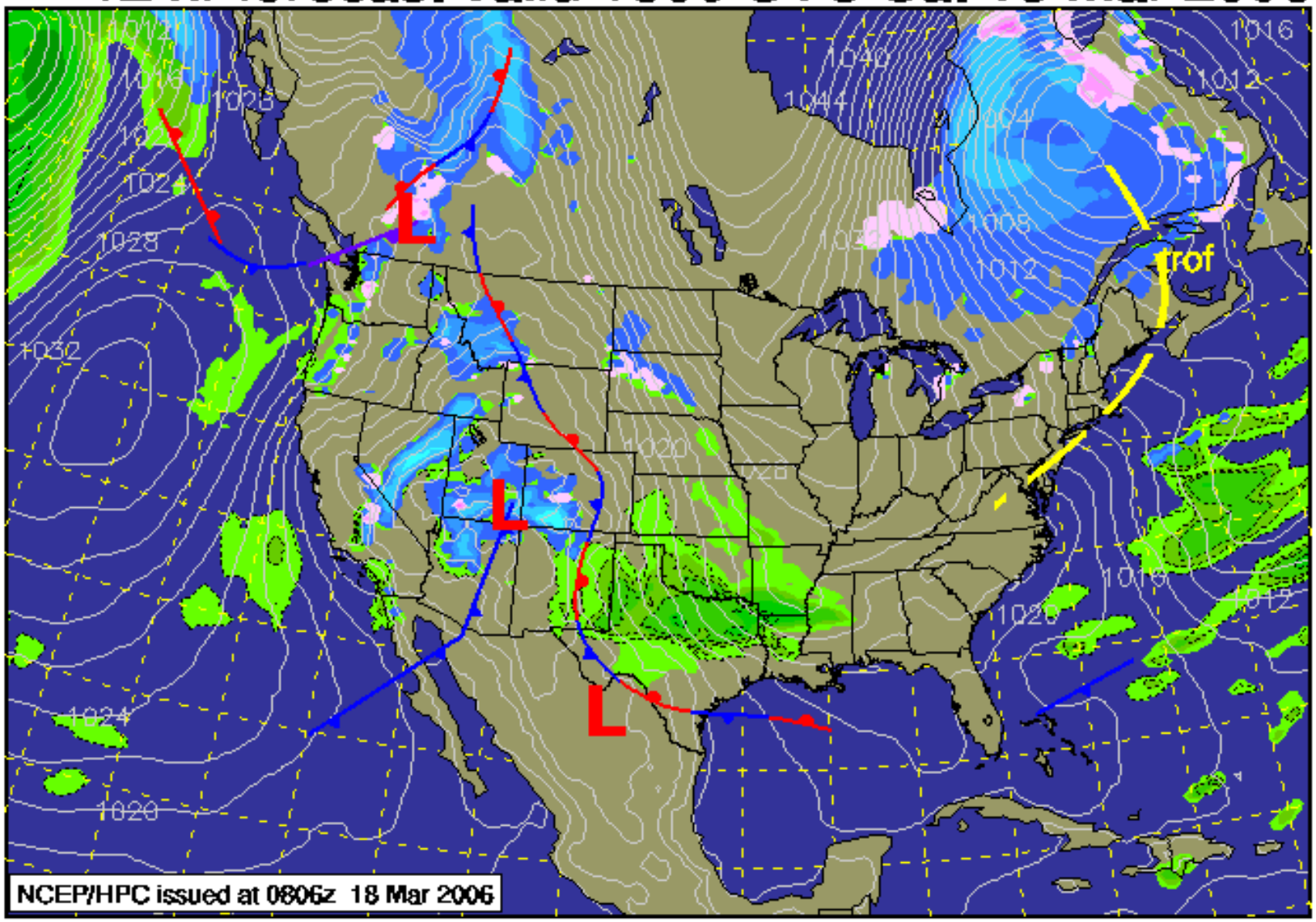
Current Conditions

18 March 2006

Henry Fuelberg
Geoffrey Stano

"Your Eyes to the Skies"

12 hr forecast valid 1800 UTC Sat 18 Mar 2006

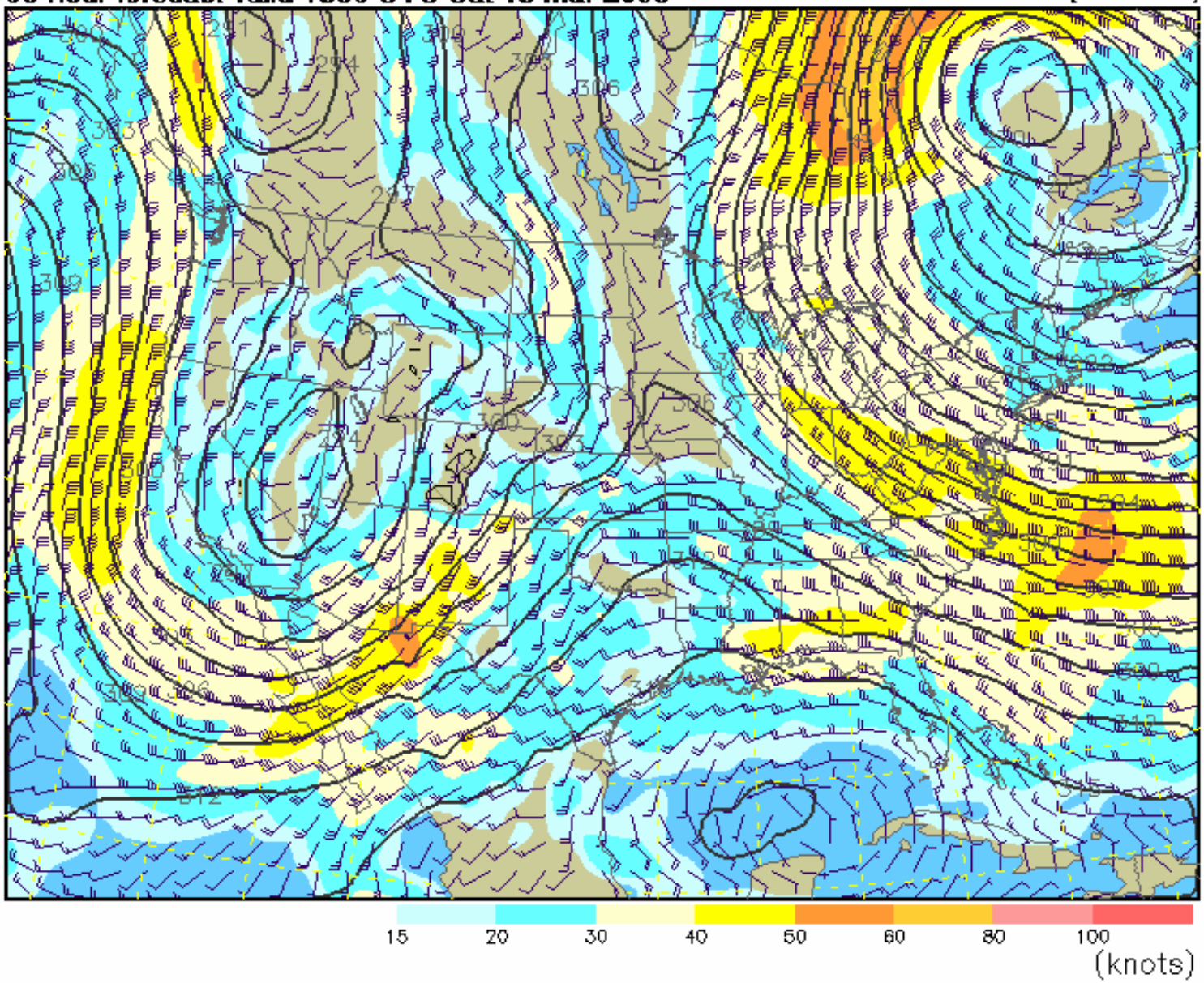


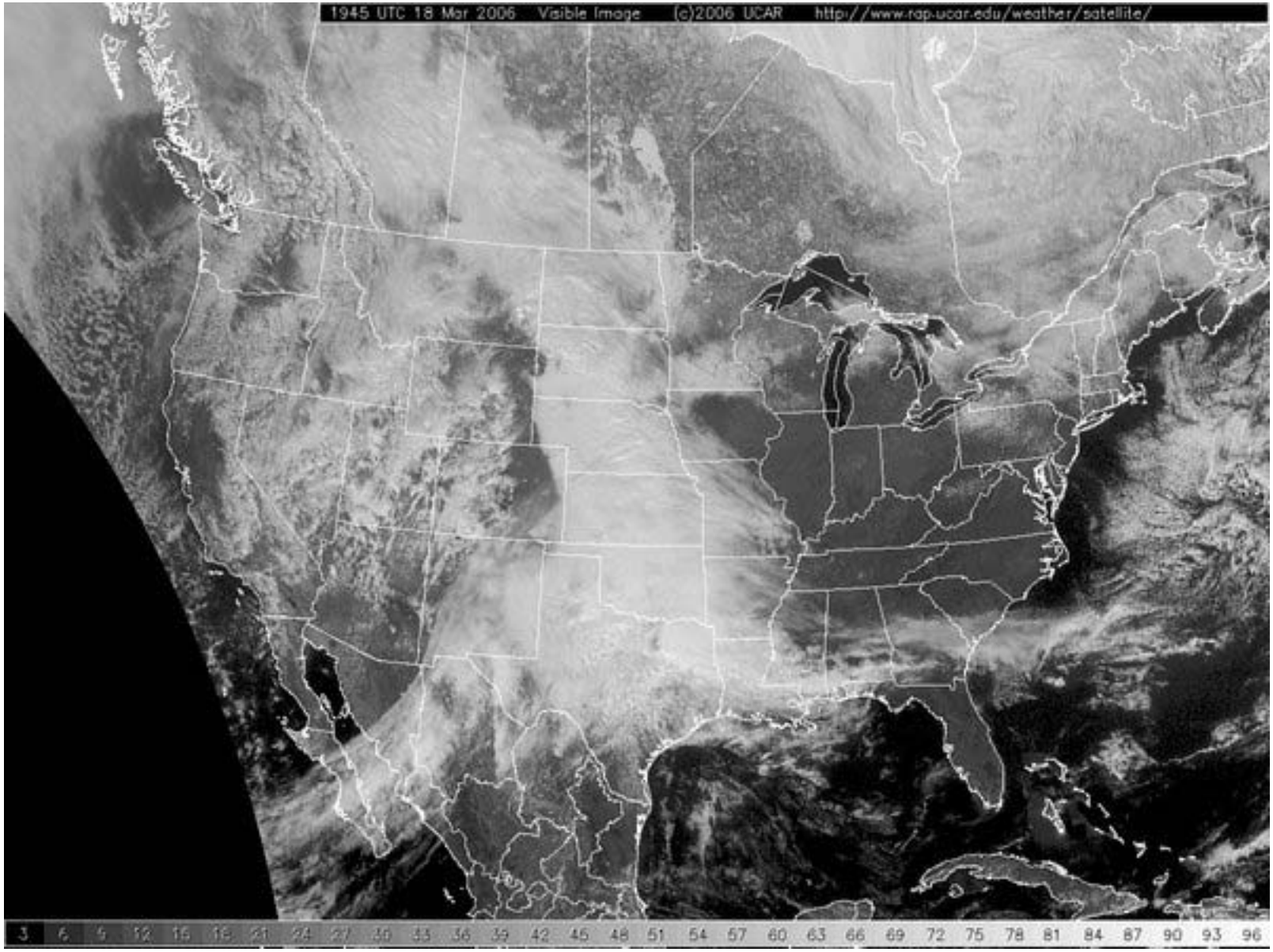
Rain Snow Wintry mix

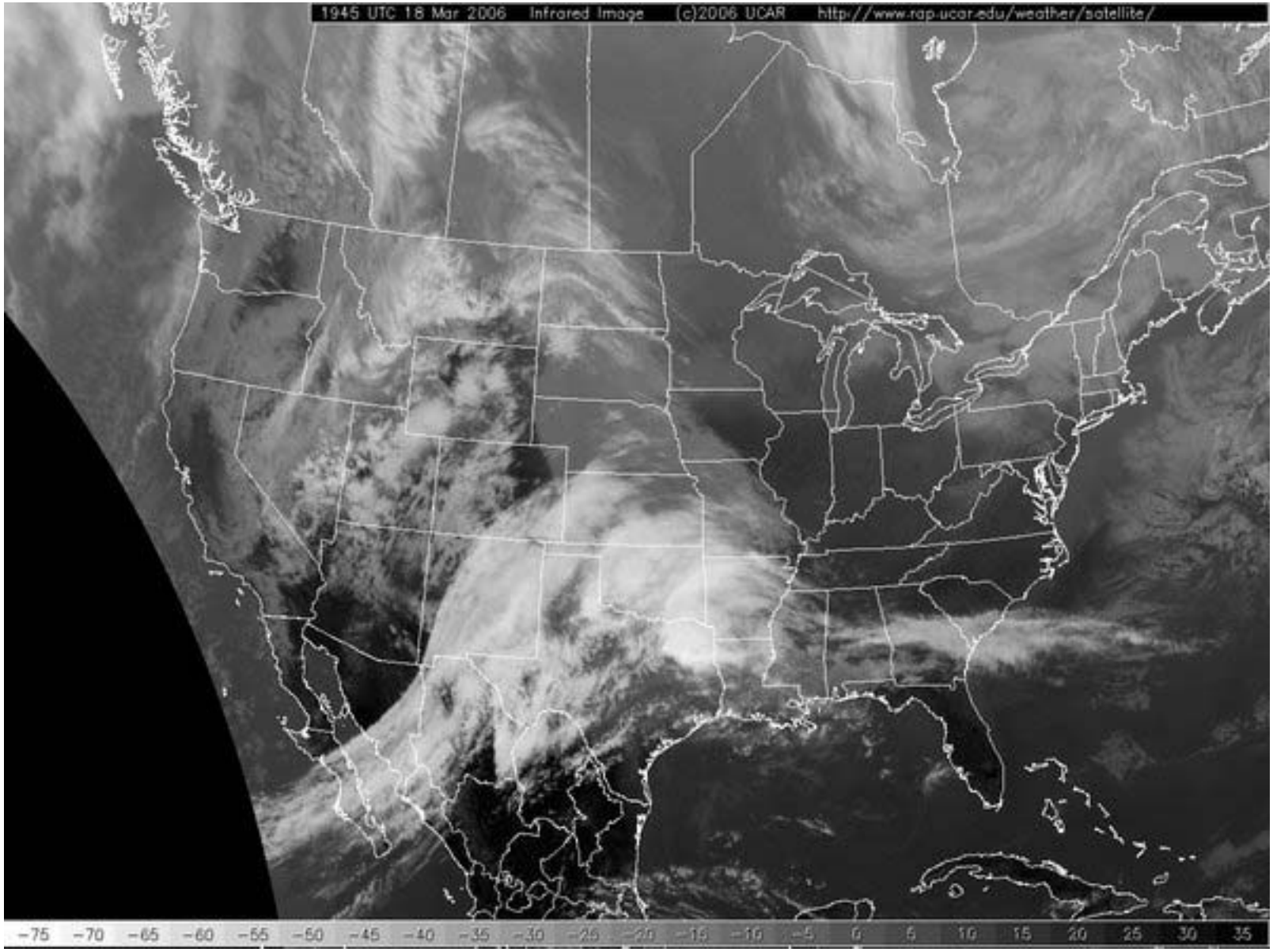
700 mb Heights (dm) / Isotachs (knots)

