# Current Conditions

17 March 2006

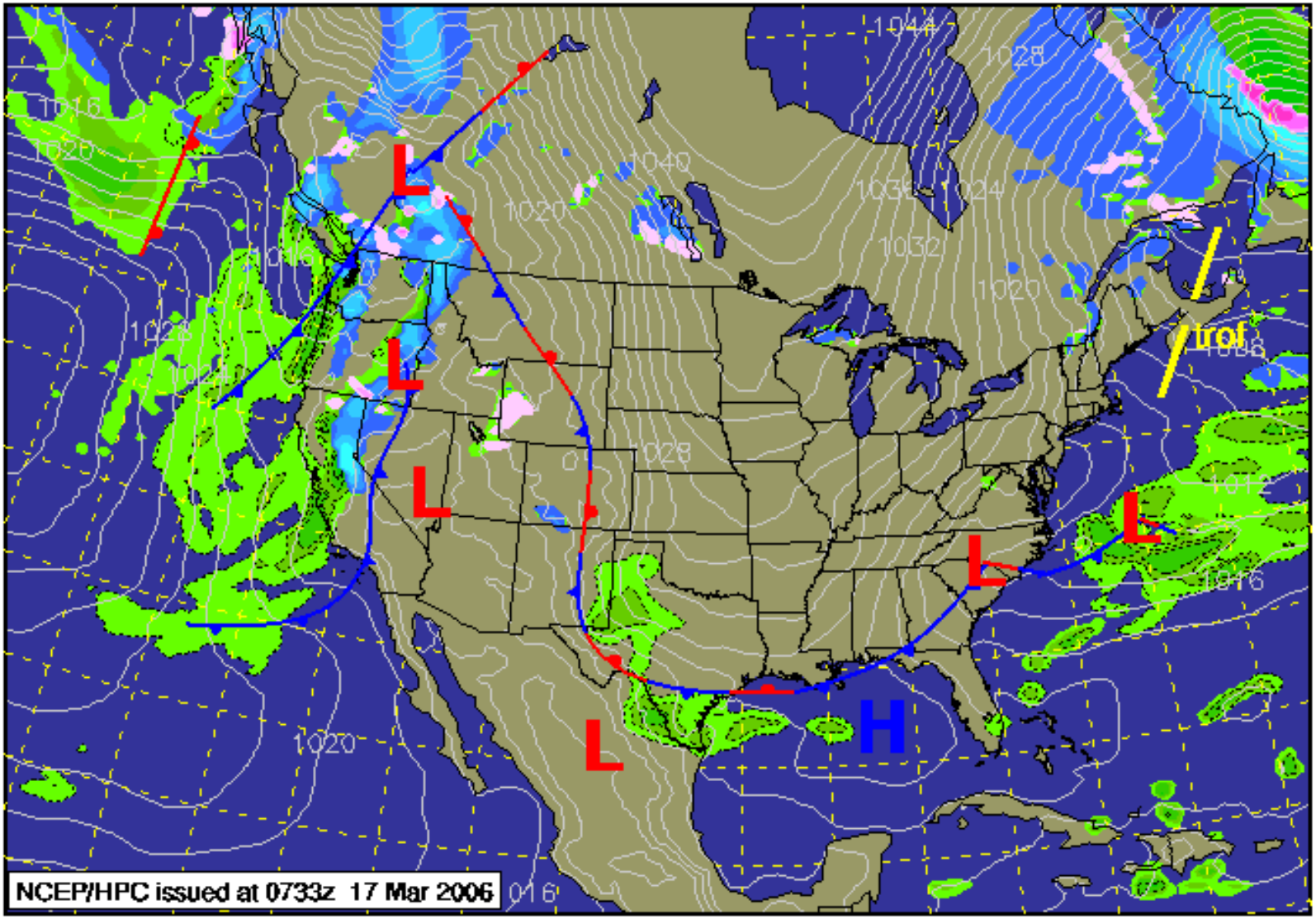
**Happy St. Patrick's Day**

Henry Fuelberg

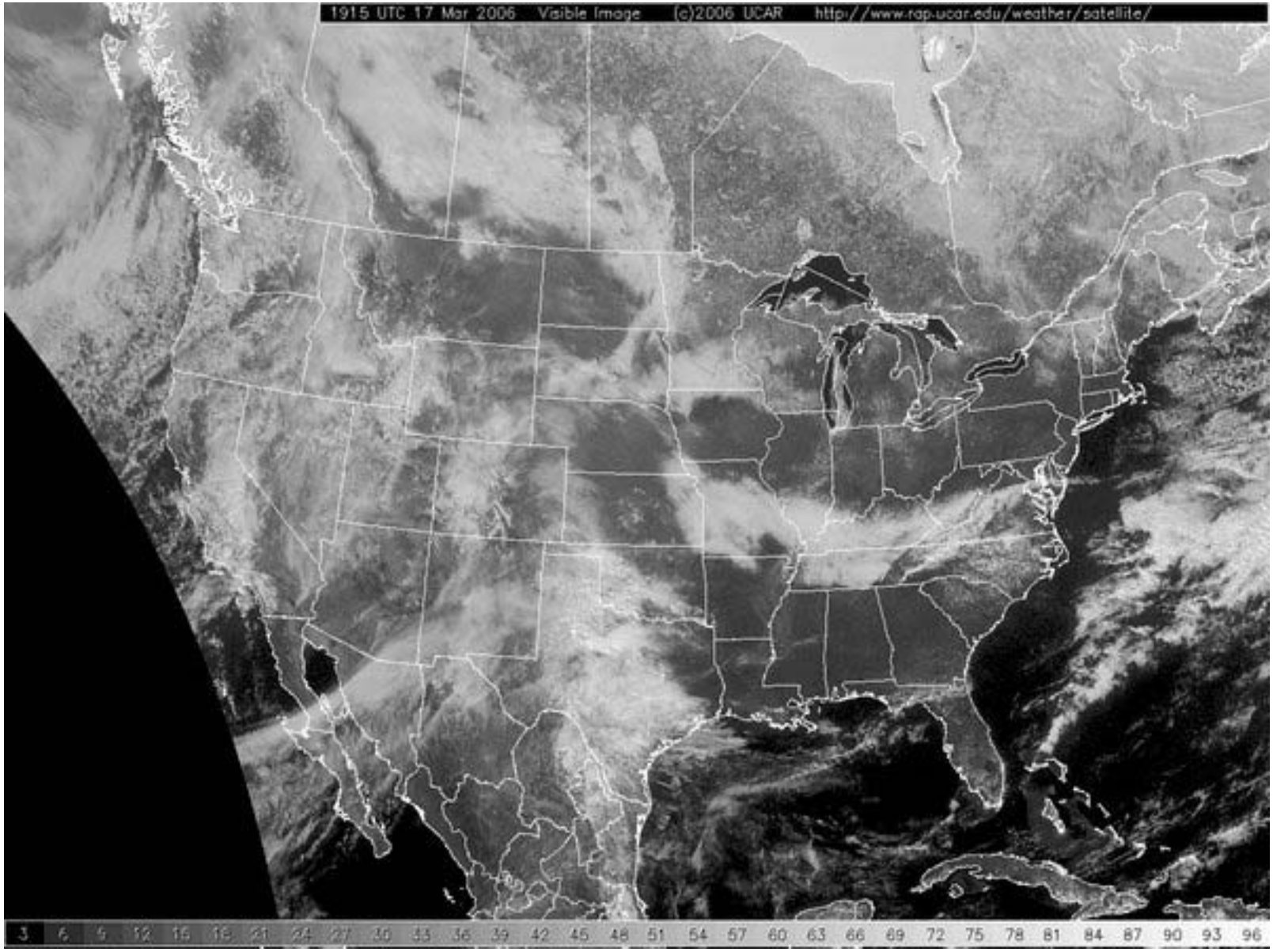
Geoffrey Stano

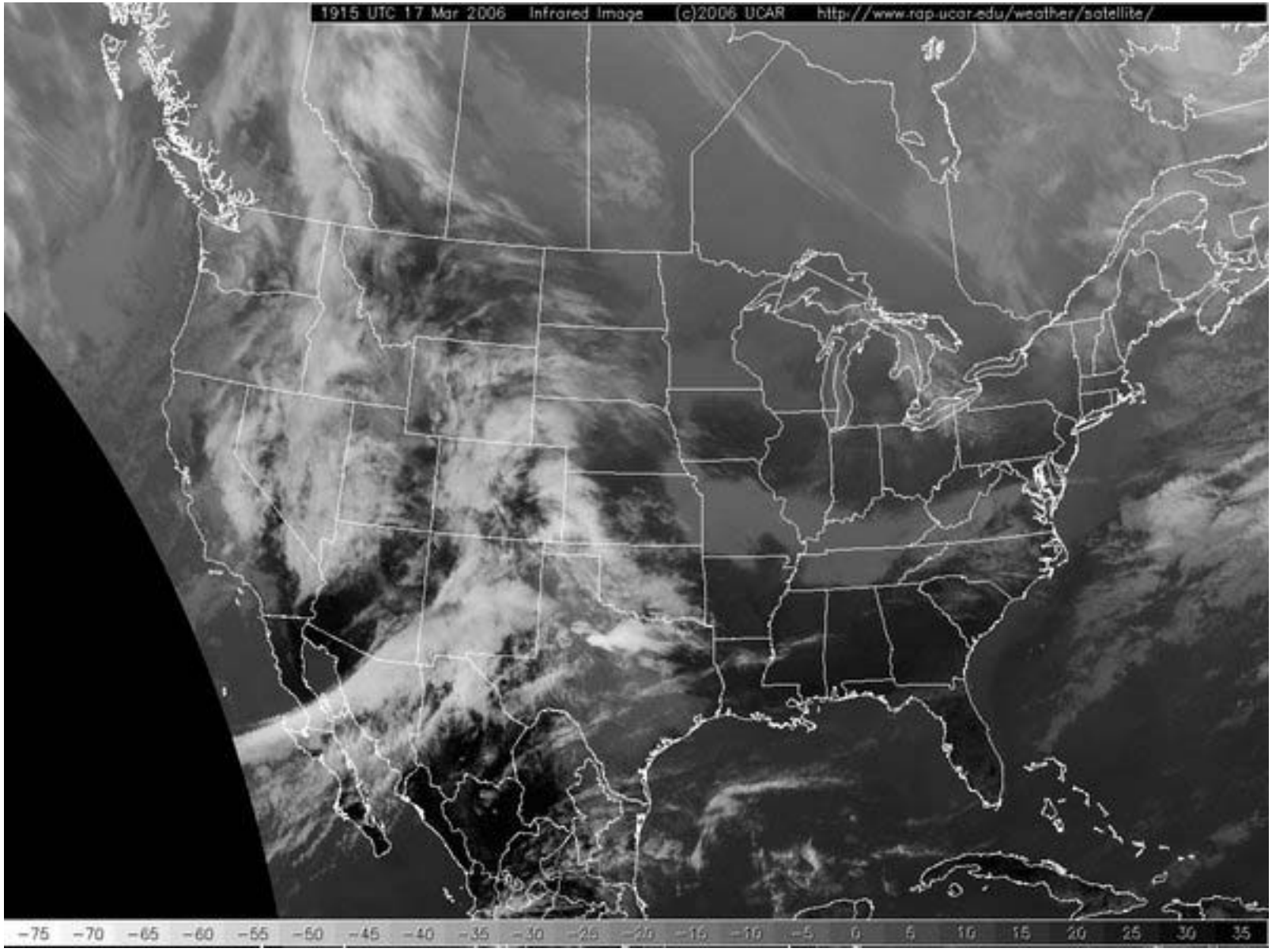
"Your Eyes to the Skies"

