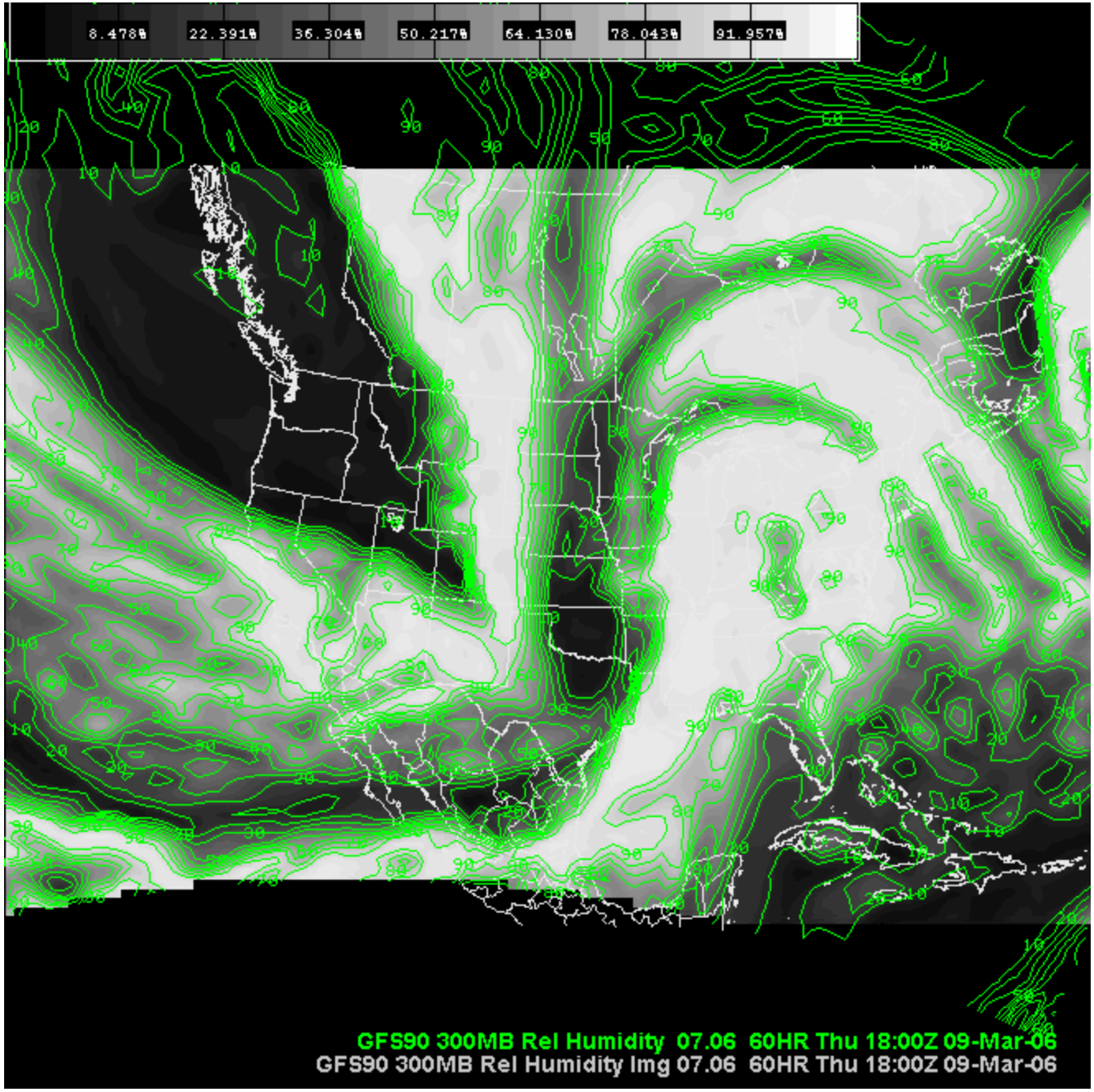
Thur.
850 mb


8.4780
22.3910
36.3040
50.2170
64.1300
78.0430
91.9570
GFS90 850MB Rel Humidity 07.06 60HR Thu 18:00Z 09-Mar-06
GFS90 850MB Rel Humidity Img 07.06 60HR Thu 18:00Z 09-Mar-06

Thur.
700 mb


8.4780
22.3910
36.3040
50.2170
64.1300
78.0430
91.9570
GFS90 700MB Rel Humidity 07.06 60HR Thu 18:00Z 09-Mar-06
GFS90 700MB Rel Humidity Img 07.06 60HR Thu 18:00Z 09-Mar-06

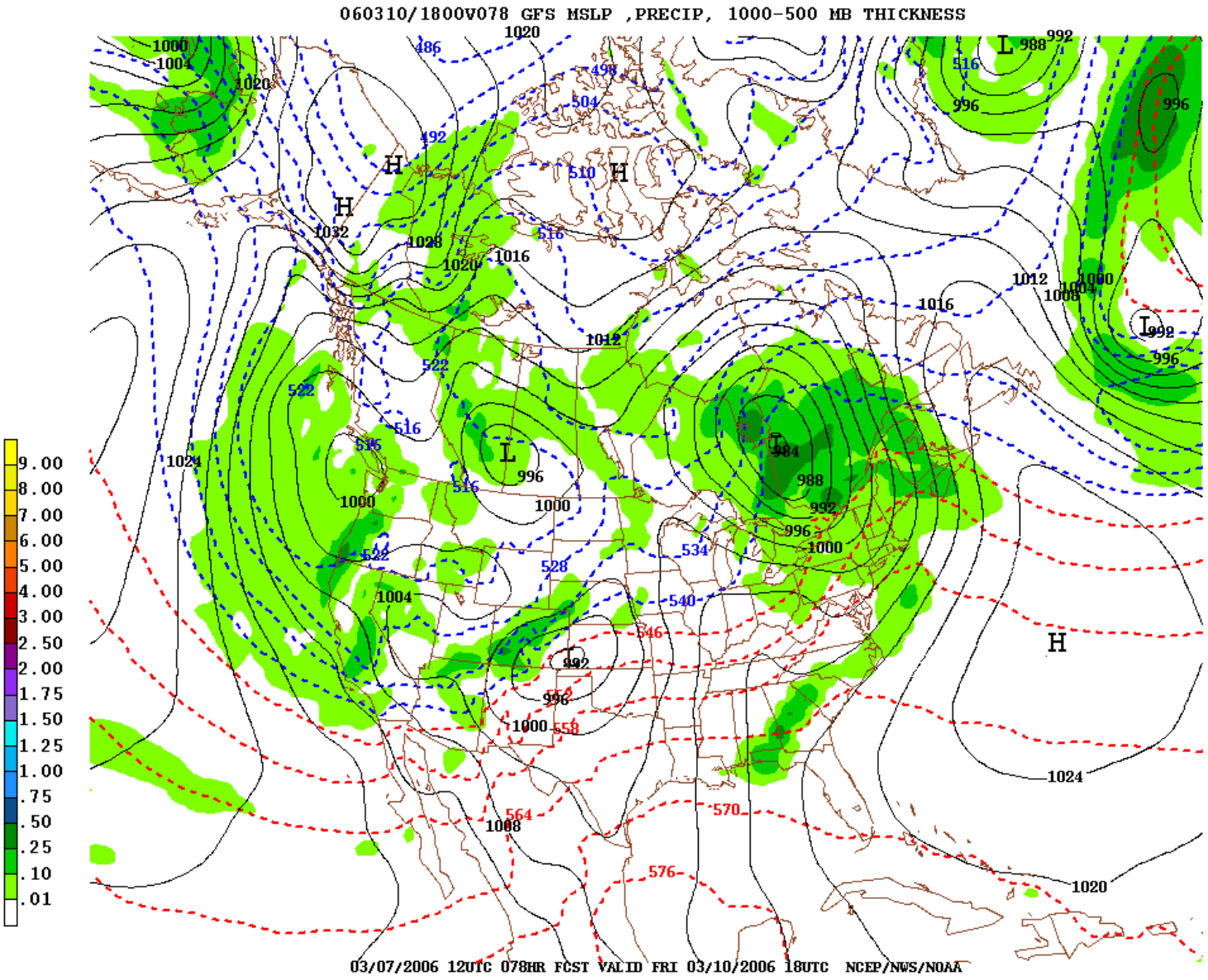
Thur.
300 mb


8.4780
22.3910
36.3040
50.2170
64.1300
78.0430
91.9570
GFS90 300MB Rel Humidity 07.06 60HR Thu 18:00Z 09-Mar-06
GFS90 300MB Rel Humidity Img 07.06 60HR Thu 18:00Z 09-Mar-06