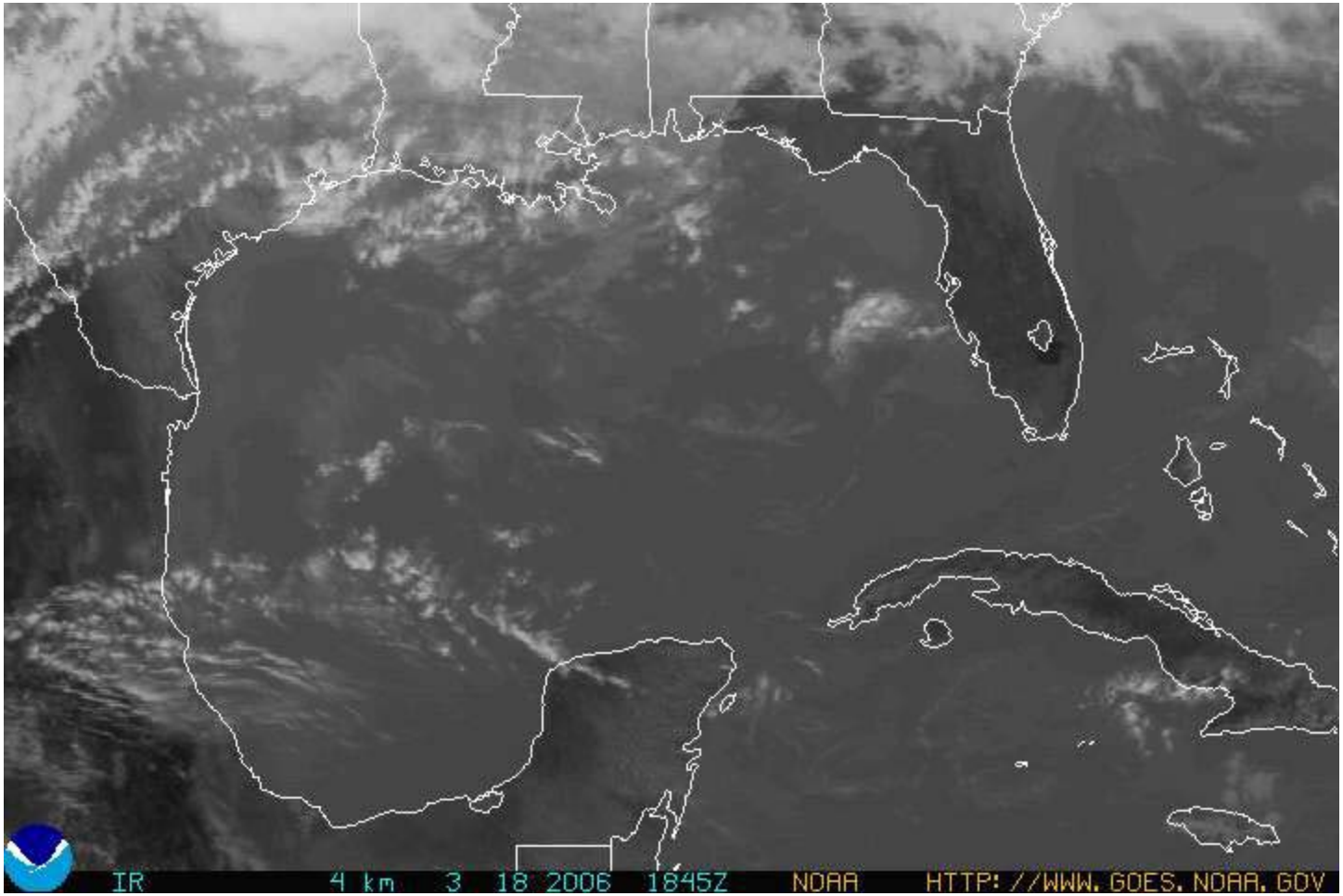
06-hour forecast valid 1800 UTC Sat 18 Mar 2006

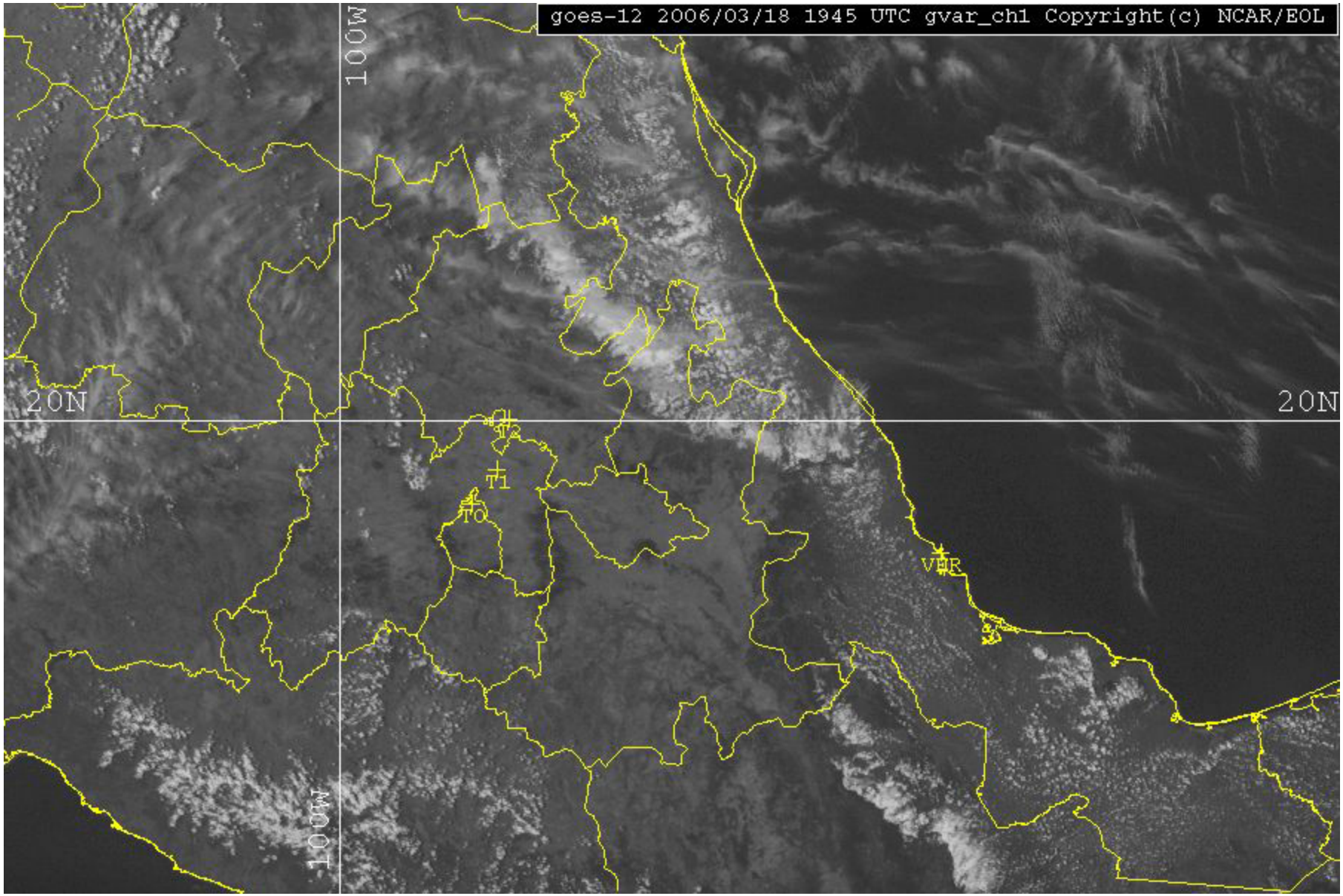
RUC (12z 18 Mar)




1945 UTC 18 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

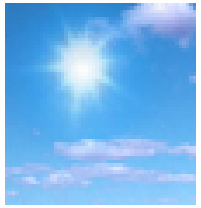
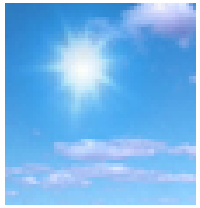

1945 UTC 18 Mar 2006 Infrared Image (c)2006 UCAR http://www.rap.ucar.edu/weather/satellite/
-75 -70 -65 -60 -55 -50 -45 -40 -35 -30 -25 -20 -15 -10 -5 0 5 10 15 20 25 30 35


IR 4 km 3 18 2006 1845Z NOAA HTTP://WWW.GOES.NOAA.GOV

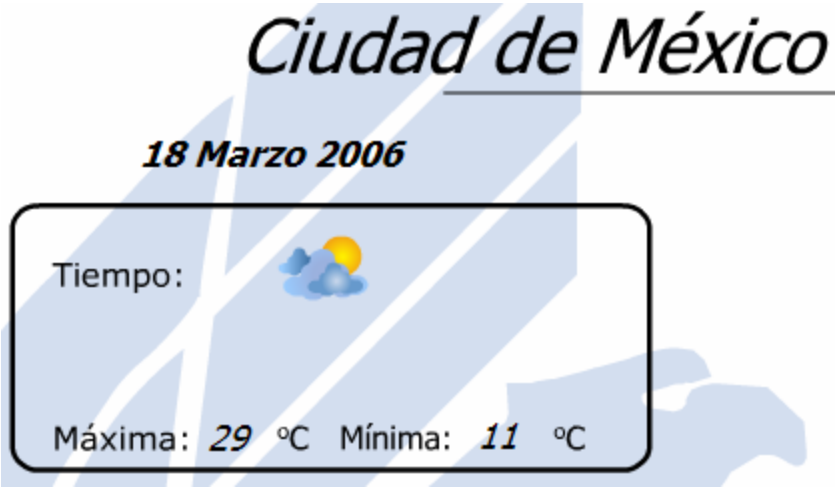

goes-12 2006/03/18 1945 UTC gvar_ch1 Copyright(c) NCAR/EOL
100W
20N
20N
T2
T1
T0
VER
100W

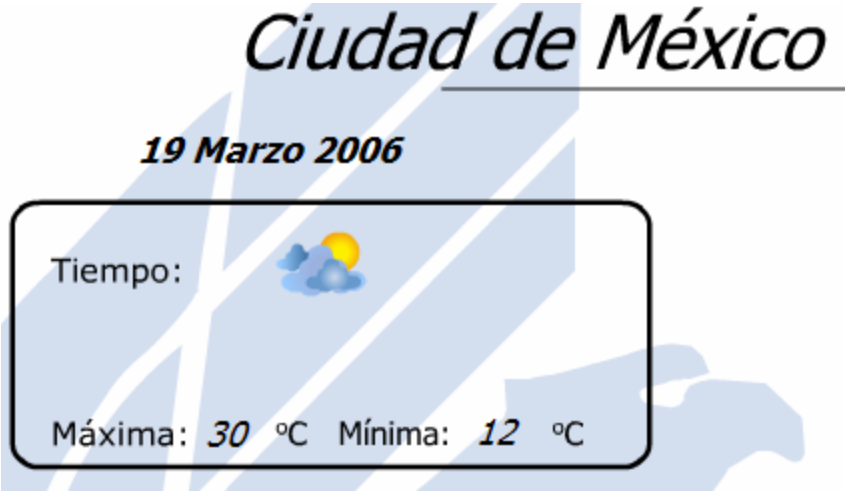
Houston Forecast

This Afternoon	Tonight	Sunday	Sunday Night
Chance Rain	Chance Tstms	Chance Tstms	Chance Tstms
Hi 71°F	Lo 65°F	Hi 78°F	Lo 67°F

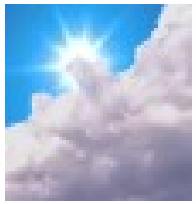
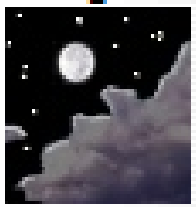
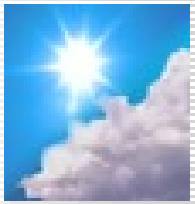
Monday	Monday Night	Tuesday	Tuesday Night	Wednesday
				
Slight Chc Tstms	Mostly Clear	Mostly Sunny	Mostly Clear	Mostly Sunny
Hi 81°F	Lo 47°F	Hi 69°F	Lo 40°F	Hi 67°F

Mexico City Forecast





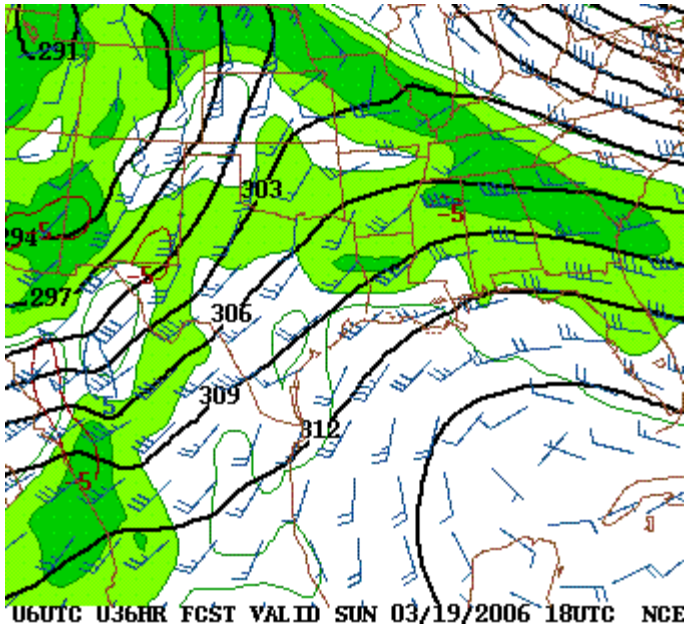
Ames Forecast

Monday	Monday Night	Tuesday	Tuesday Night	Wednesday
				
Likely Rain	Numerous Rain Showers	Mostly Cloudy	Partly Cloudy	Partly Cloudy
Hi 56°F PoP 70%	Lo 43°F PoP 70%	Hi 57°F PoP 40%	Lo 44°F PoP 30%	Hi 62°F PoP 10%

