

US EPA ARCHIVE DOCUMENT

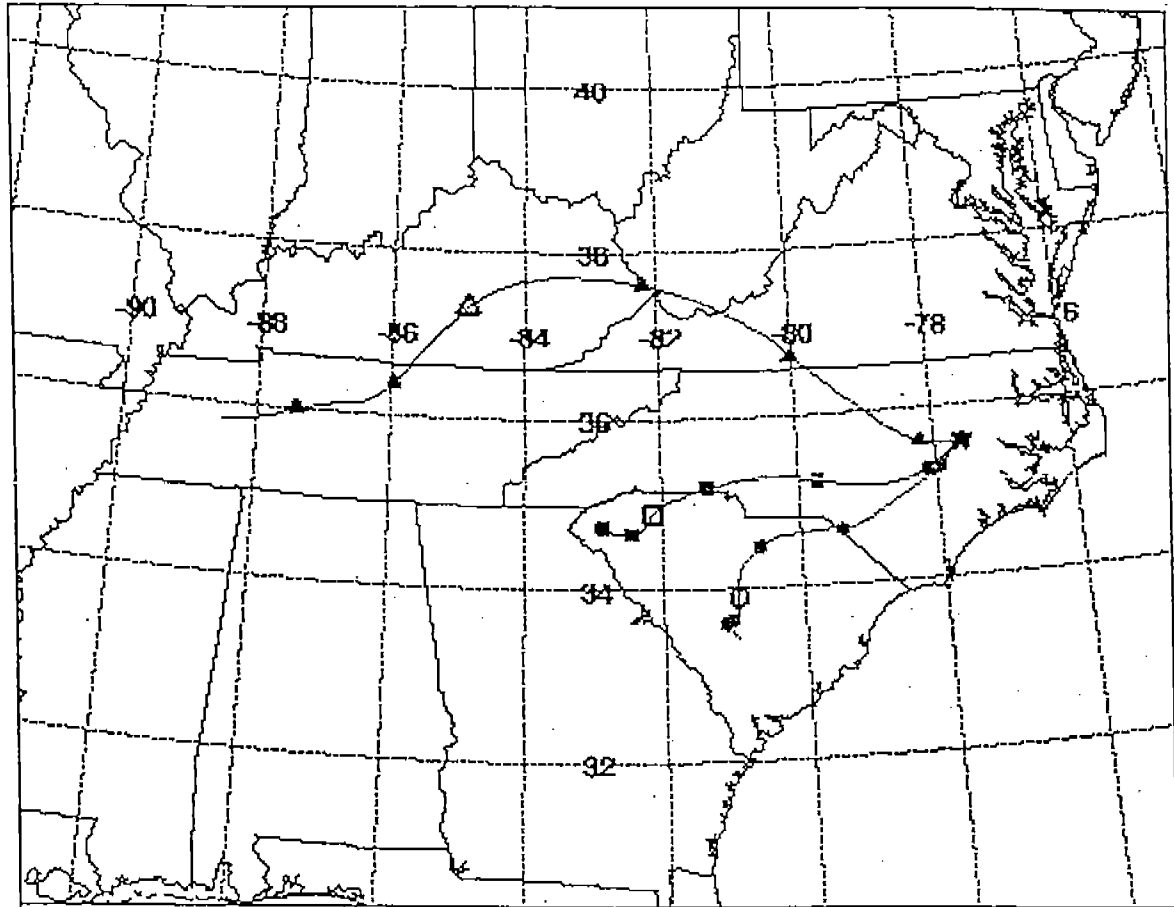


NOAA Air Resources Laboratory

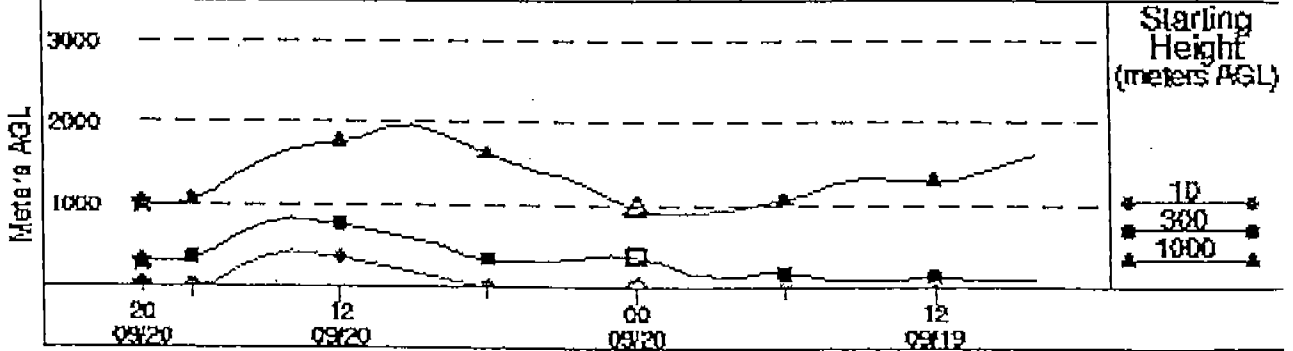
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NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 20 UTC 20 SEP 97

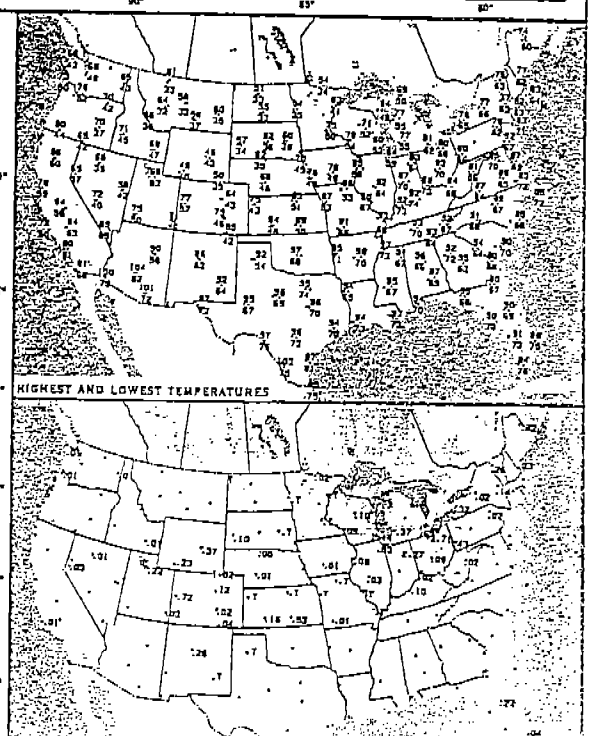
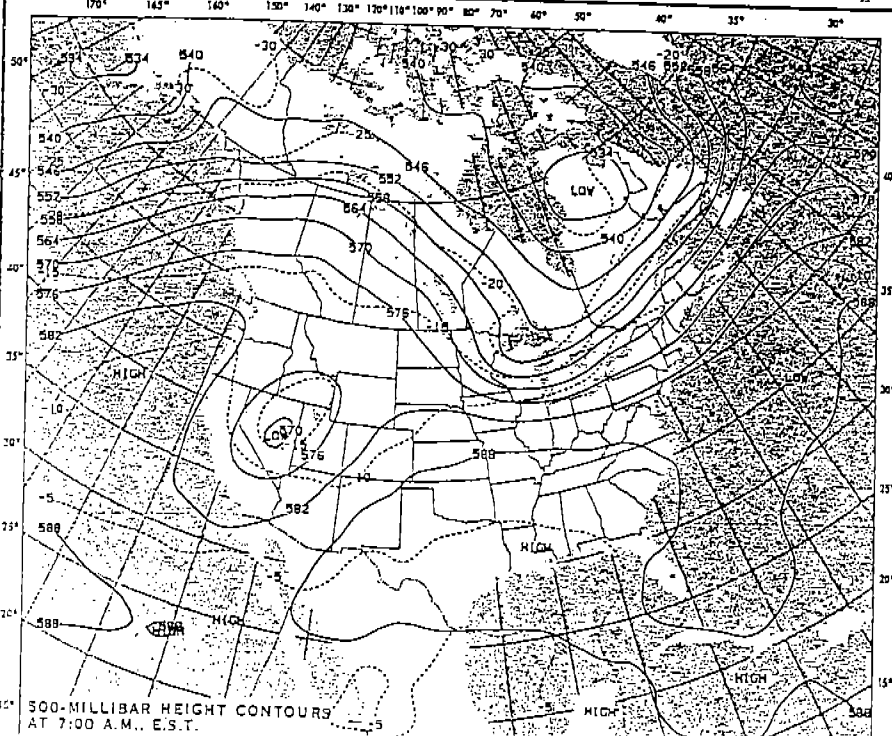
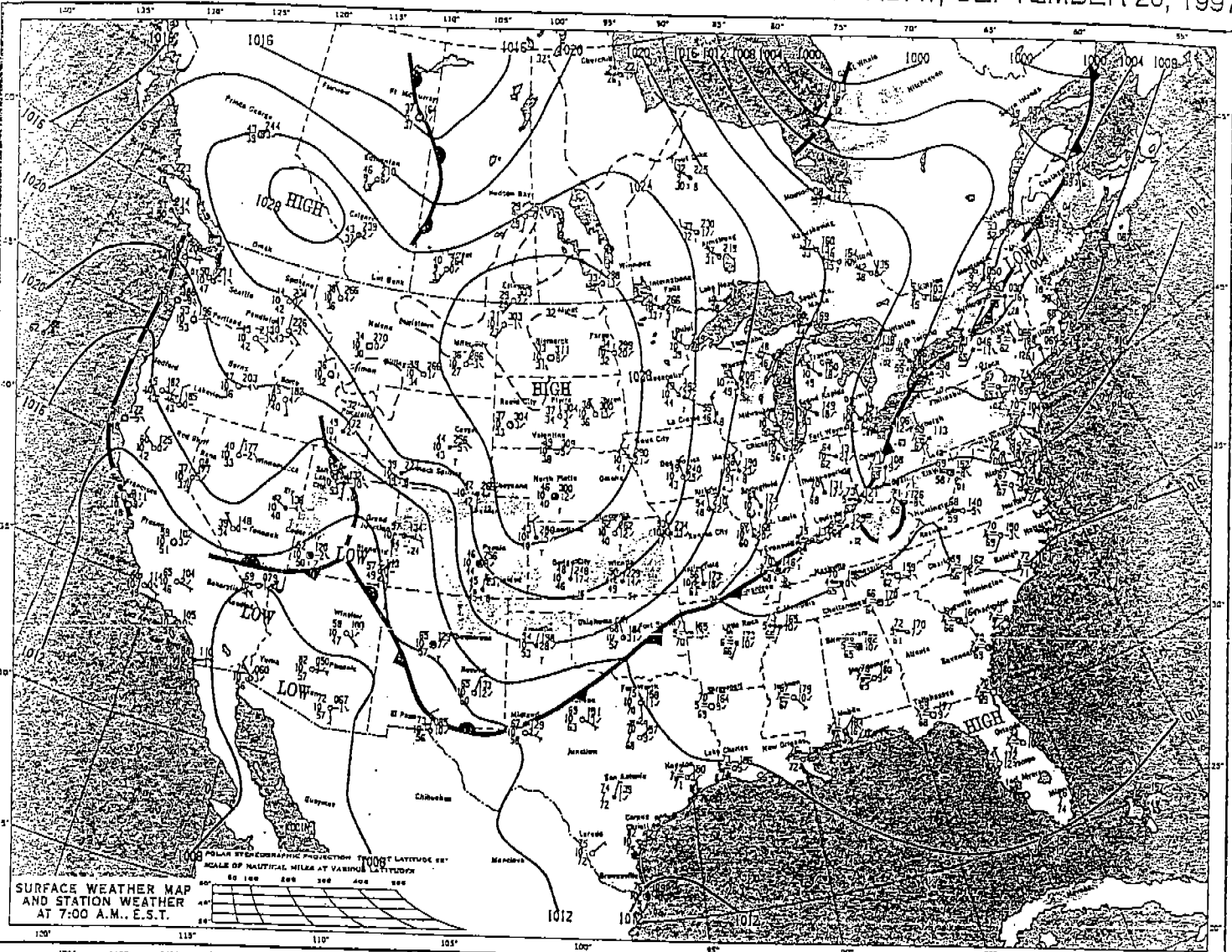
Source Location * at 35.58 N 77.60 W



EDAS Meteorological Data
Vertical Motion Method - OMEGA



SATURDAY, SEPTEMBER 20, 1997



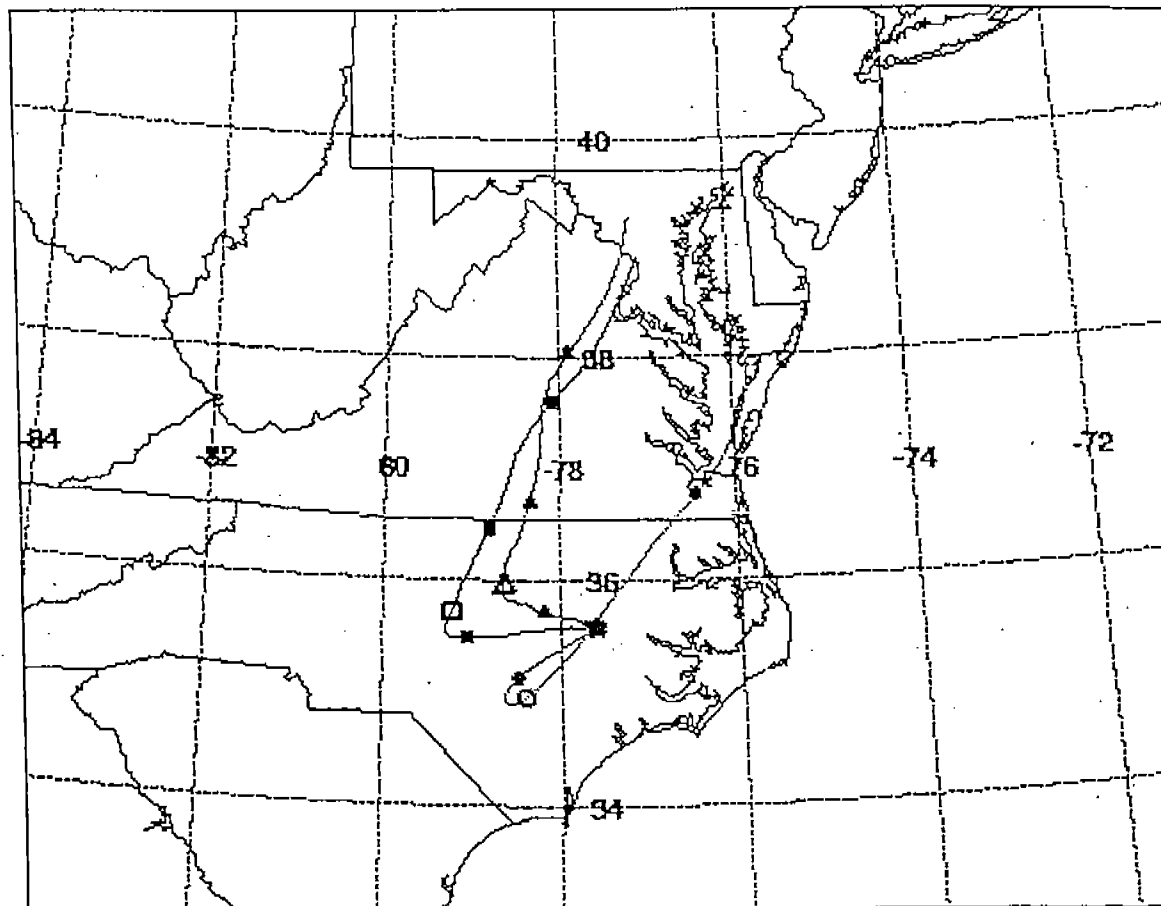


NOAA Air Resources Laboratory

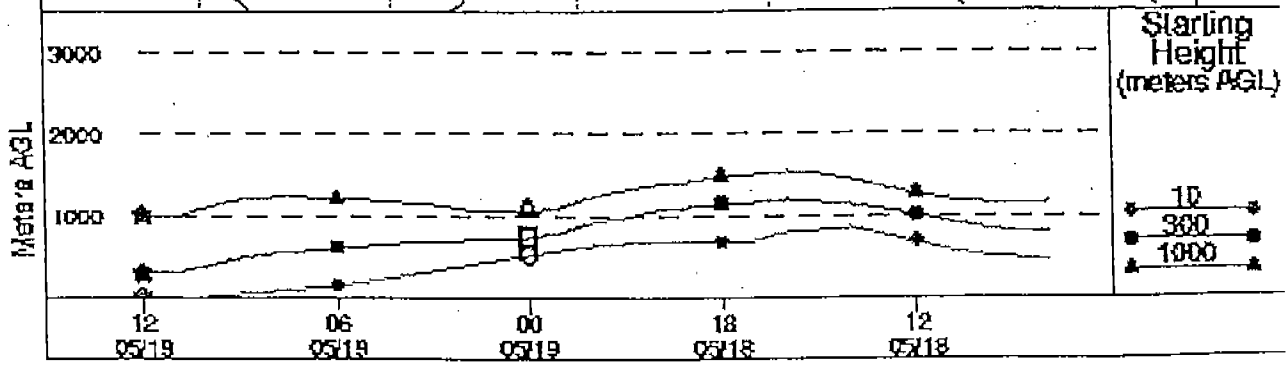
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NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending 12 UTC 19 MAY 98

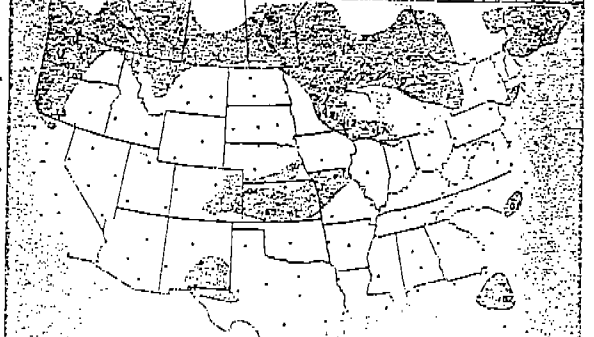
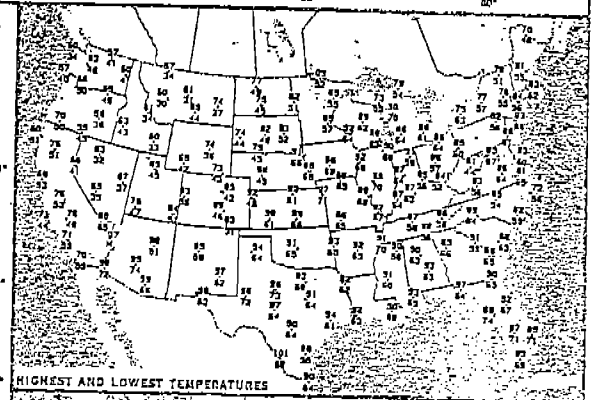
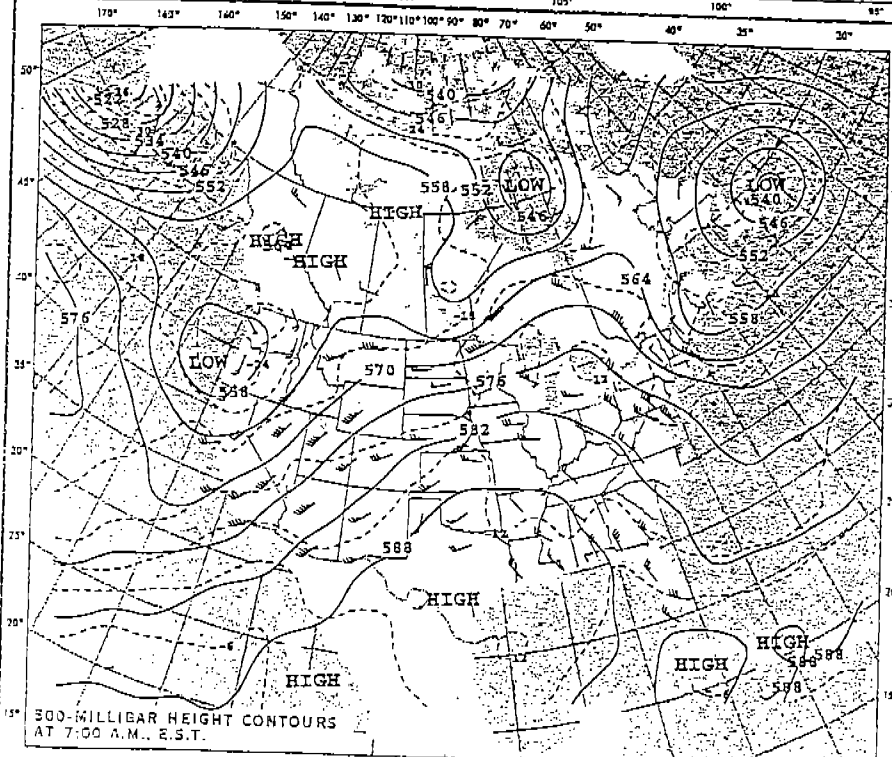
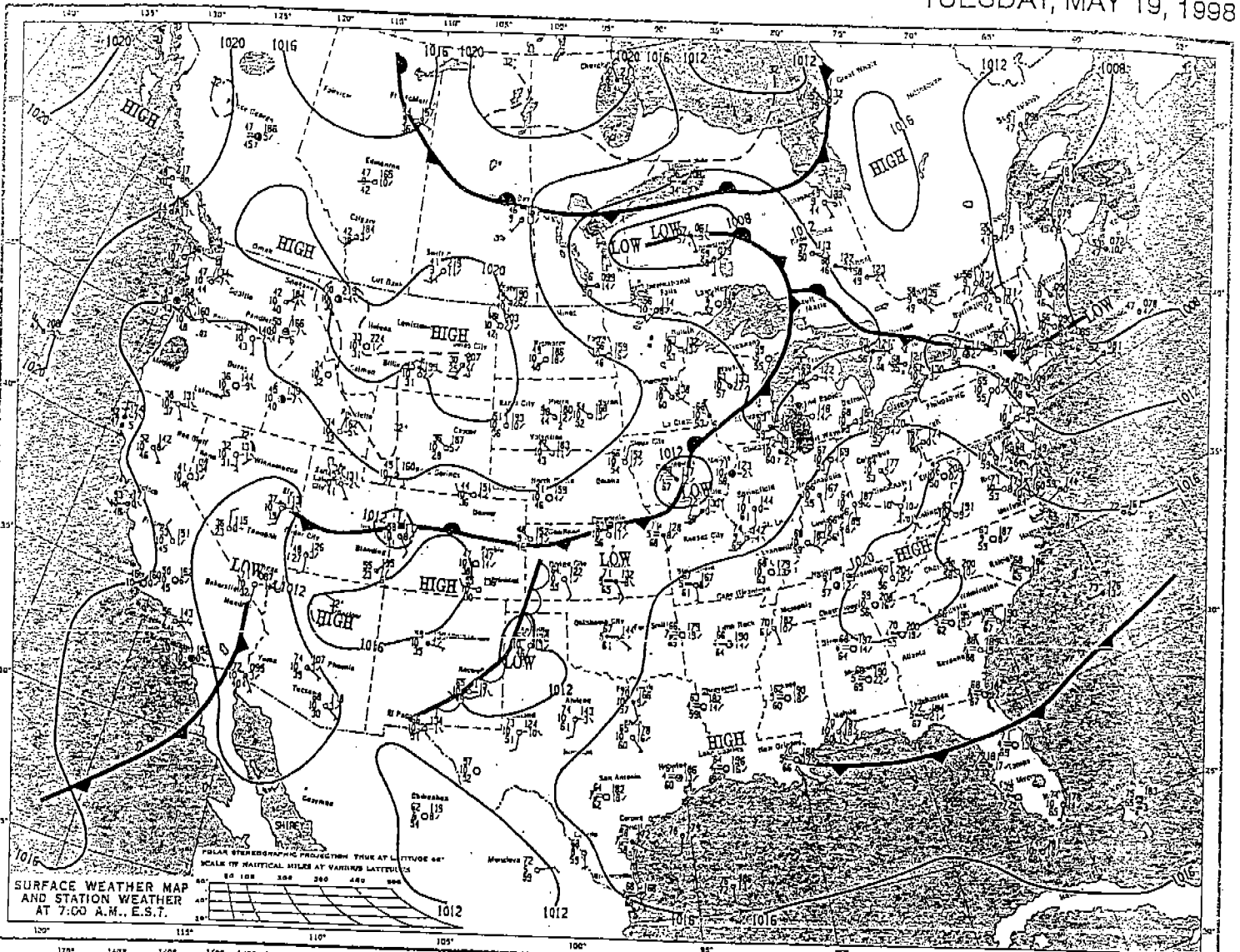
Source Location * at: 35.58 N 77.60 W