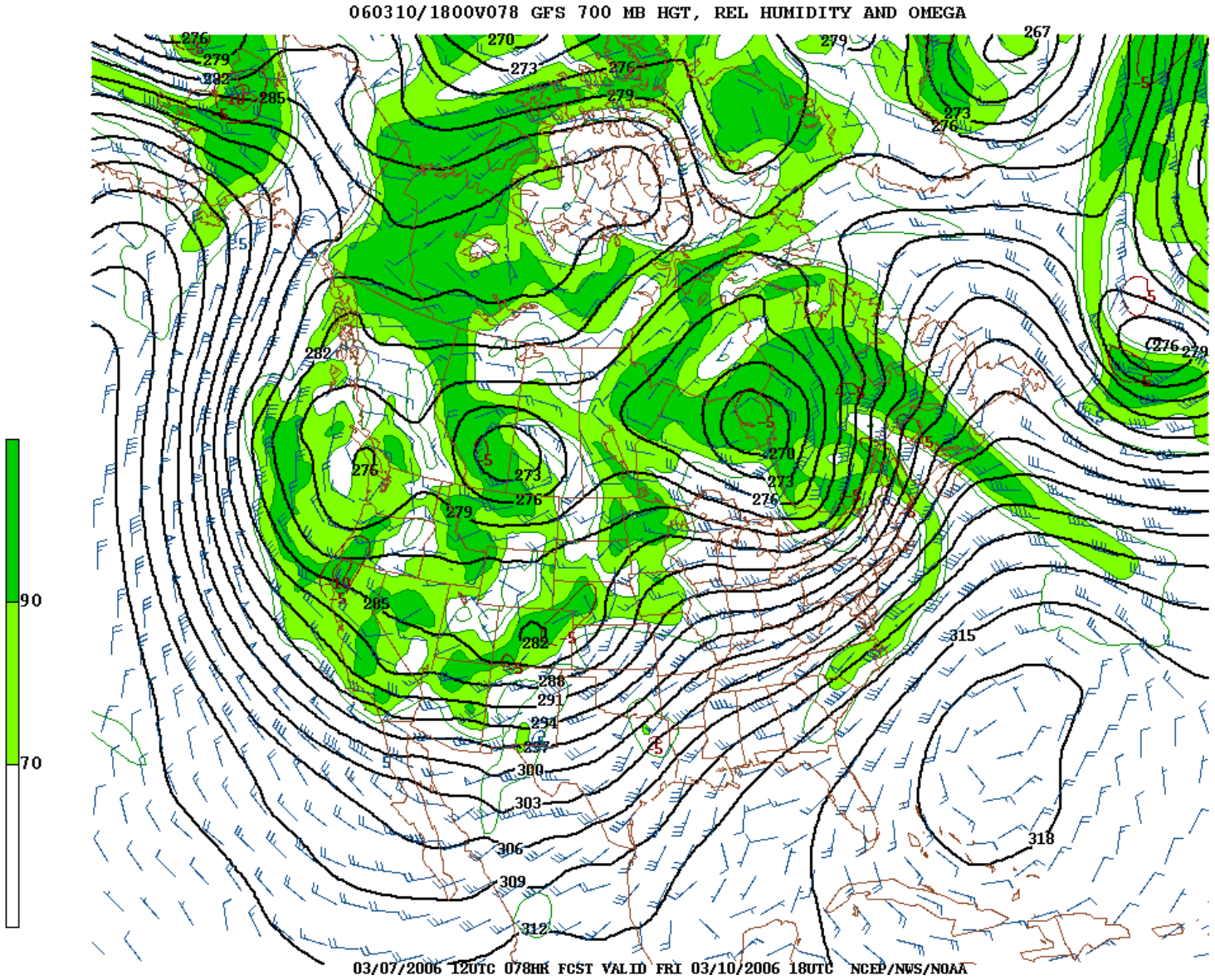
Friday Forecast

10 March 2006

March 10 Surface

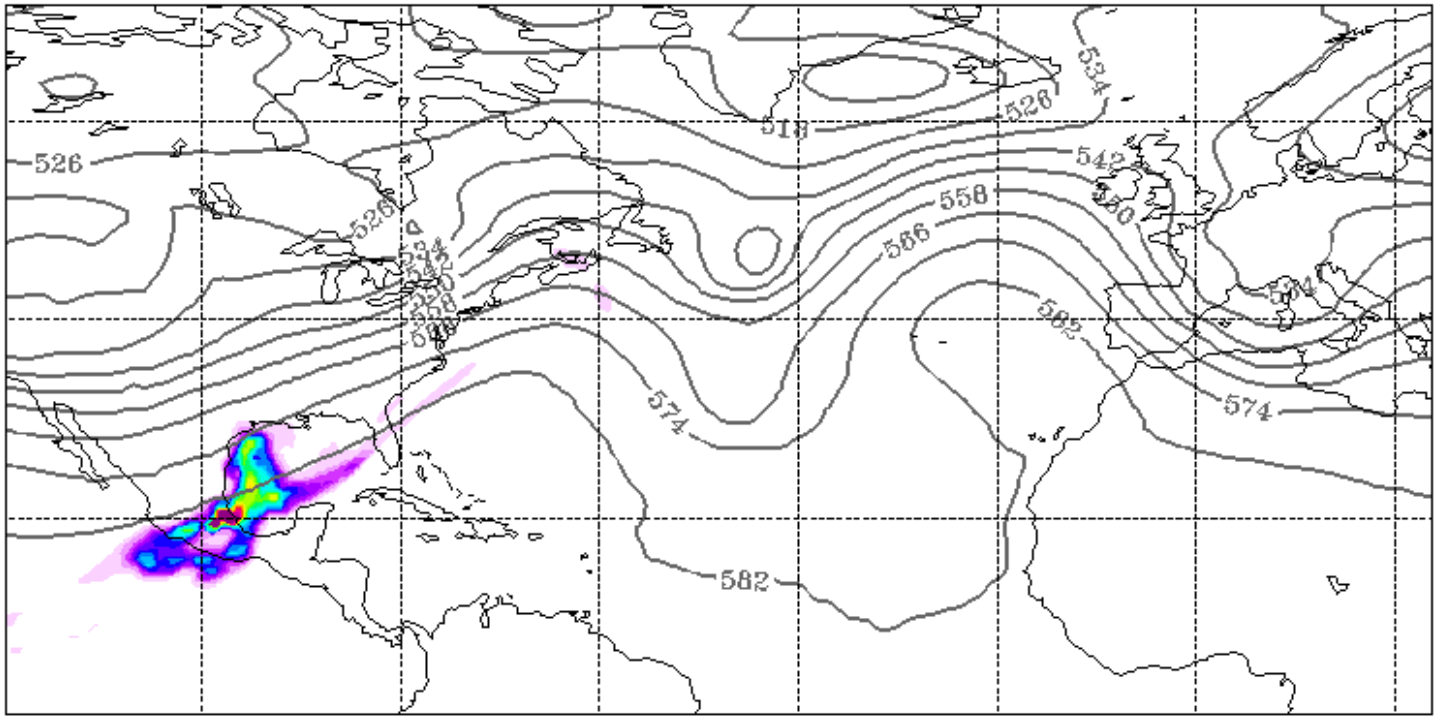


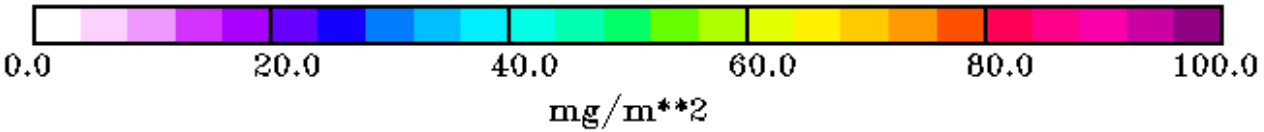
March 10
700 mb



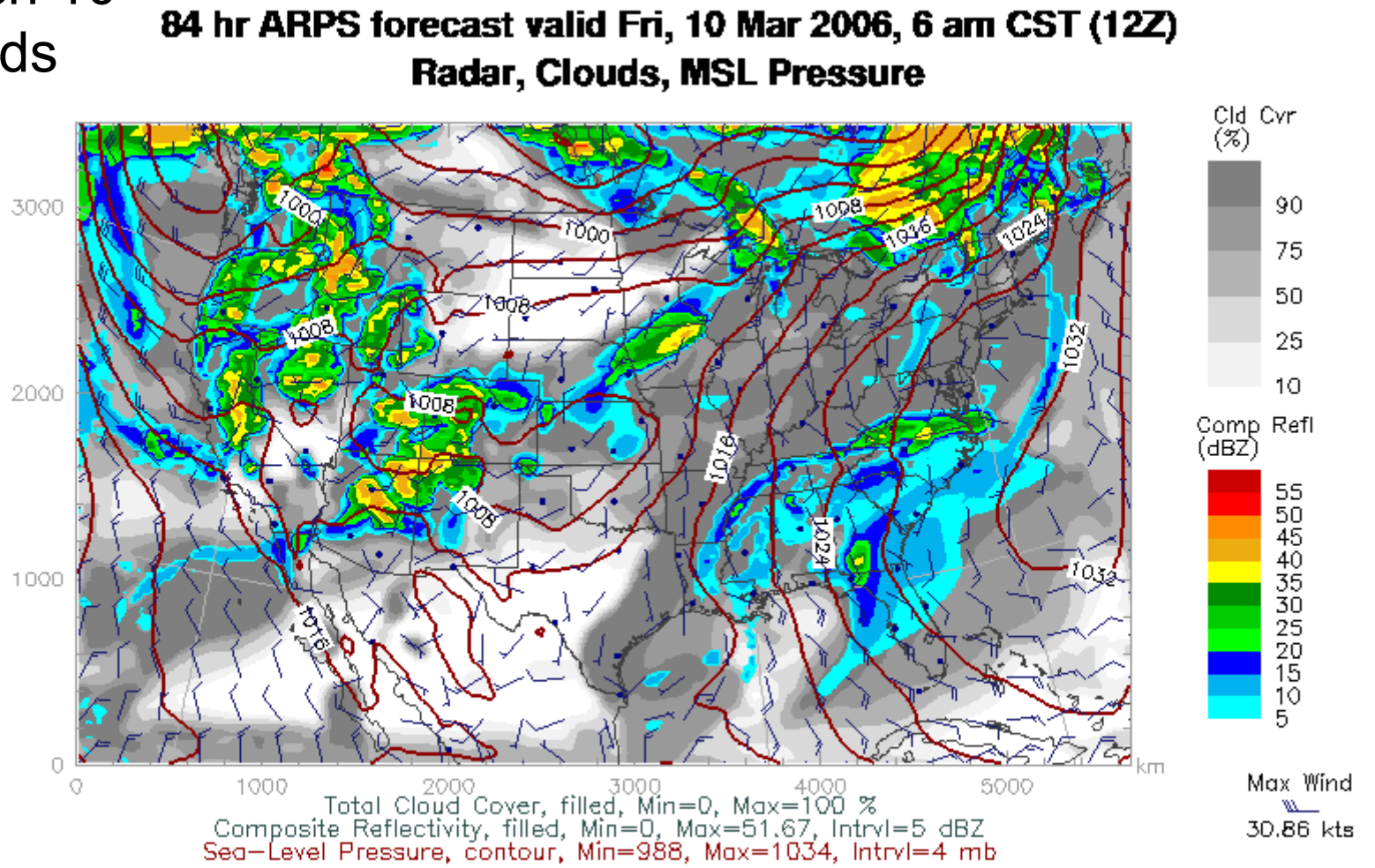
TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060307 0 UTC ACTUAL 20060310 180000 UTC
MAXIMUM VALUE: 0.209E+03