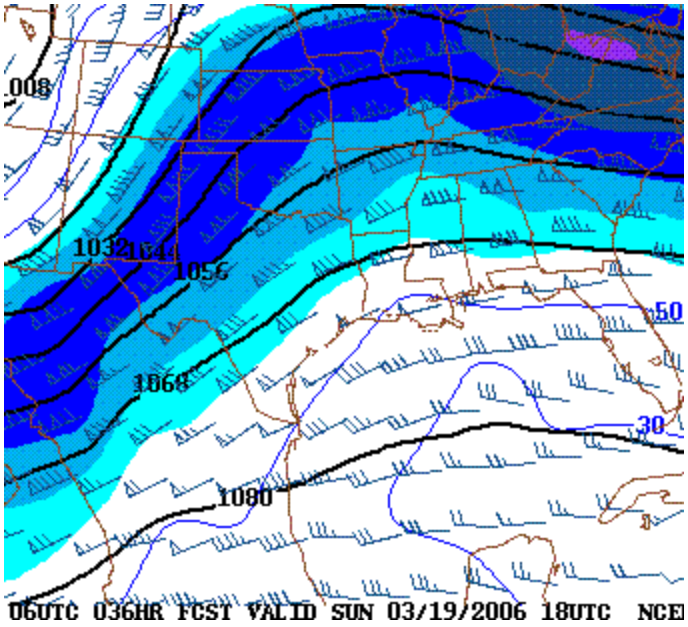
Sunday Forecast

19 March 2006

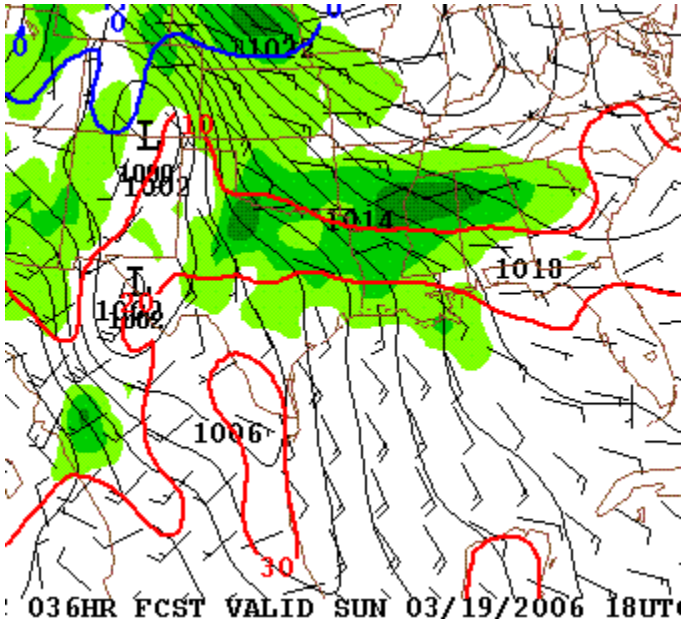
700 mb



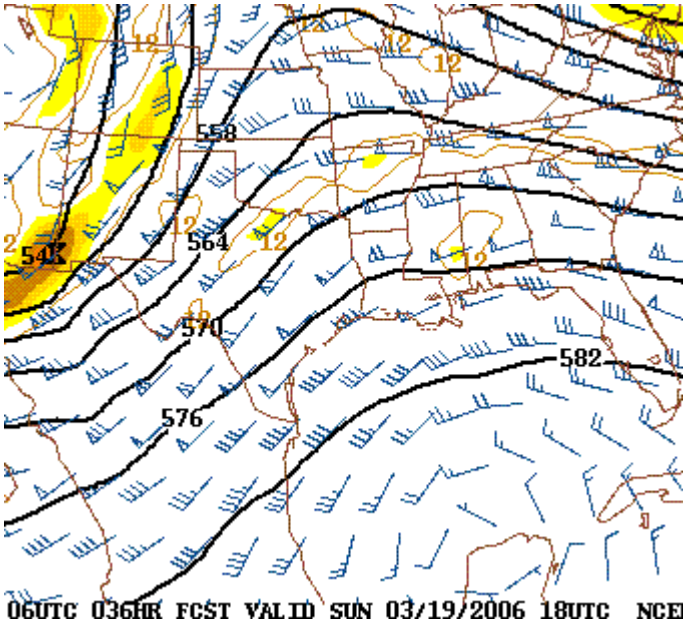
250 mb



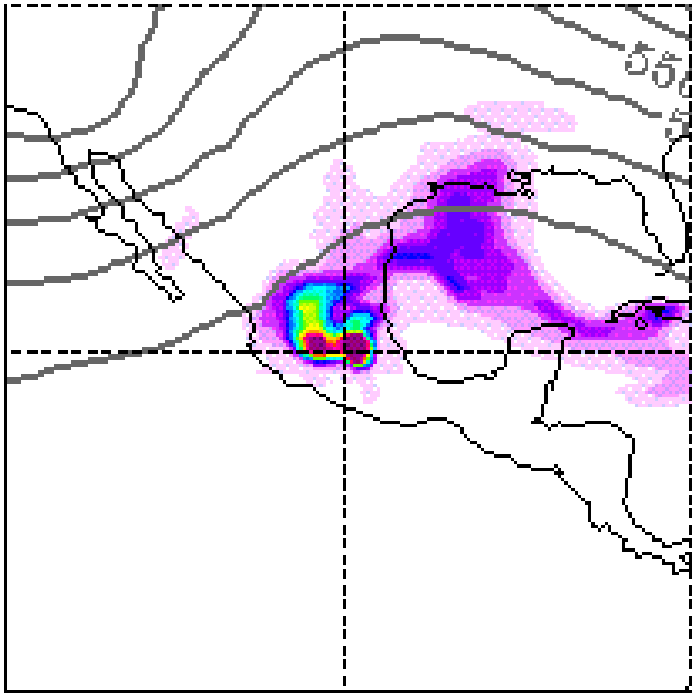
Surface



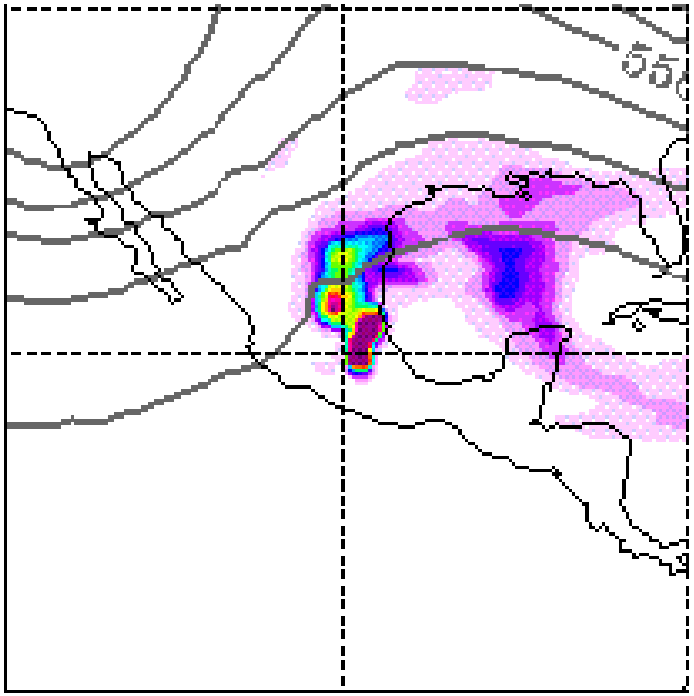
500 mb



Saturday Flexpart Forecasts

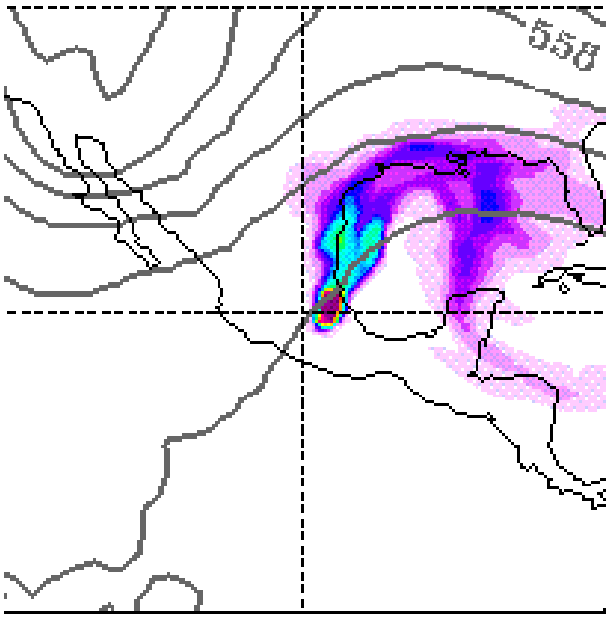


Saturday 6 AM

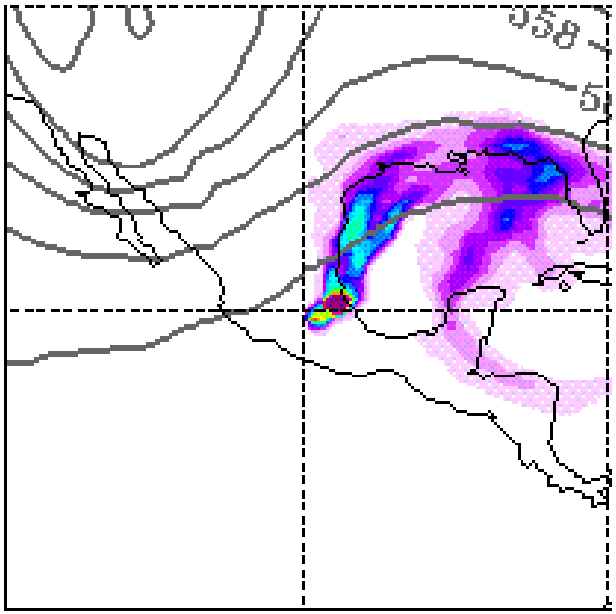


Saturday 6 PM

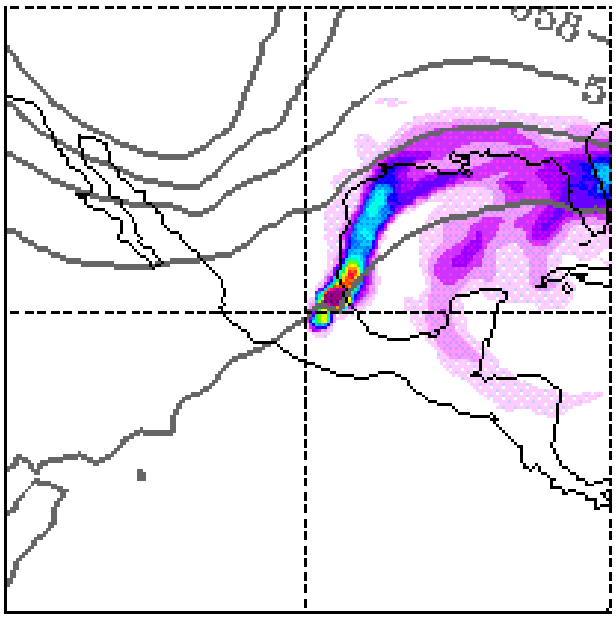