EDAS Meteorological Data
Vertical Motion Method - OMEGA



TUESDAY, MAY 19, 1998





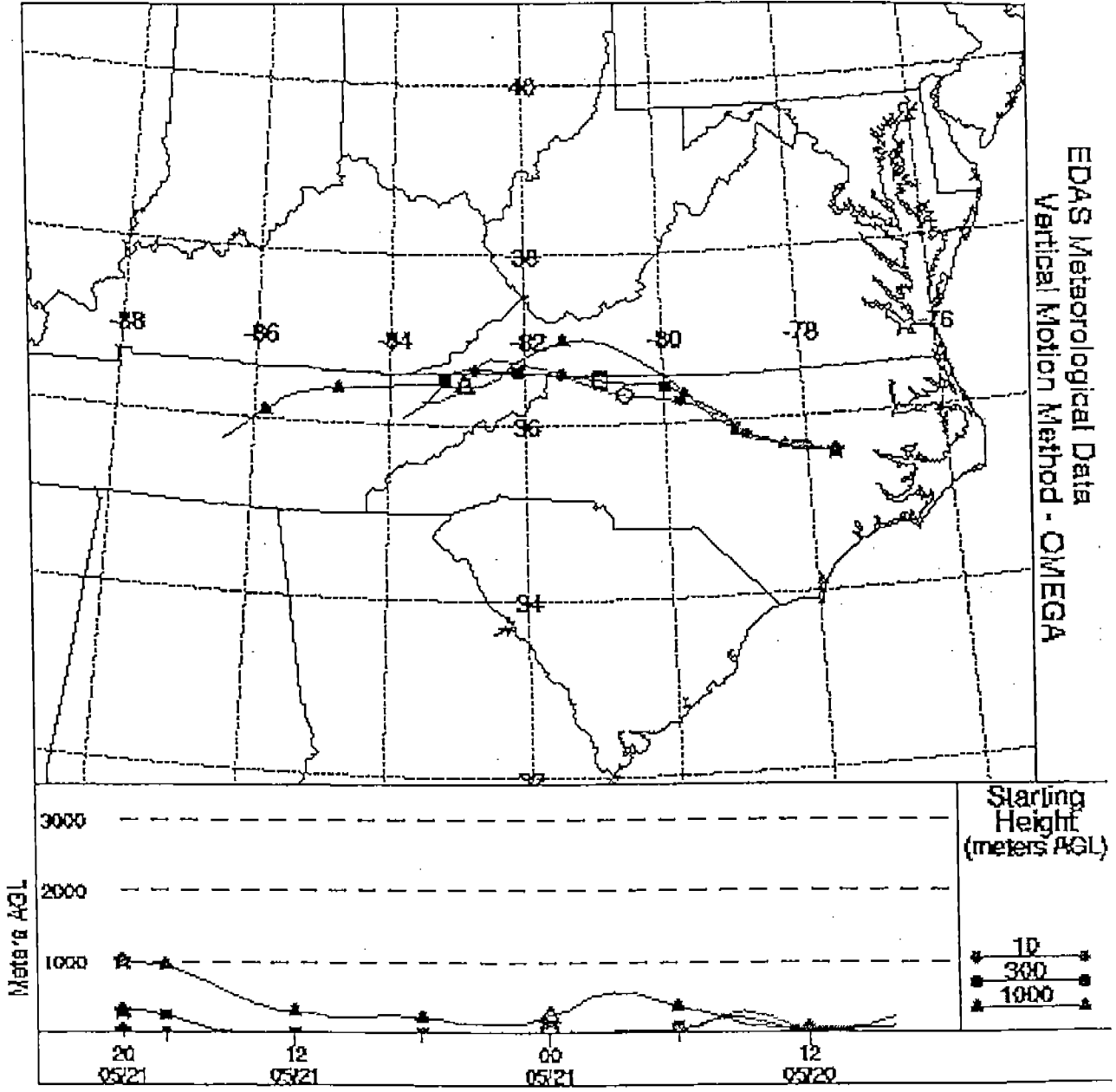
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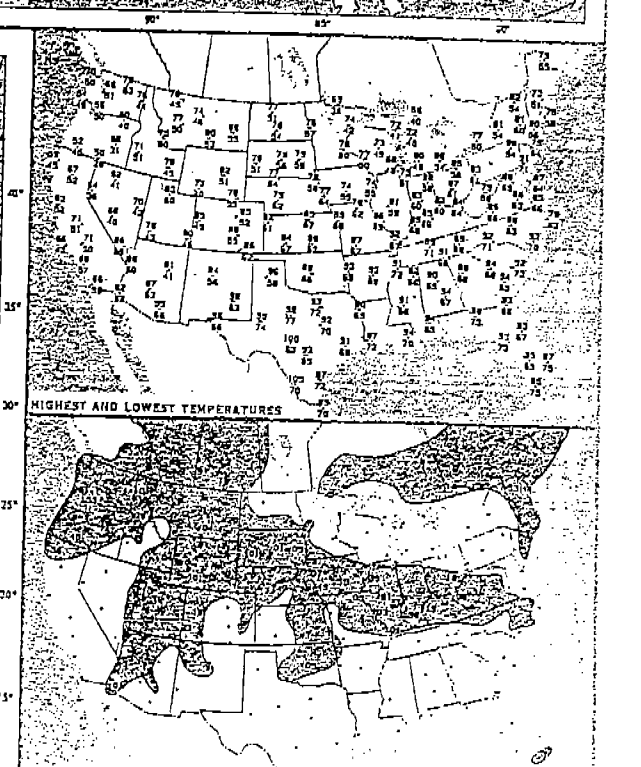
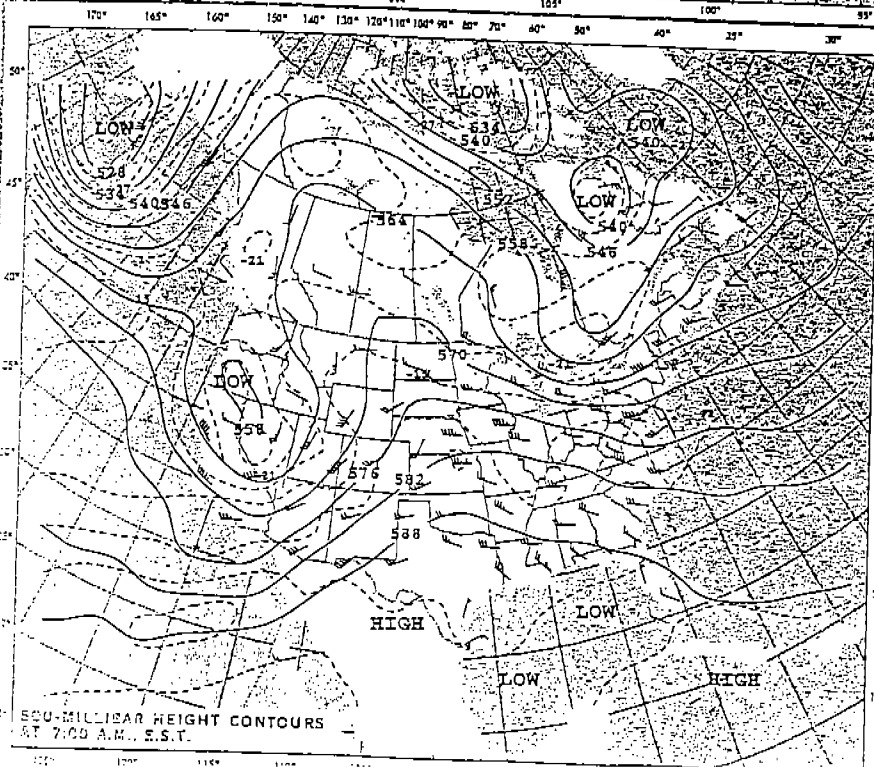
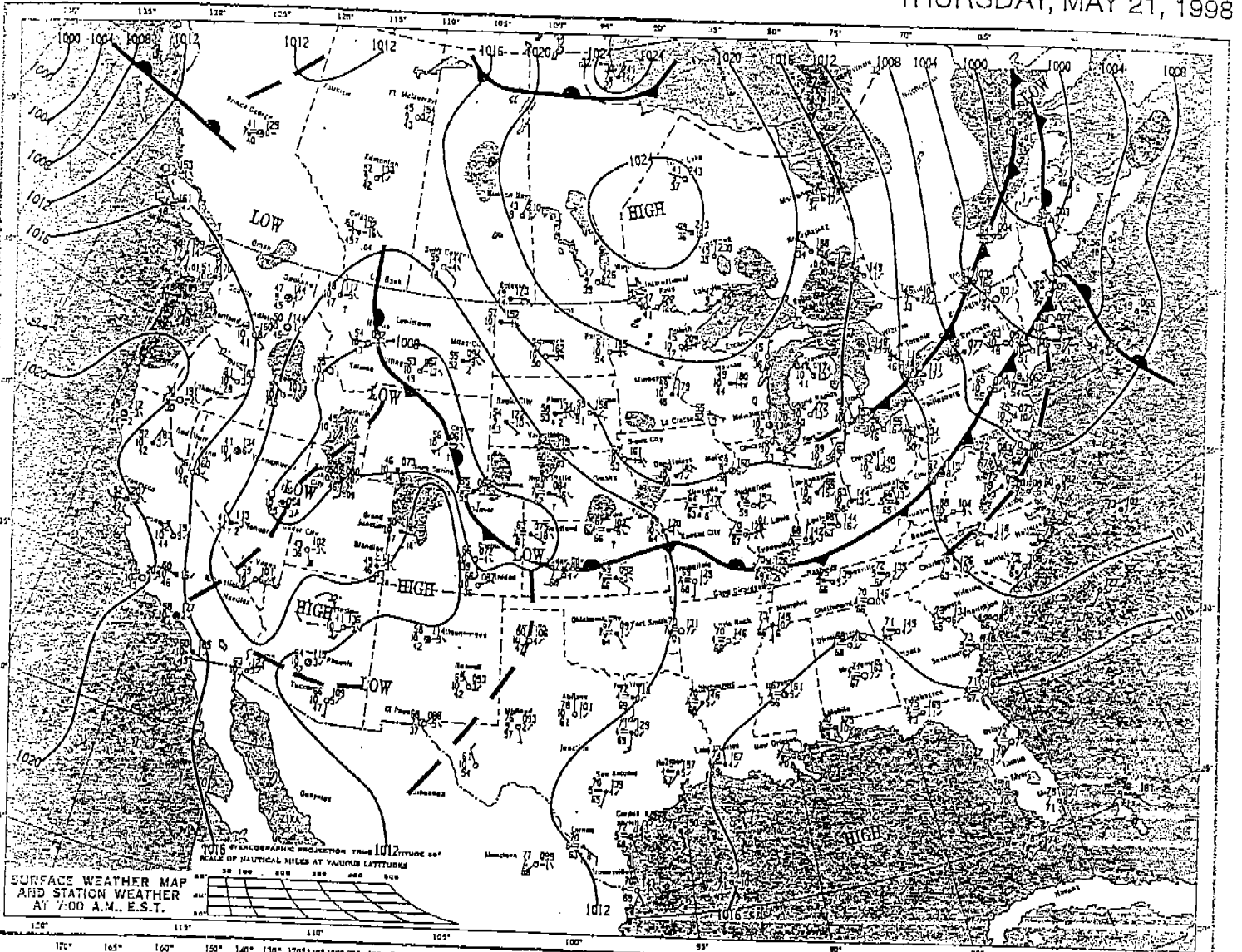
NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 20 UTC 21 MAY 98

Source Location ★ at 35.58 N 77.60 W

EDAS Meteorological Data
Vertical Motion Method - OMEGA



THURSDAY, MAY 21, 1998



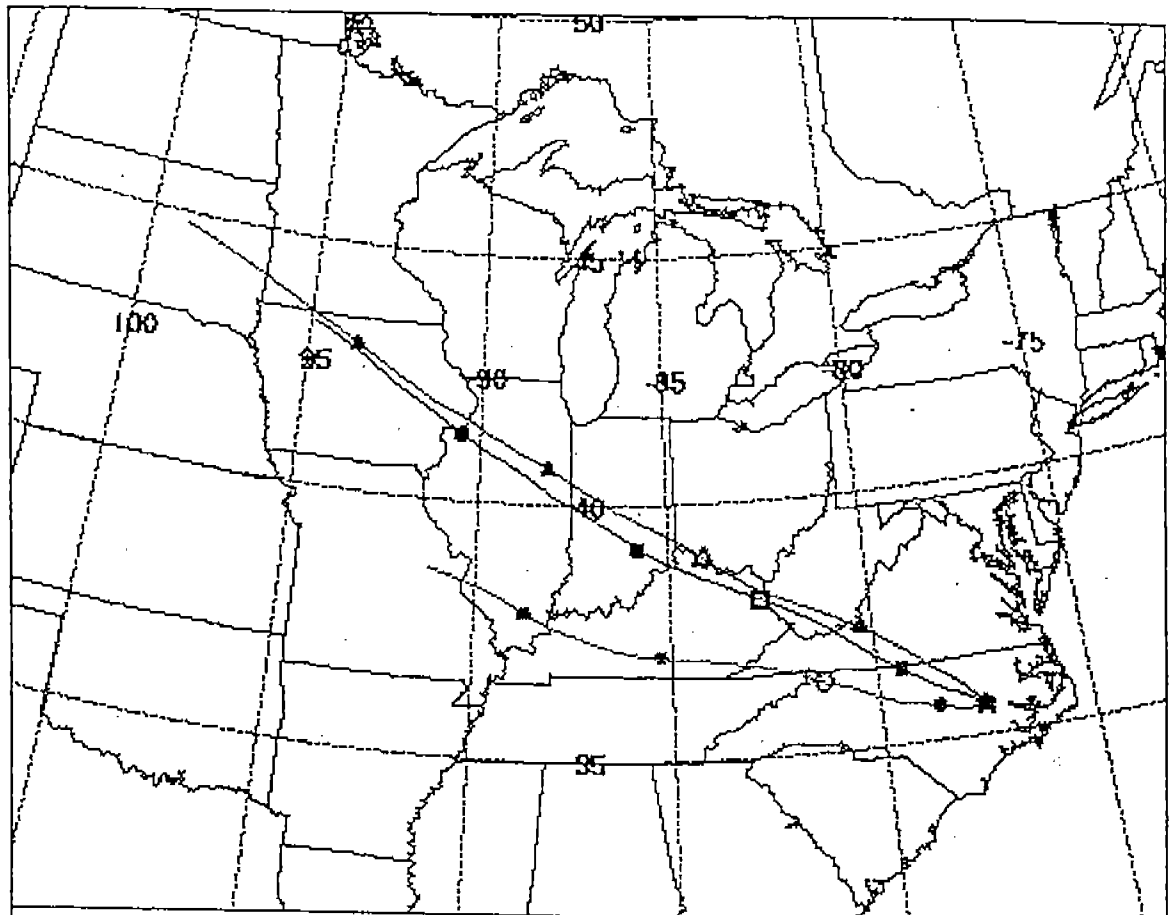


NOAA Air Resources Laboratory

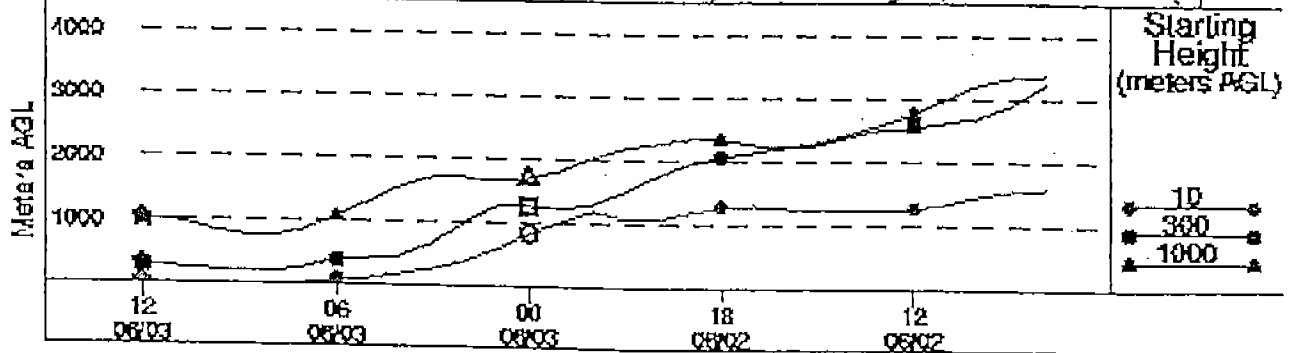
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NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 12 UTC 03 JUN 98