# 12 hr forecast valid 1800 UTC Fri 17 Mar 2006




Rain Snow Wintry mix


1915 UTC 17 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


1915 UTC 17 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

# Houston Forecast

**Today**

Slight Chc Tstms
Hi 73°F

**Tonight**

Chance Tstms
Lo 60°F

**Saturday**

Chance Tstms
Hi 73°F

**Saturday Night**

Chance Tstms
Lo 69°F

**Sunday**

Chance Tstms
Hi 77°F

**Sunday Night**

Tstms Likely
Lo 67°F

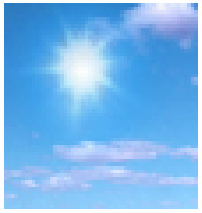
**Monday**

Tstms Likely
Hi 81°F

**Monday Night**

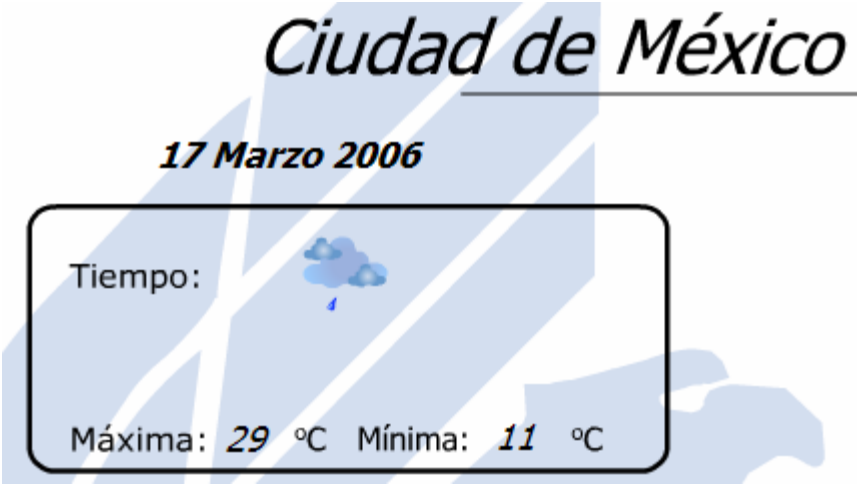
Mostly Clear
Lo 44°F

**Tuesday**

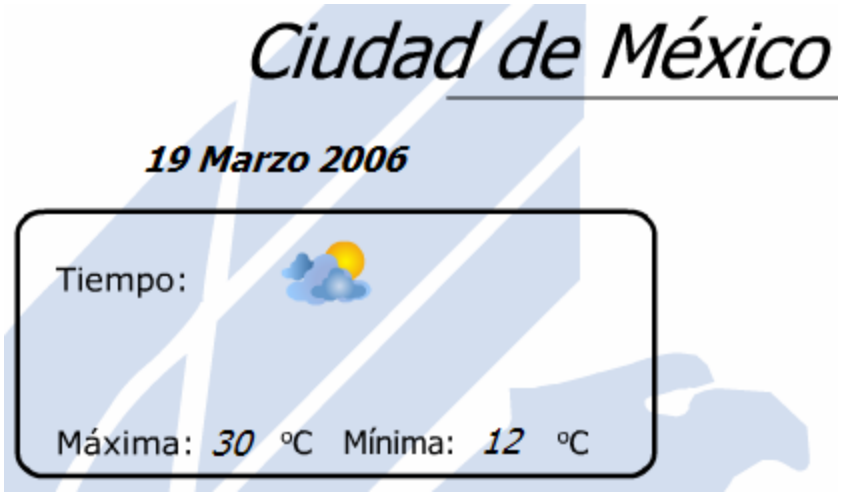


Mostly Sunny
Hi 67°F

# Mexico City Forecast




Friday

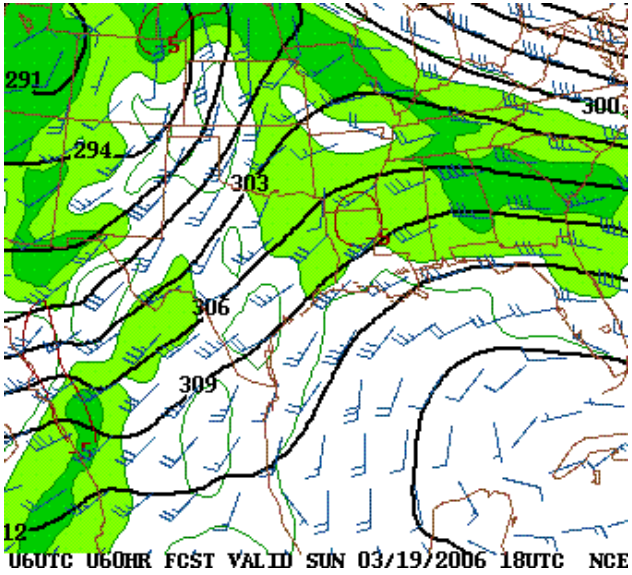



Sunday

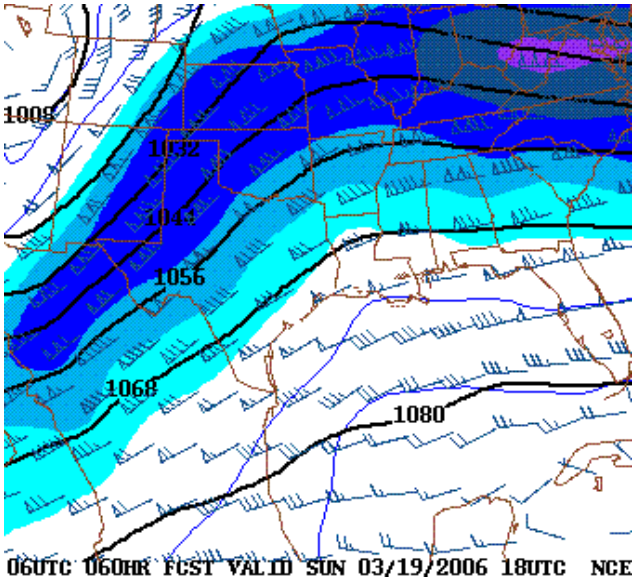
# Sunday Forecast

19 March 2006

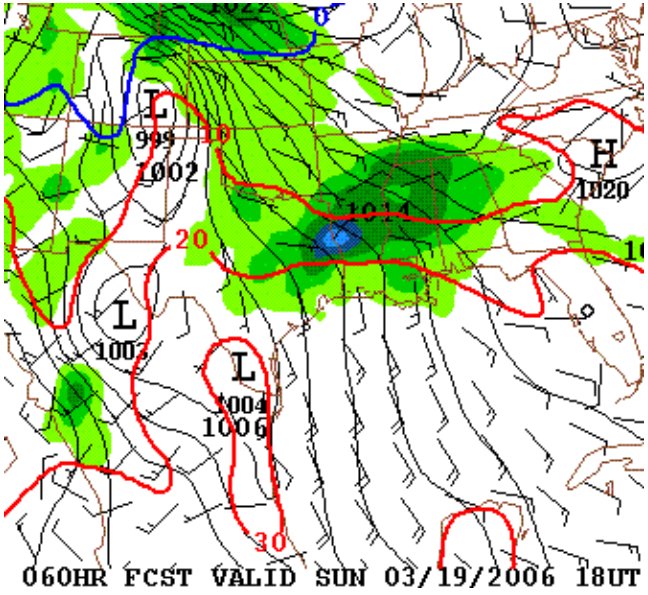
## 700 mb



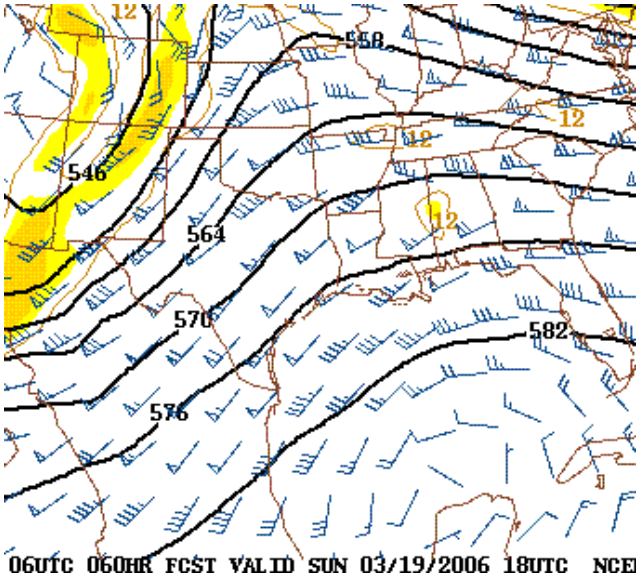

## 250 mb



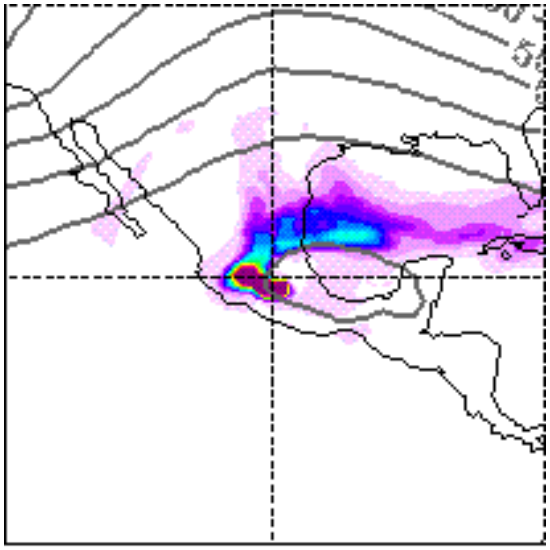

## Surface



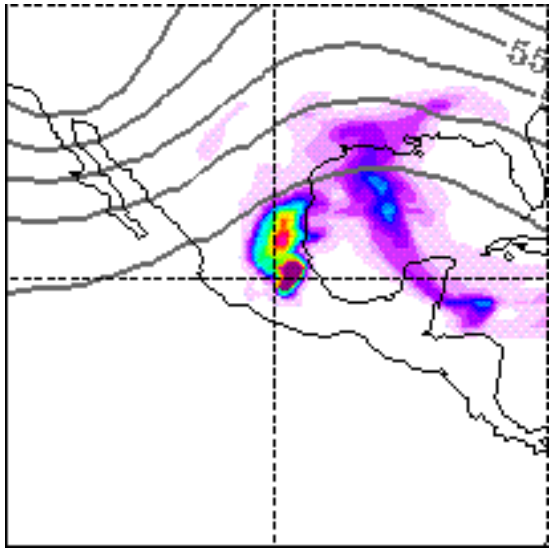