Fri. 18Z

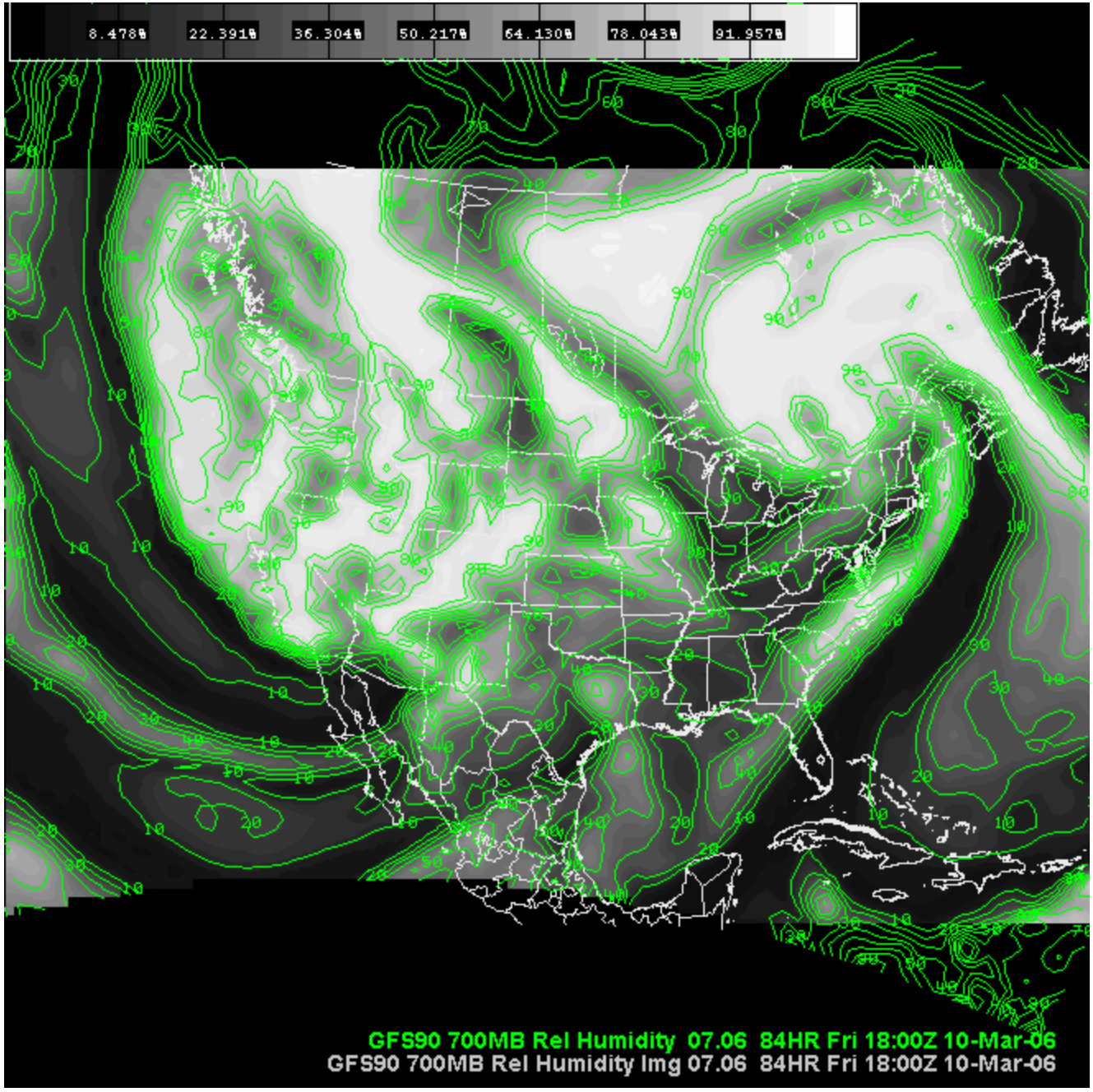




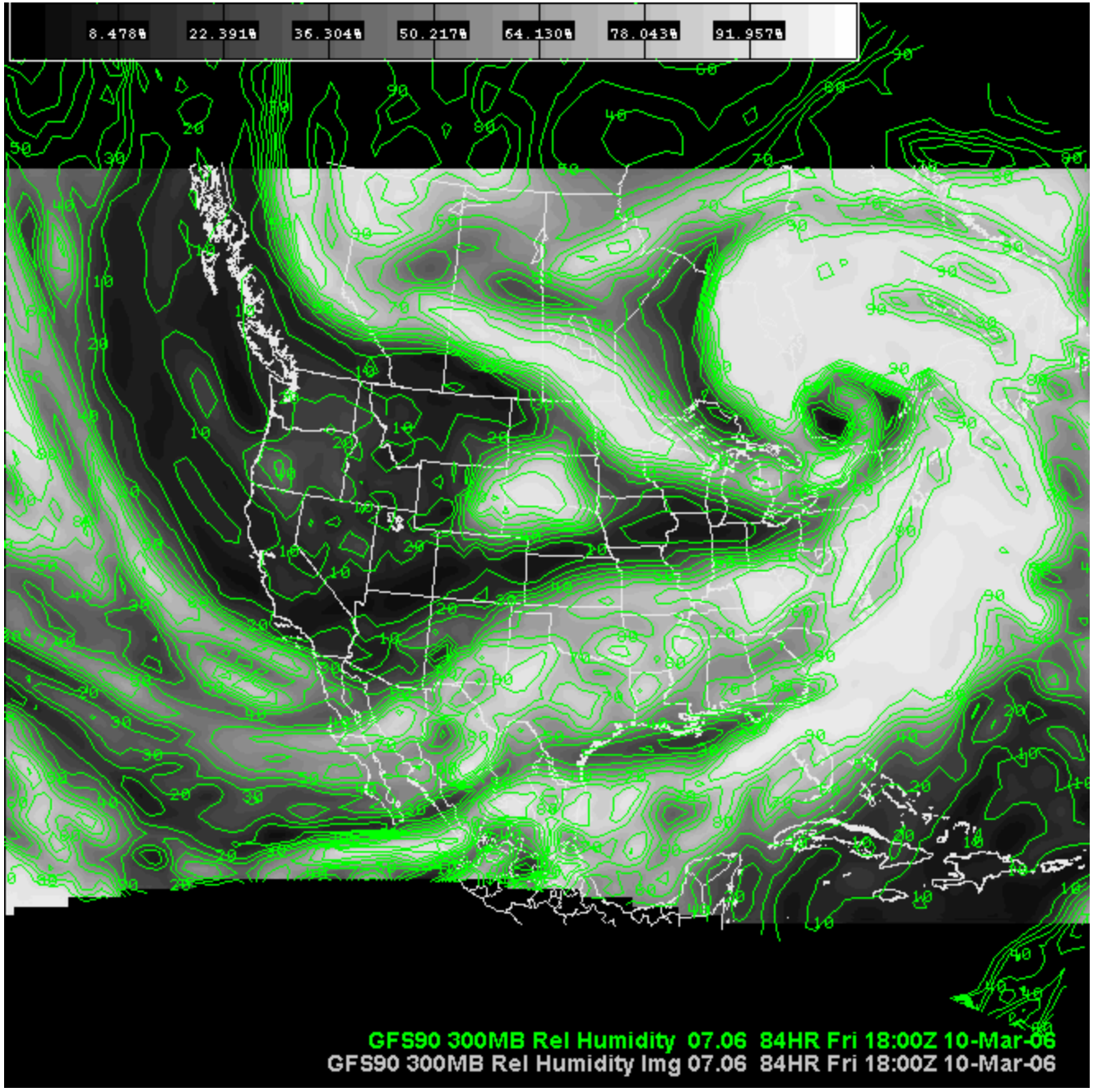
March 10 Clouds



Fri.
700 mb


8.4780
22.3910
36.3040
50.2170
64.1300
78.0430
91.9570
GFS90 700MB Rel Humidity 07.06 84HR Fri 18:00Z 10-Mar-06
GFS90 700MB Rel Humidity Img 07.06 84HR Fri 18:00Z 10-Mar-06

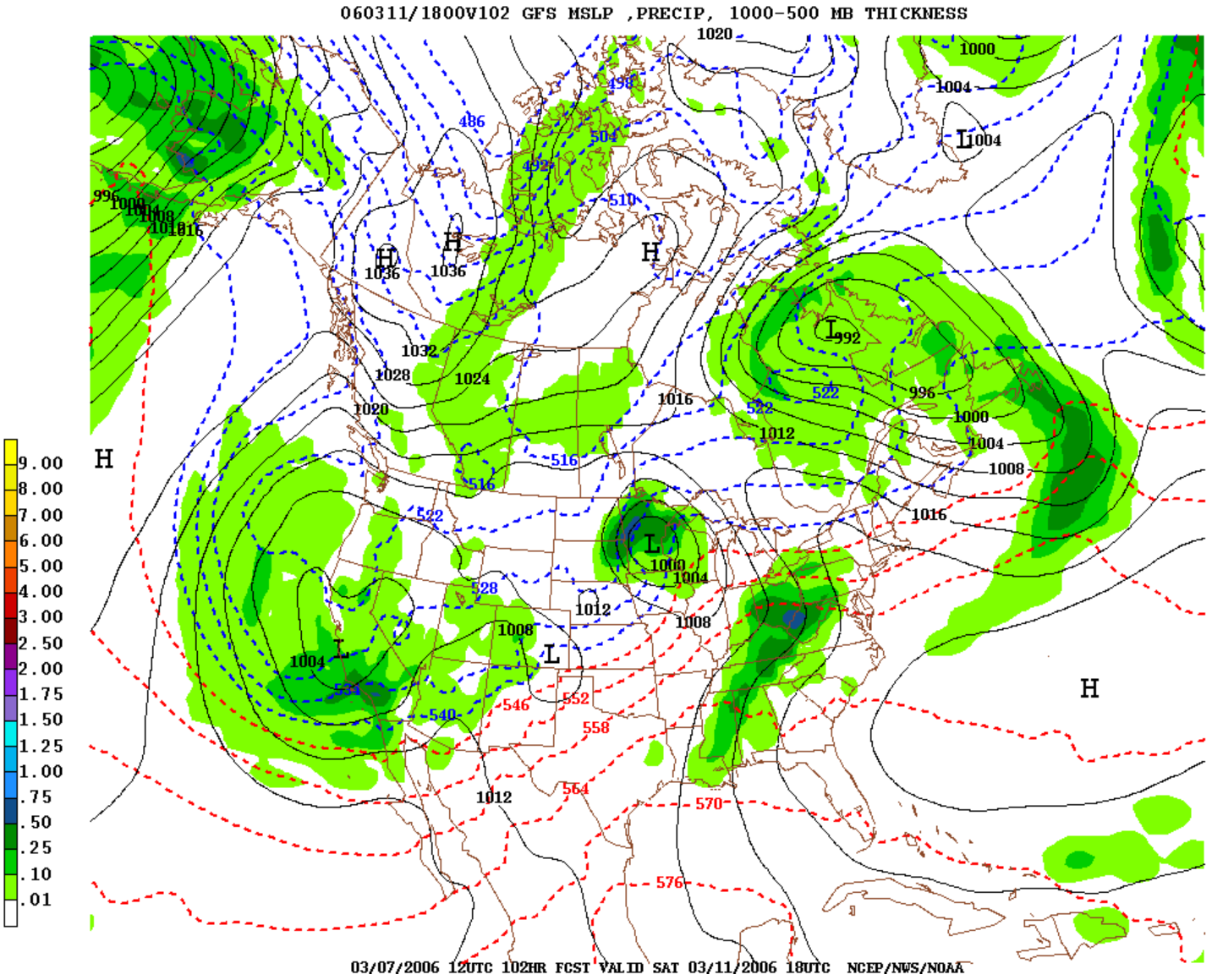
Fri.
300 mb


8.4780
22.3910
36.3040
50.2170
64.1300
78.0430
91.9570
GFS90 300MB Rel Humidity 07.06 84HR Fri 18:00Z 10-Mar-06
GFS90 300MB Rel Humidity Img 07.06 84HR Fri 18:00Z 10-Mar-06