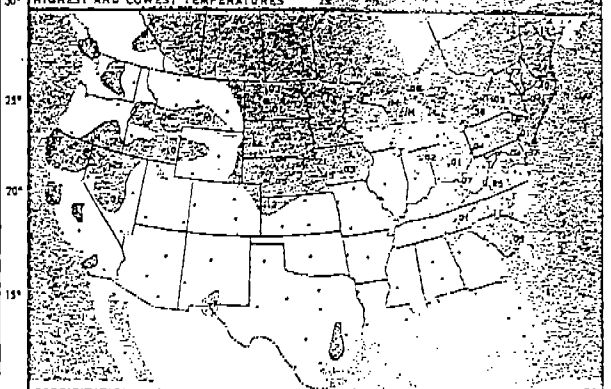
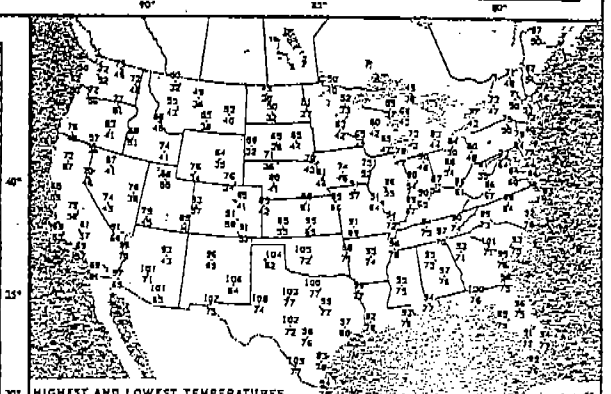
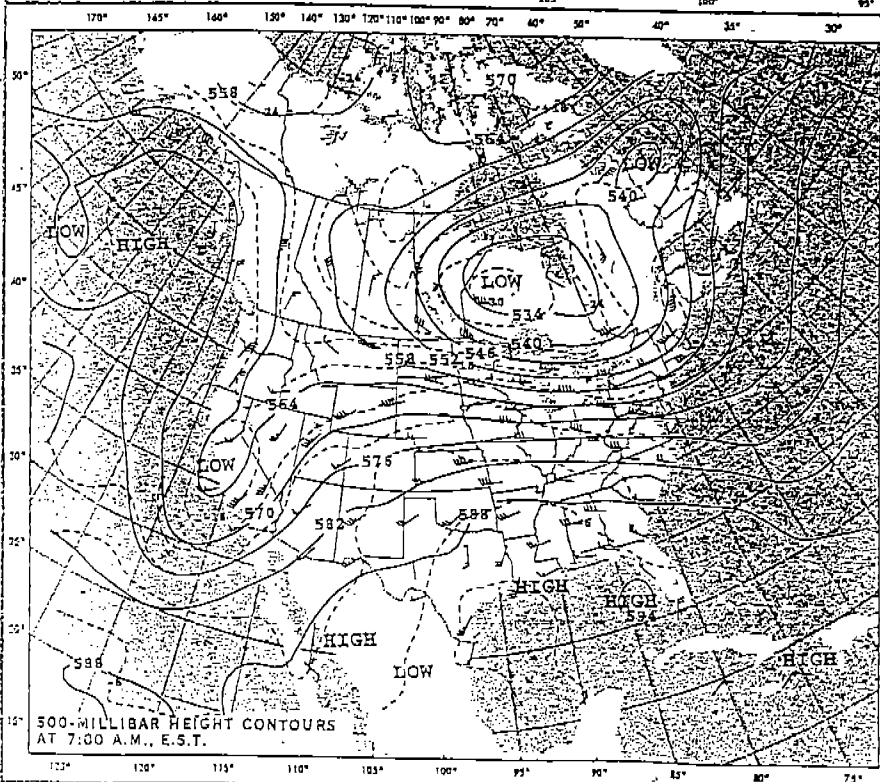
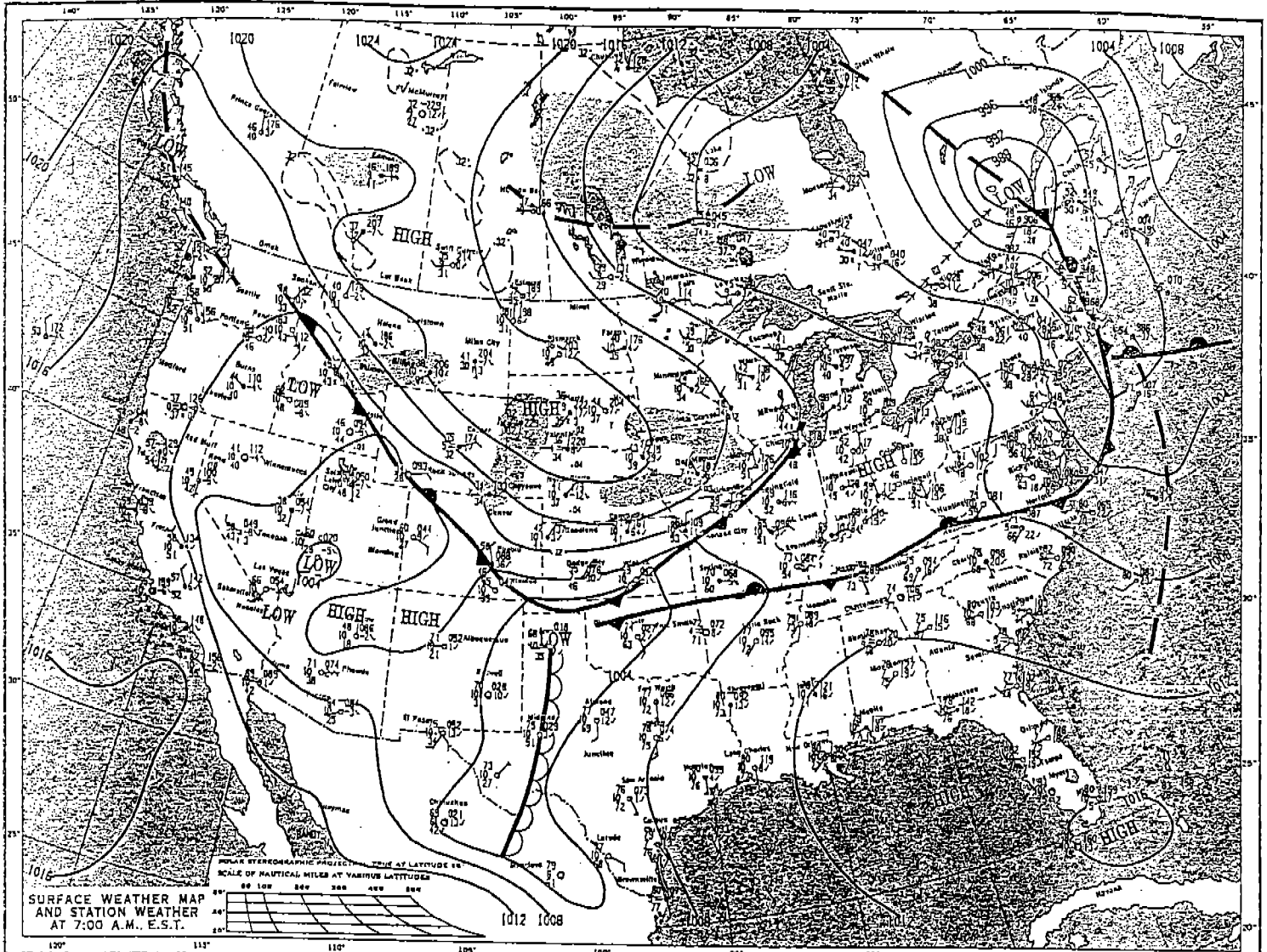
Source Location ★ at 35.58 N 77.60 W



EDAS Meteorological Data
Vertical Motion Method - OMEGA



WEDNESDAY, JUNE 3, 1998



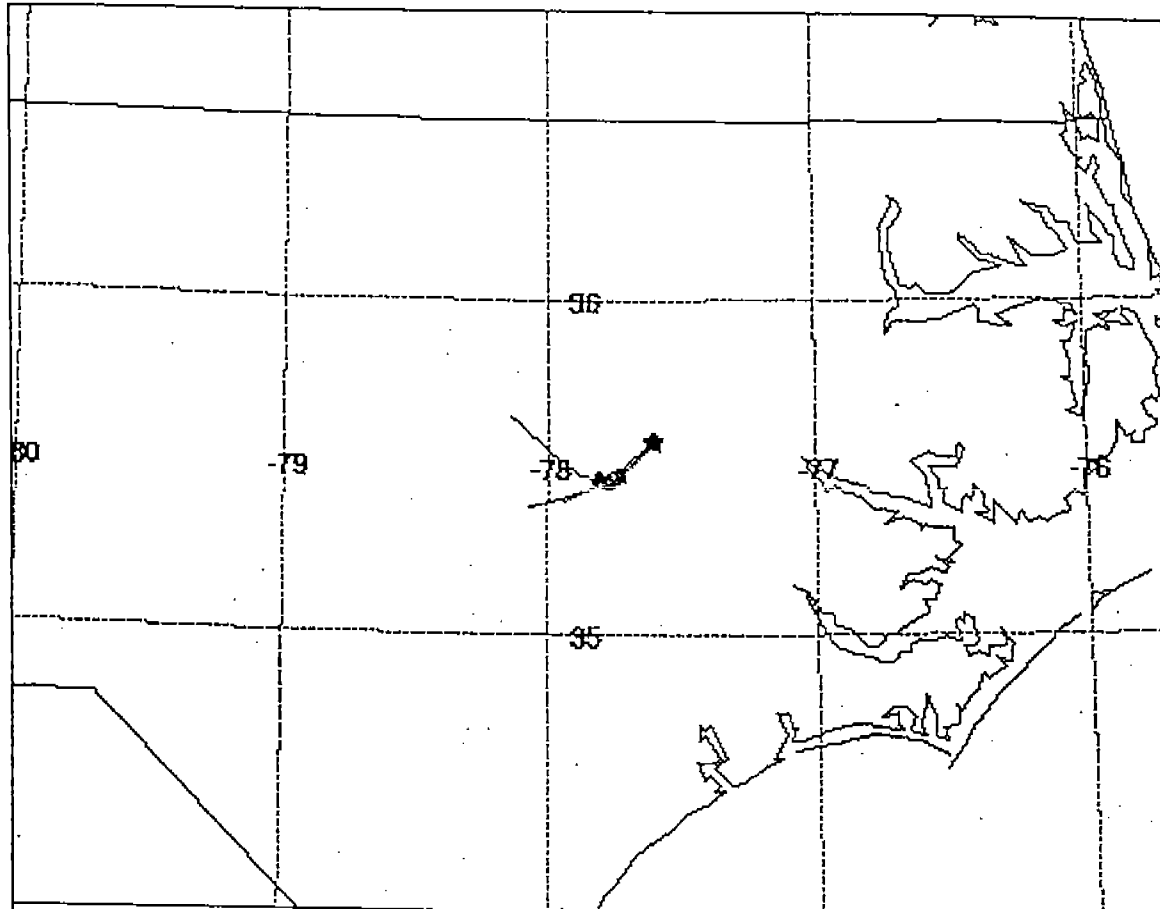


NOAA Air Resources Laboratory

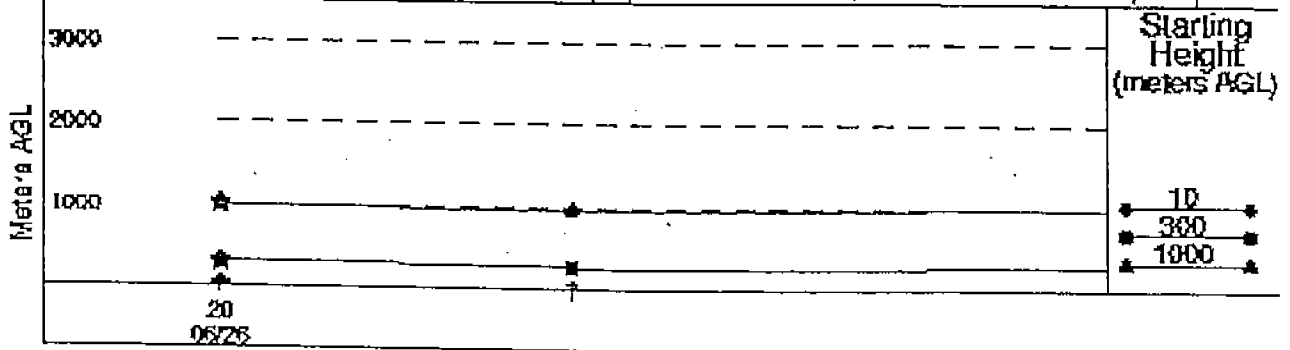
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NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 20 UTC 26 JUN 98

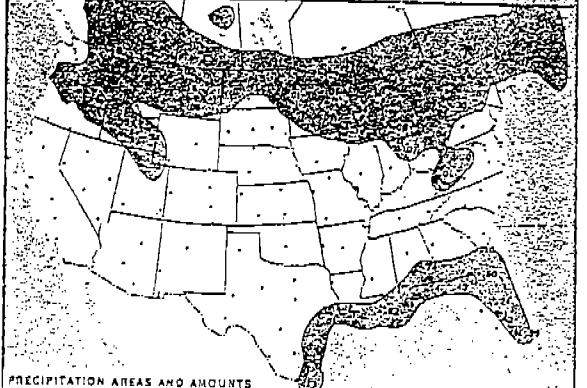
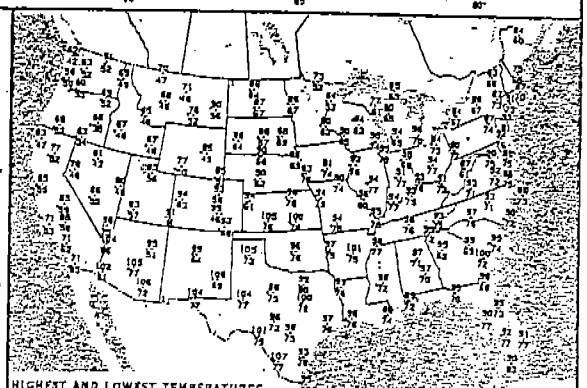
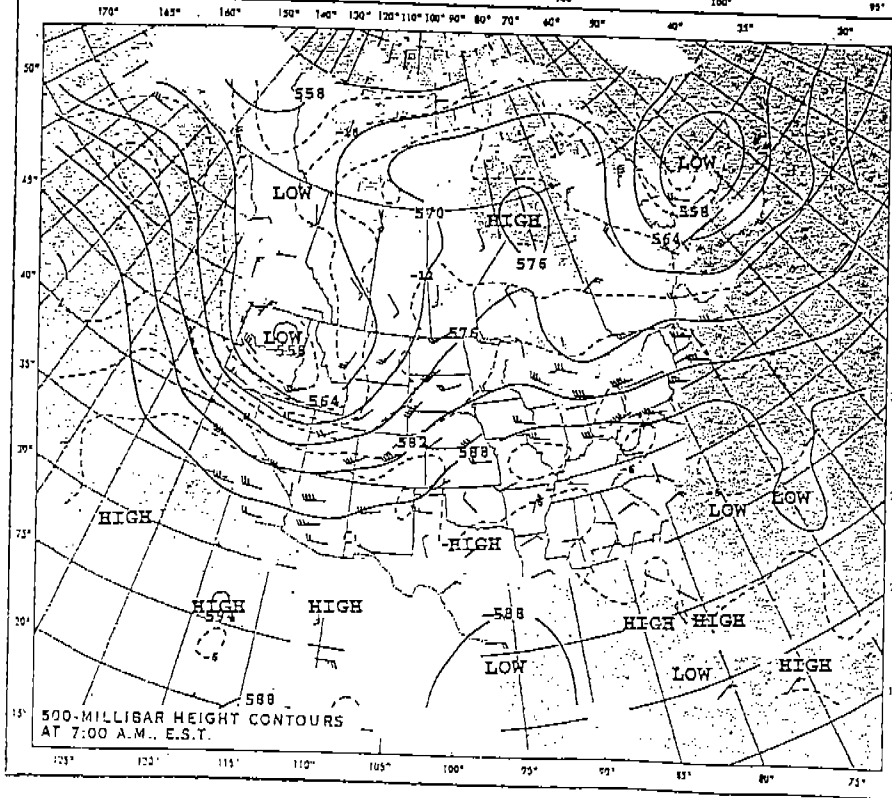
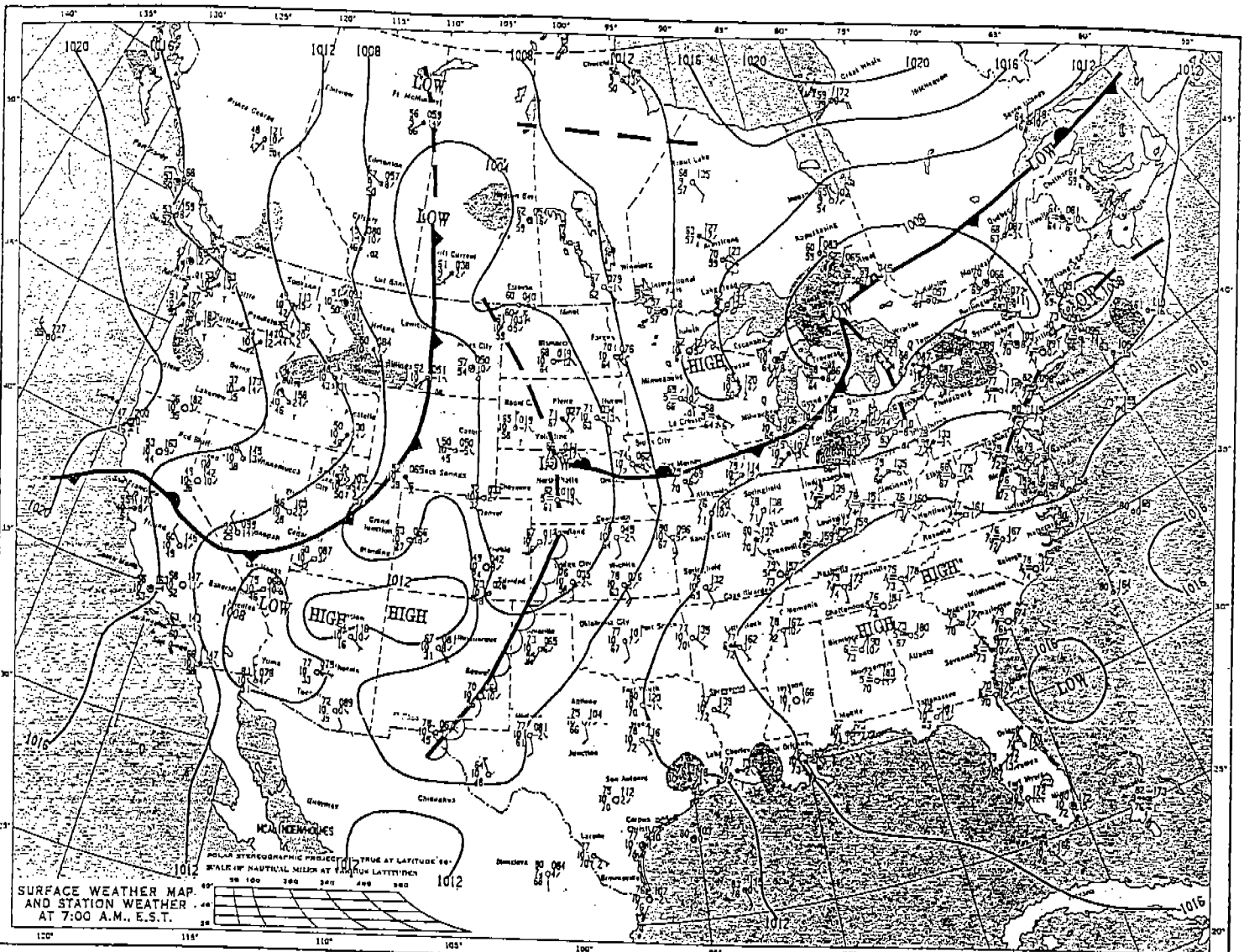
Source Location ★ at 35.58 N 77.60 W



EDAS Meteorological Data
Vertical Motion Method - OMEGA



FRIDAY, JUNE 26, 1998



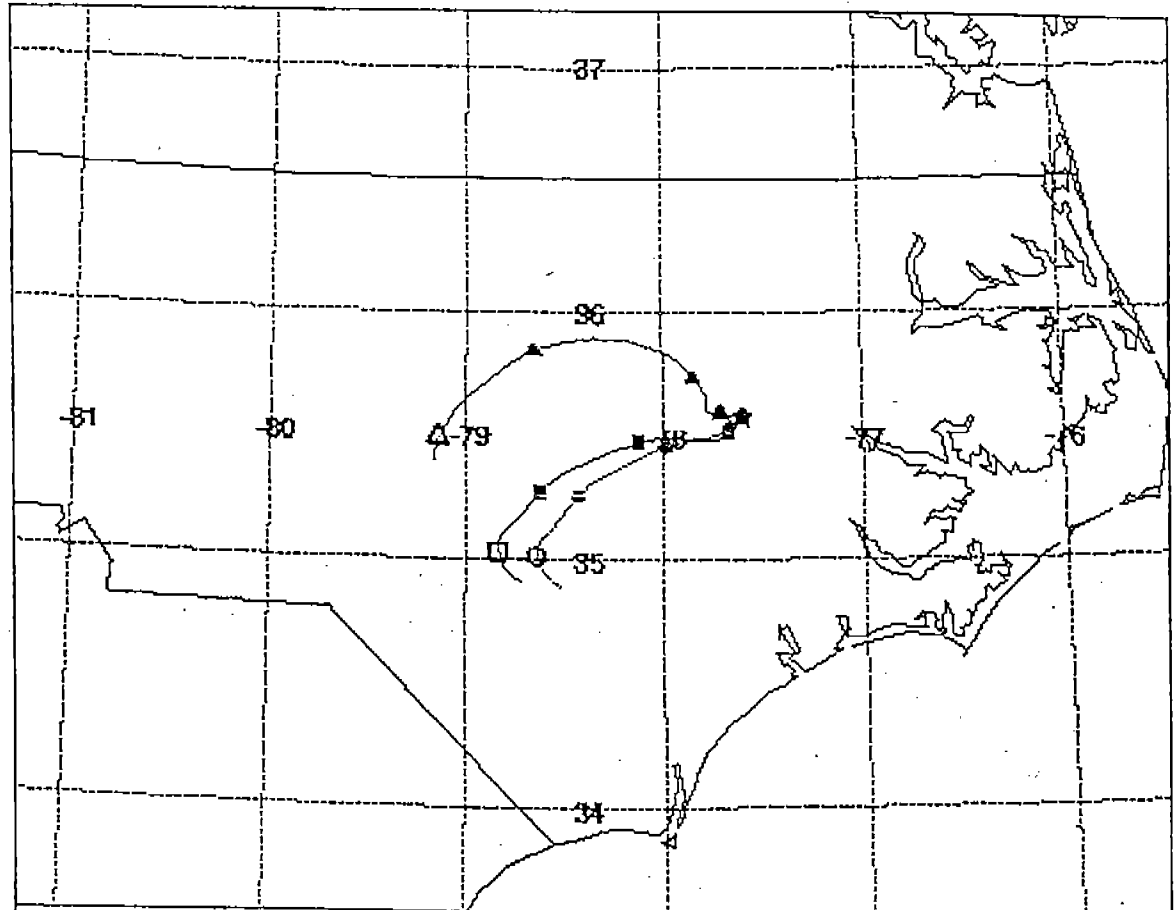


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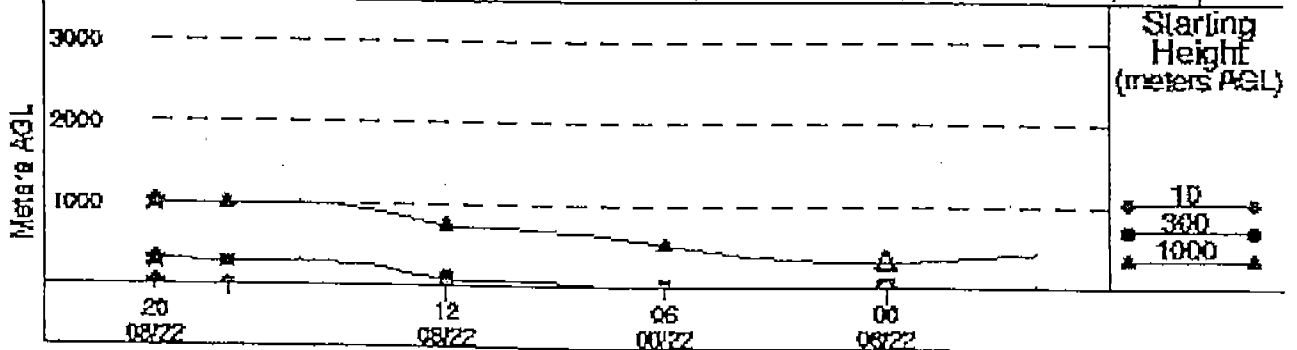
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NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 20 UTC 22 AUG 98