Sunday Flexpart Forecasts



Sunday 6 AM

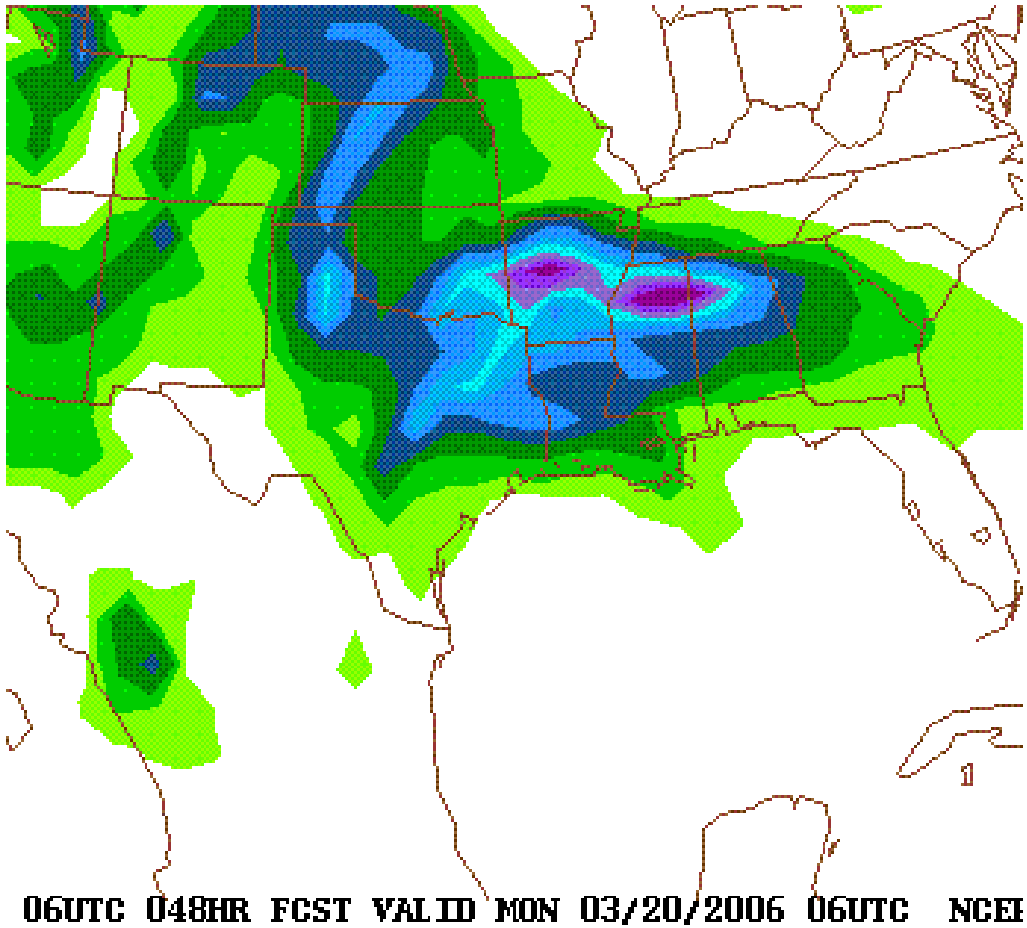


Sunday Noon

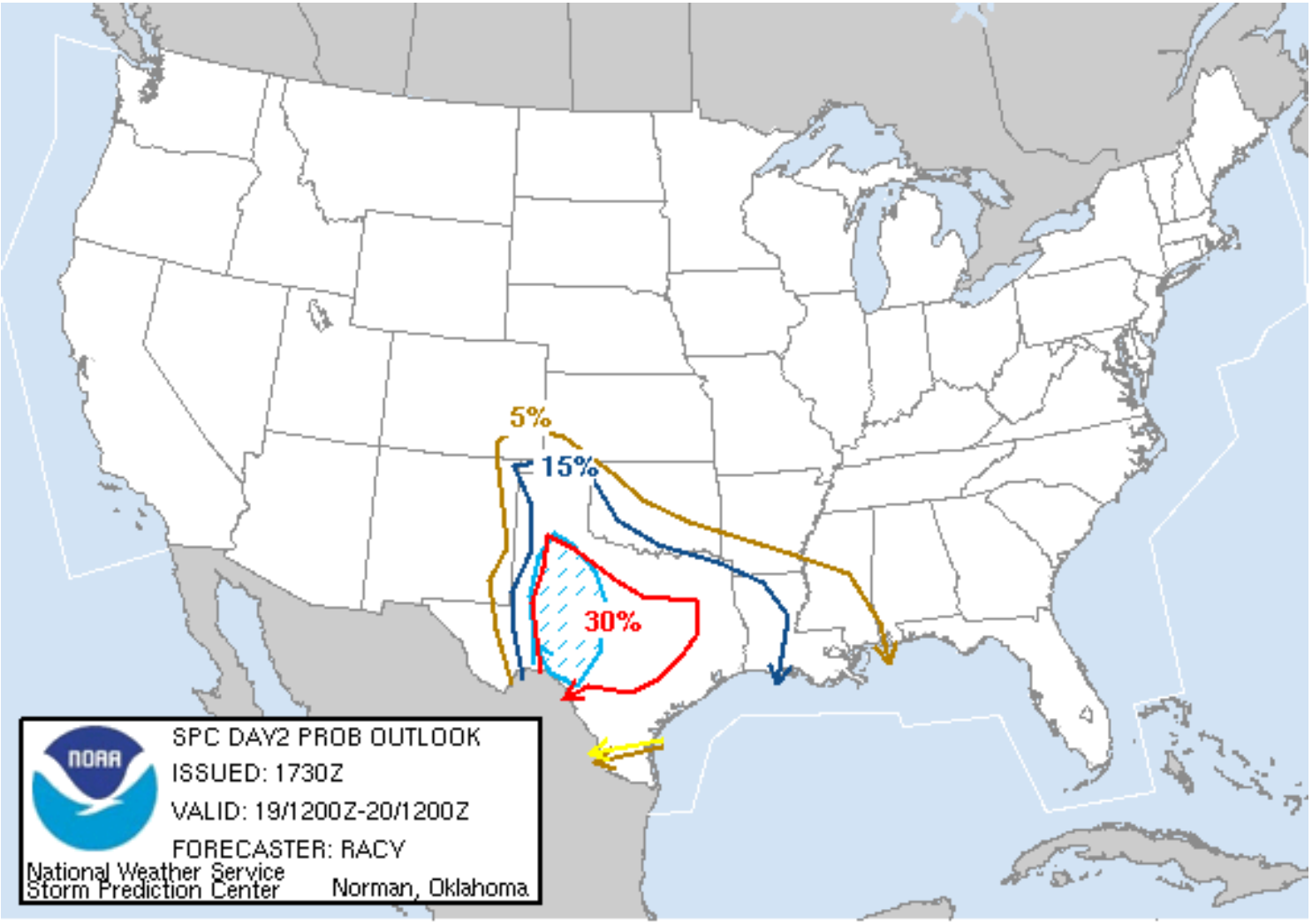


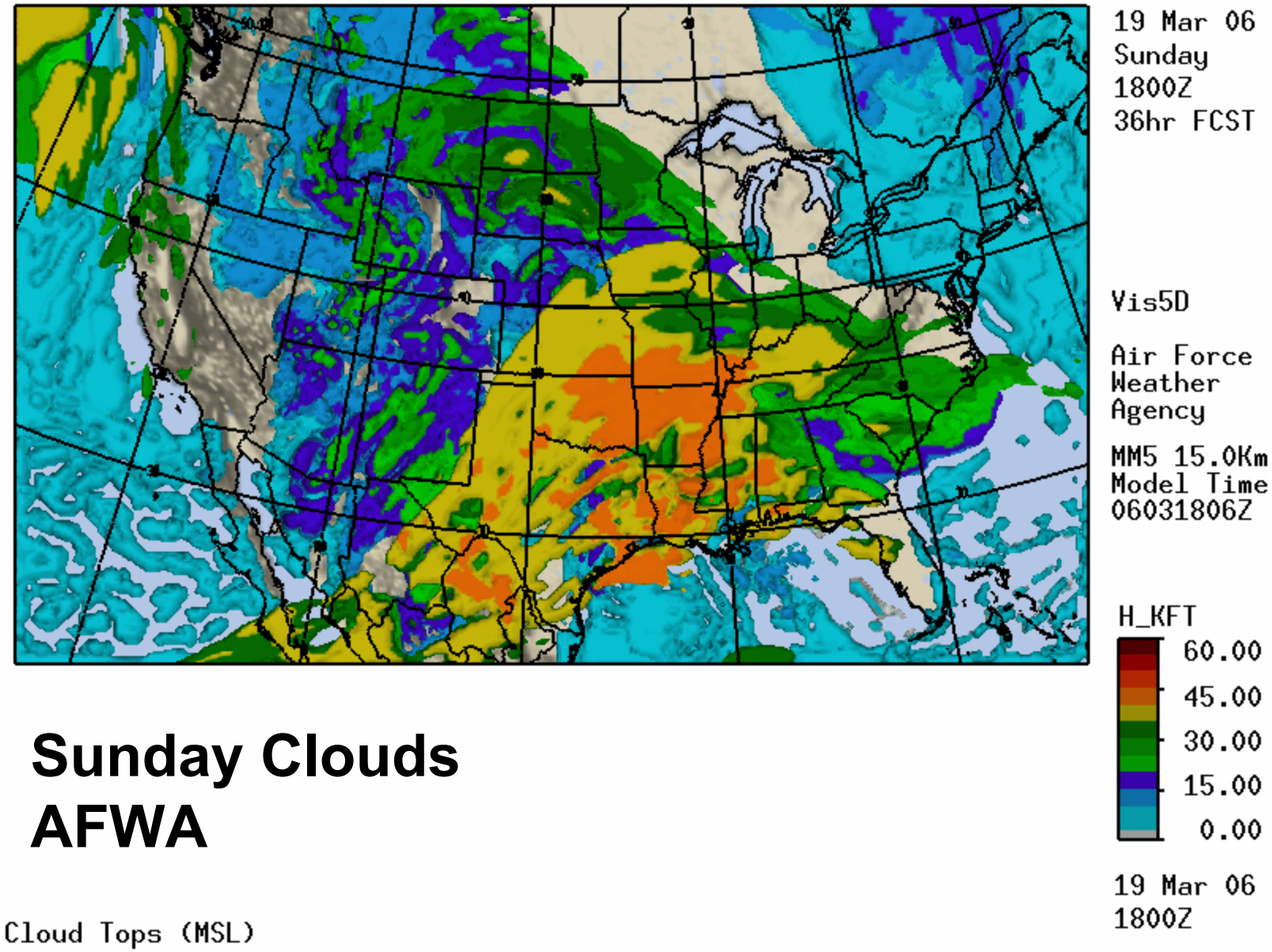
Sunday 6 PM

Sunday Precip Forecast - GFS



SPC Severe Weather Outlook

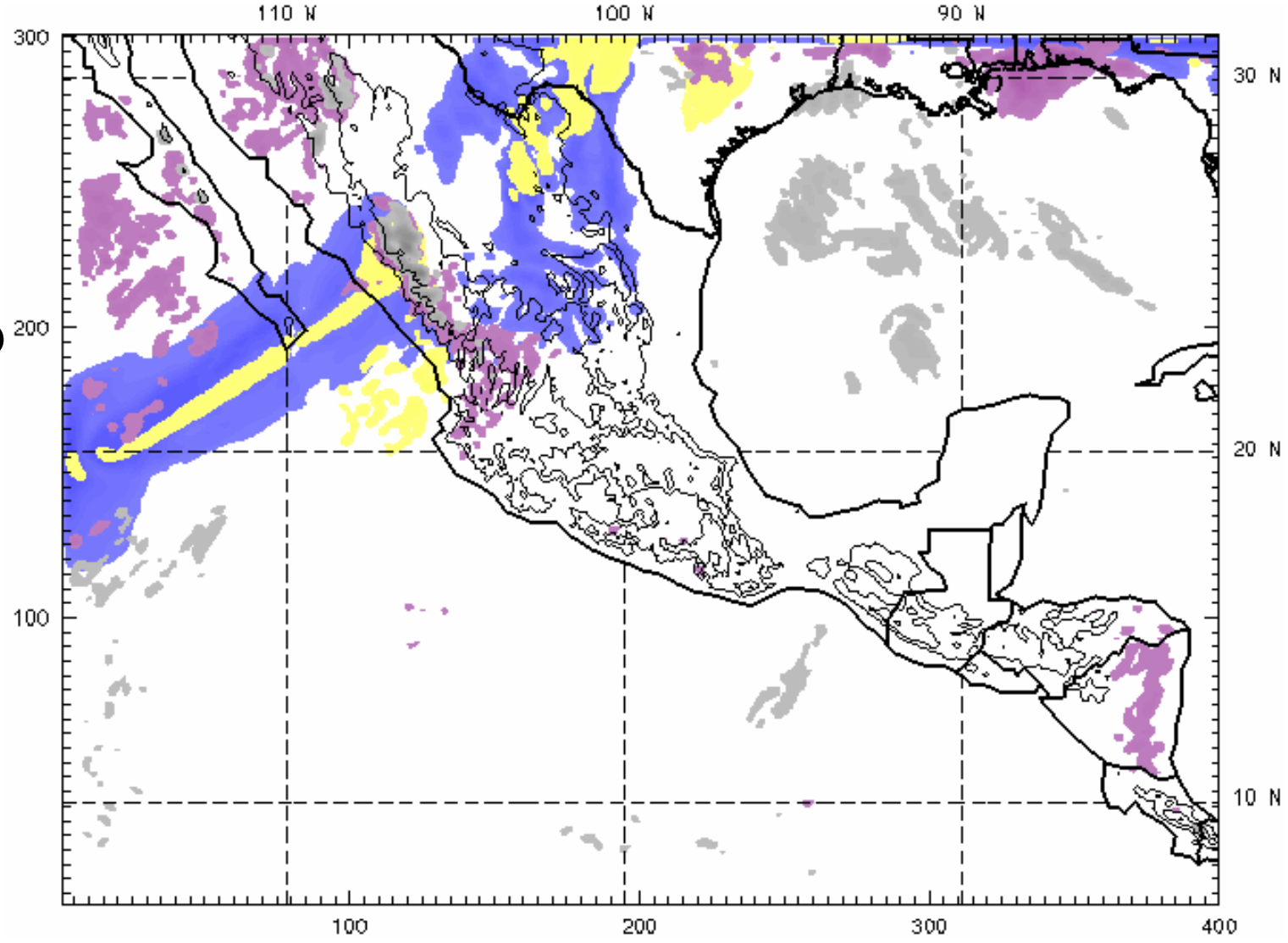




Sunday Clouds
AFWA

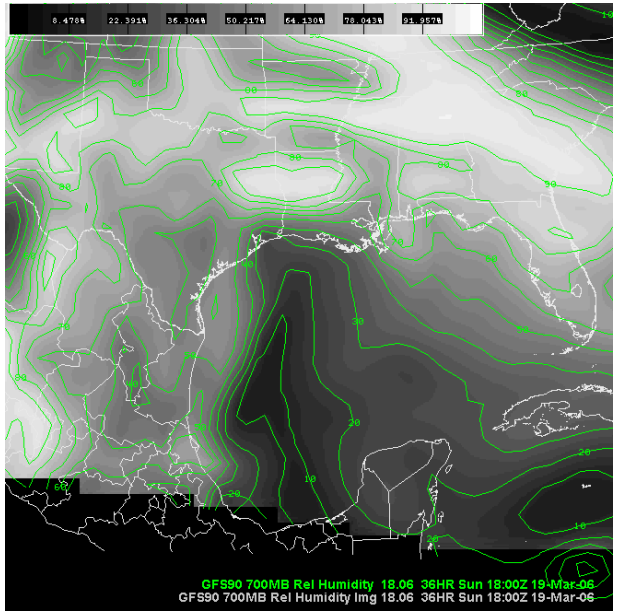
Cloud Tops (MSL)

Sun. Clouds WRF – Milagro

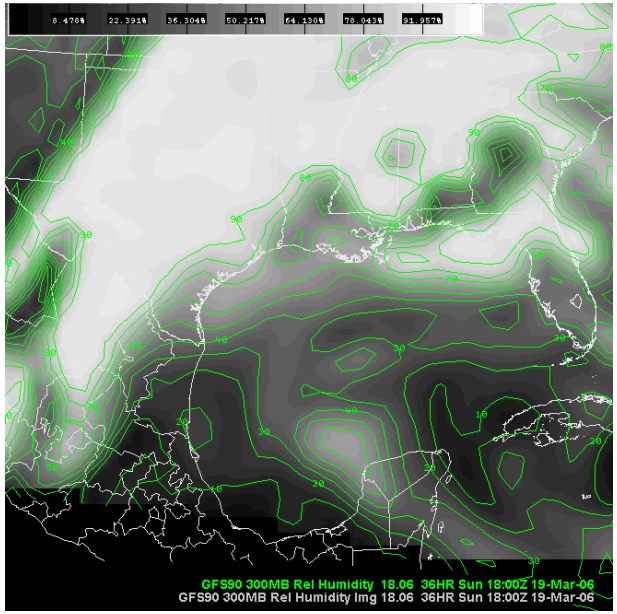


GFS Rel. Hum.