## 500 mb



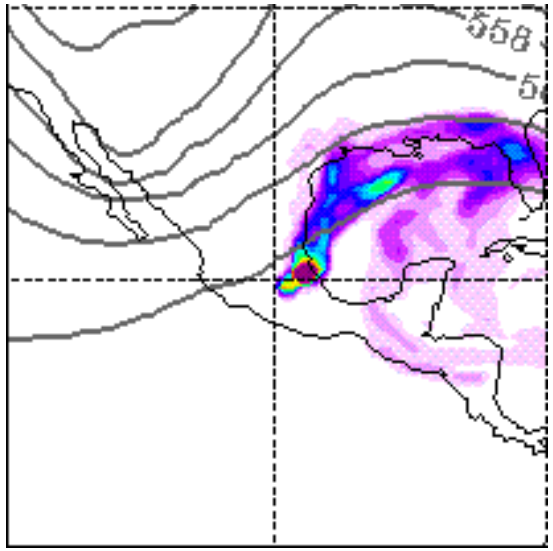
# Weekend Flexpart Forecasts



Friday

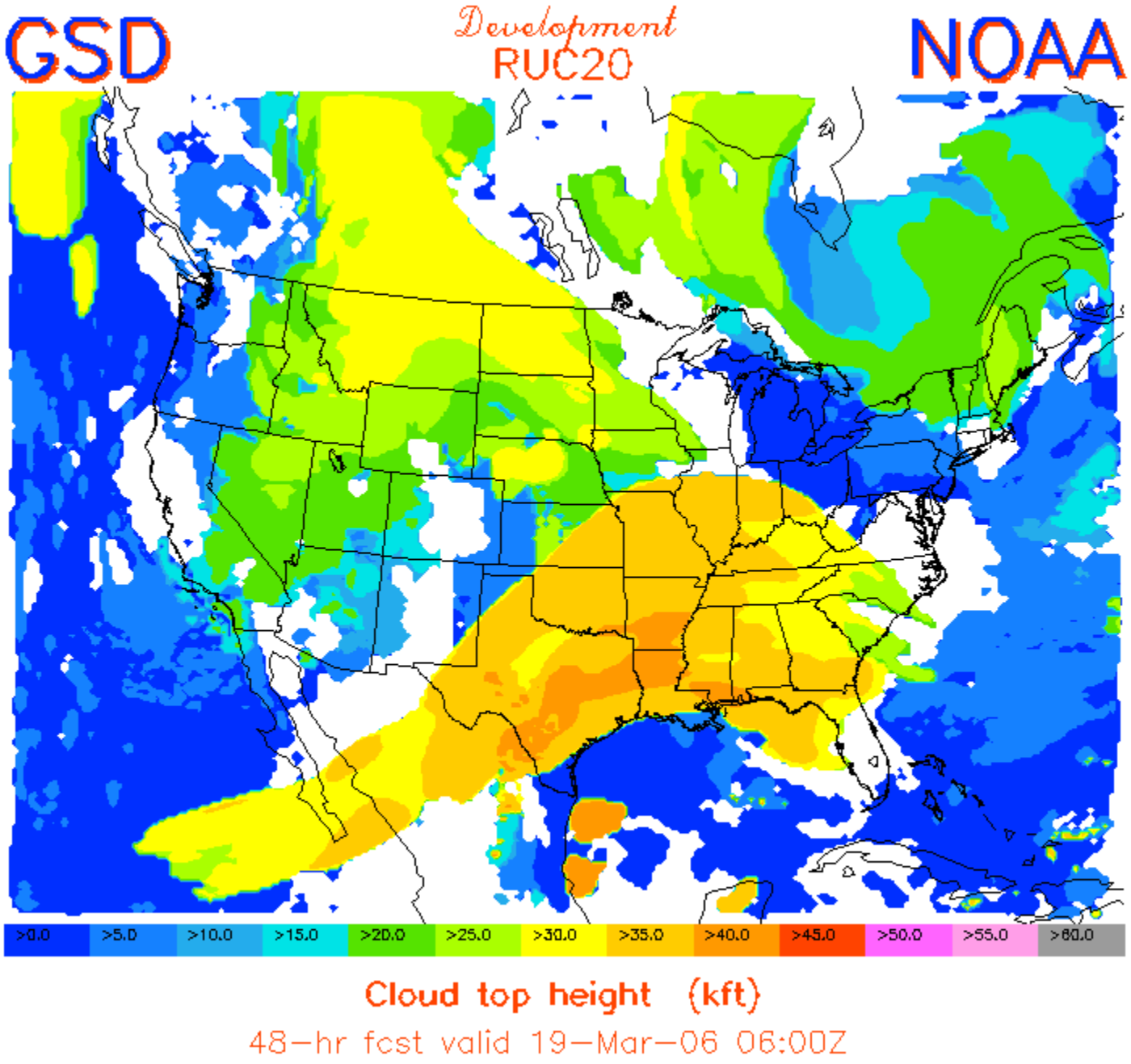


Saturday

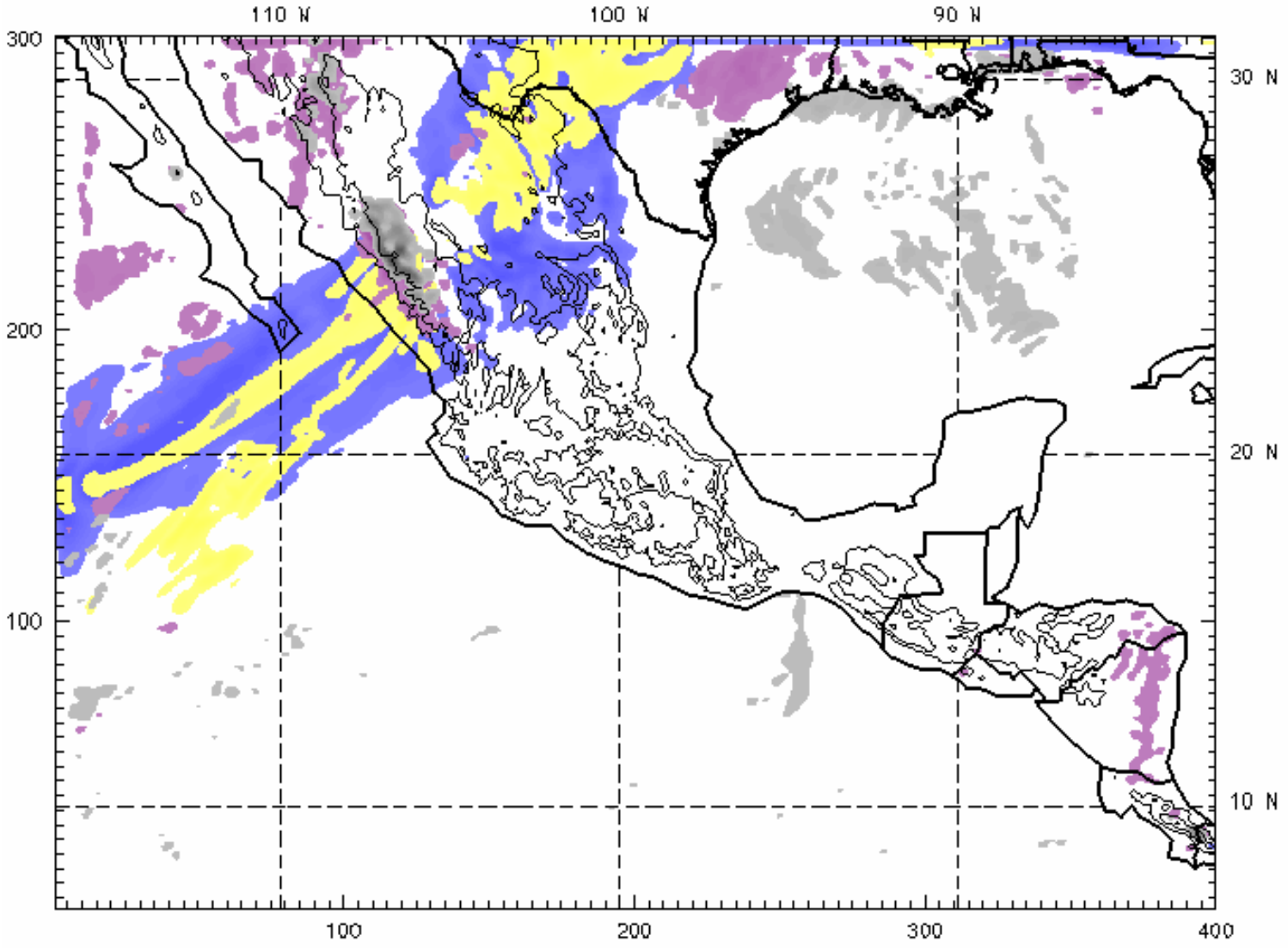


Sunday

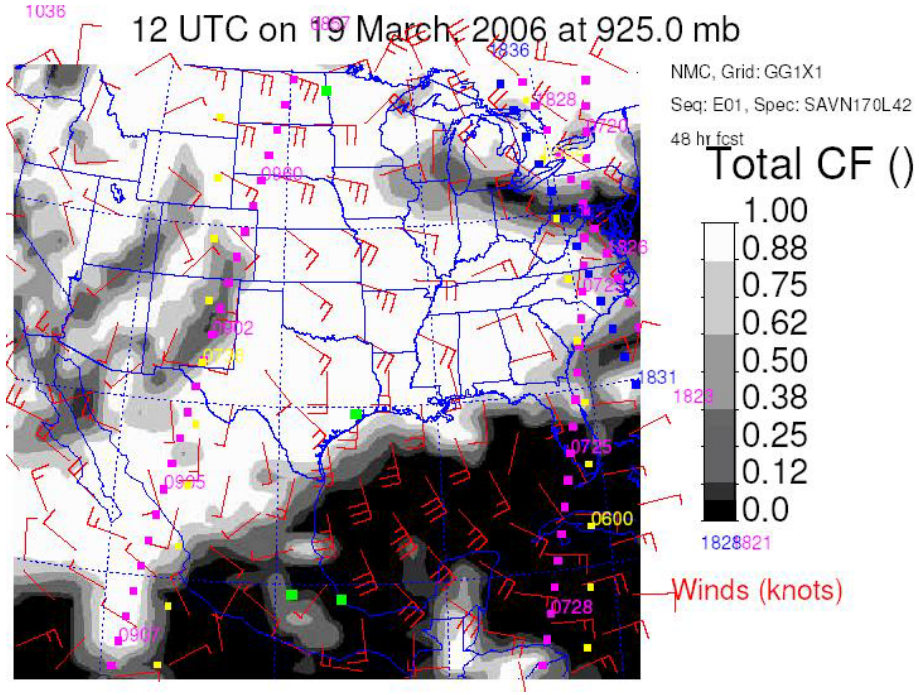
**Sun.**
**Clouds**
**RUC**

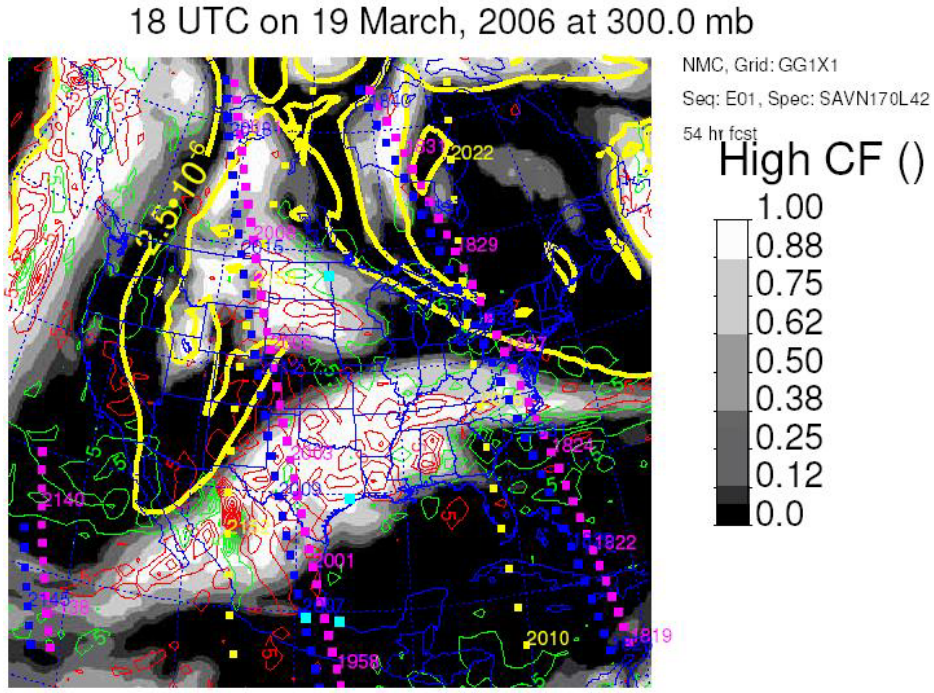


**Sun.**
**Clouds**
**WRF -**
**Mirage**



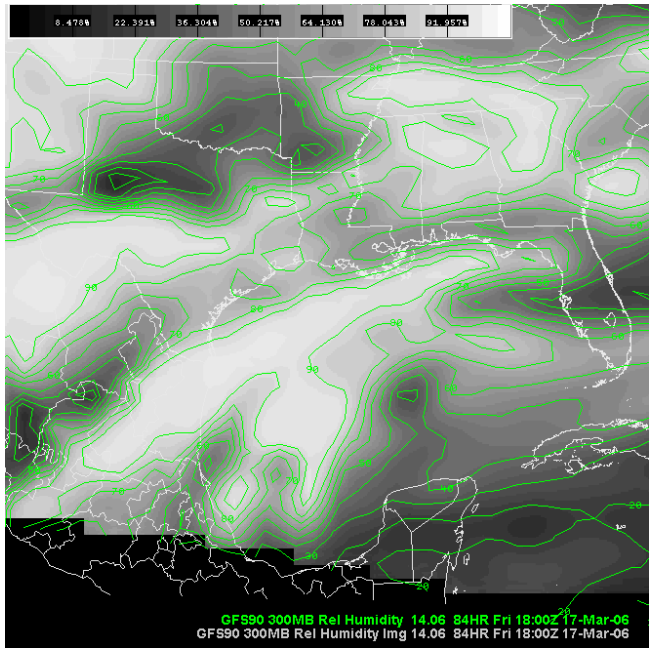
# GFS Cloud Fraction Forecasts

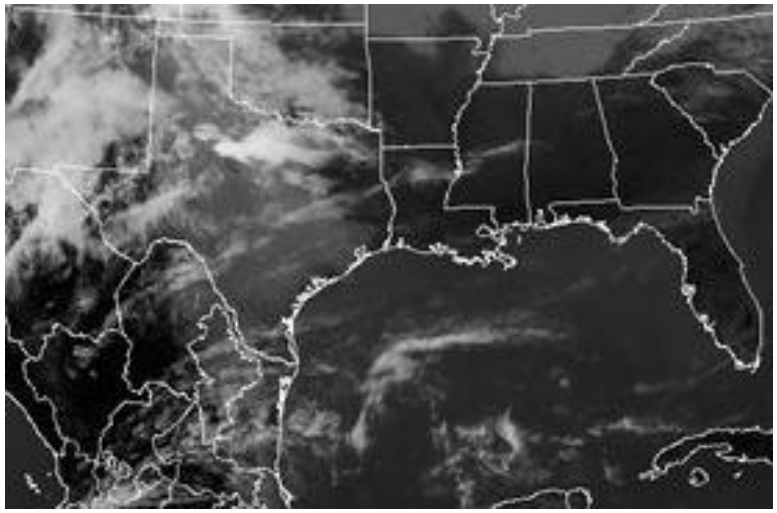


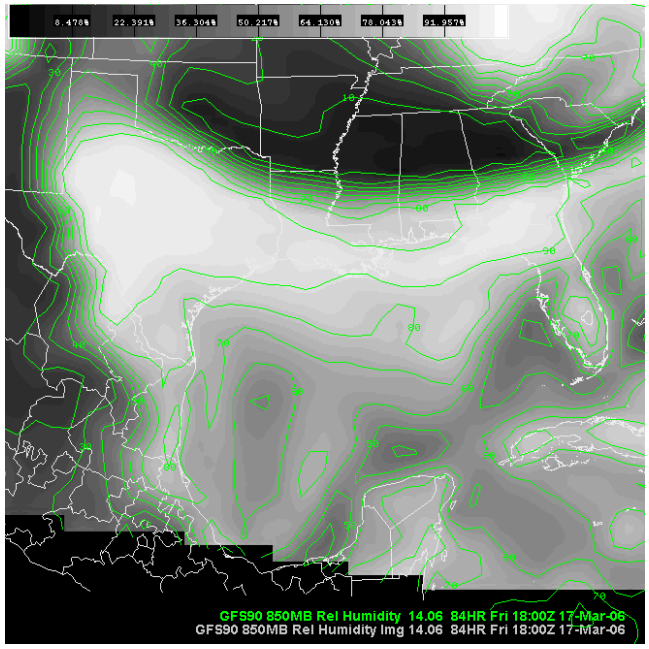
# Verification (84 hours)