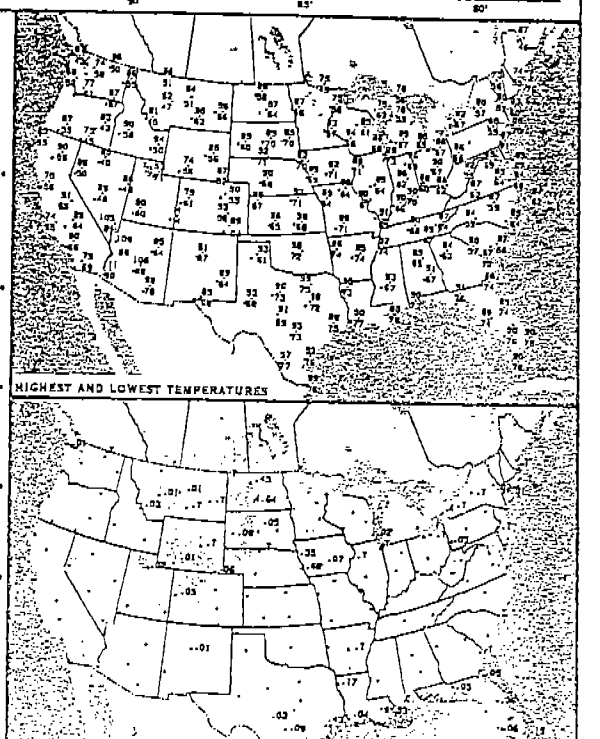
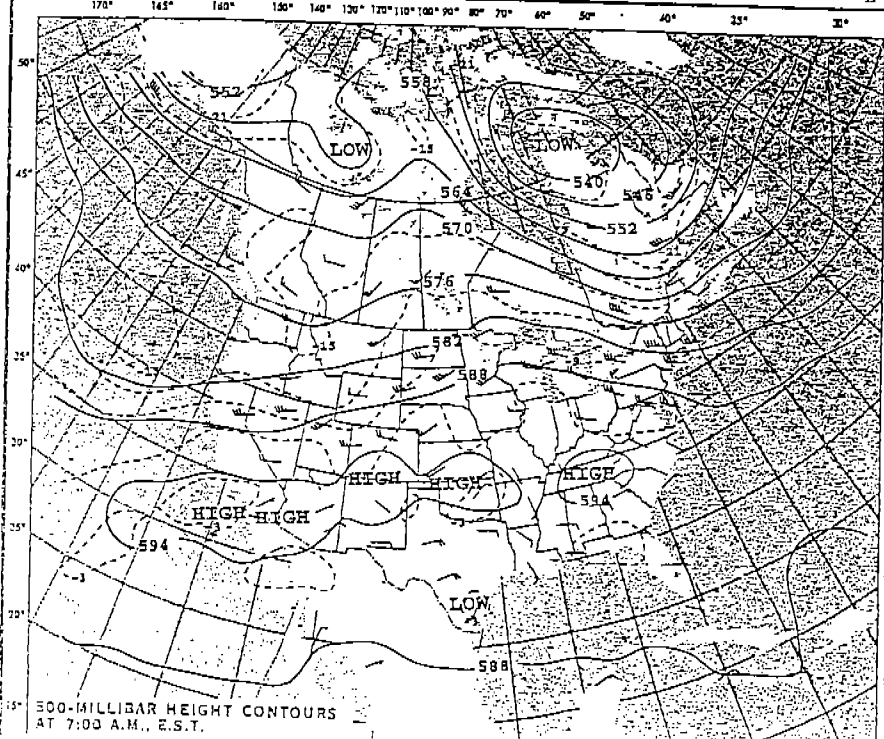
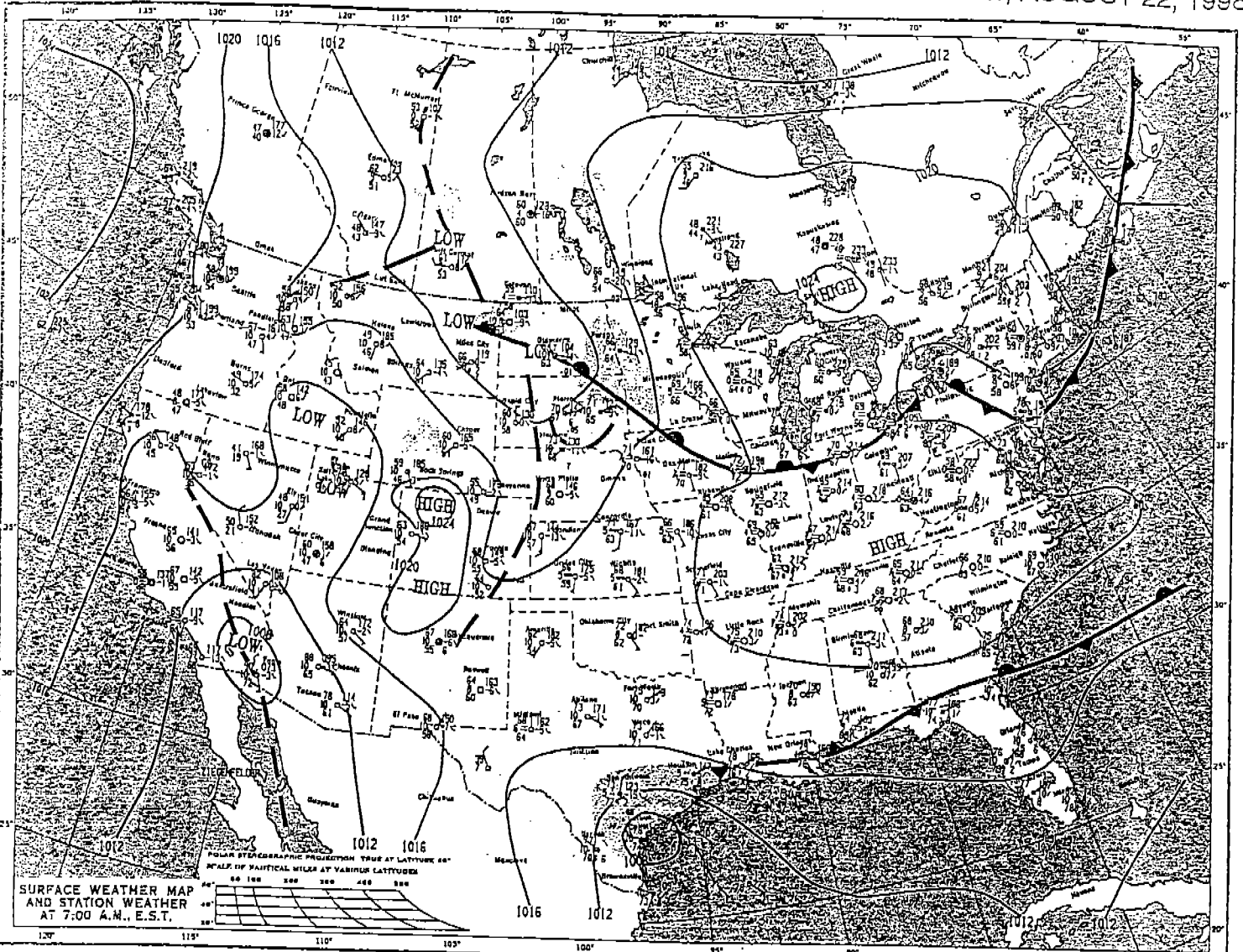
Source Location * at 35.58 N 77.60 W



EDAS Meteorological Data
Vertical Motion Method - OMEGA



SATURDAY, AUGUST 22, 1998





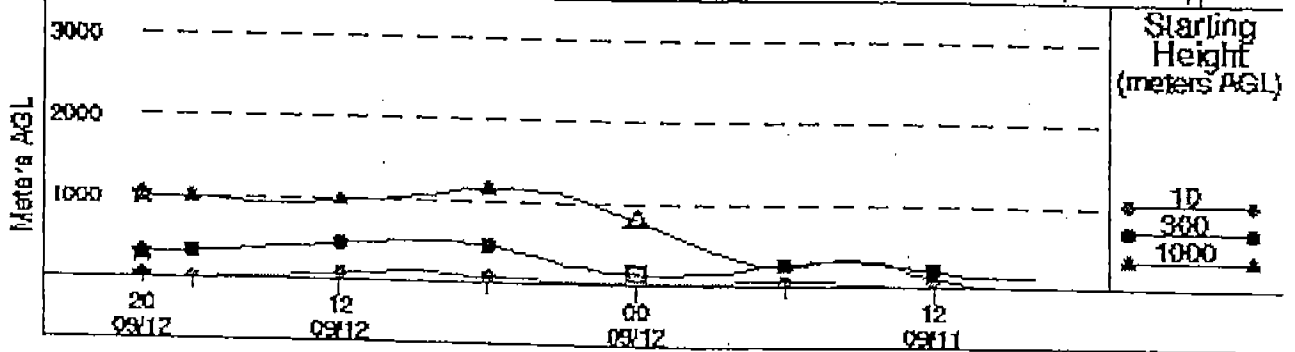
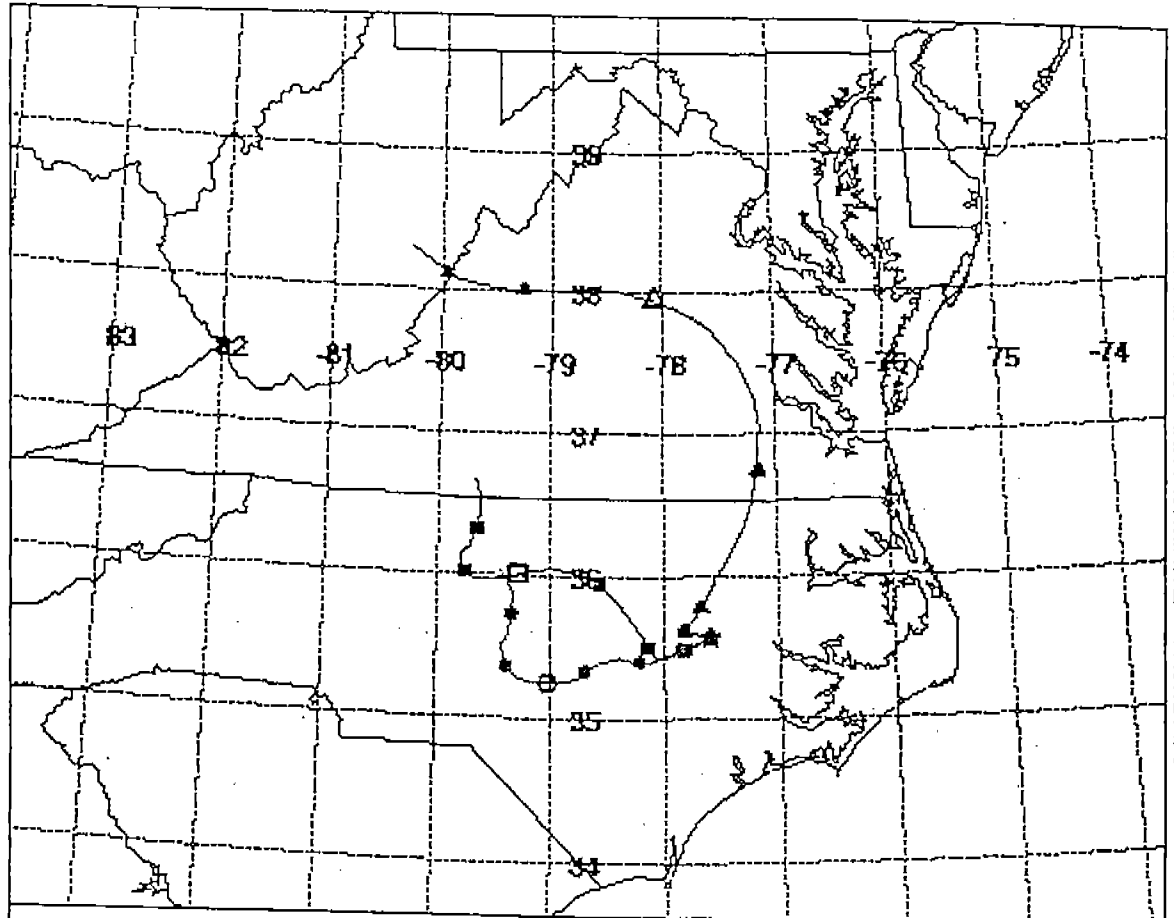
NOAA Air Resources Laboratory

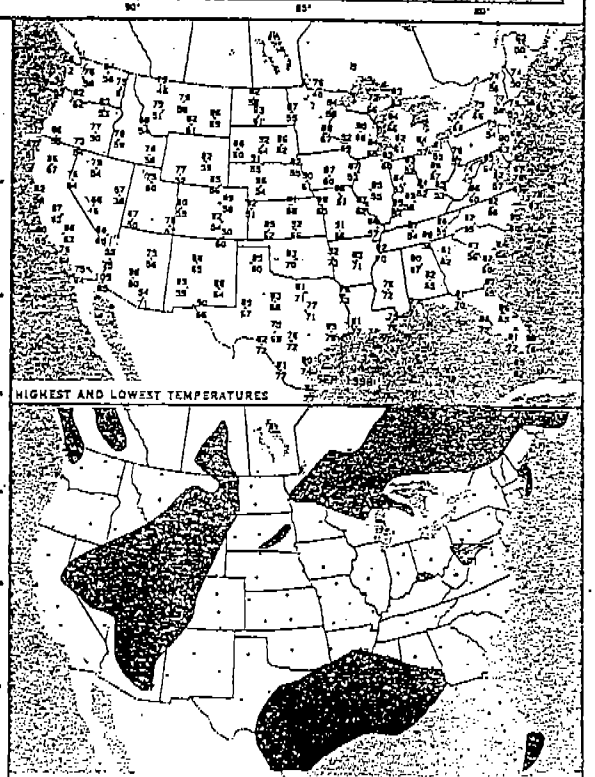
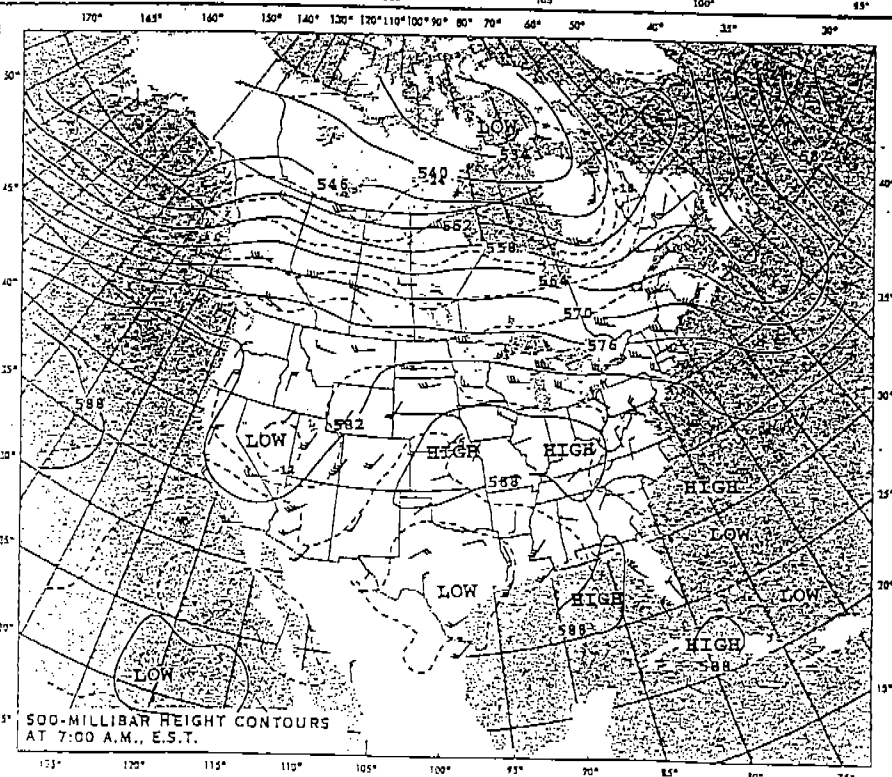
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NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 20 UTC 12 SEP 98