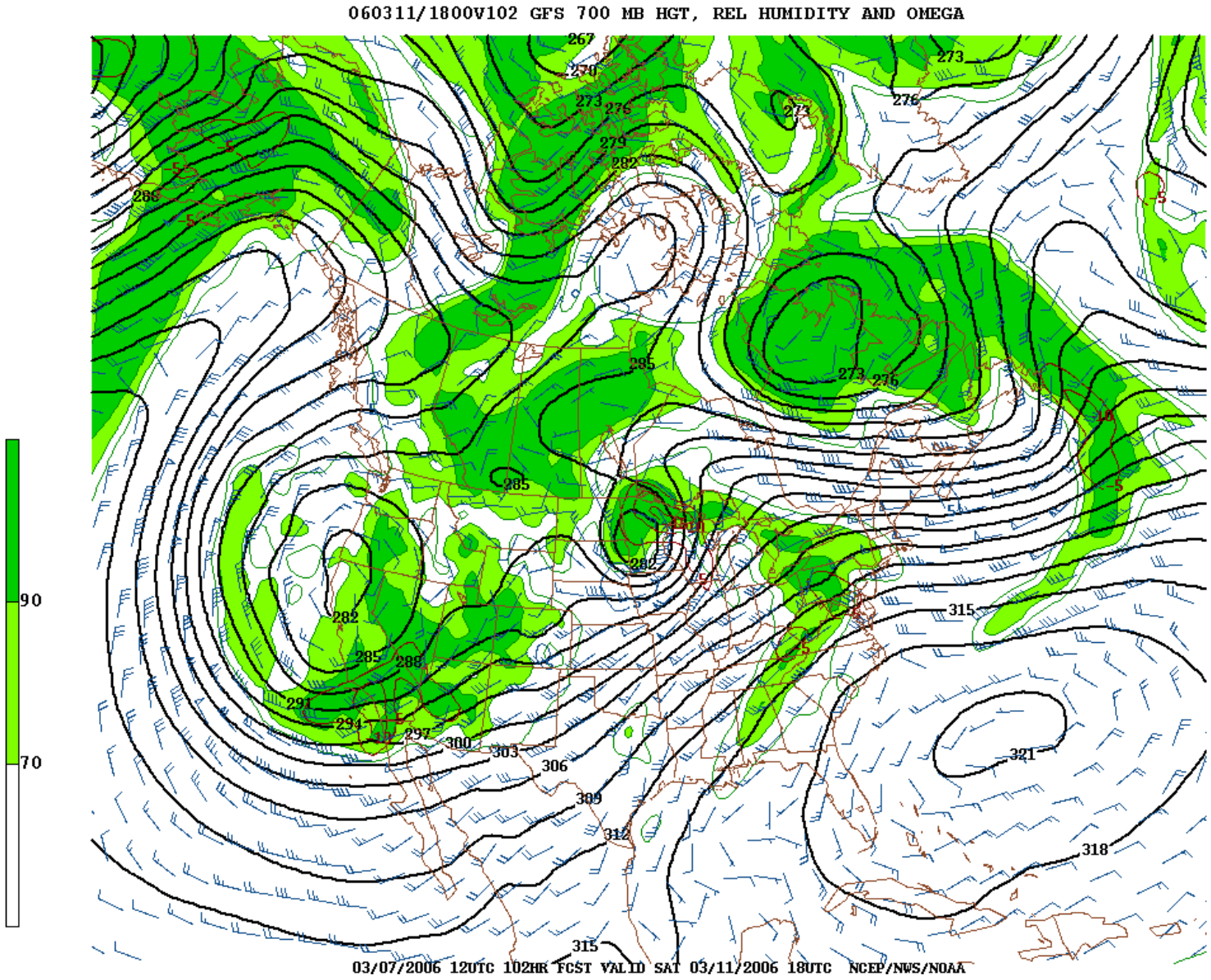
Saturday Forecast

11 March 2006

March 11
Surface

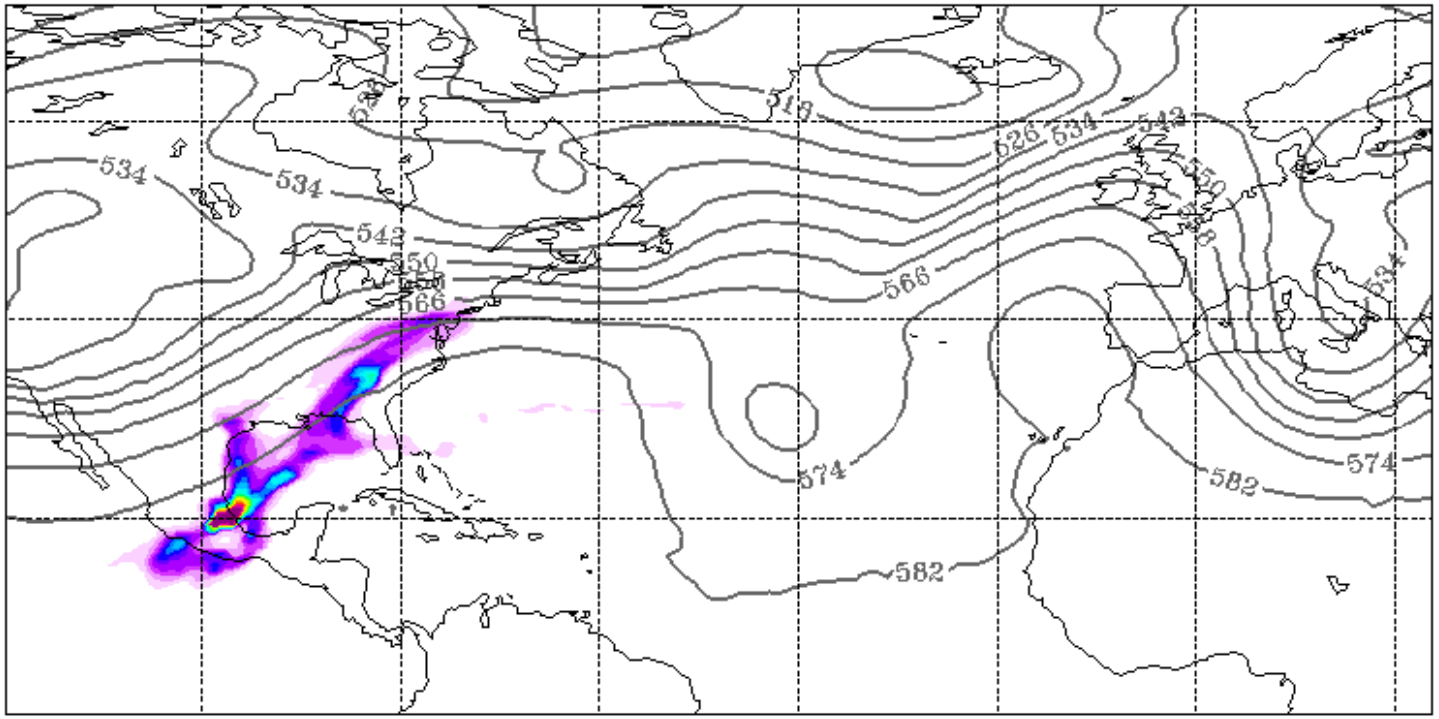


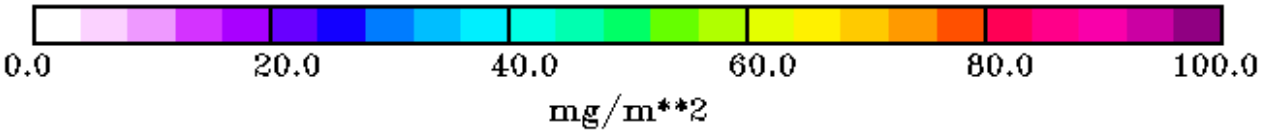
March 11
700 mb



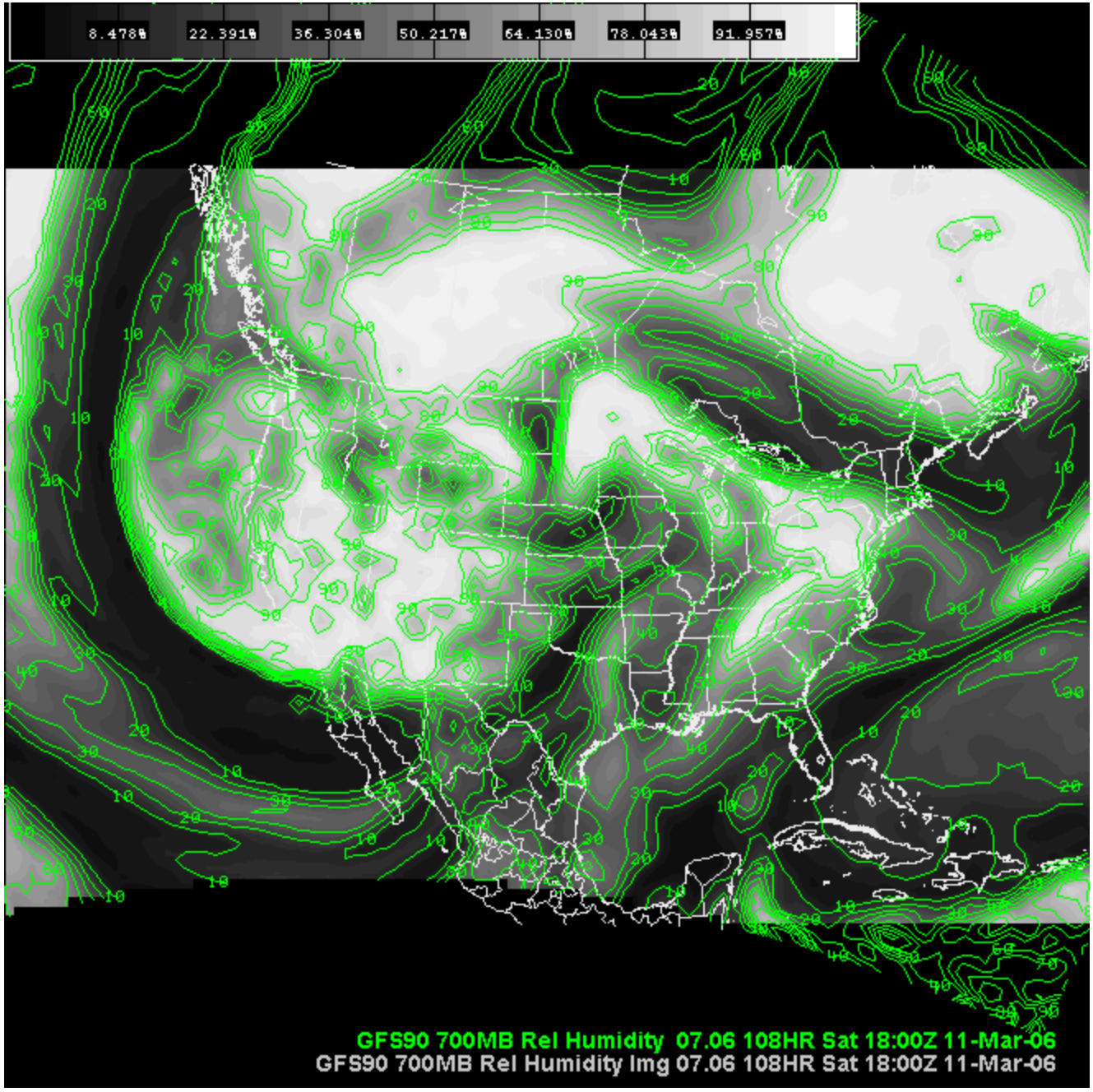
TOTAL COLUMN OF MC-COt
AND GEOPOTENTIAL HEIGHT CONTOURS AT 500 hPa
BASED ON GFS ANALYSIS