**300 mb**
**Valid 18Z**
**Friday**

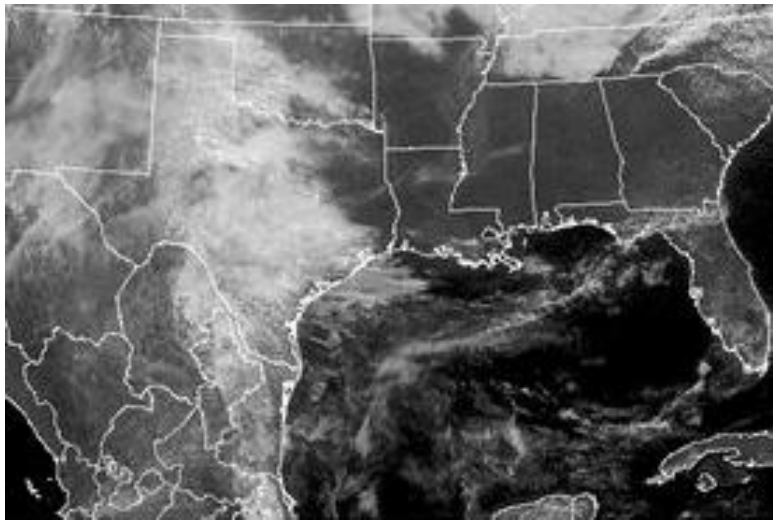


**850 mb**
**Valid 18Z**
**Friday**

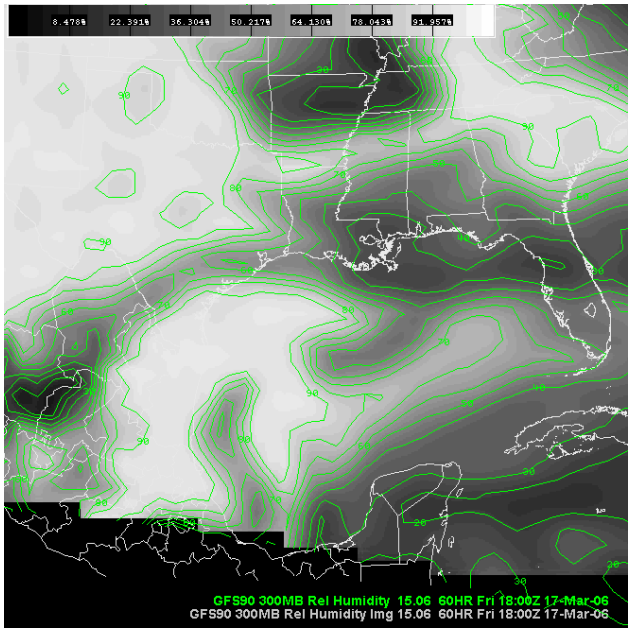


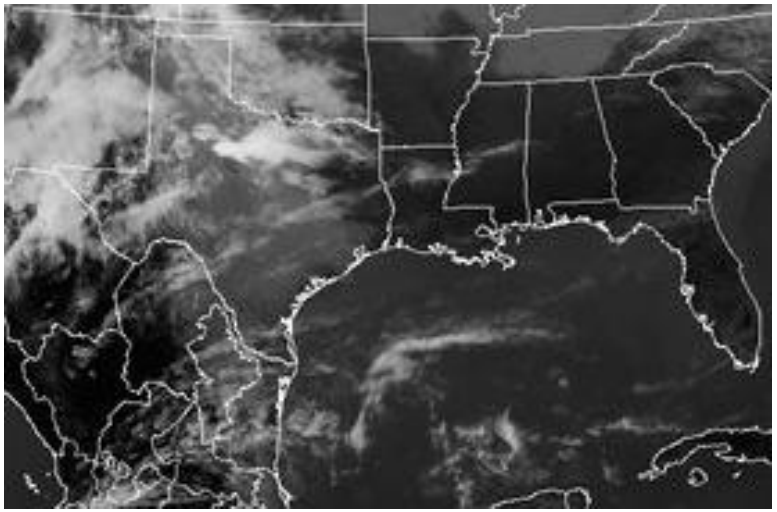

**Friday 1915Z**



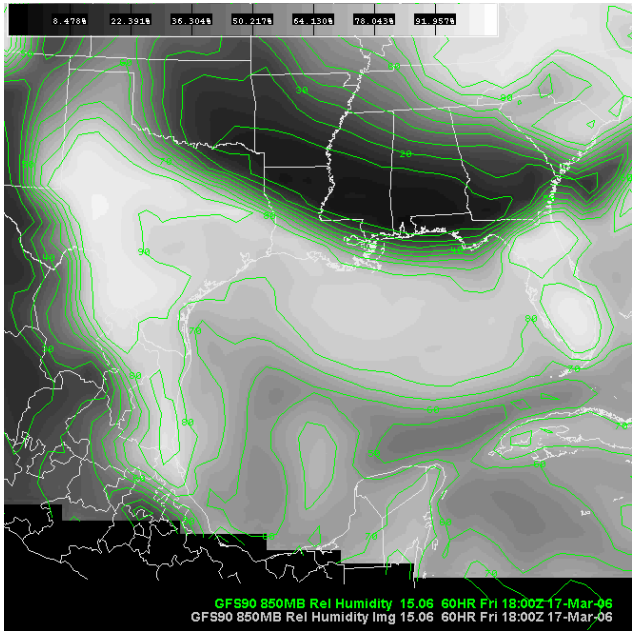
# Verification (60 hours)

**300 mb**
**Valid 18Z**
**Friday**

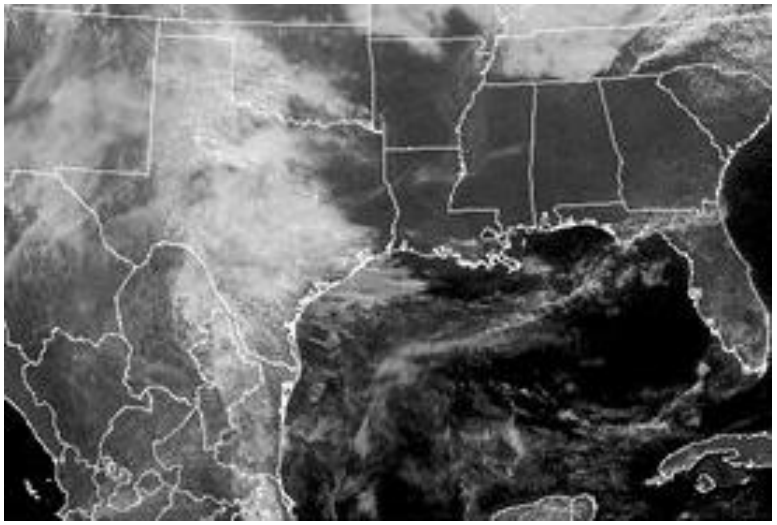


**850 mb**
**Valid 18Z**
**Friday**

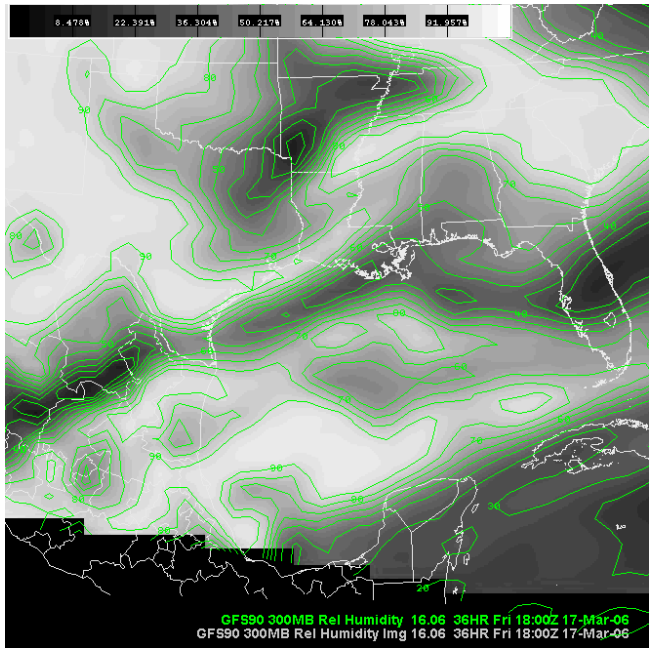


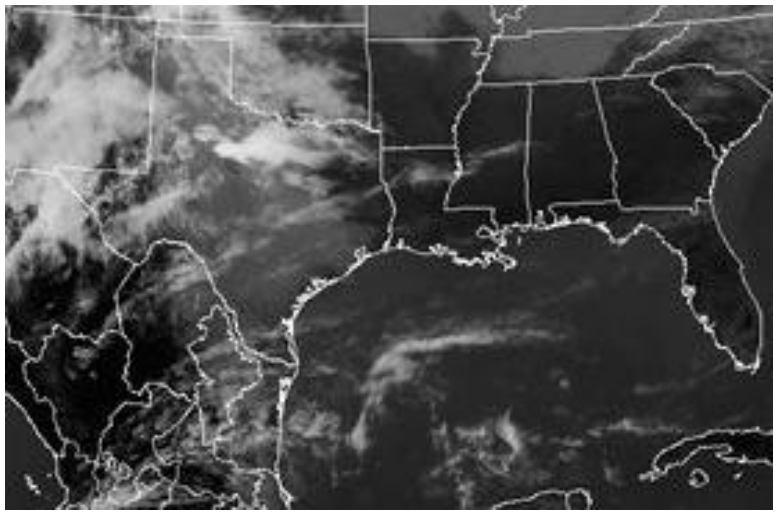

**Friday 1915Z**



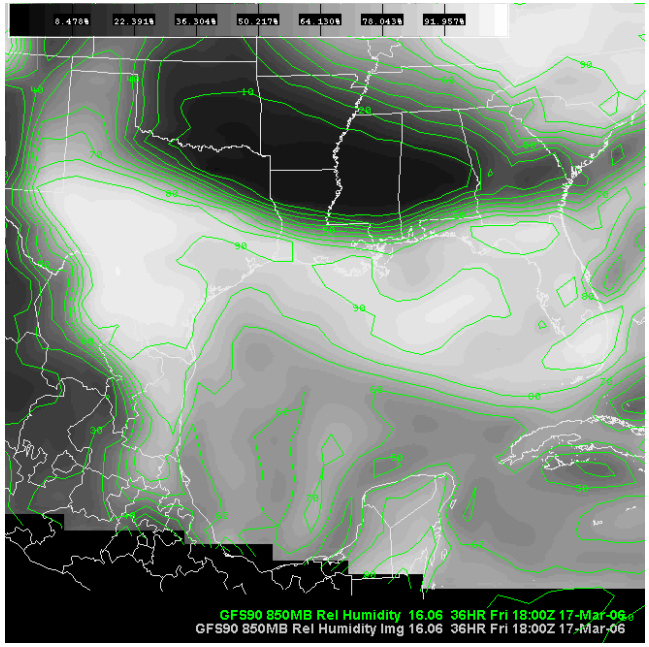
# Verification (36 hours)

**300 mb**
**Valid 18Z**
**Friday**

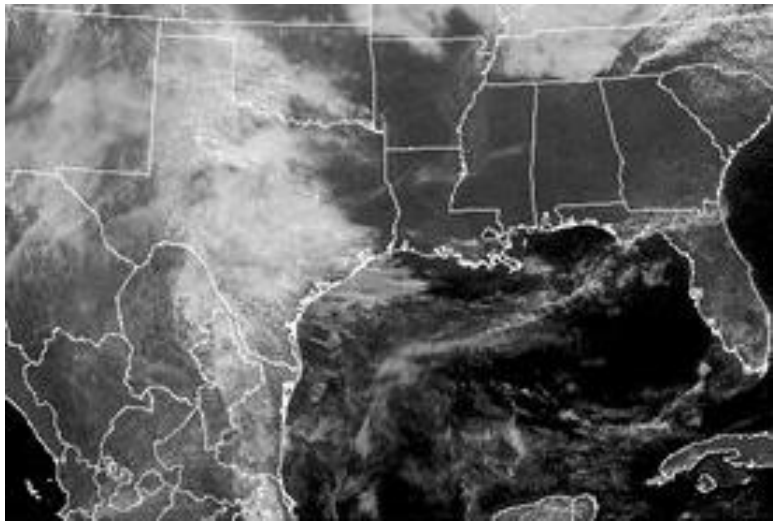


**850 mb**
**Valid 18Z**
**Friday**




**Friday 1915Z**



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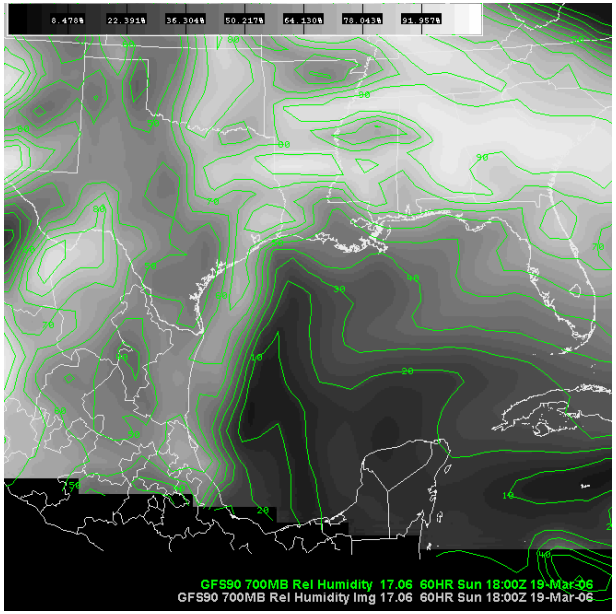