Source Location * at 35.58 N 77.60 W

EDAS Meteorological Data
Vertical Motion Method - OMEGA







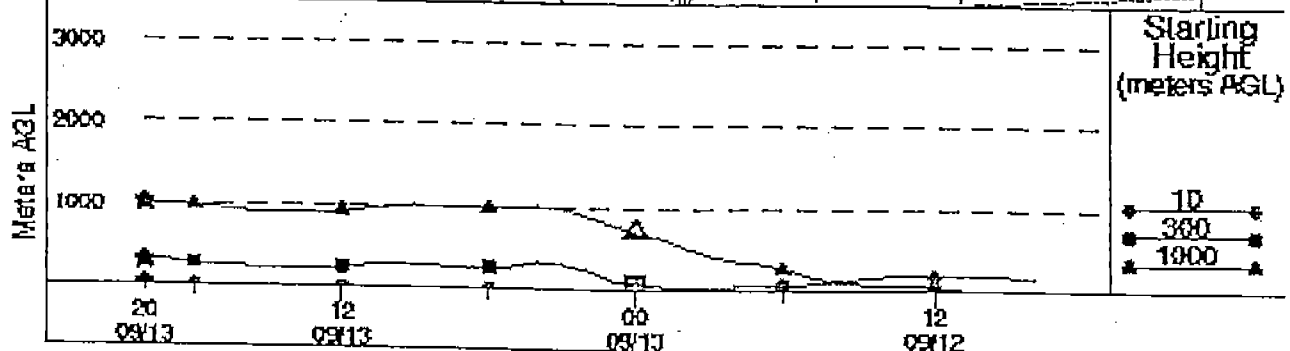
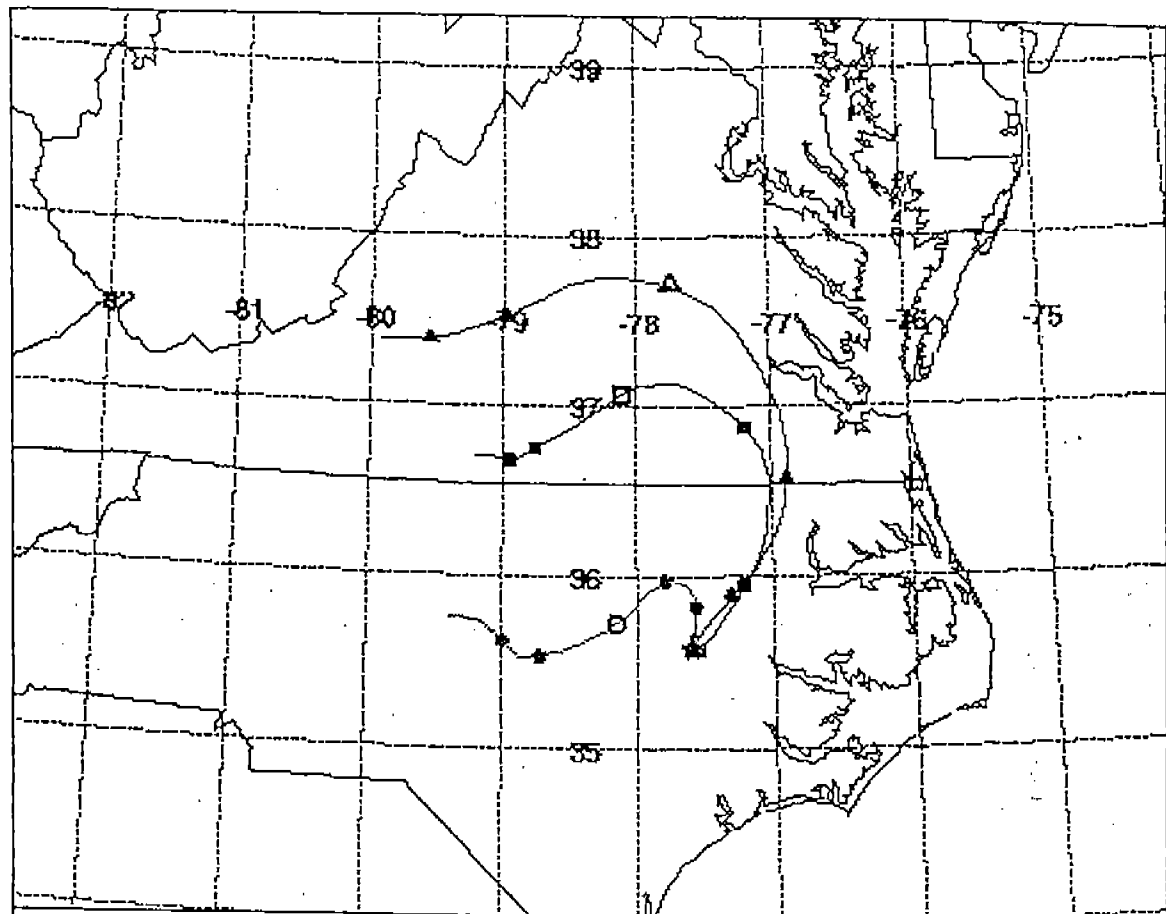
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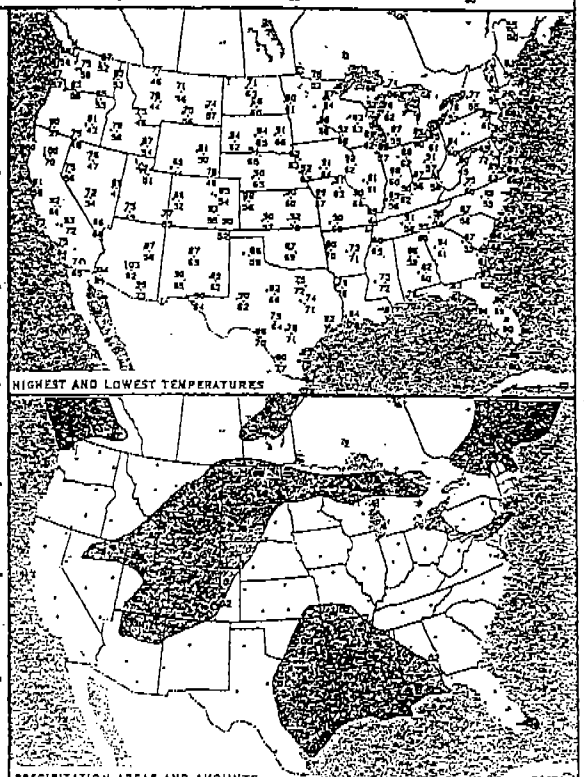
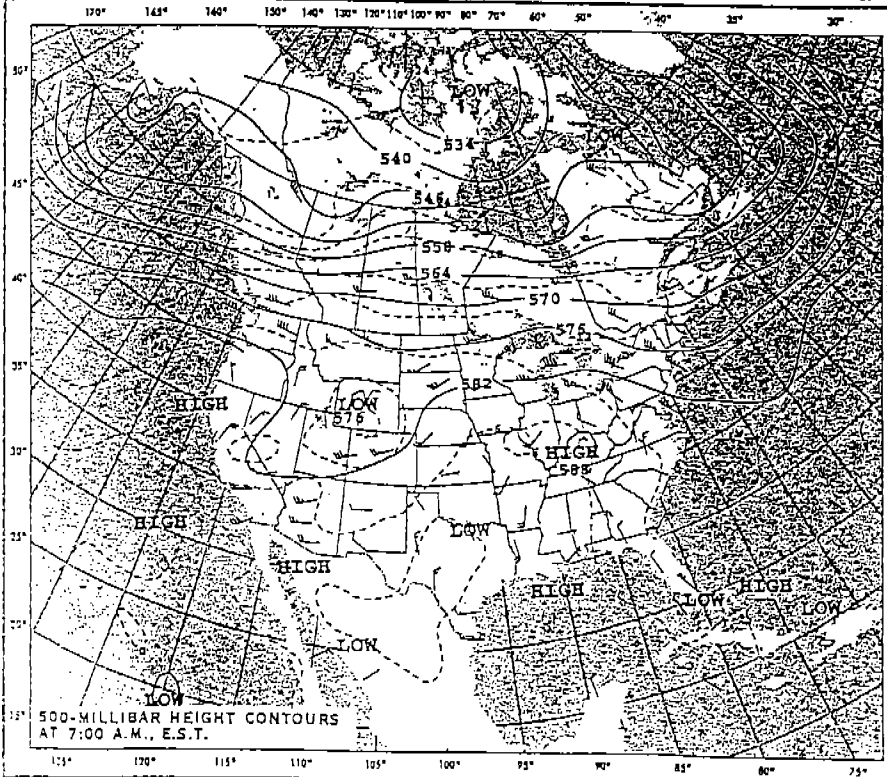
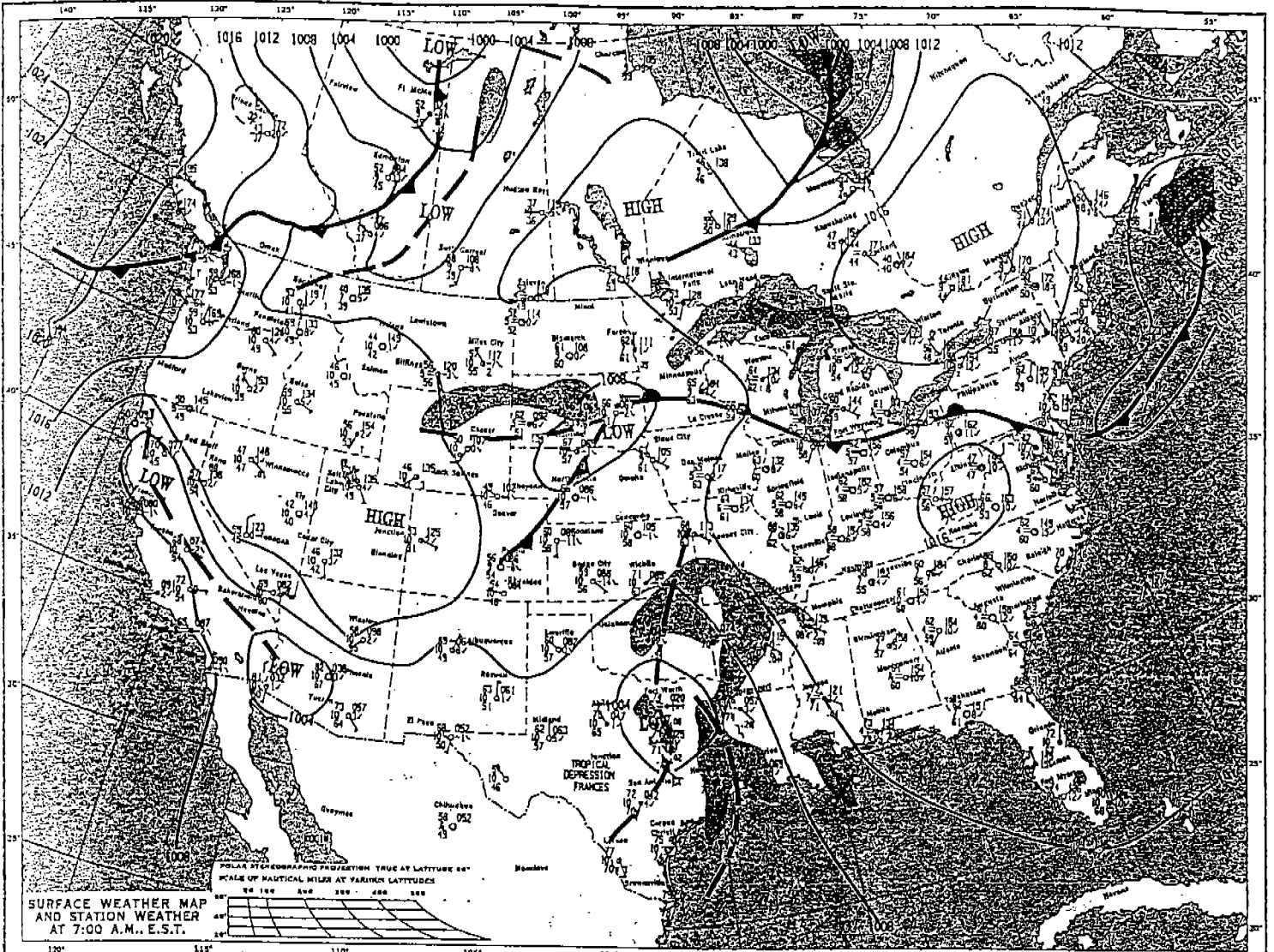
NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending 20 UTC 13 SEP 98

Source Location ★ at 35.58 N 77.60 W

EDAS Meteorological Data
Vertical Motion Method - OMEGA



SUNDAY, SEPTEMBER 13, 1998



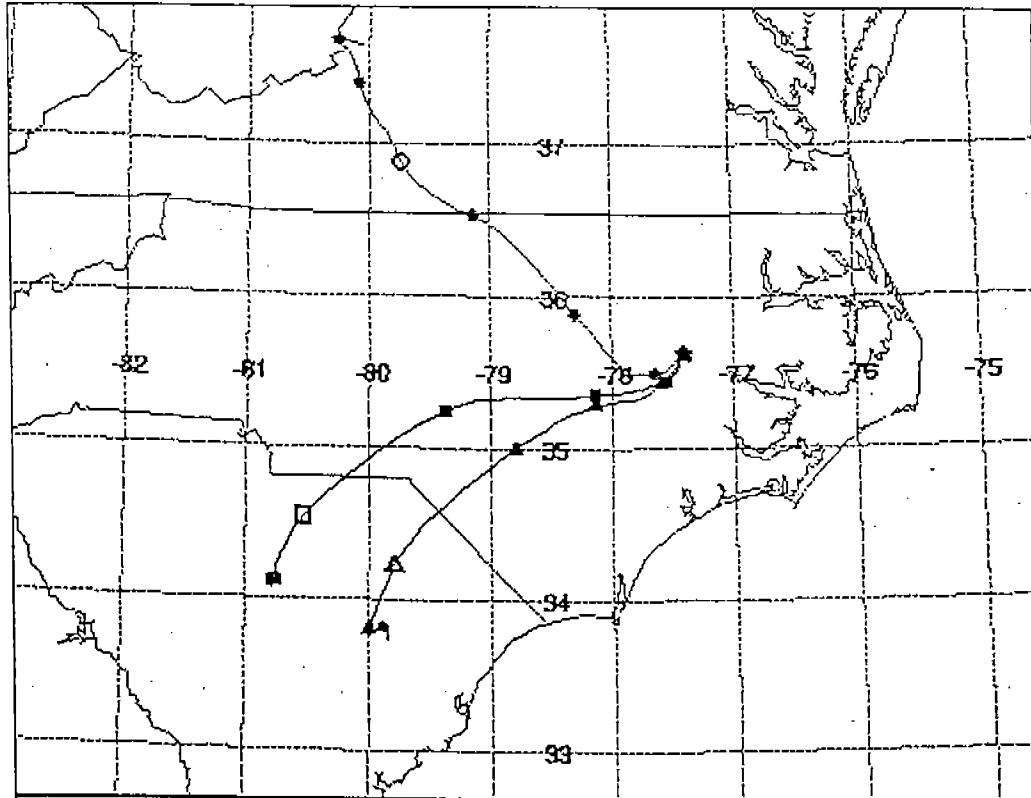


NOAA Air Resources Laboratory

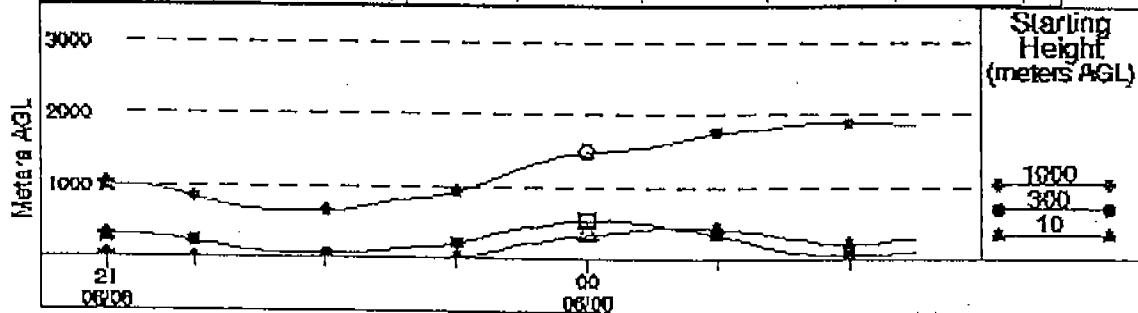
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NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 21 UTC 08 JUN 99

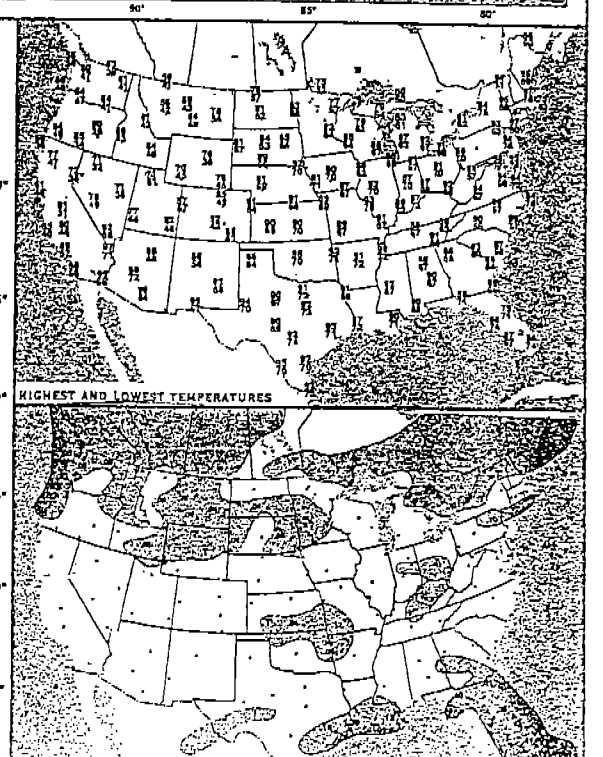
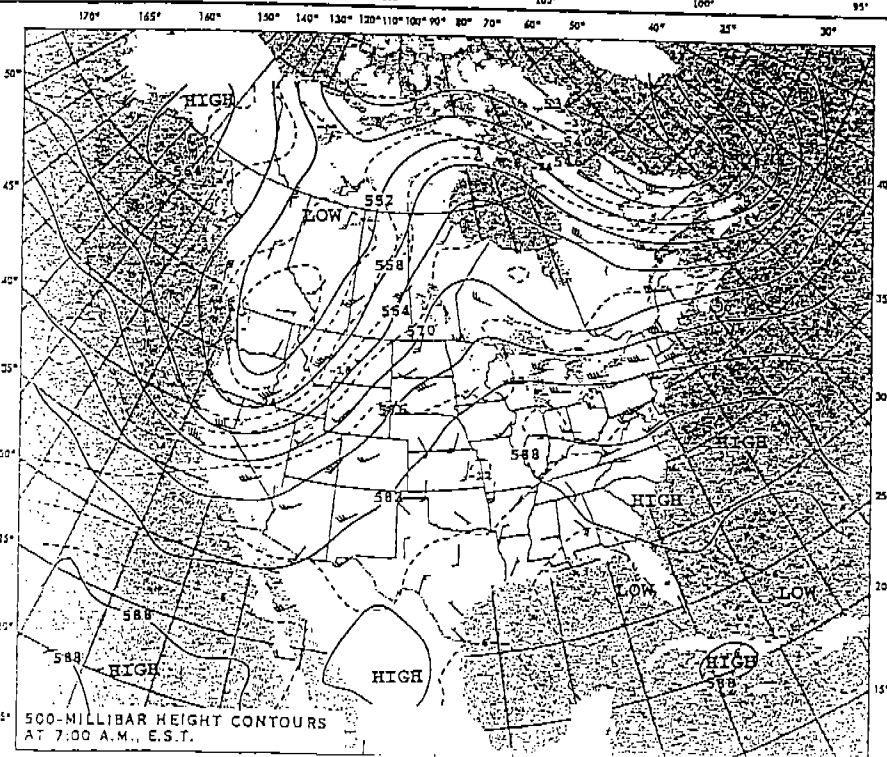
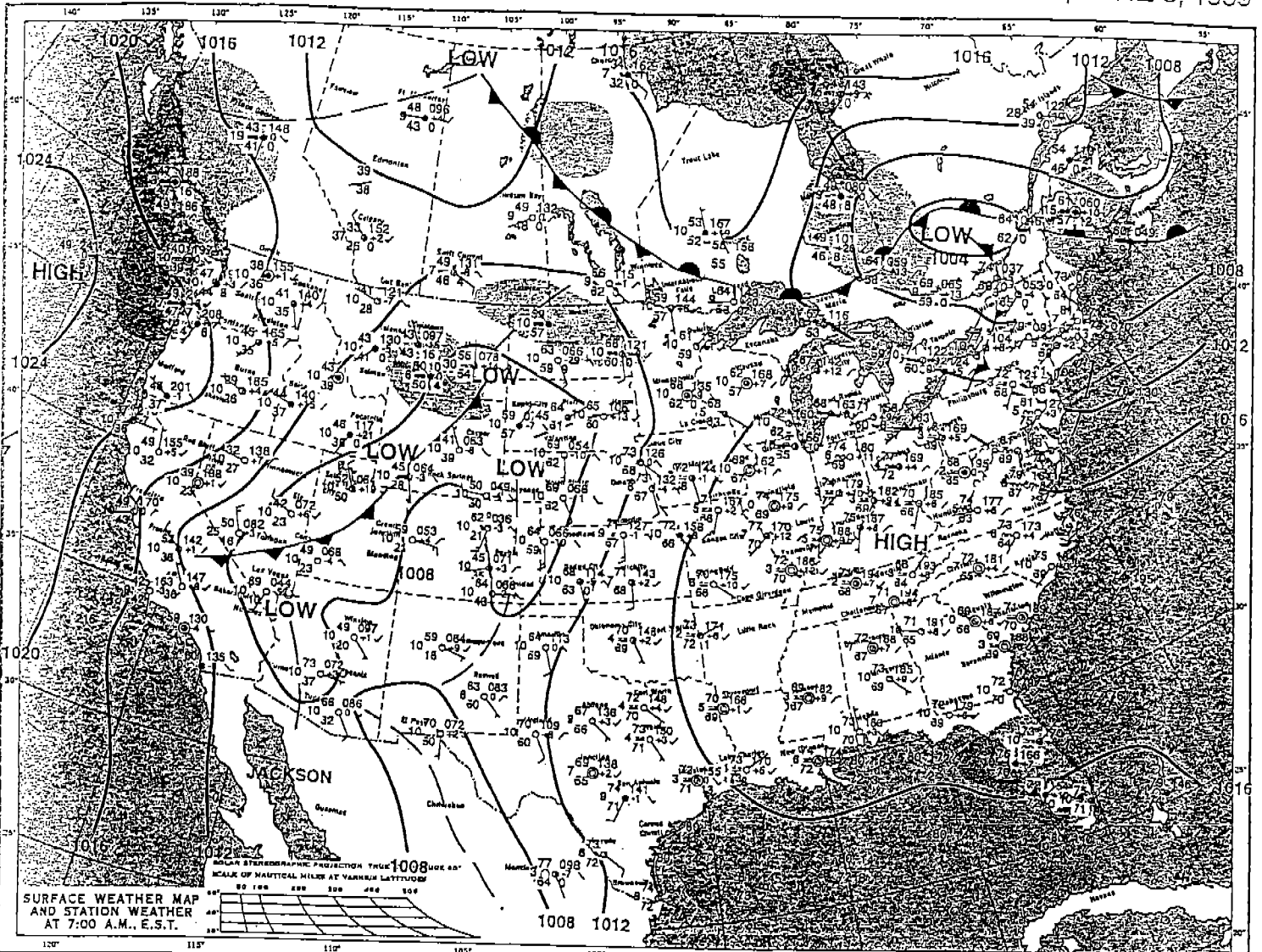
Source Location * at 35.63 N 77.40 W



EDAS Meteorological Data
Vertical Motion Method - OMEGA



TUESDAY, JUNE 8, 1999



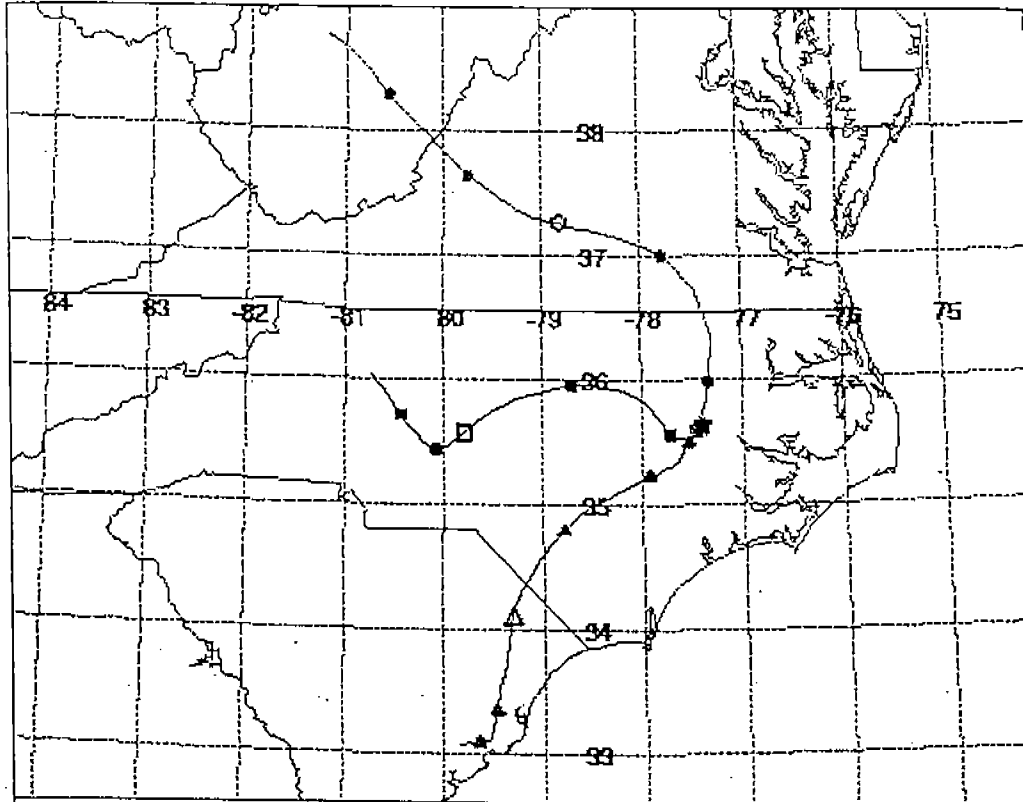


NOAA Air Resources Laboratory

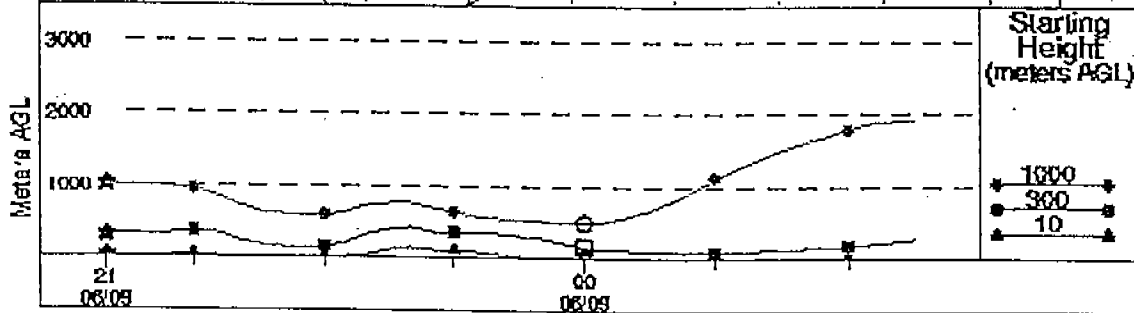
This product was produced by an Internet user on the NOAA Air Resources Laboratory's web site. See the disclaimer for further information (<http://www.arl.noaa.gov/ready/disclaim.html>).