ANALYSIS 20060307 0 UTC ACTUAL 20060311 180000 UTC
MAXIMUM VALUE: 0.189E+03

Sat. 18Z

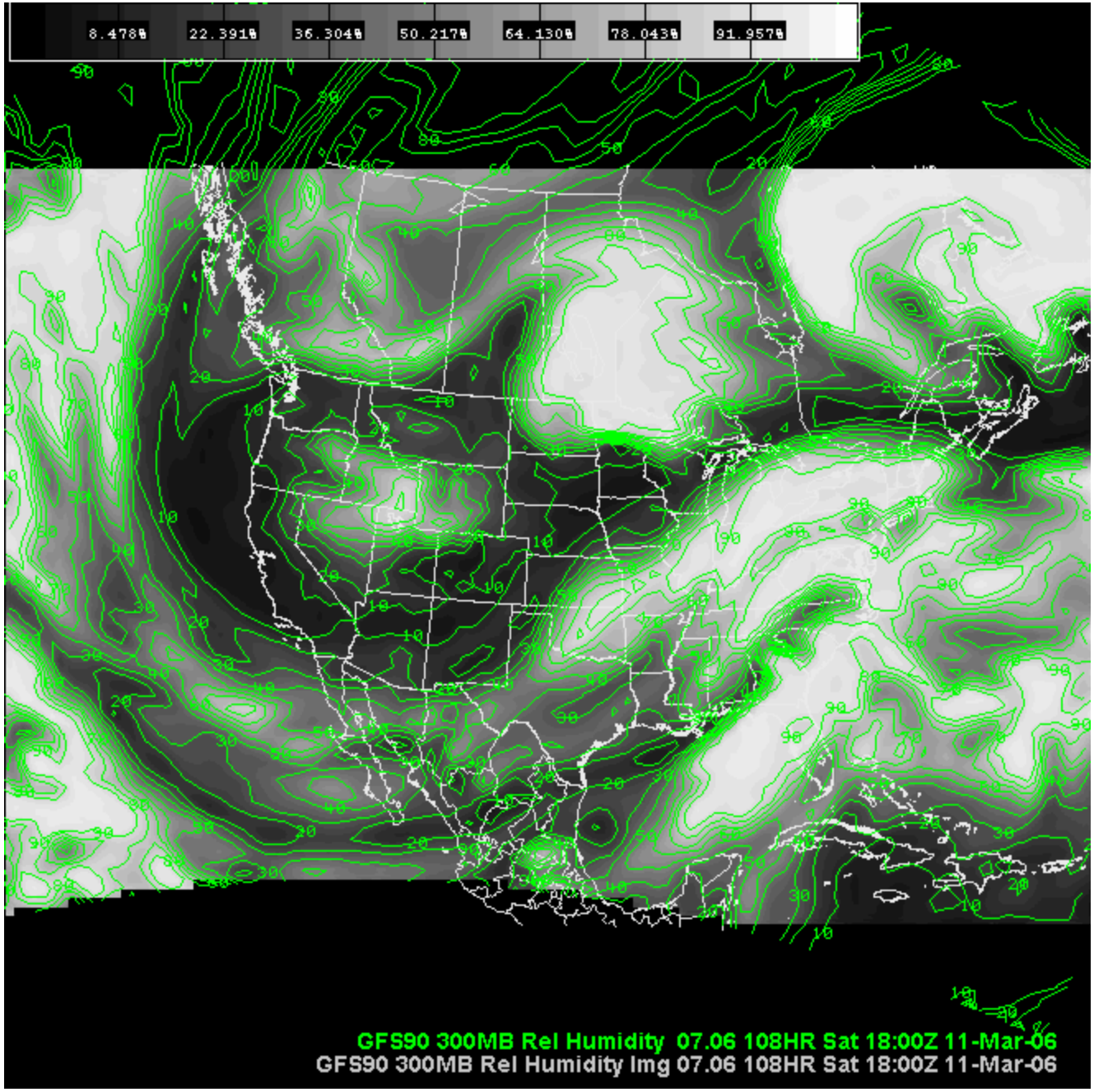




Sat.
700 mb


8.4780
22.3910
36.3040
50.2170
64.1300
78.0430
91.9570
GFS90 700MB Rel Humidity 07.06 108HR Sat 18:00Z 11-Mar-06
GFS90 700MB Rel Humidity Img 07.06 108HR Sat 18:00Z 11-Mar-06