700 mb



300 mb



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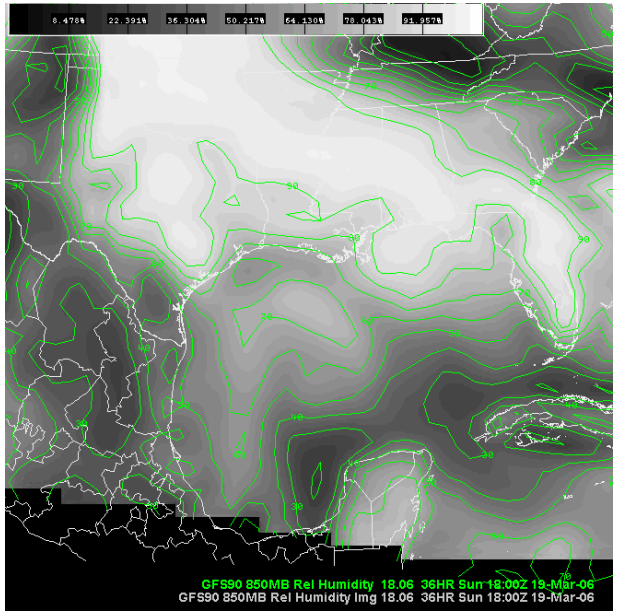

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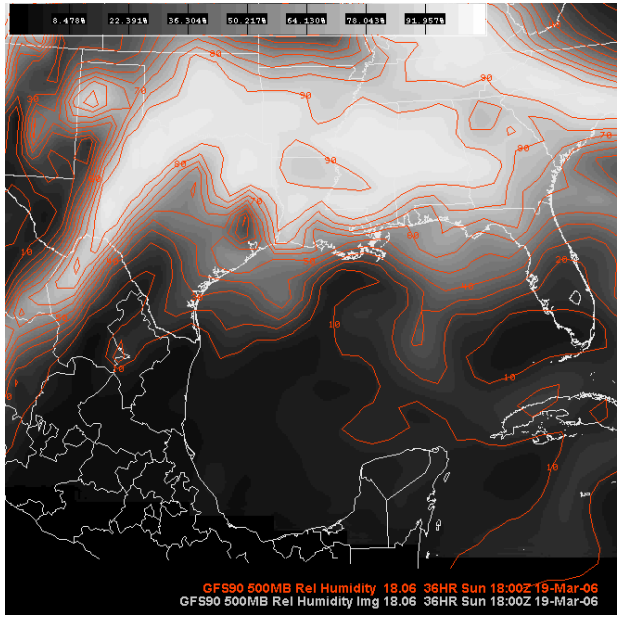
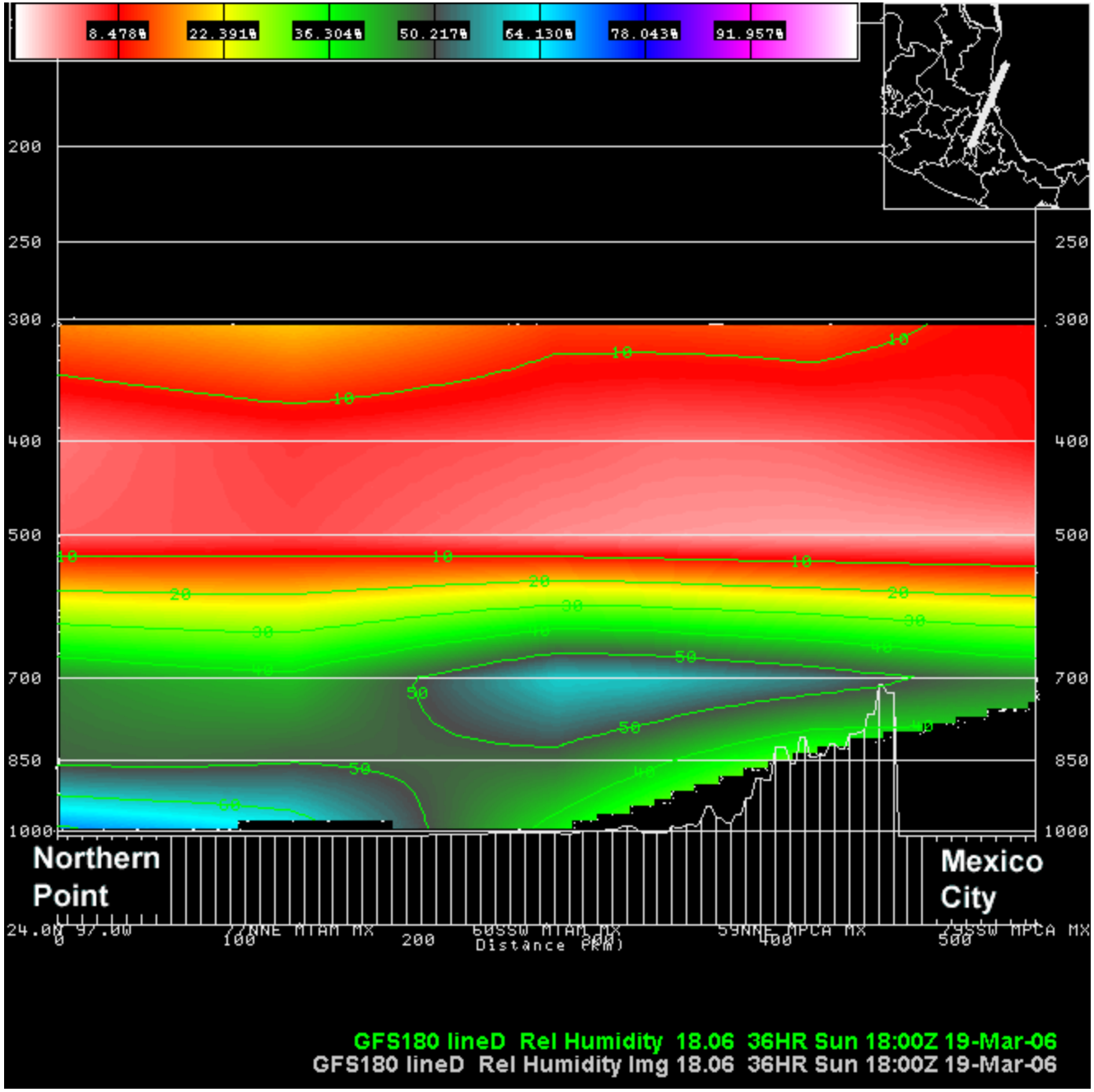


Sun. Leg 4


8.478%
22.391%
36.304%
50.217%
64.130%
78.043%
91.957%
200
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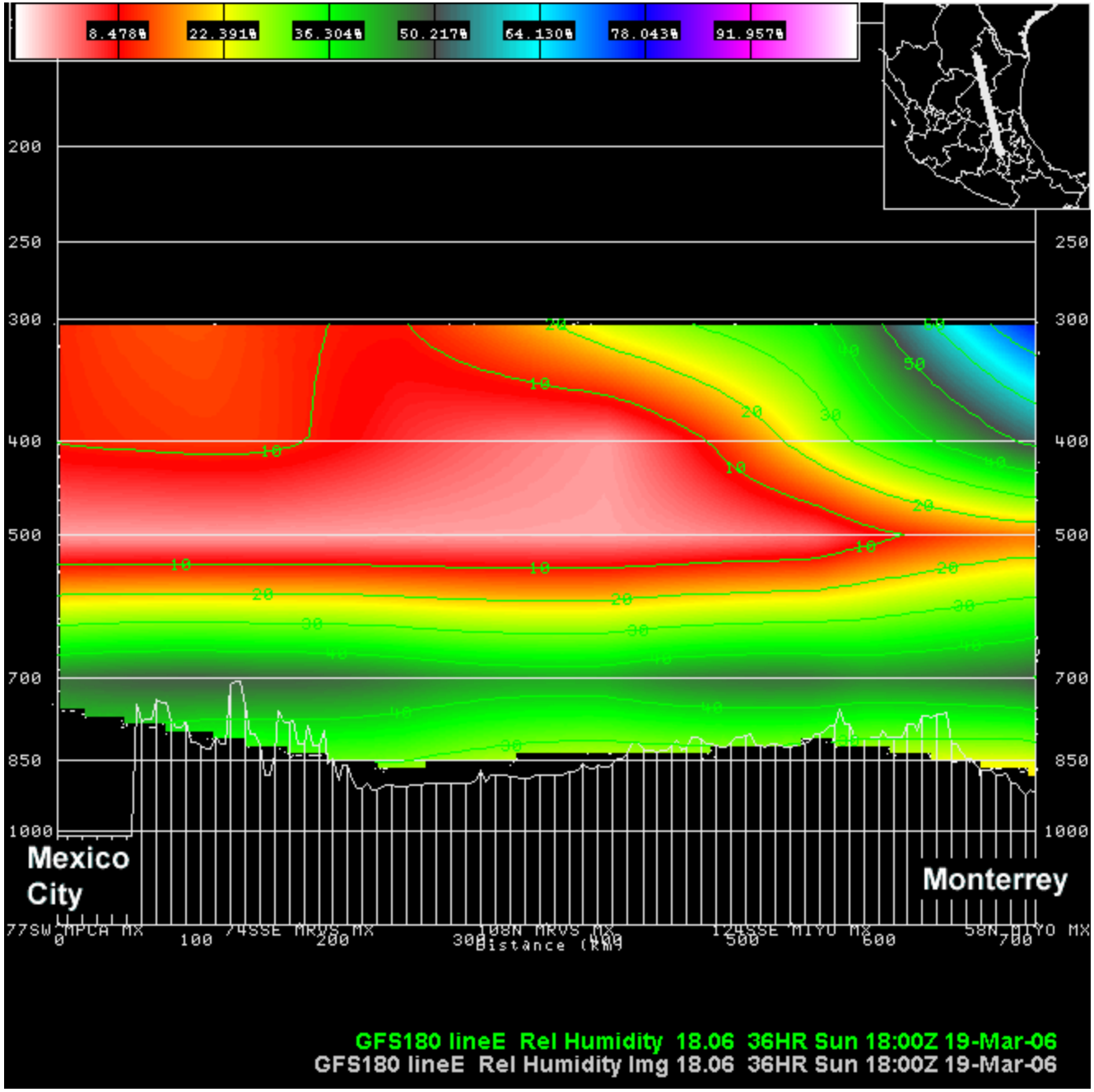
700
850
1000
Northern Point
Mexico City
24.0N 97.0W
0
100
200
300
400
500
Distance (KM)
GFS180 lineD Rel Humidity 18.06 36HR Sun 18:00Z 19-Mar-06
GFS180 lineD Rel Humidity Img 18.06 36HR Sun 18:00Z 19-Mar-06

Sun. Leg 5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64.130%
78.043%
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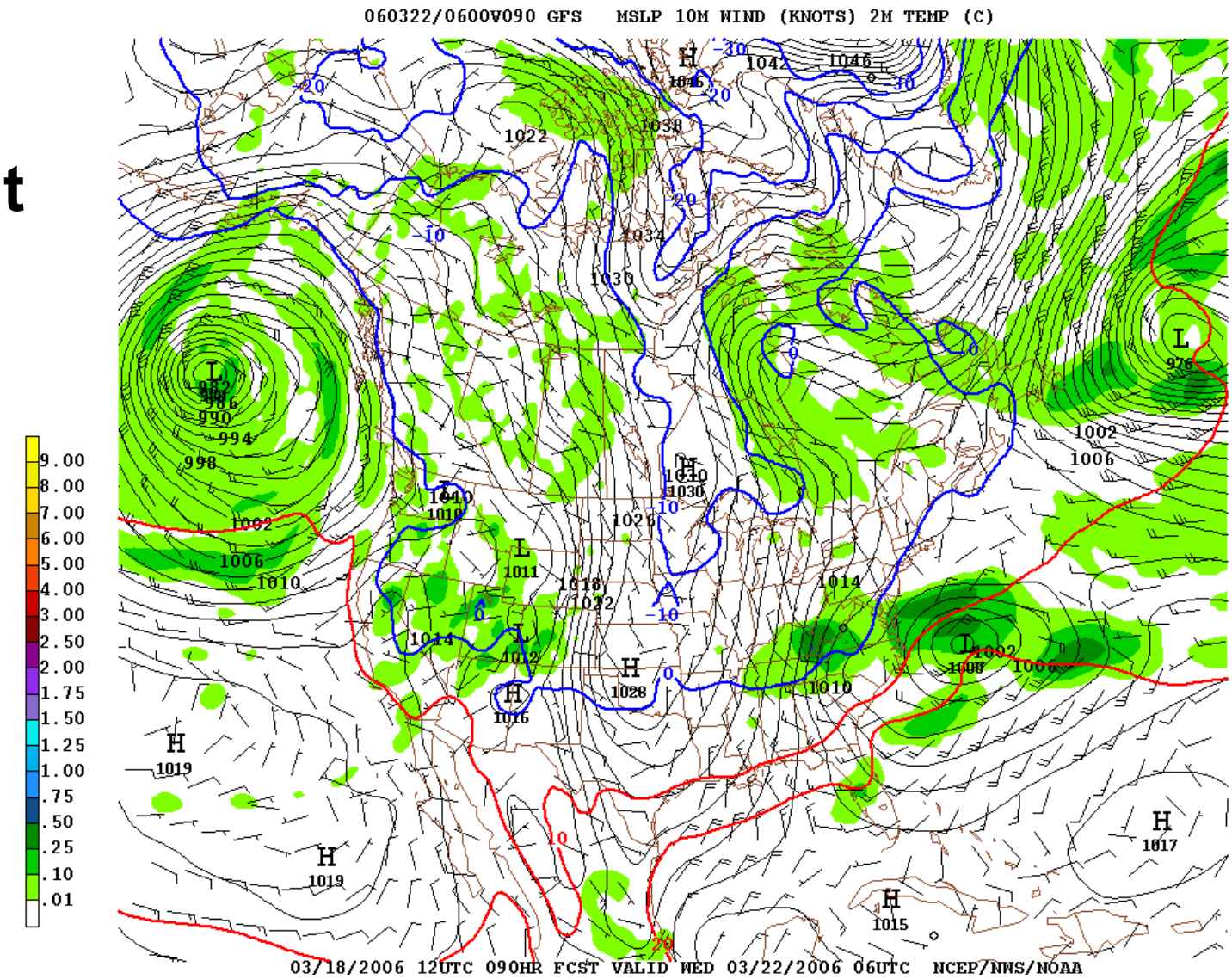
1000
Mexico City
Monterrey
Distance (km)
GFS180 lineE Rel Humidity 18.06 36HR Sun 18:00Z 19-Mar-06
GFS180 lineE Rel Humidity Img 18.06 36HR Sun 18:00Z 19-Mar-06