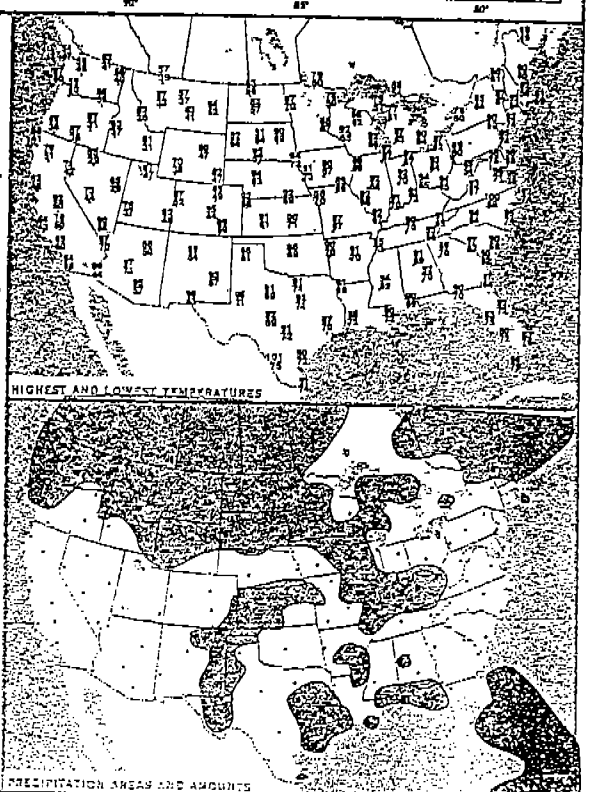
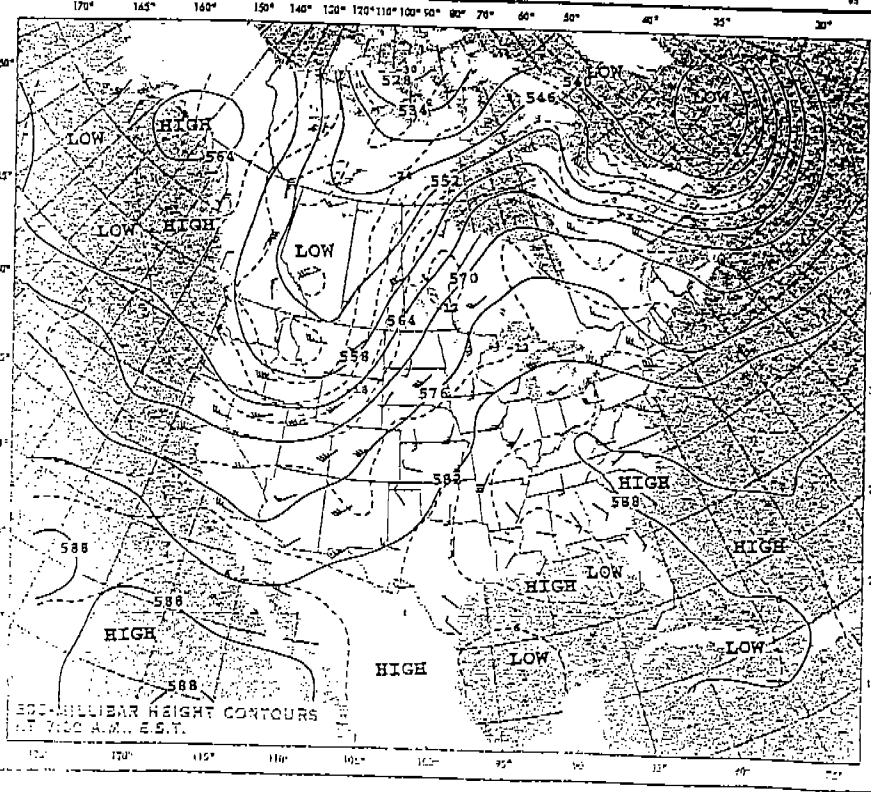
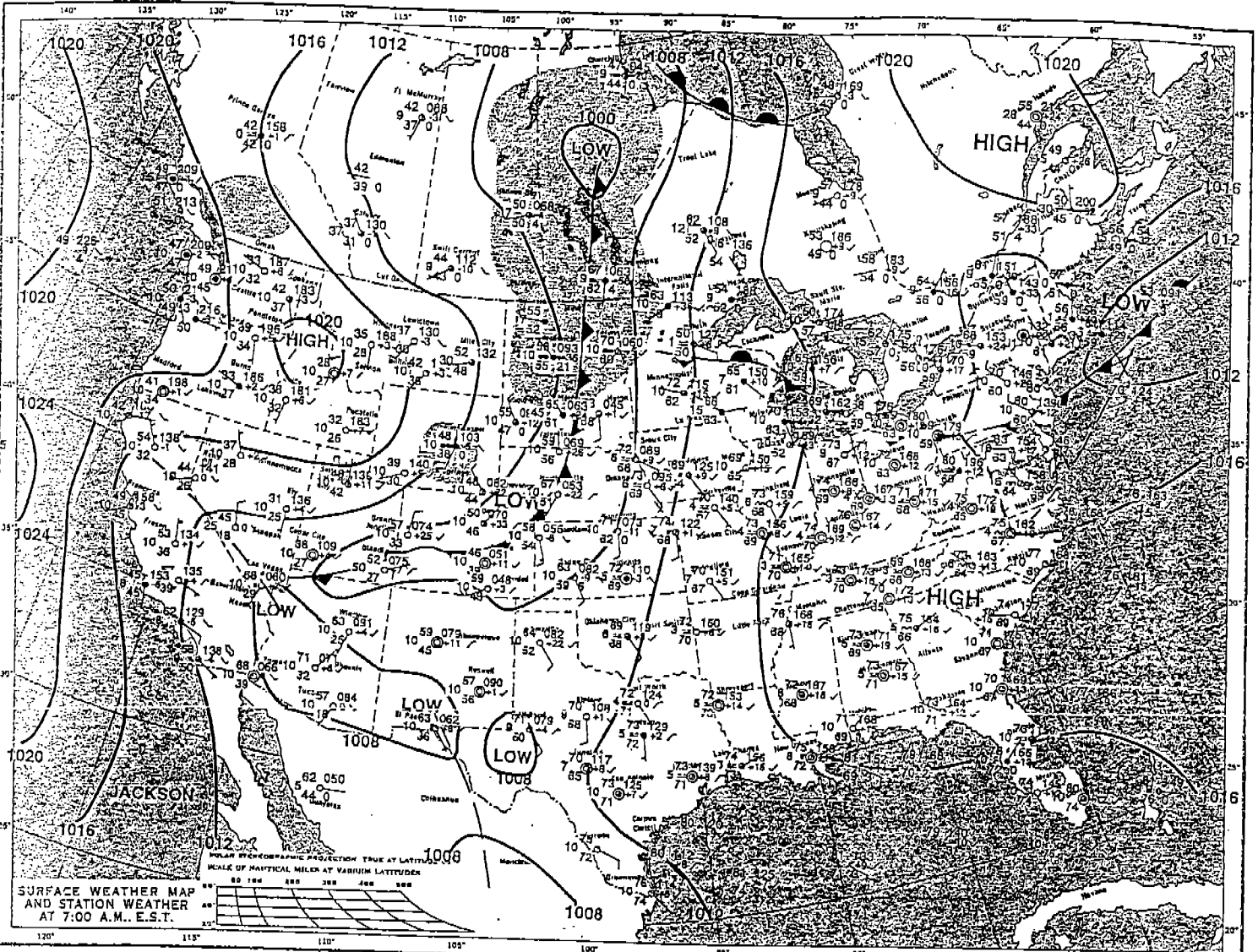
NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 21 UTC 09 JUN 99

Source Location ★ at 35.63 N 77.40 W



EDAS Meteorological Data
Vertical Motion Method - OMEGA





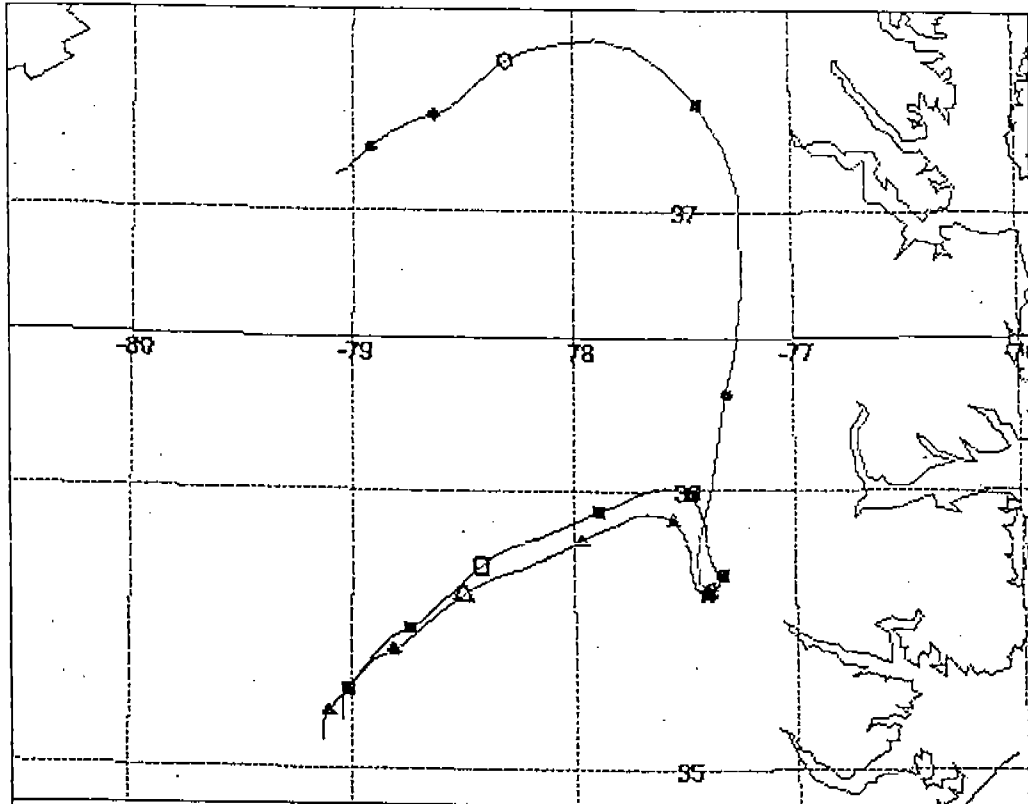


NOAA Air Resources Laboratory

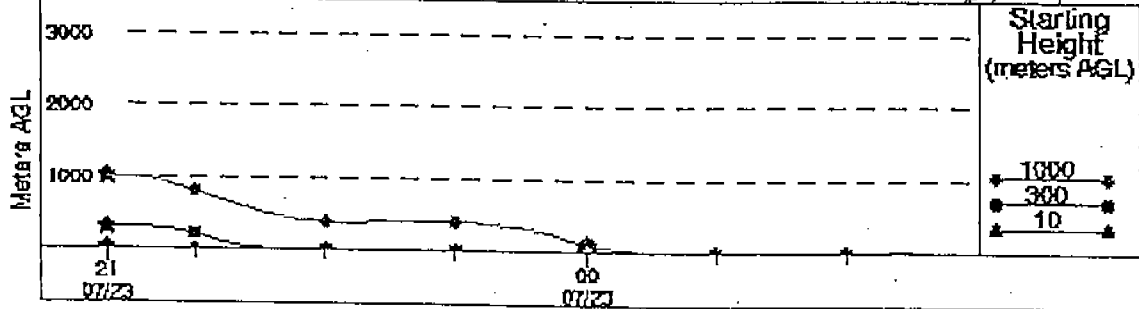
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NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 21 UTC 23 JUL 99

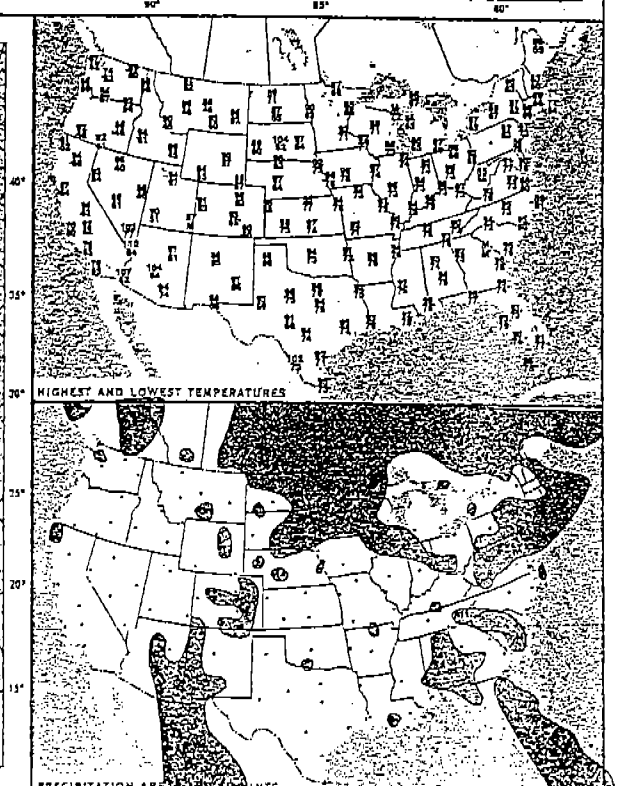
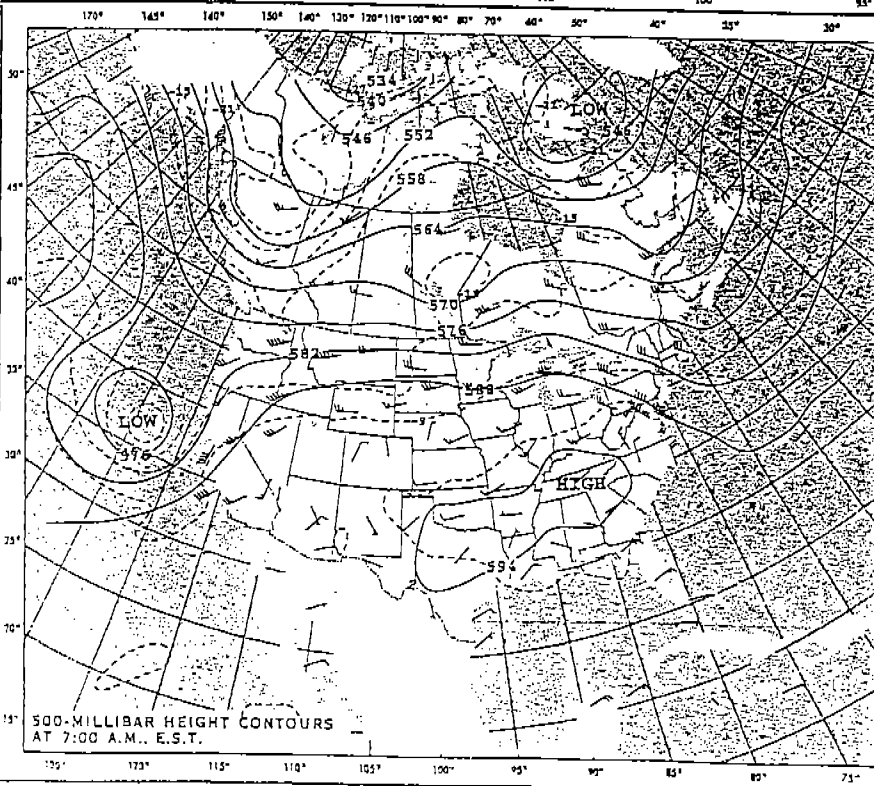
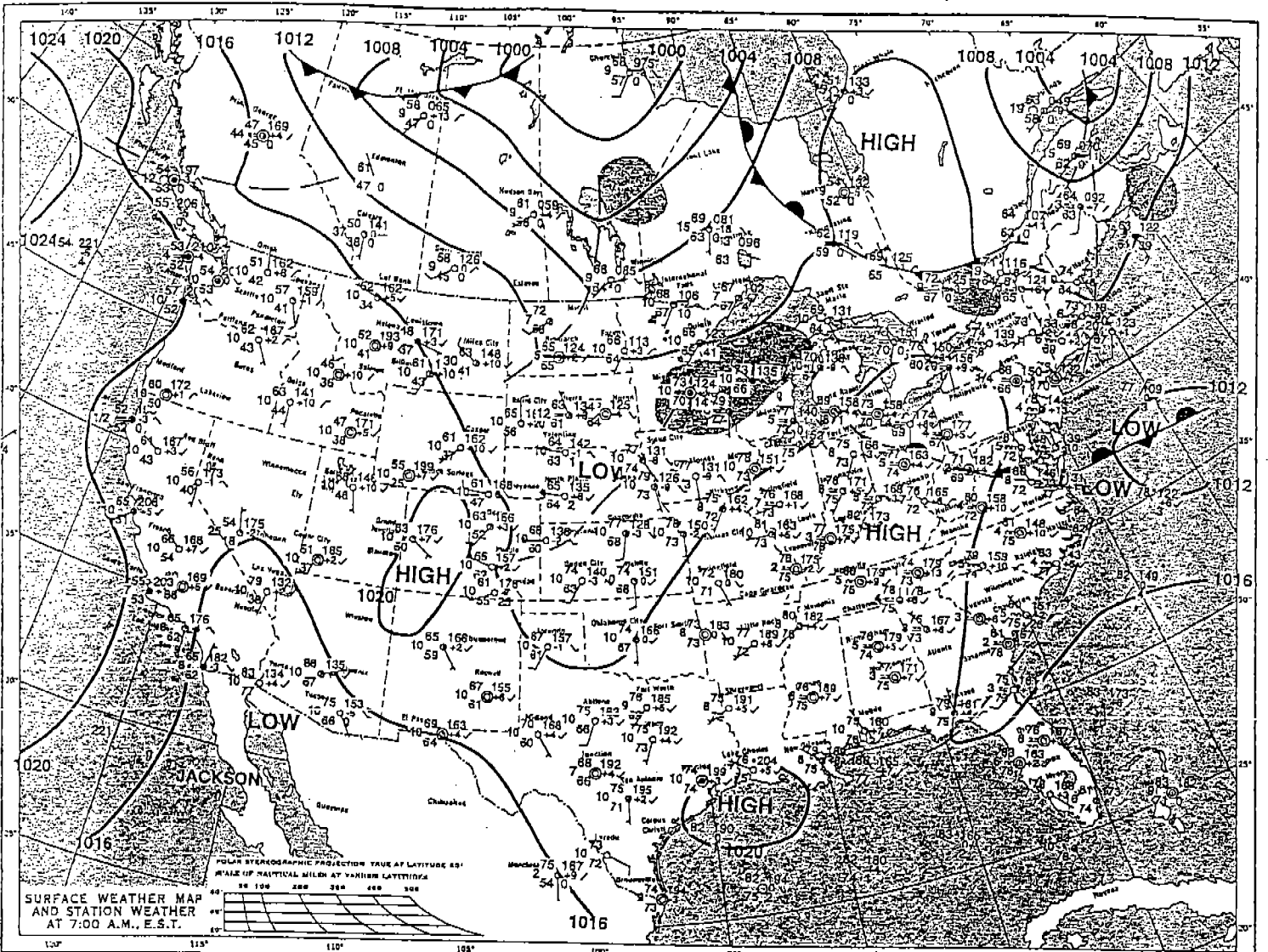
Source Location * at 35.63 N 77.40 W