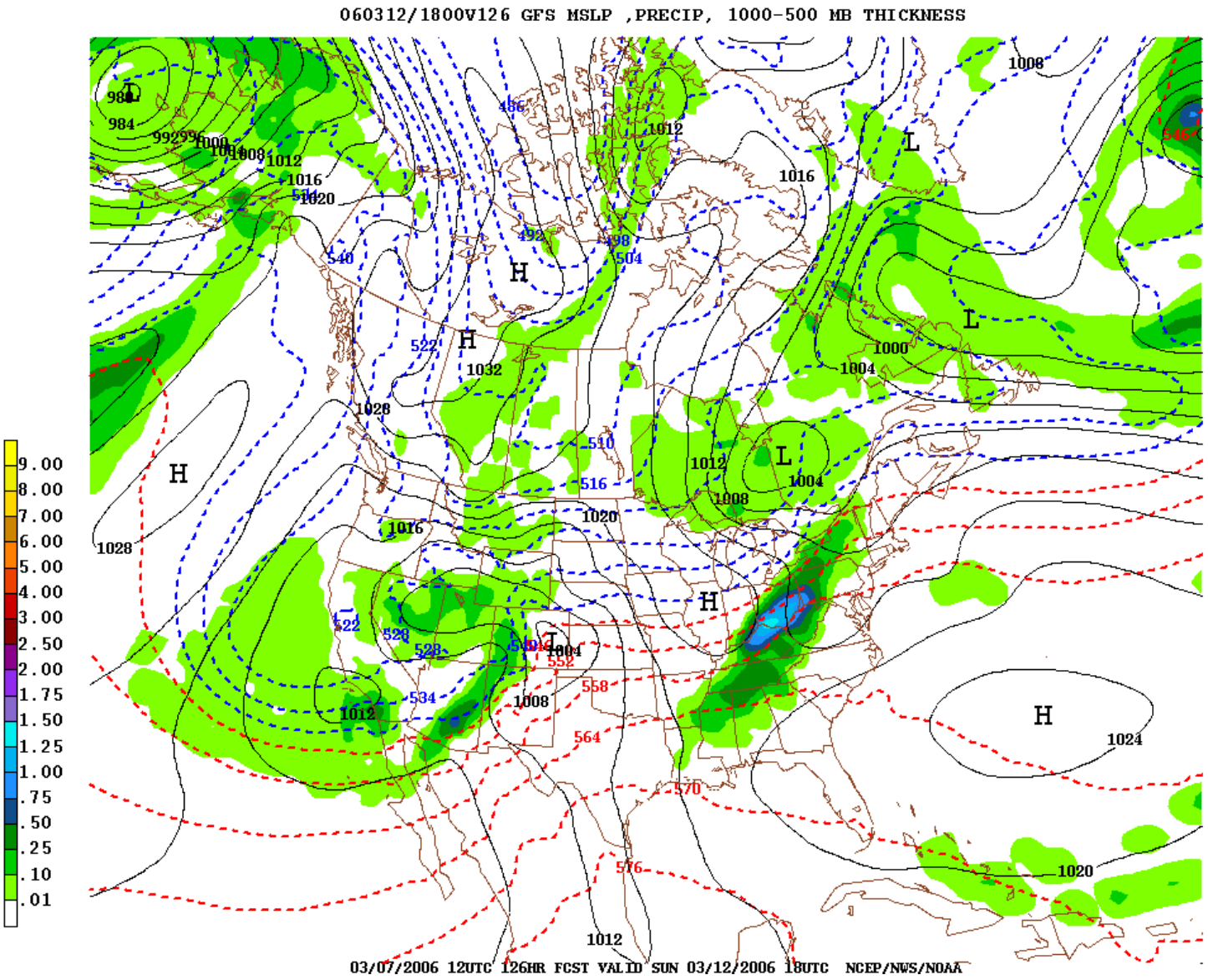
Sat.
300 mb


8.4780
22.3910
36.3040
50.2170
64.1300
78.0430
91.9570
GFS90 300MB Rel Humidity 07.06 108HR Sat 18:00Z 11-Mar-06
GFS90 300MB Rel Humidity Img 07.06 108HR Sat 18:00Z 11-Mar-06