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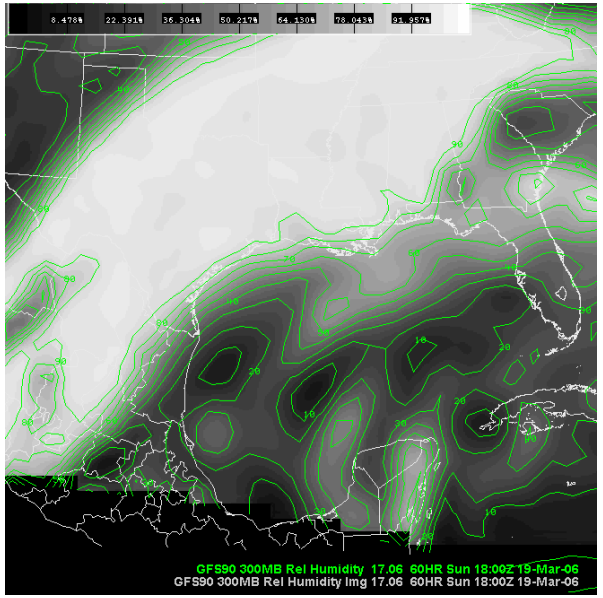


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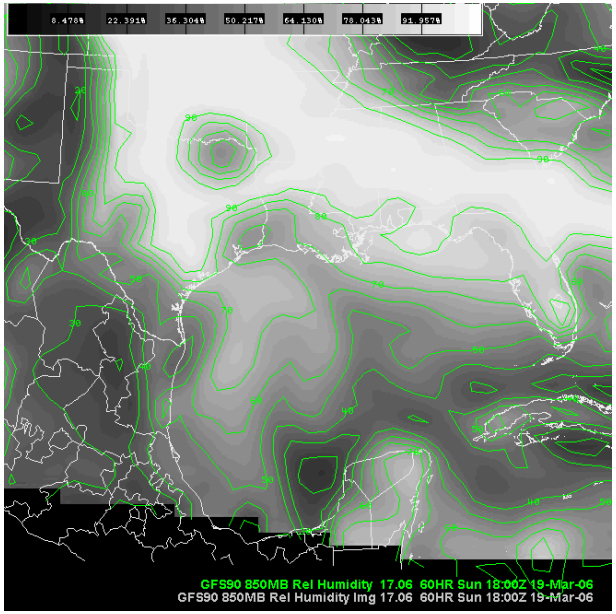


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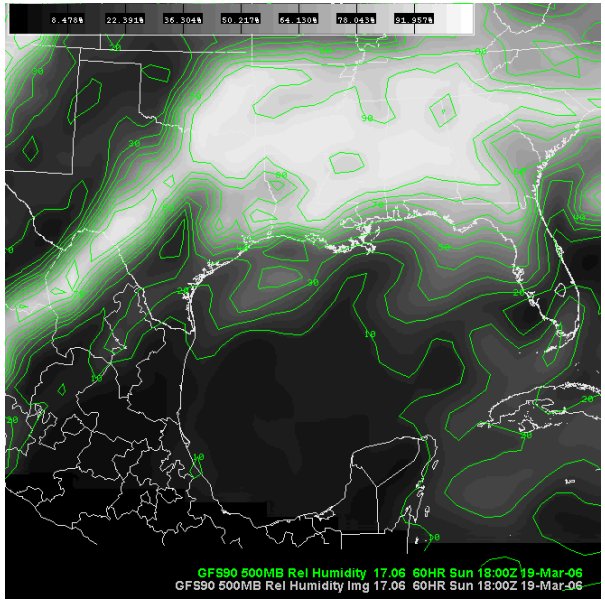
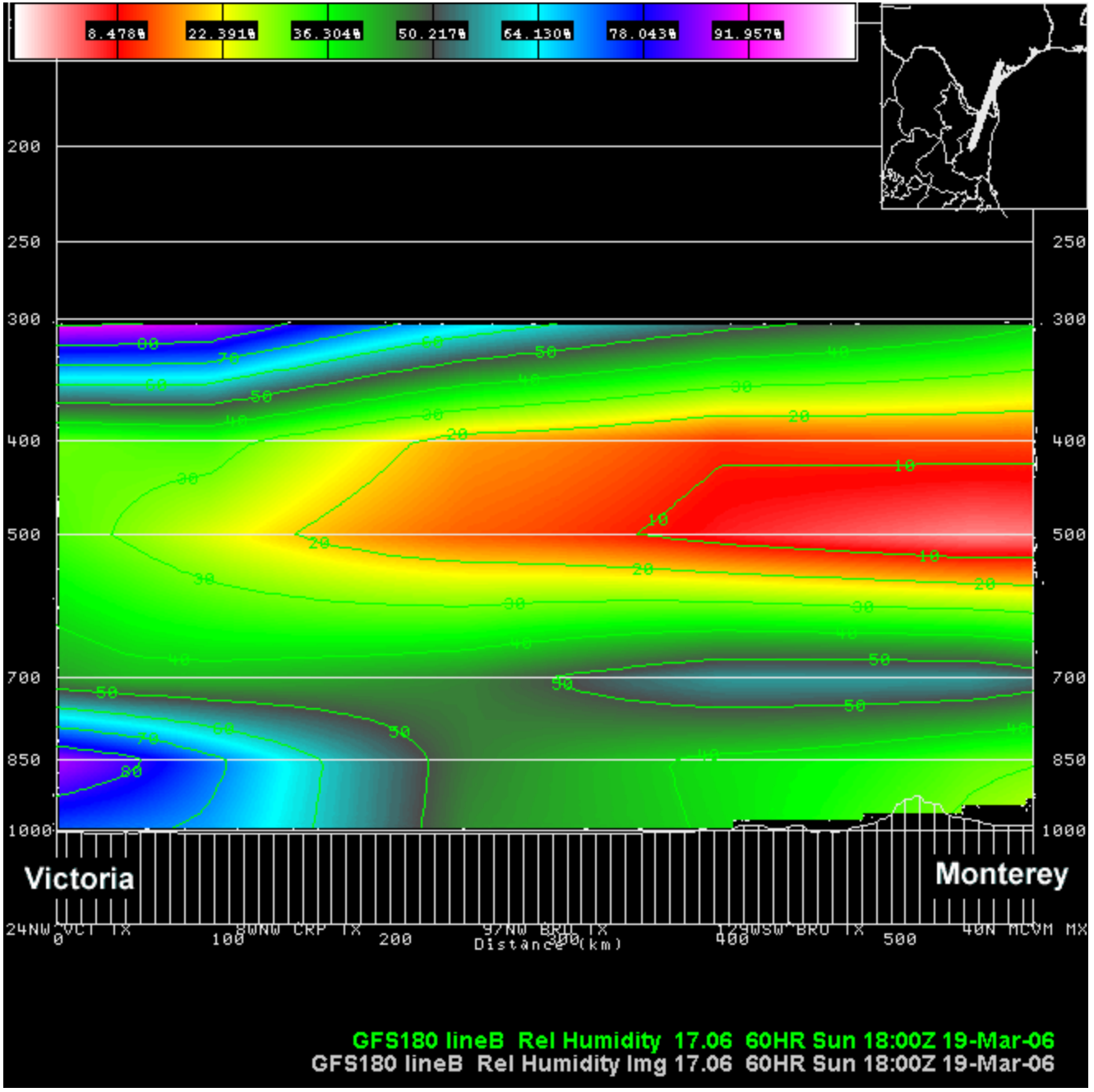
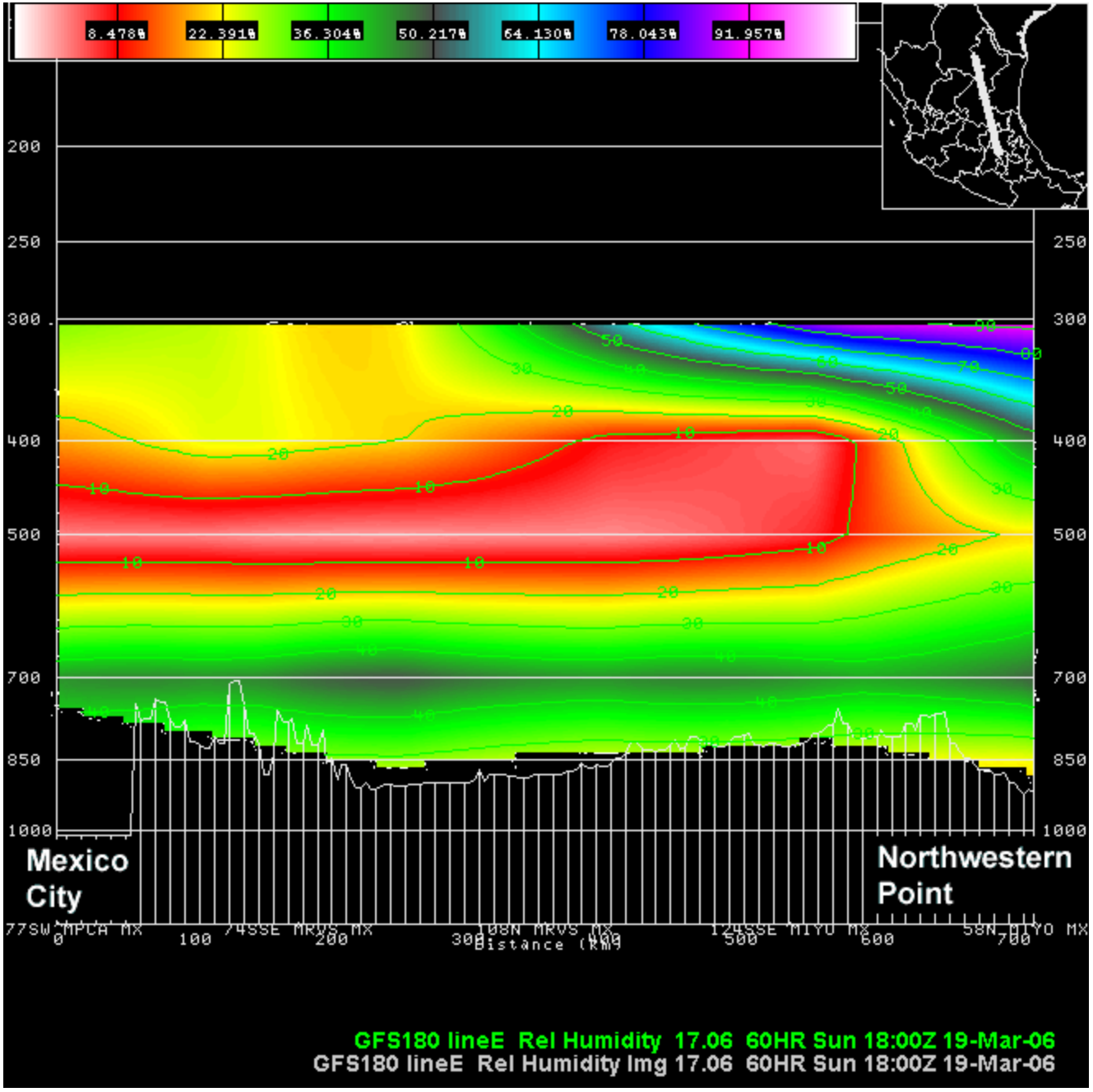