EDAS Meteorological Data
Vertical Motion Method - OMEGA



FRIDAY, JULY 23, 1999



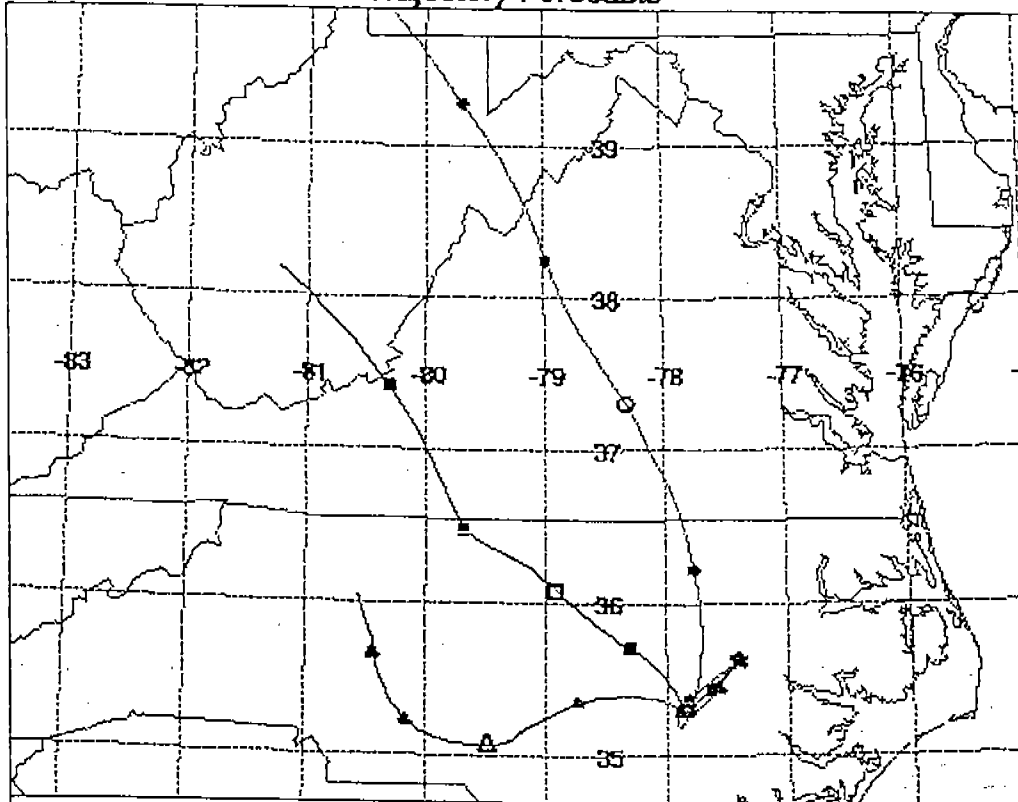


NOAA Air Resources Laboratory

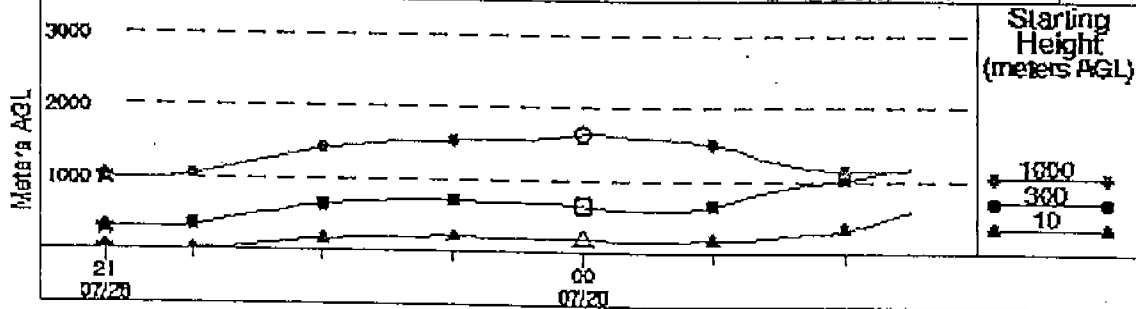
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NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 21 UTC 28 JUL 99 Trajectory Forecasts

Source Location * at 35.63 N 77.40 W

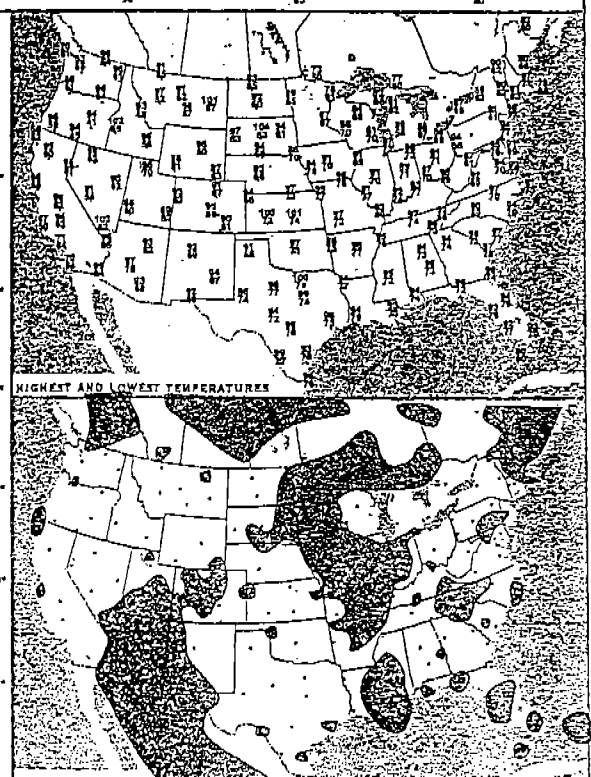
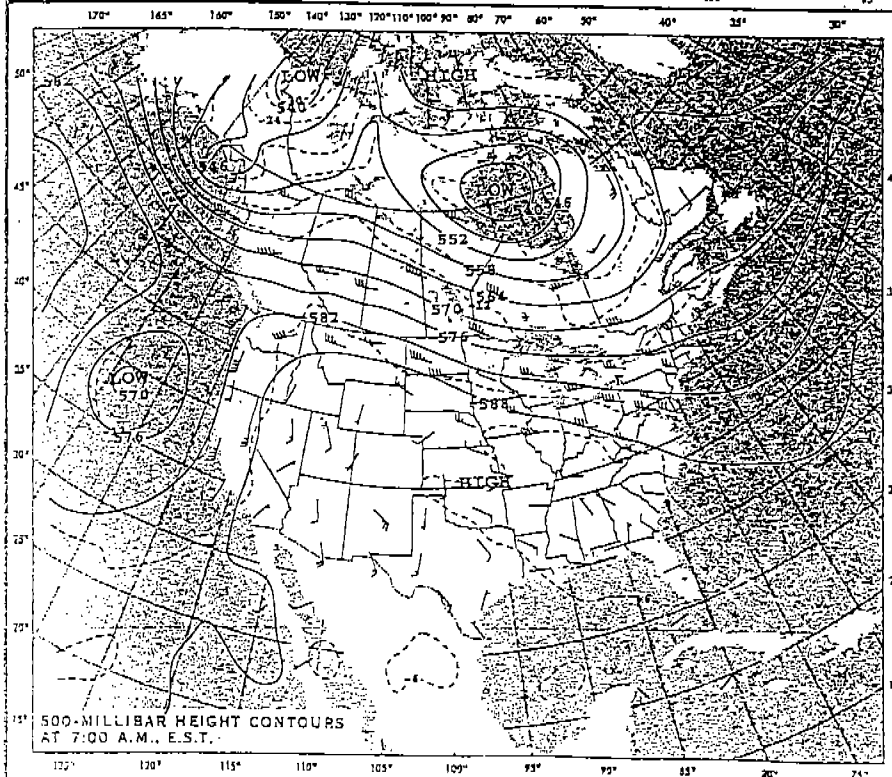


21 UTC 28 JUL EDAS Forecast Initialization
Vertical Motion Method - OMEGA



Starting Height (meters AGL)

1000
300
10



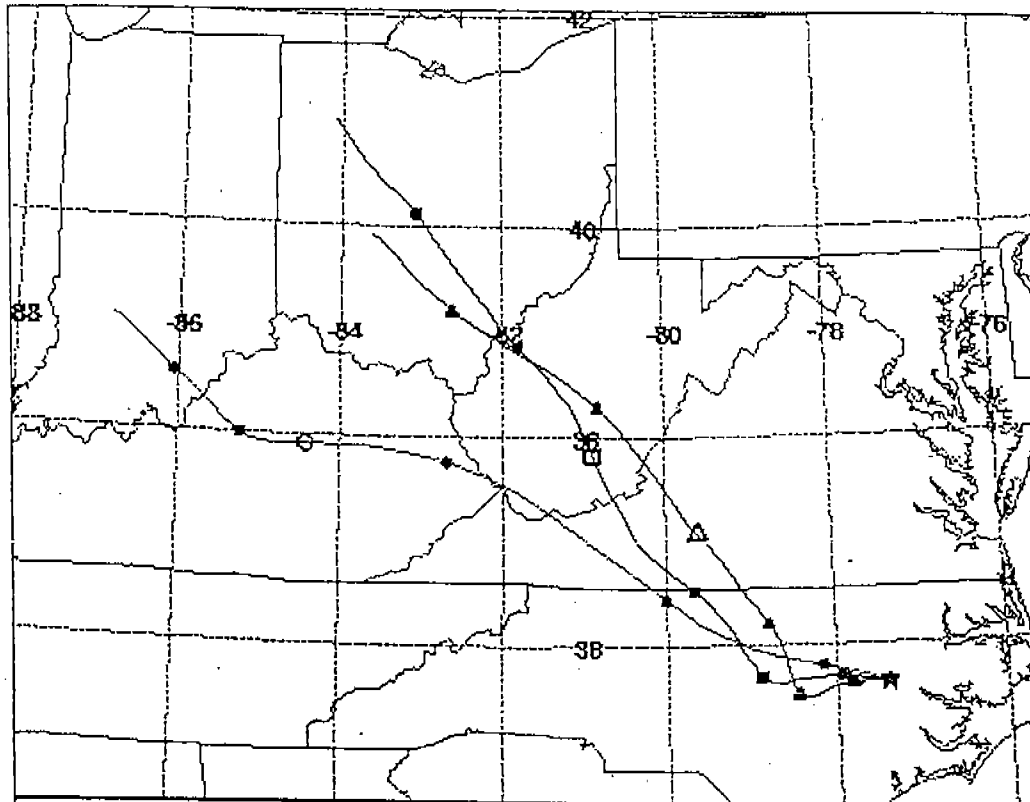


NOAA Air Resources Laboratory

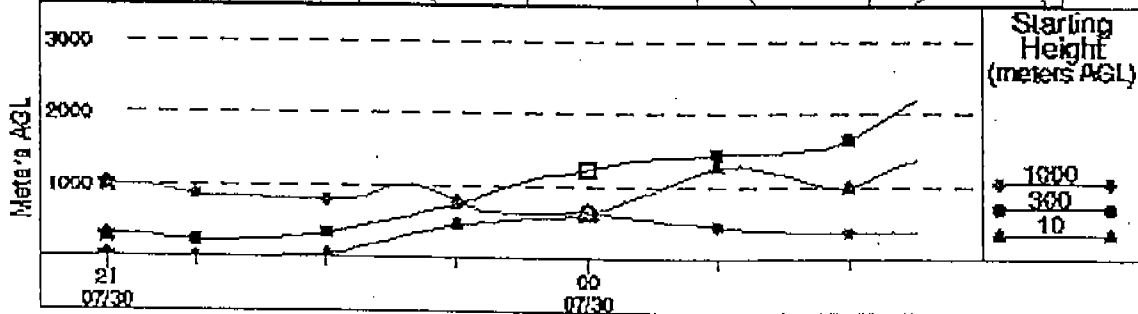
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NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 21 UTC 30 JUL 99

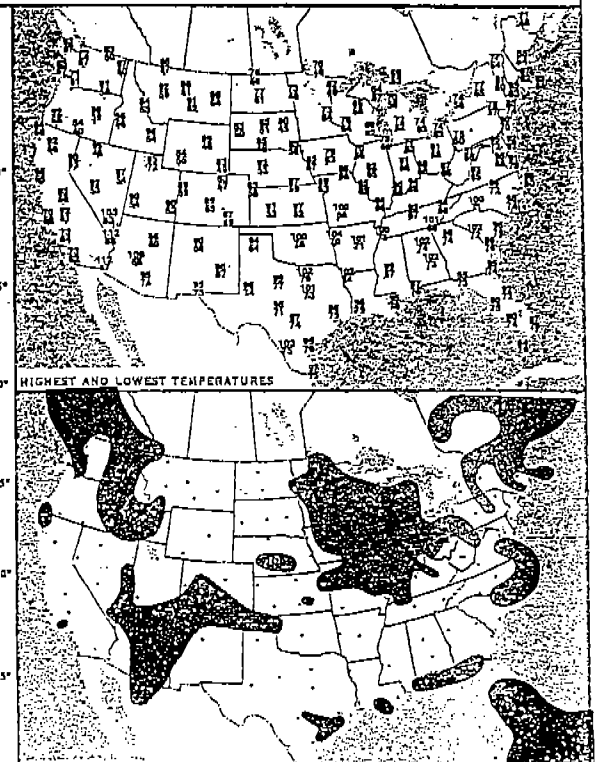
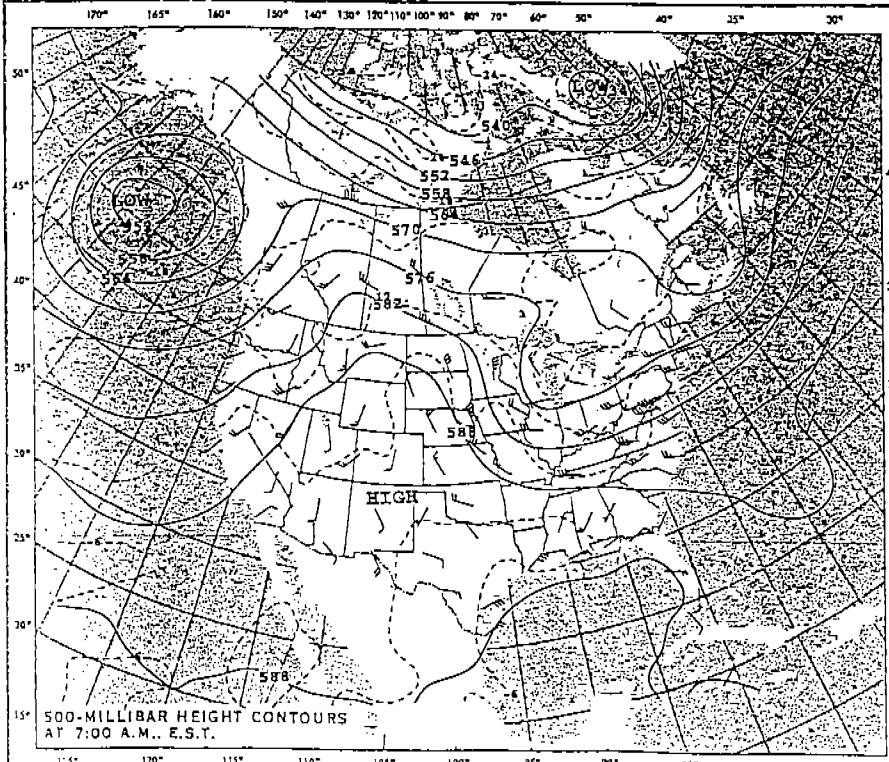
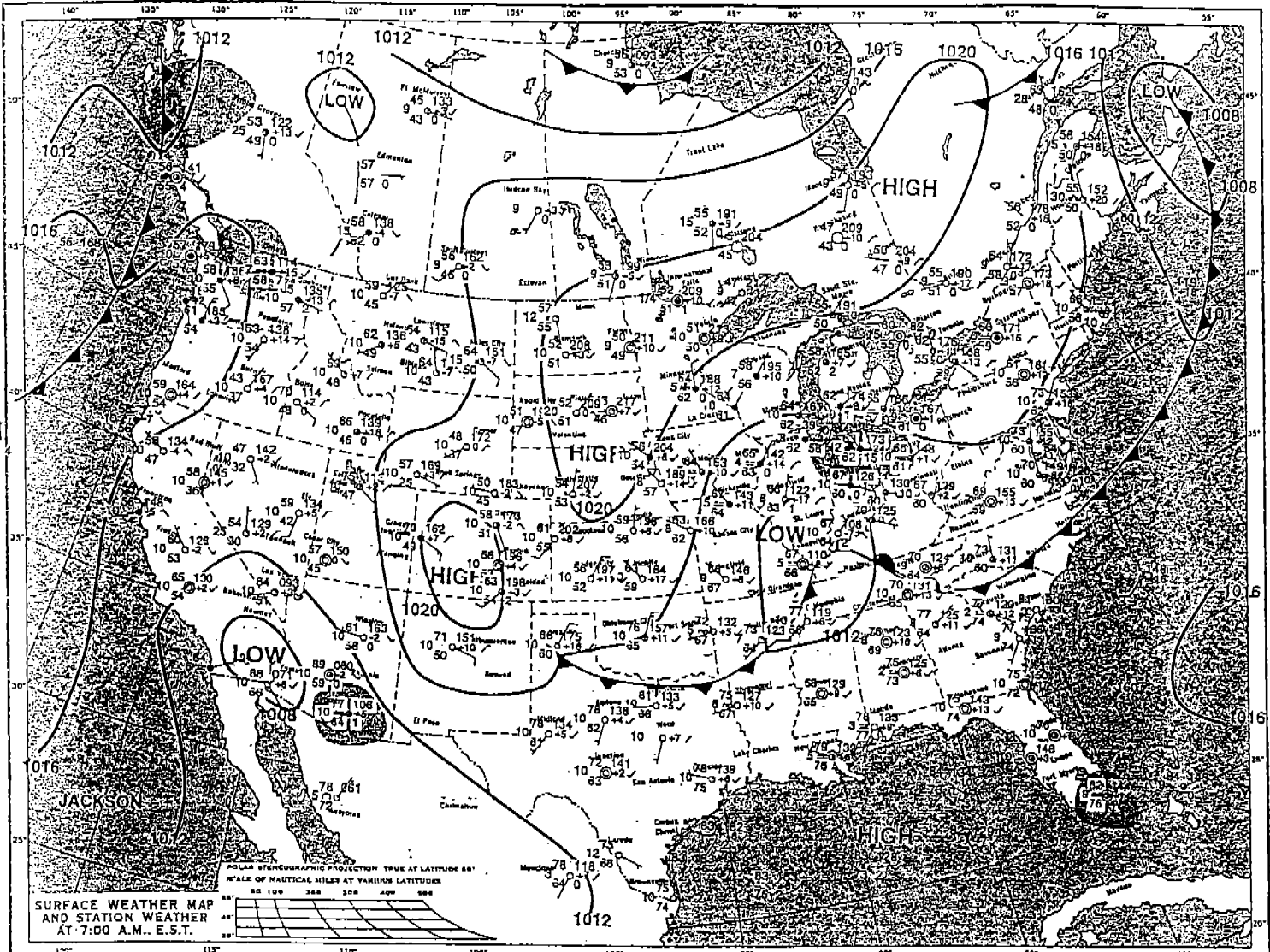
Source Location * at 35.63 N 77.40 W