Extended Tuesday Forecast

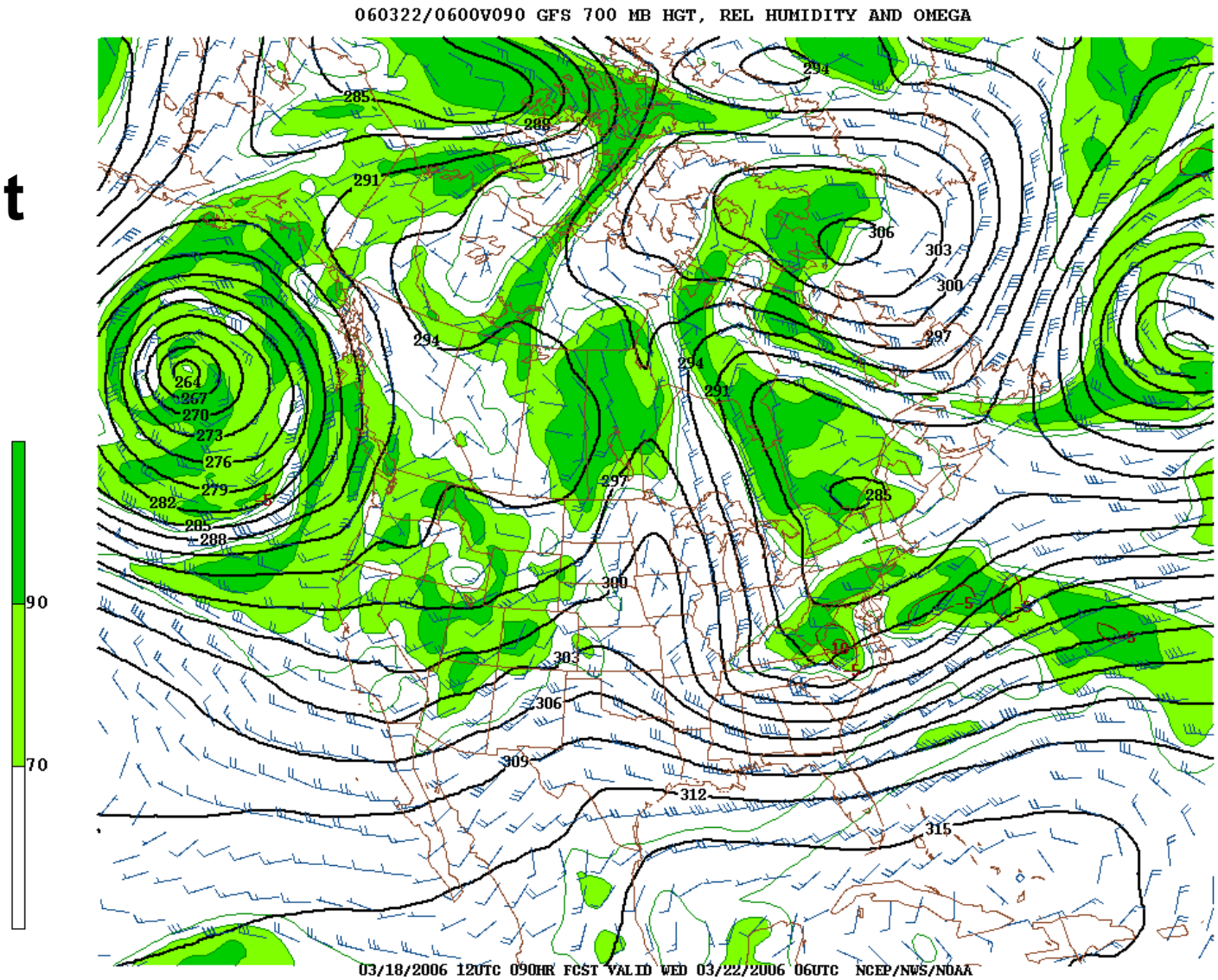
21 March 2006

(Night Transit Flight)

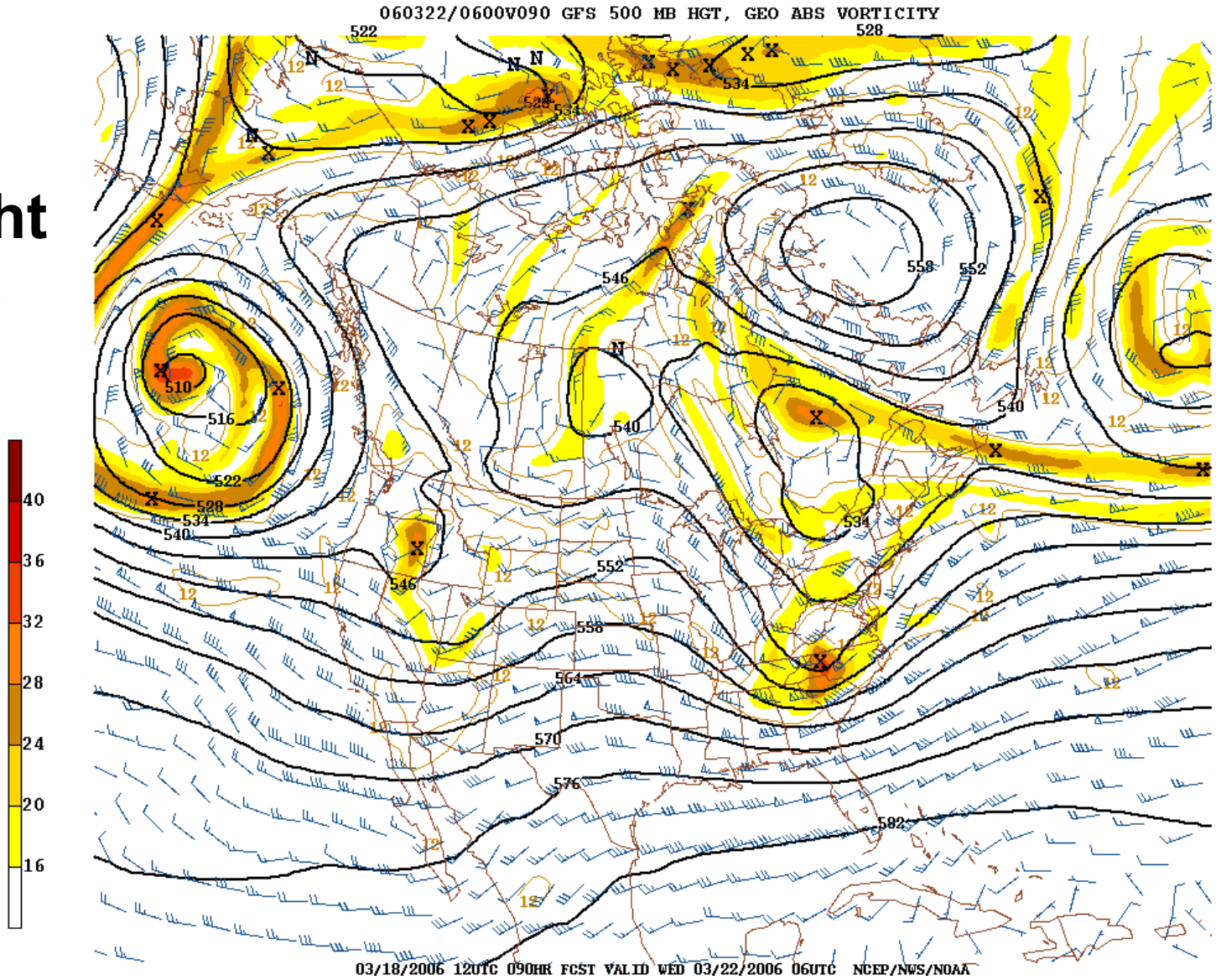
Tues. Midnight Surface



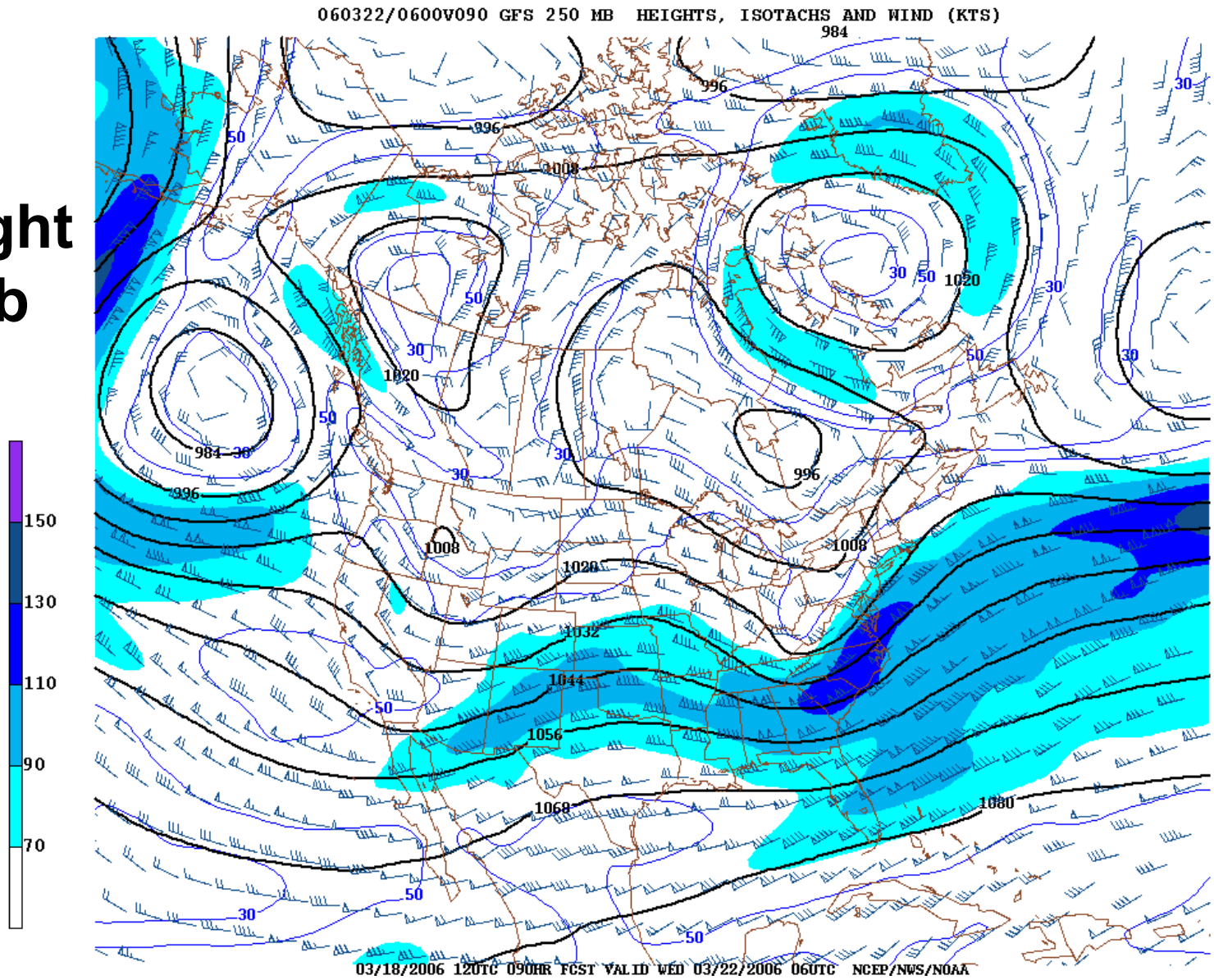
Tues. Midnight 700 mb



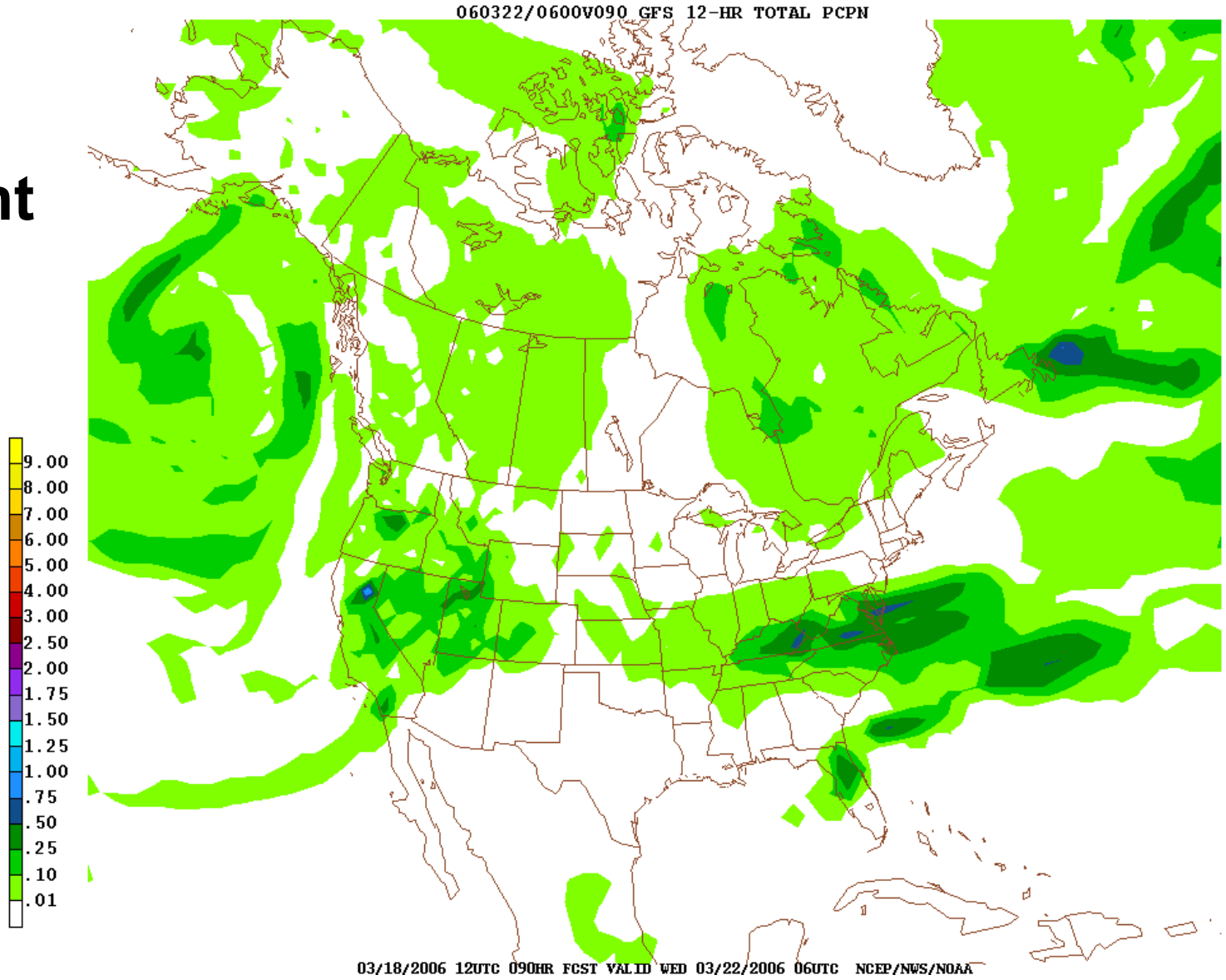
Tues. Midnight 500 mb



Tues. Midnight 250 mb

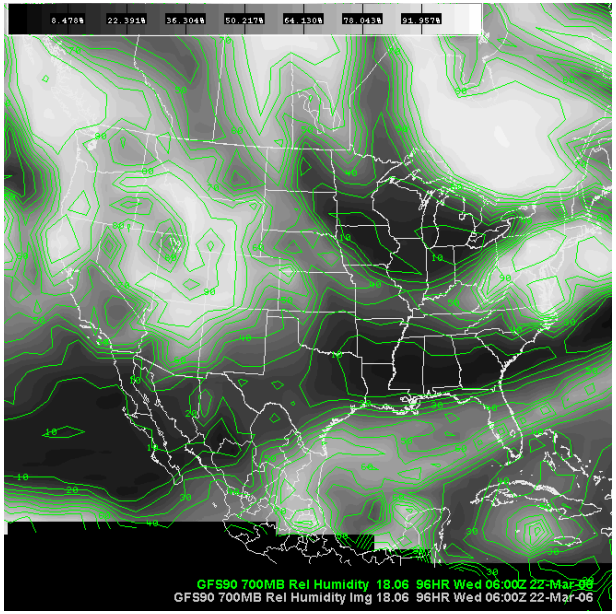


Tues. Midnight Precip.