# Sun.
# Leg 2


8.478%
22.391%
36.304%
50.217%
64.130%
78.043%
91.957%
200
250
300
400
500
700
850
1000
Victoria
Monterey
24NW VCT TX
88NW CRP TX
97NW BRO TX
129SW BRO TX
40N MCVM MX
0
100
200
300
400
500
Distance (km)
GFS180 lineB Rel Humidity 17.06 60HR Sun 18:00Z 19-Mar-06
GFS180 lineB Rel Humidity Img 17.06 60HR Sun 18:00Z 19-Mar-06

# Sun.
# Leg 5

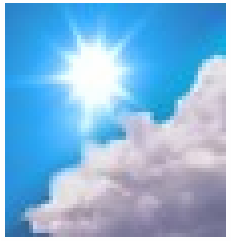
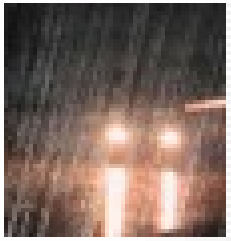

8.478%
22.391%
36.304%
50.217%
64.130%
78.043%
91.957%
200
250
300
400
500
700
850
1000
Mexico City
Northwestern Point
77SW MPCA MX
74SSE MRVS MX
108N MRVS MX
124SSE MIYU MX
58N MIYO MX
0
100
200
300
400
500
600
700
Distance (km)
GFS180 lineE Rel Humidity 17.06 60HR Sun 18:00Z 19-Mar-06
GFS180 lineE Rel Humidity Img 17.06 60HR Sun 18:00Z 19-Mar-06

# Extended Tuesday Forecast

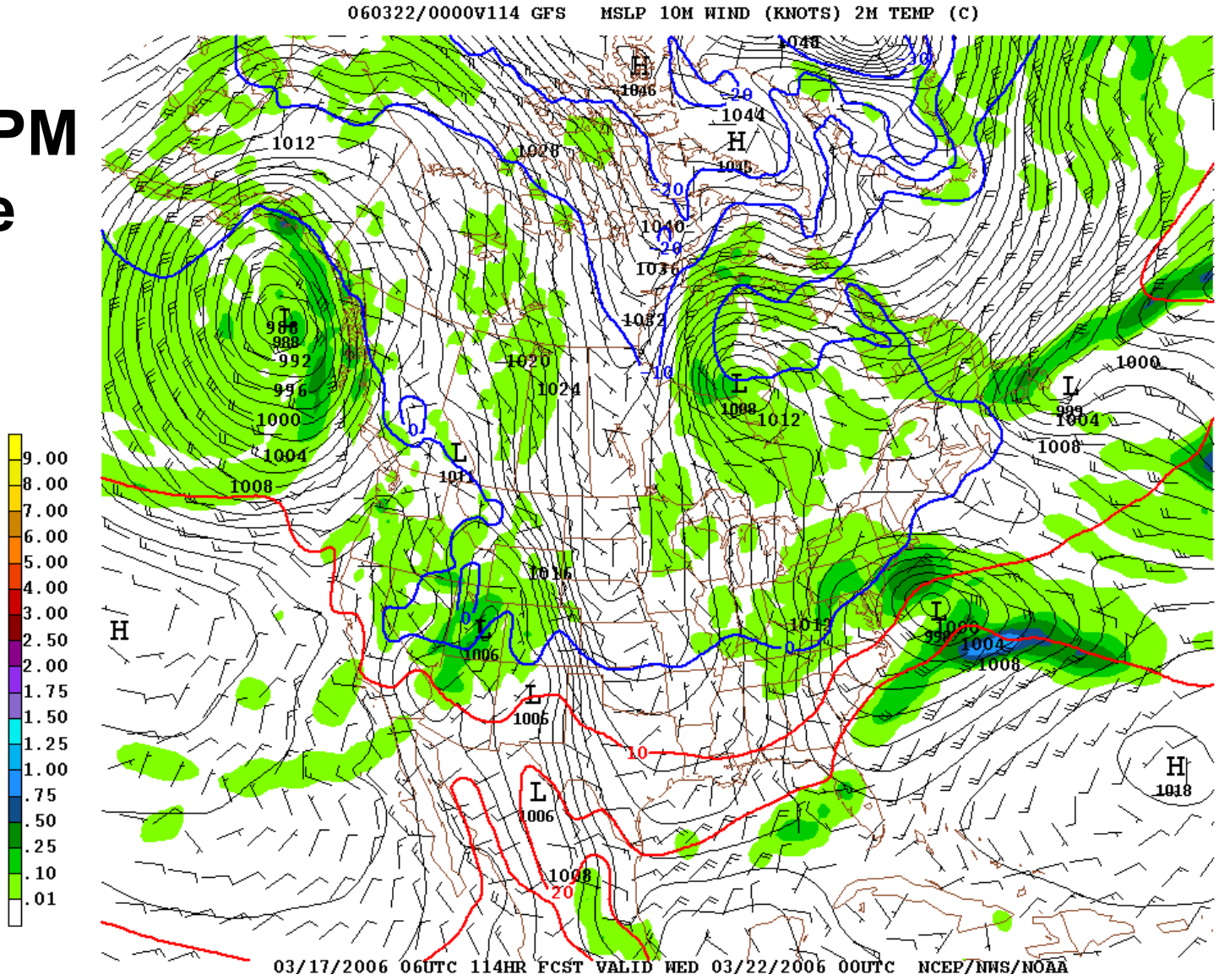
21 March 2006

(Night Transit Flight)

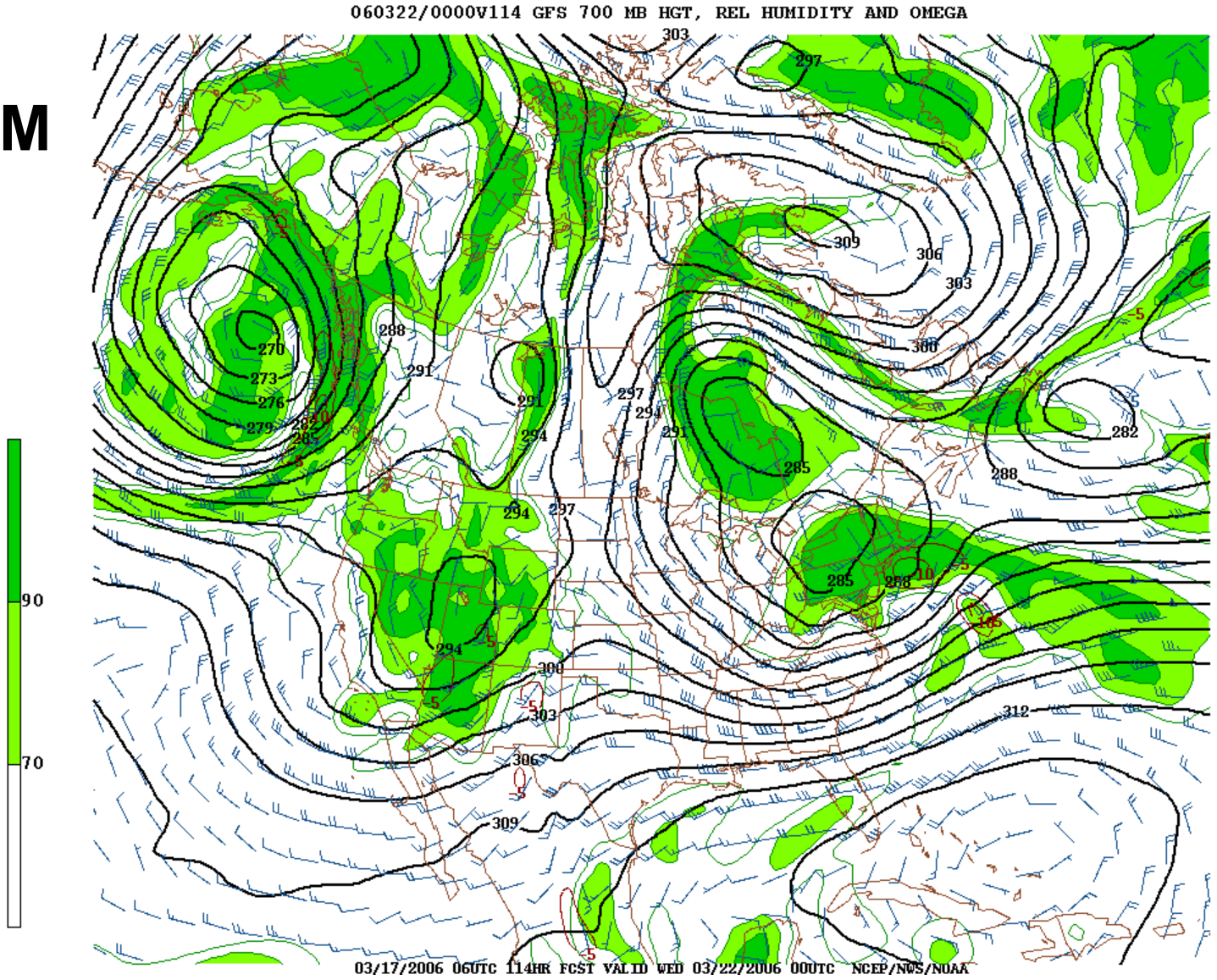
# Extended Ames Forecast

| Monday | Monday Night | Tuesday |
| --- | --- | --- |
|  |  | |
| Partly Cloudy | Chance Rain | Mostly Cloudy |
| Hi 59°F<br>PoP 30% | Lo 44°F<br>PoP 50% | Hi 59°F<br>PoP 40% |