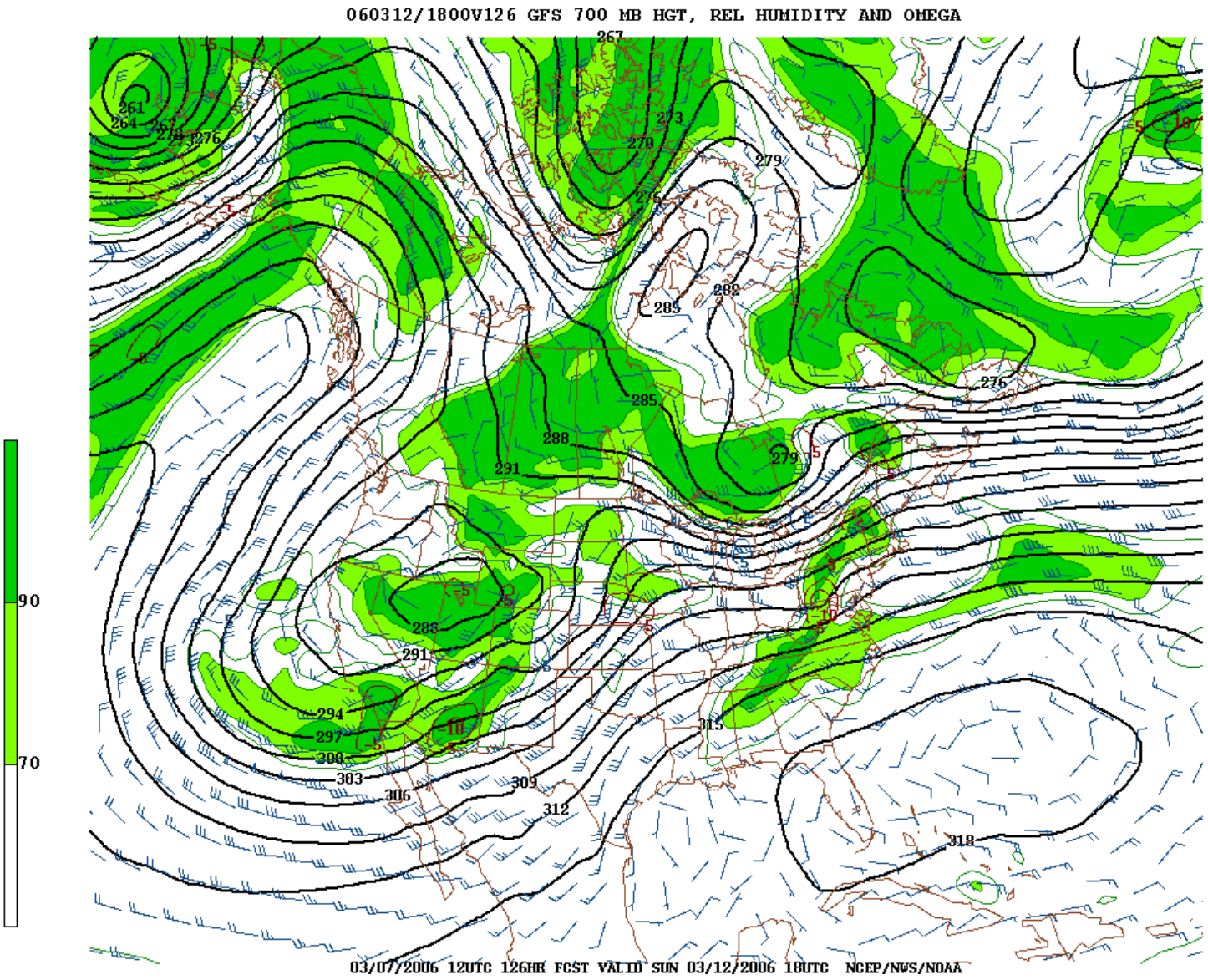
Sunday Forecast

12 March 2006

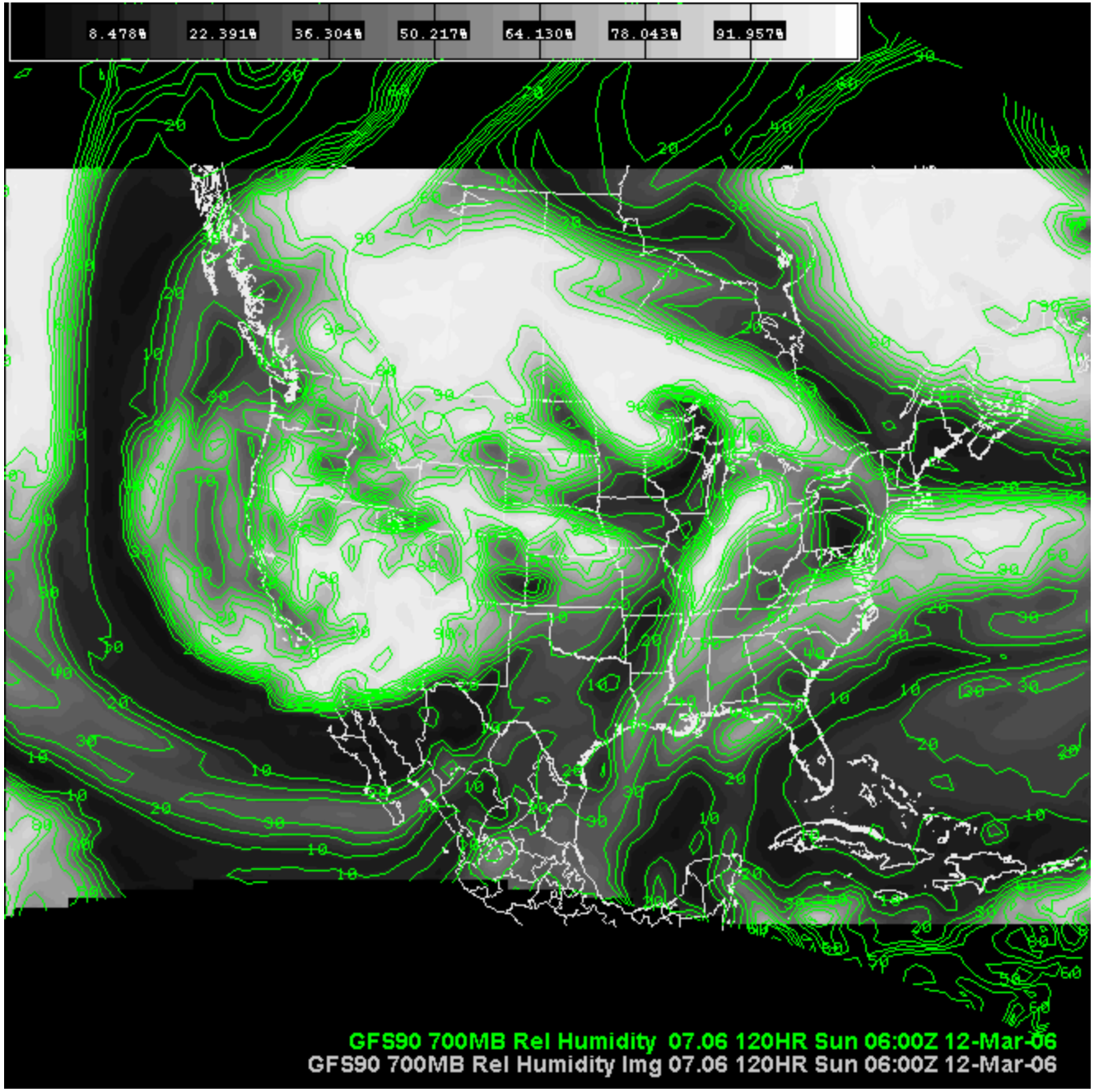
March 12
Surface



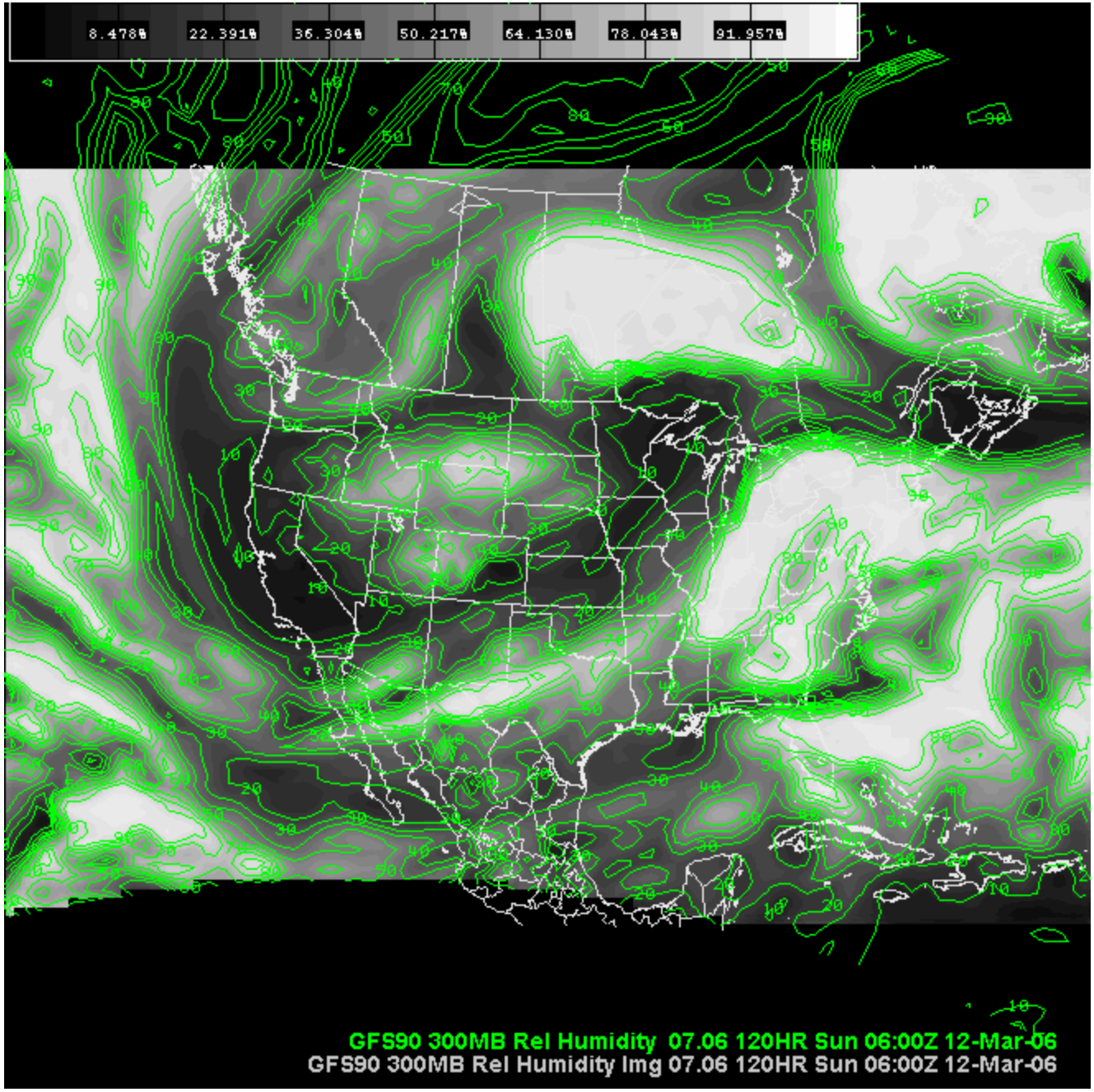
March 12
700 mb



Sun.
700 mb


8.4780
22.3910
36.3040
50.2170
64.1300
78.0430
91.9570
GFS90 700MB Rel Humidity 07.06 120HR Sun 06:00Z 12-Mar-06
GFS90 700MB Rel Humidity Img 07.06 120HR Sun 06:00Z 12-Mar-06

Sun.
300 mb


8.4780
22.3910
36.3040
50.2170
64.1300
78.0430
91.9570
GFS90 300MB Rel Humidity 07.06 120HR Sun 06:00Z 12-Mar-06
GFS90 300MB Rel Humidity Img 07.06 120HR Sun 06:00Z 12-Mar-06