GFS Rel. Hum.

700 mb



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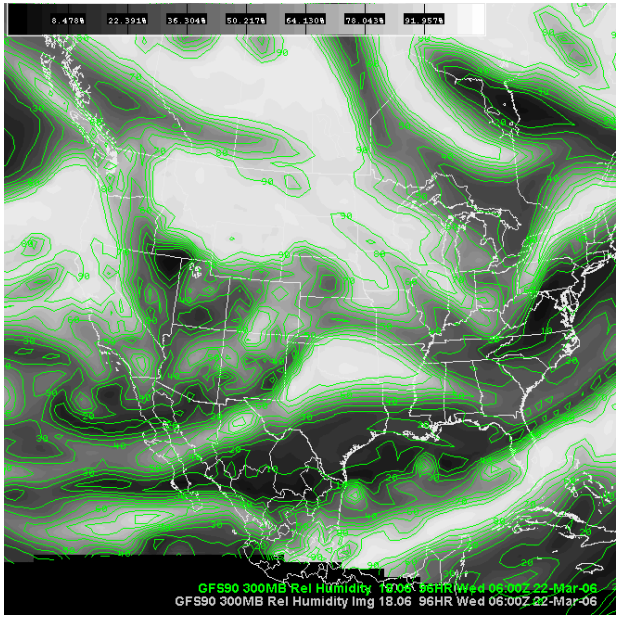

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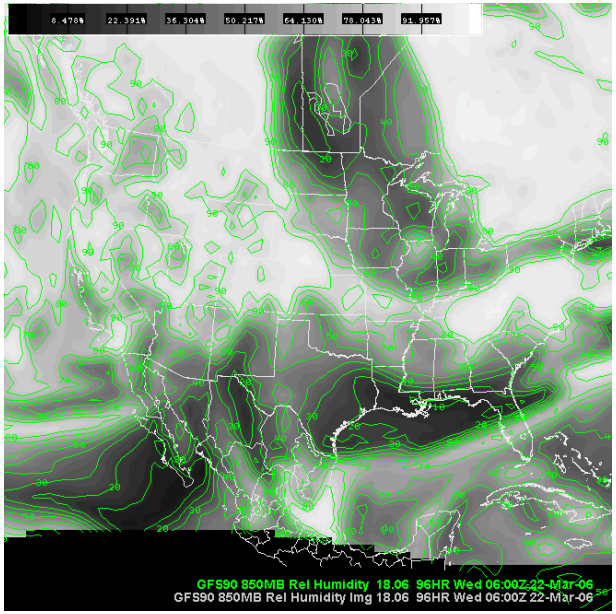

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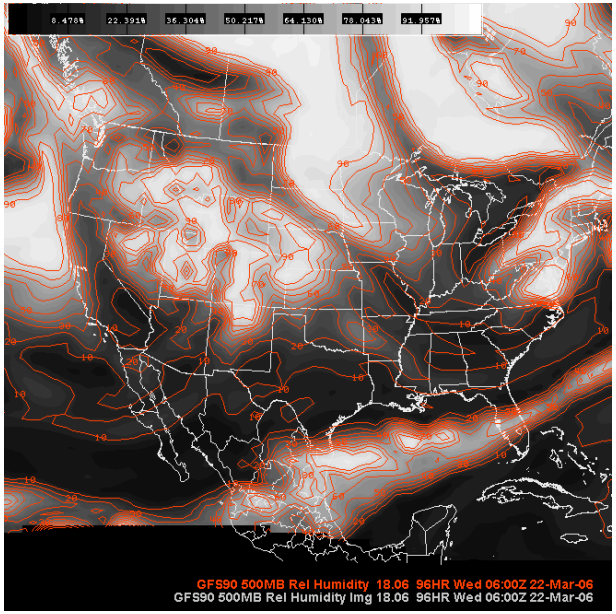
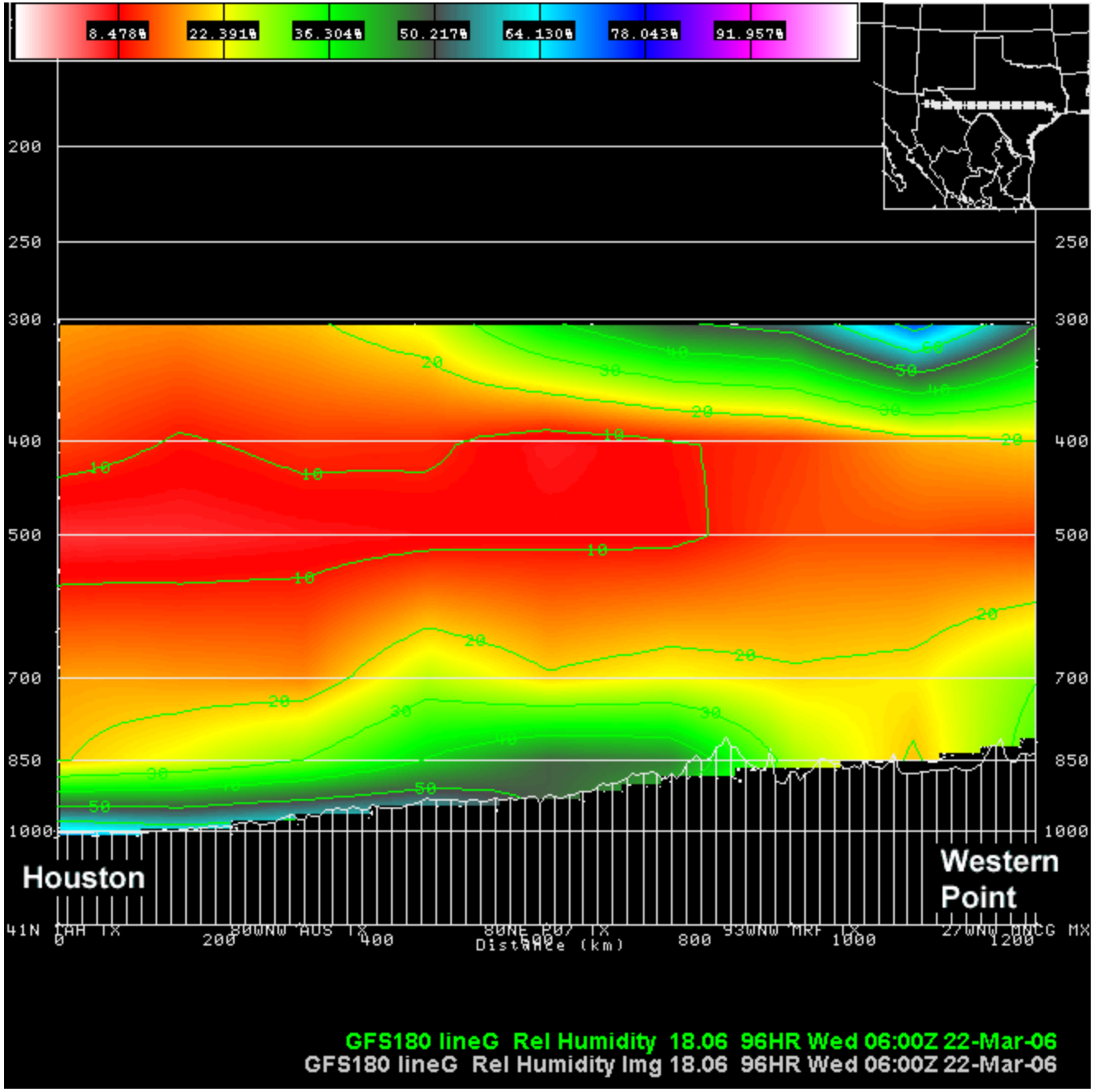
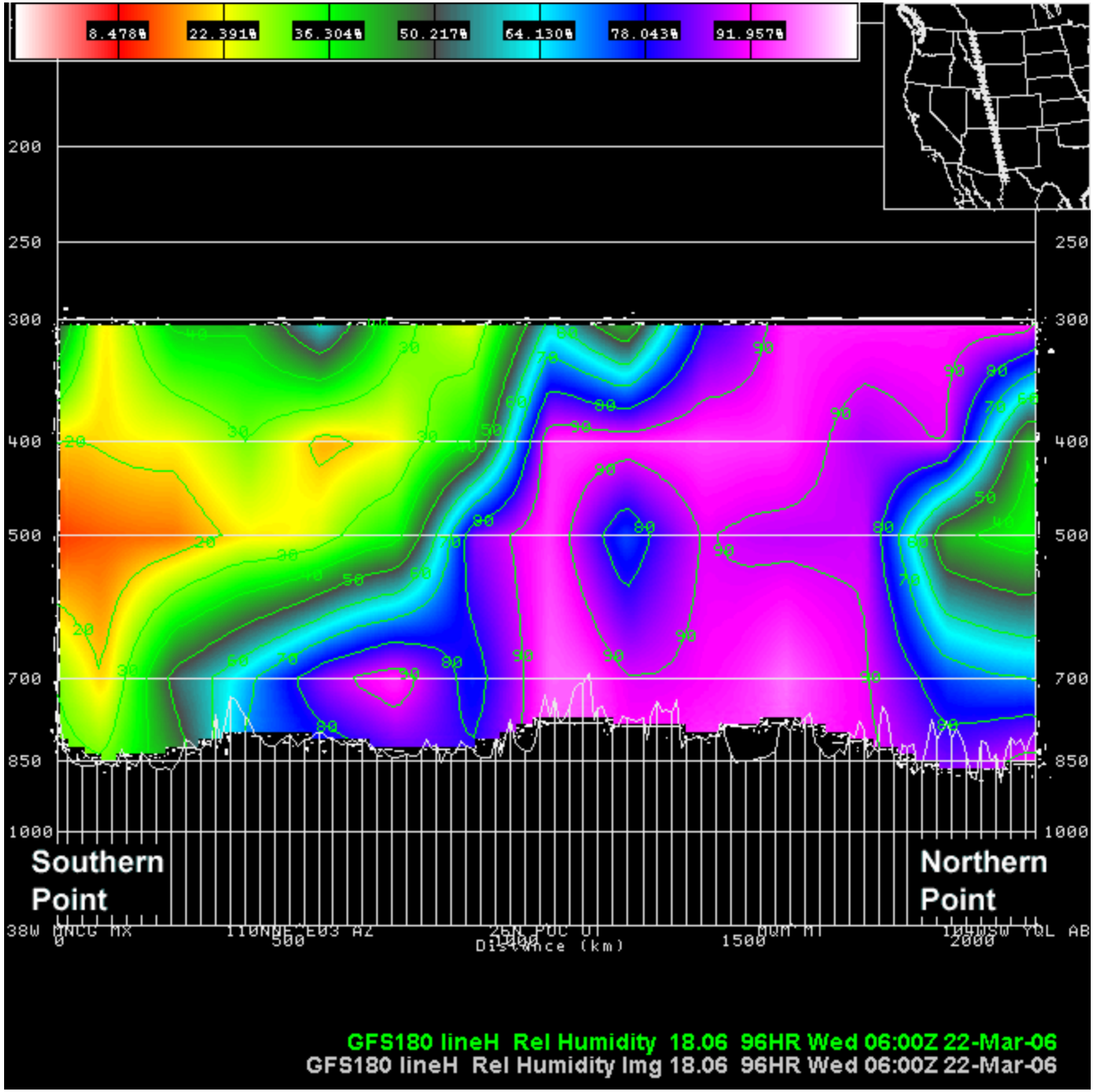


Tues. Leg 1



8.478%
22.391%
36.304%
50.217%
64.130%
78.043%
91.957%
200
250
300
400
500
700
850
1000
Houston
Western Point
41N IAH TX
80WNW AUS TX
80NE P07 TX
93WNW MRF TX
27WNW MNCG MX
0
200
400
600
800
1000
1200
Distance (km)
GFS180 lineG Rel Humidity 18.06 96HR Wed 06:00Z 22-Mar-06
GFS180 lineG Rel Humidity Img 18.06 96HR Wed 06:00Z 22-Mar-06