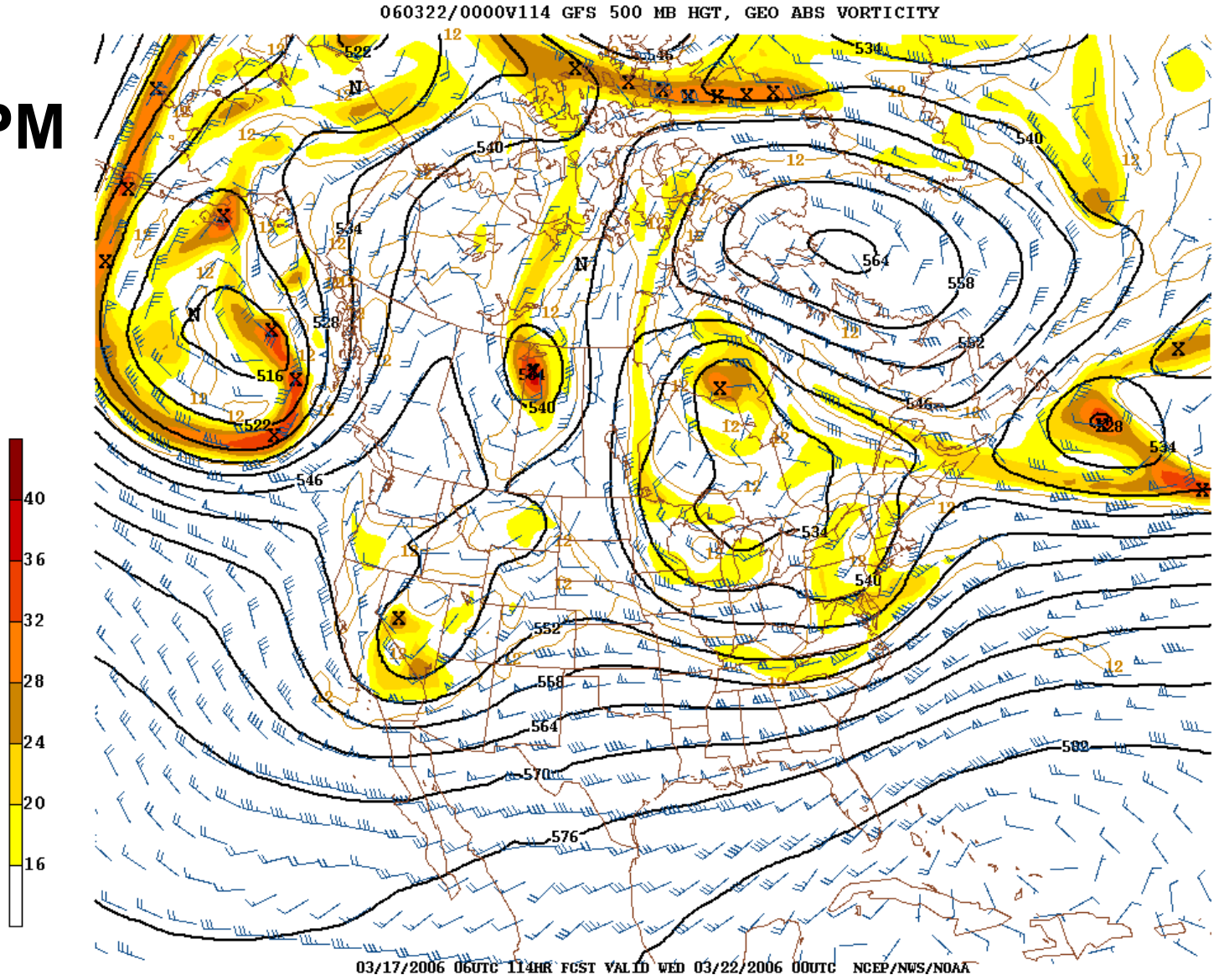
# Tue. 8 PM Surface



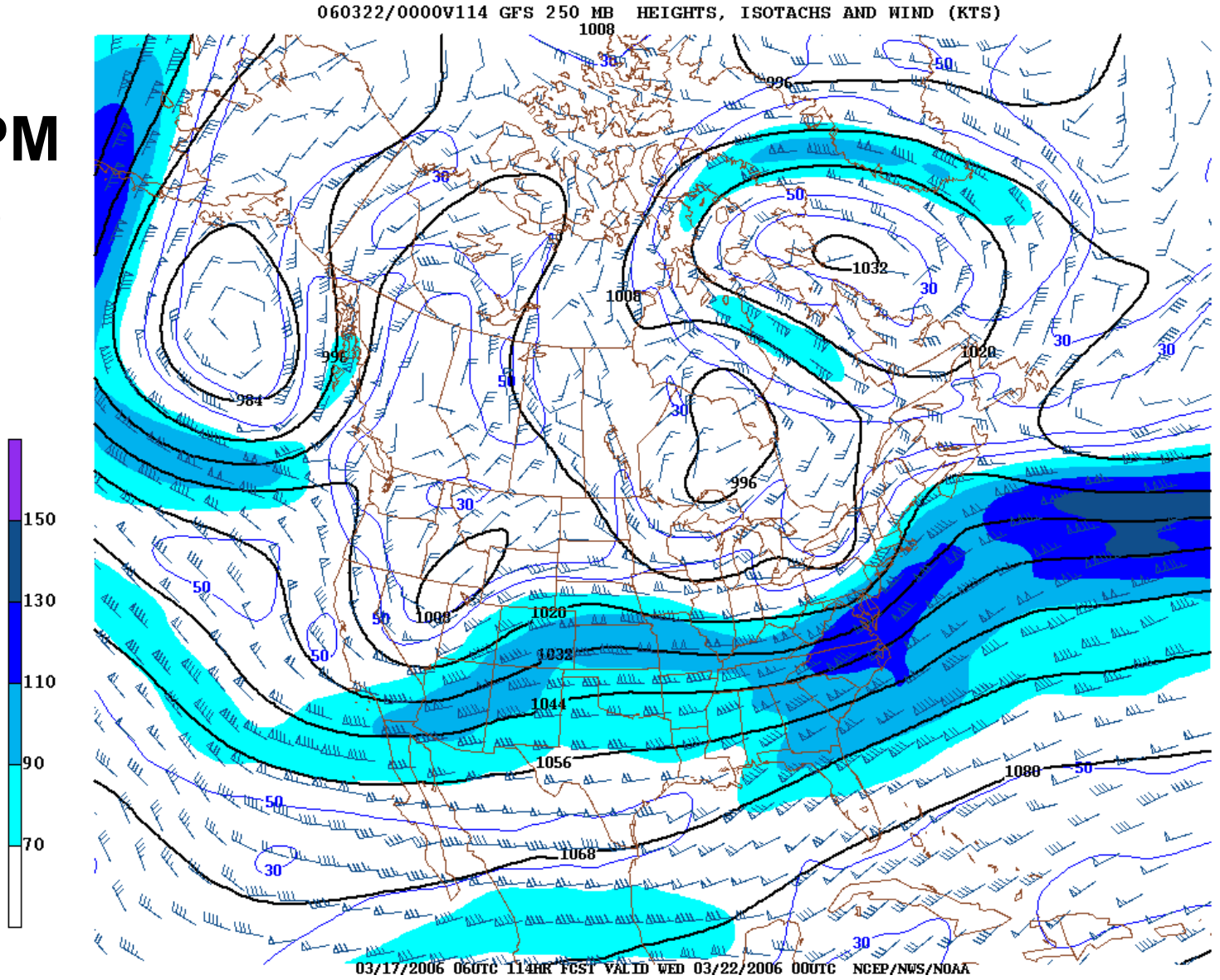
# Tue. 8 PM
# 700 mb



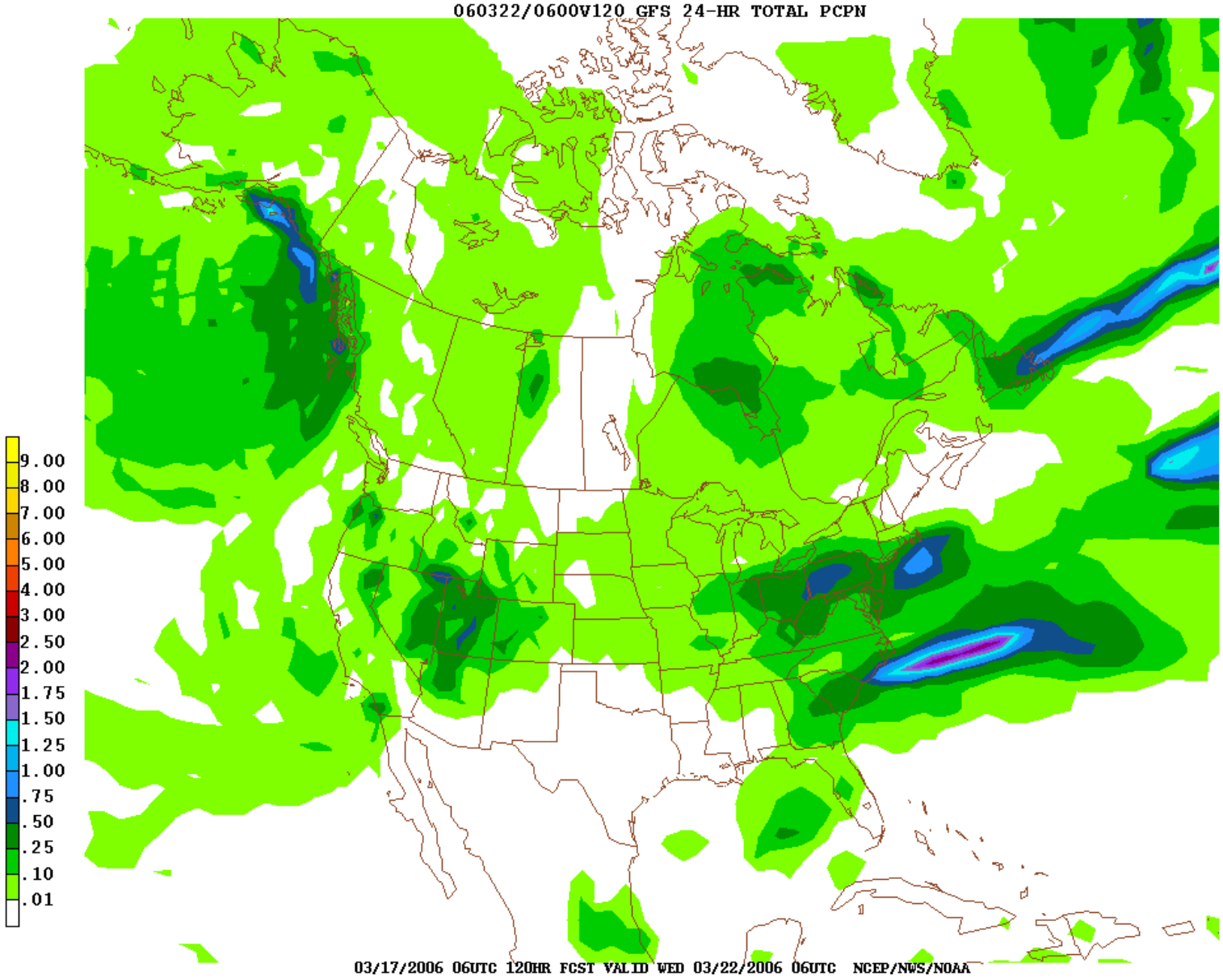
# Tue. 8 PM
# 500 mb



# Tue. 8PM
# 250 mb



# Tues. Precip


060322/0600V120 GFS 24-HR TOTAL PCPN
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
03/17/2006 06UTC 120HR FCST VALID WED 03/22/2006 06UTC NCEP/NWS/NOAA