Tues. Leg 2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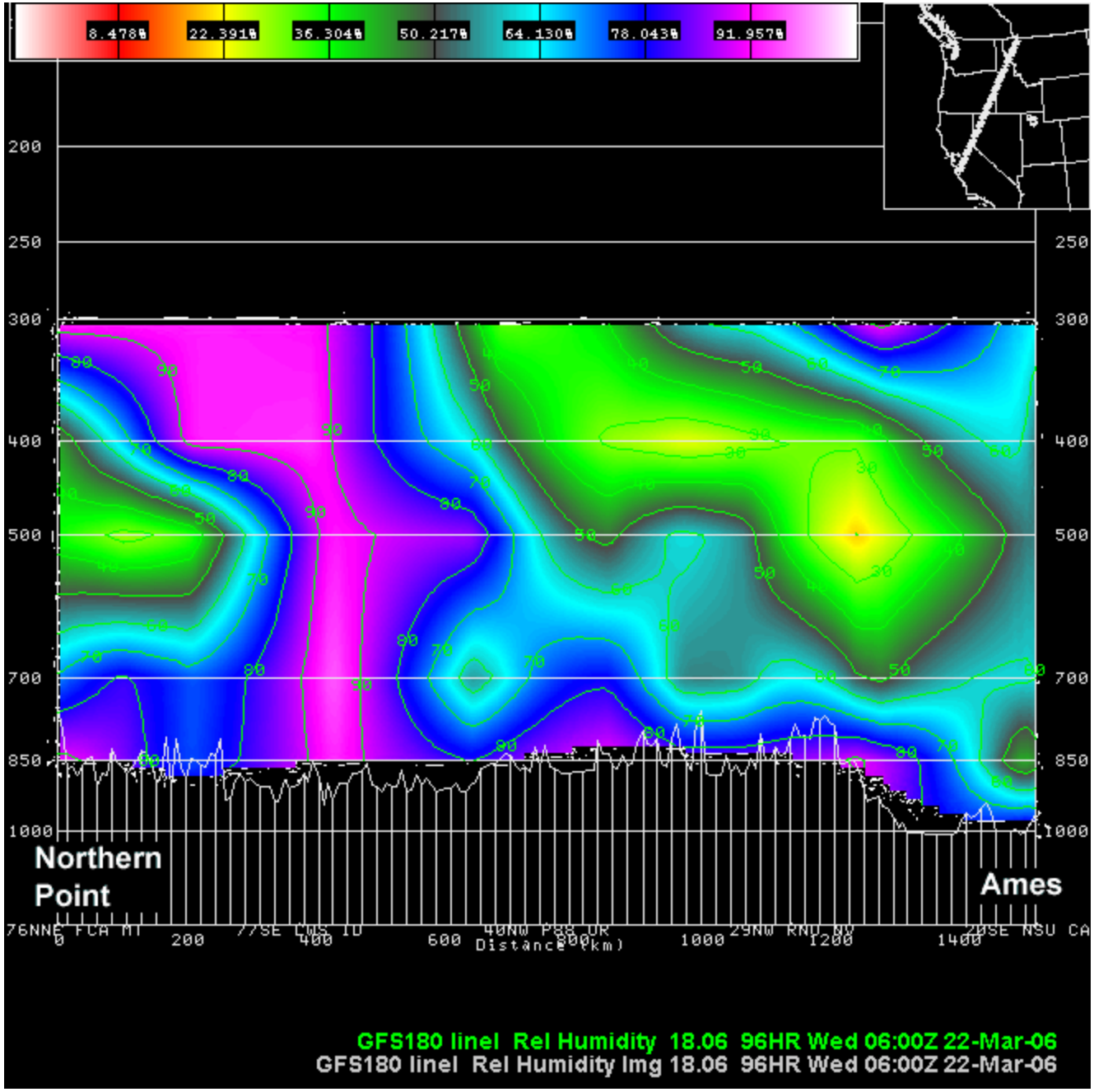
22.3910
36.3040
50.2170
64.1300
78.0430
91.9570
200
250
300
400
500
700
850
1000
Southern Point
Northern Point
0
500
1000
1500
2000
Distance (km)
GFS180 lineH Rel Humidity 18.06 96HR Wed 06:00Z 22-Mar-06
GFS180 lineH Rel Humidity Img 18.06 96HR Wed 06:00Z 22-Mar-06

Tues. Leg 3


8.478%
22.391%
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50.217%
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78.043%
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700
850
1000
Northern Point
Ames
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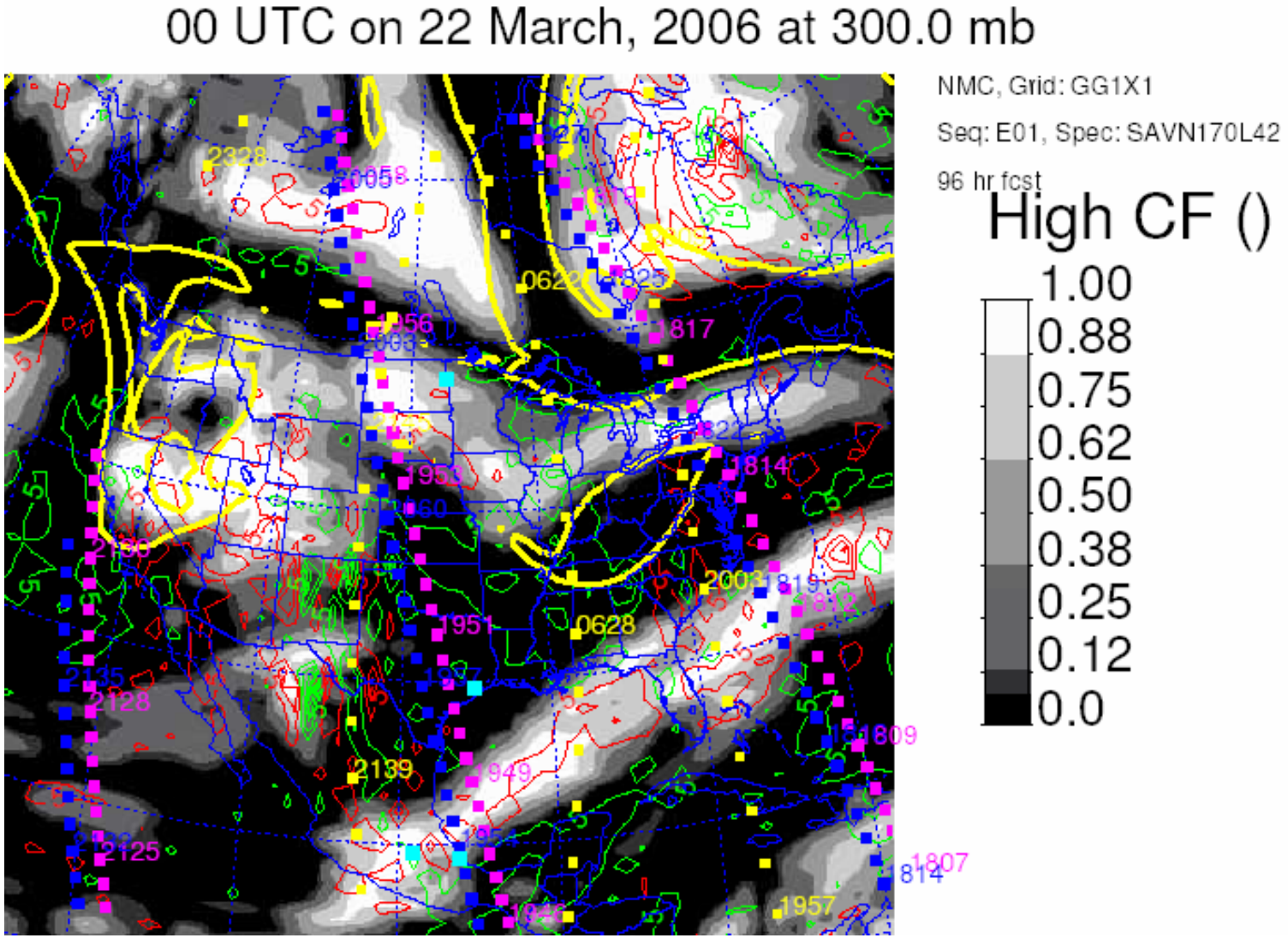
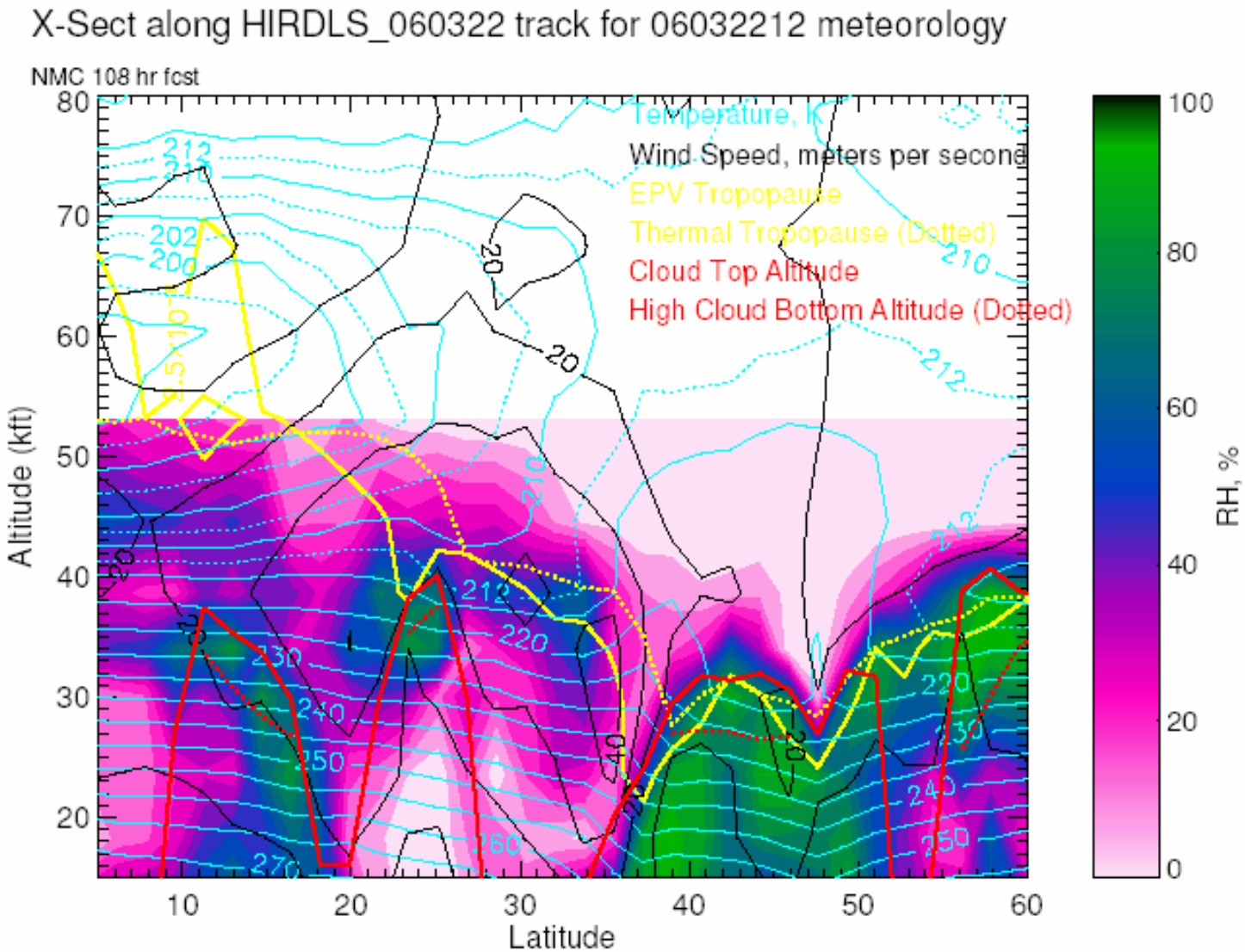
200
400
600
800
1000
1200
1400
Distance (km)
GFS180 linel Rel Humidity 18.06 96HR Wed 06:00Z 22-Mar-06
GFS180 linel Rel Humidity Img 18.06 96HR Wed 06:00Z 22-Mar-06

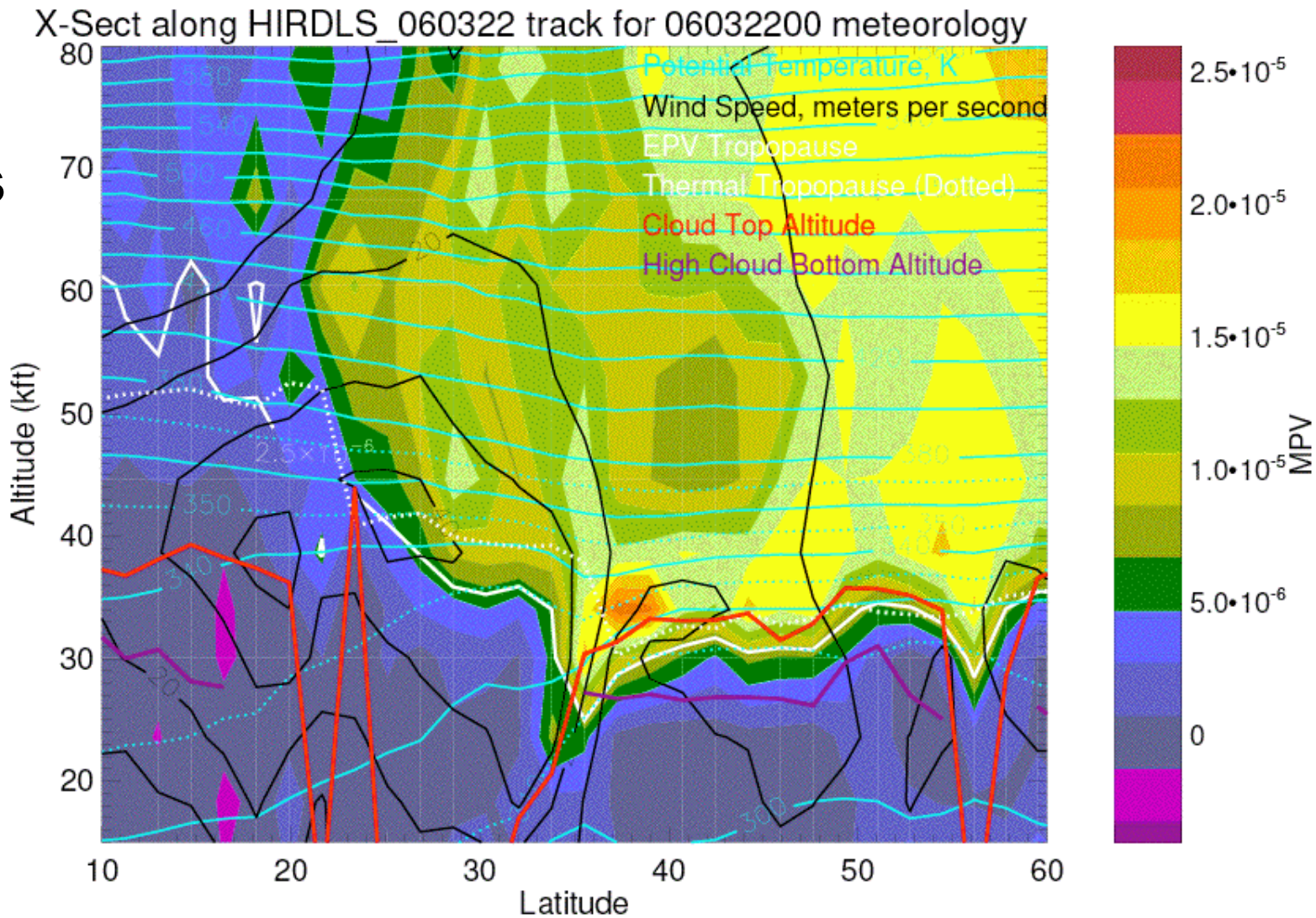
Tues.
Ames
High
Clouds



Tues. Ames Relative Humidity Cross-Section



Tues. Ames PV


X-Sect along HIRDLS_060322 track for 06032200 meteorology
Potential Temperature, K
Wind Speed, meters per second
EPV Tropopause
Thermal Tropopause (Dotted)
Cloud Top Altitude
High Cloud Bottom Altitude
Altitude (kft)
Latitude
MPV
2.5•10^-5
2.0•10^-5
1.5•10^-5
1.0•10^-5
5.0•10^-6
0