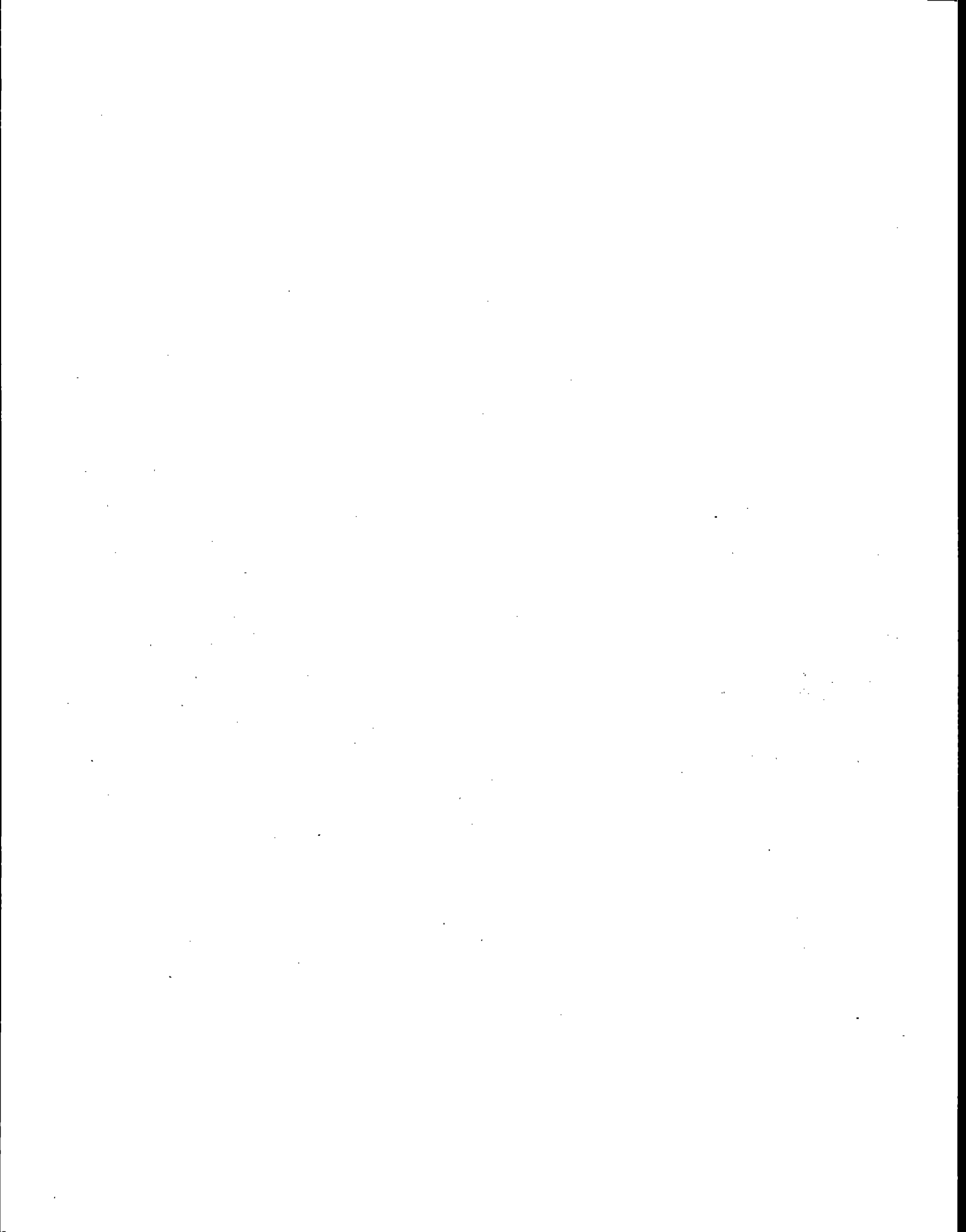


EDAS Meteorological Data
Vertical Motion Method - OMEGA



THURSDAY, AUGUST 19, 1999





Ozone Exceedence Day Back Trajectories

Monitor Site: Gaston
Monitor ID: 371310002
Latitude: 36.48N
Longitude: -77.61W

Back Trajectory Model: HYSPLIT4
Archived Meteorological Dataset: EDAS
Vertical Motion Scheme: Model Vertical Velocity
Back Trajectory Duration: 36 Hours
Trajectory End Time: 20 UTC
Trajectory Heights: 1000m
300m
10m

Total 1997 8-Hour Ozone Exceedences:
5

1997 Ozone Exceedence Dates:
May –
June – 25
July – 13, 14, & 15
August – 2
September –

Total 1998 8-Hour Ozone Exceedences:
6

1998 Ozone Exceedence Dates:
May – 19
June – 3
July –
August – 12 & 22
September – 5 & 13

Total 1999 8-Hour Ozone Exceedences:
9

1999 Ozone Exceedence Dates:
May – 30
June – 7, 9, & 10
July – 6
August – 5, 6, 7, & 18
September –

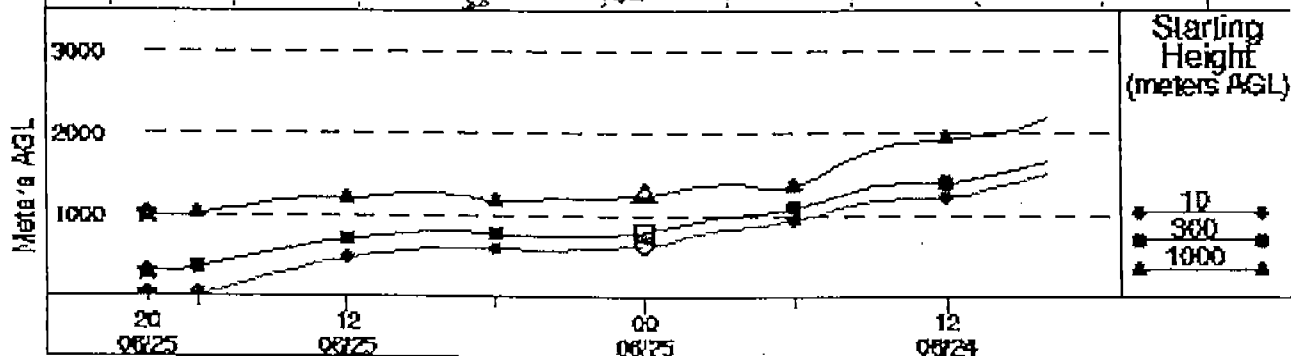
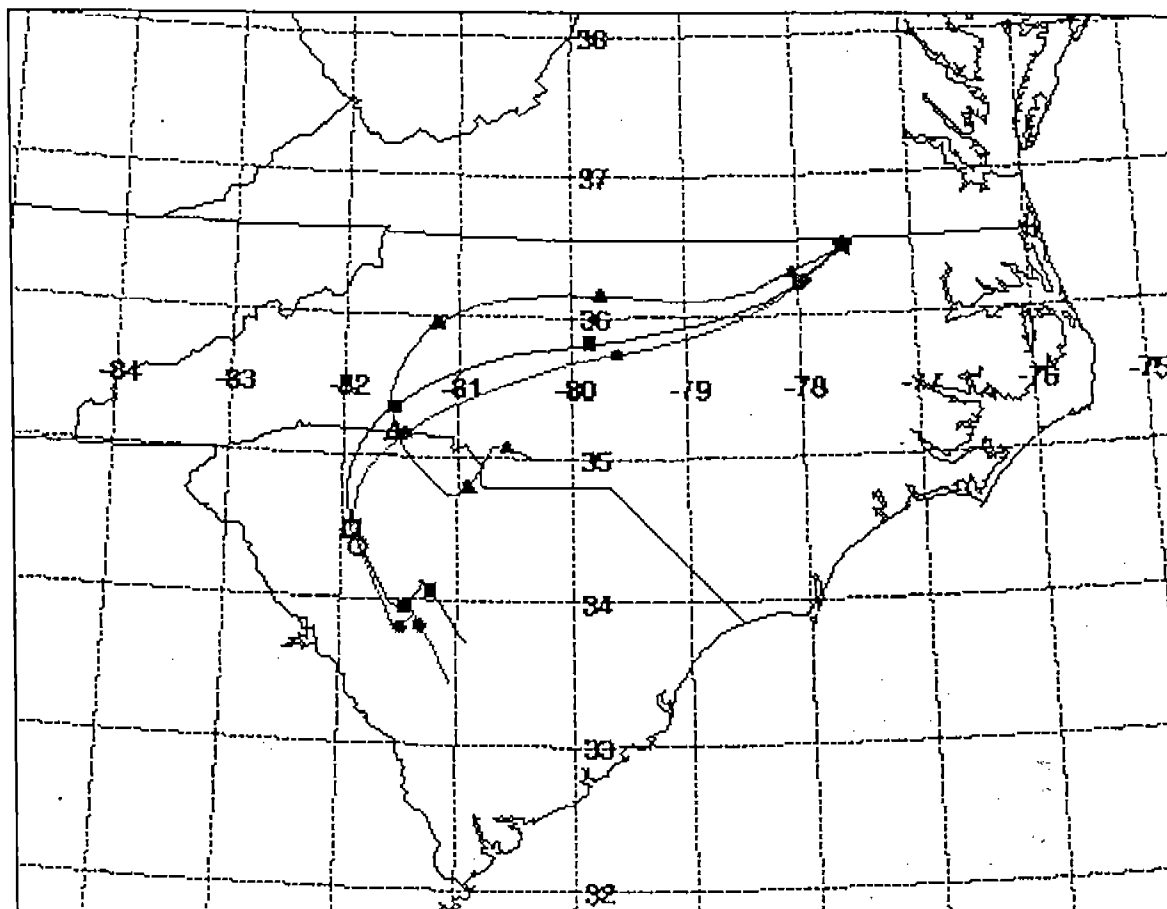


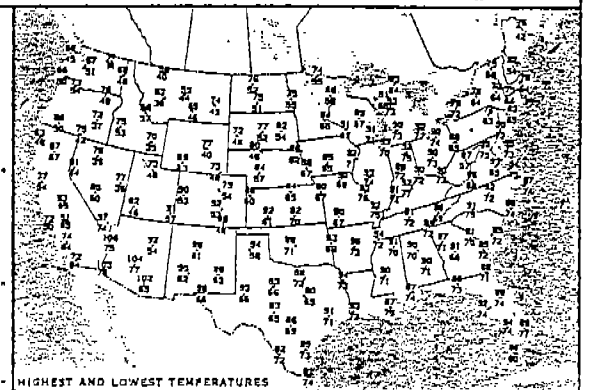
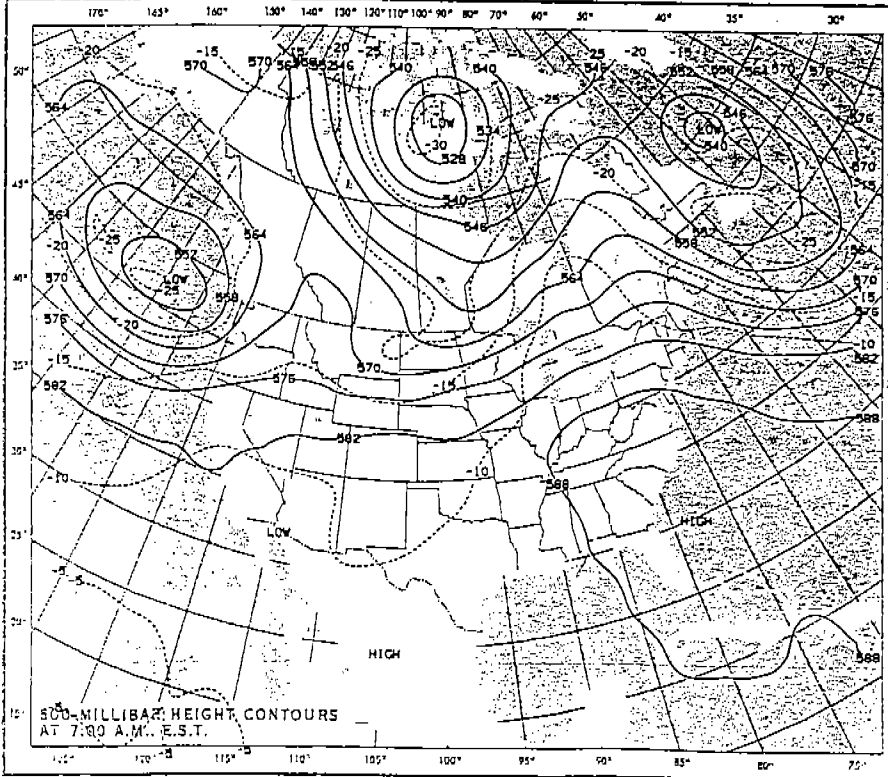
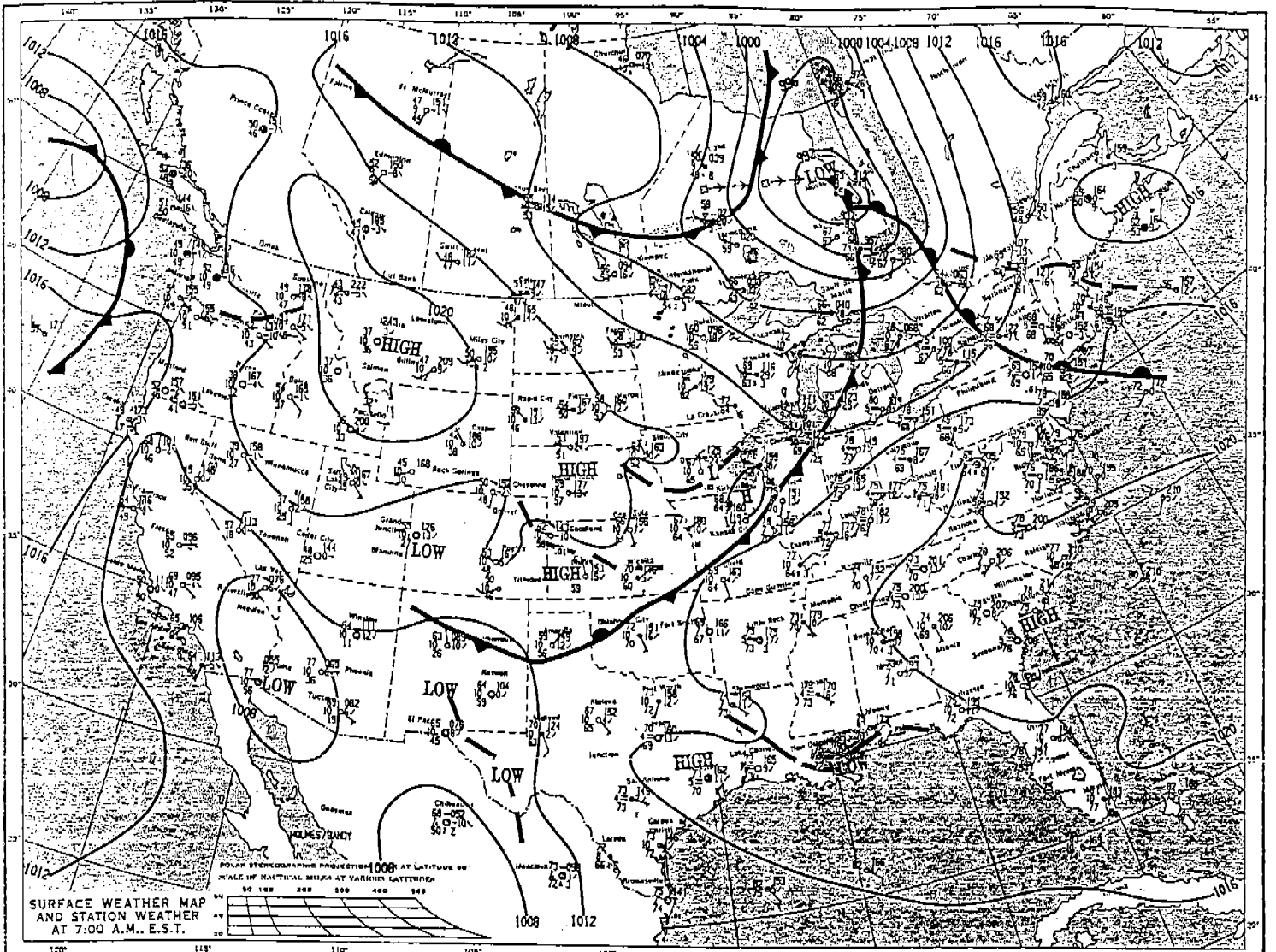
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NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 20 UTC 25 JUN 97

Source Location * at 36.48 N 77.61 W







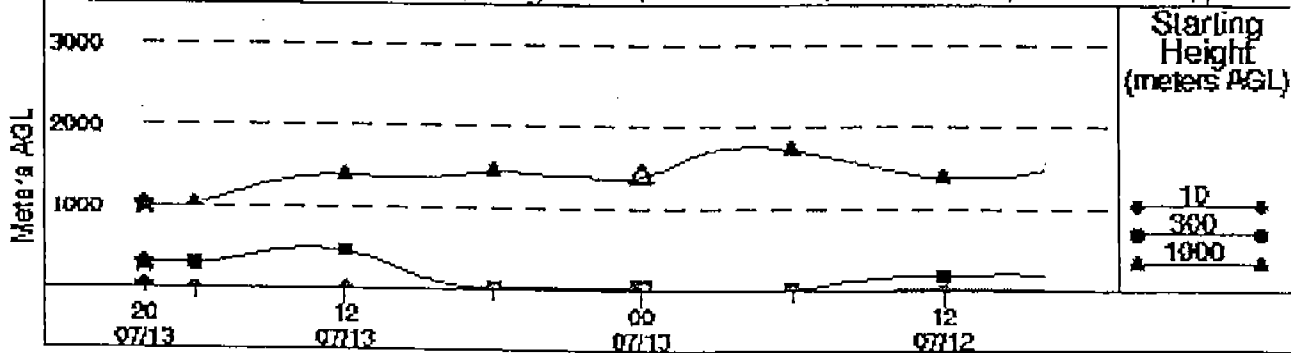
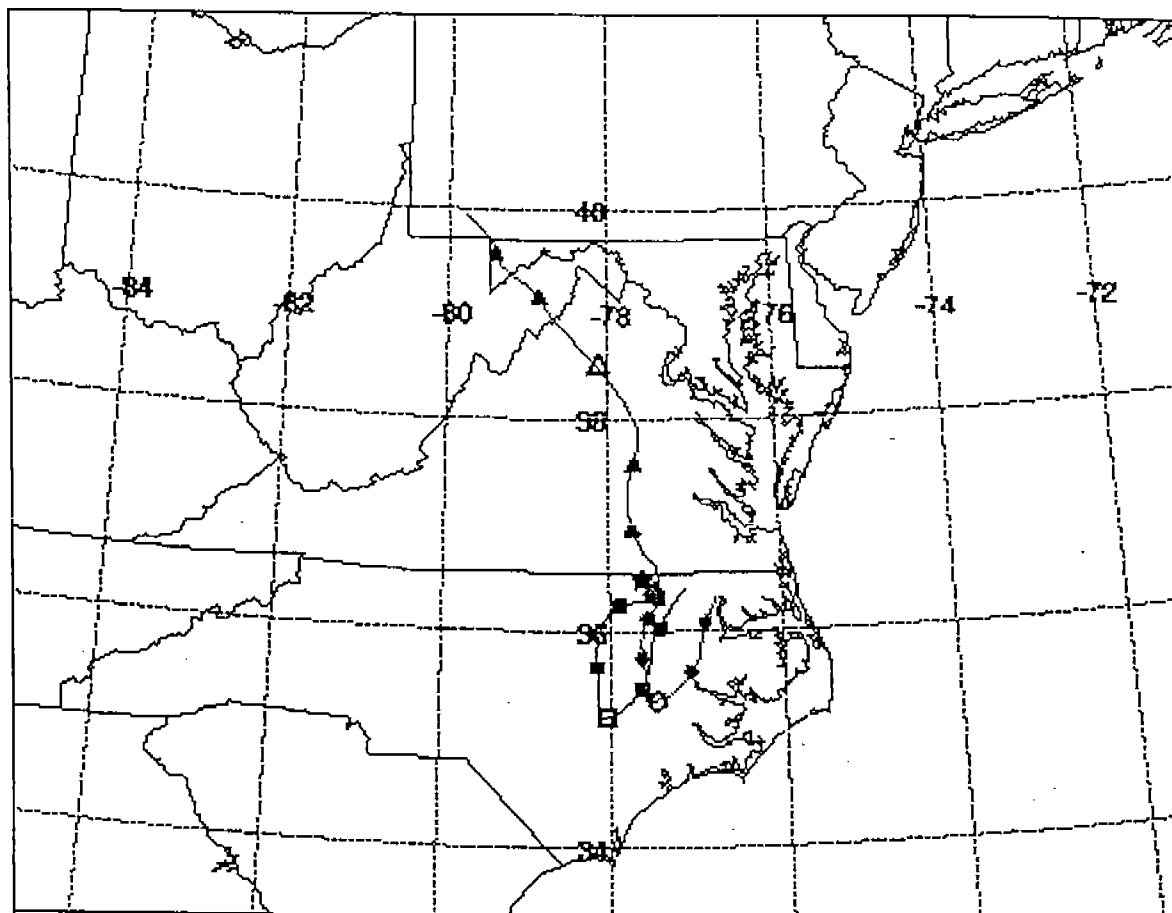
NOAA Air Resources Laboratory

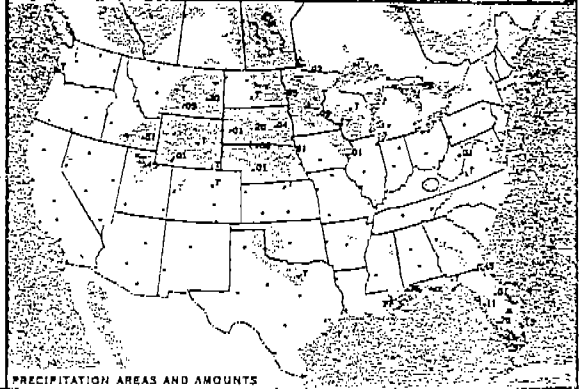
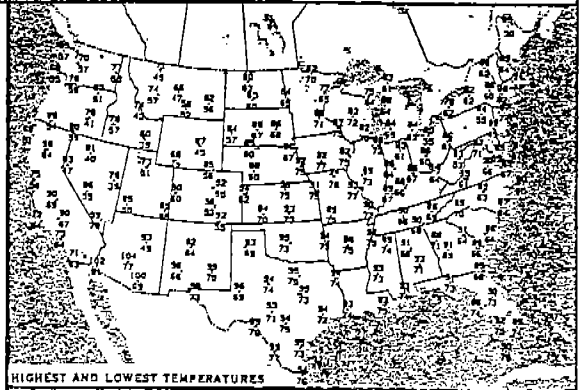
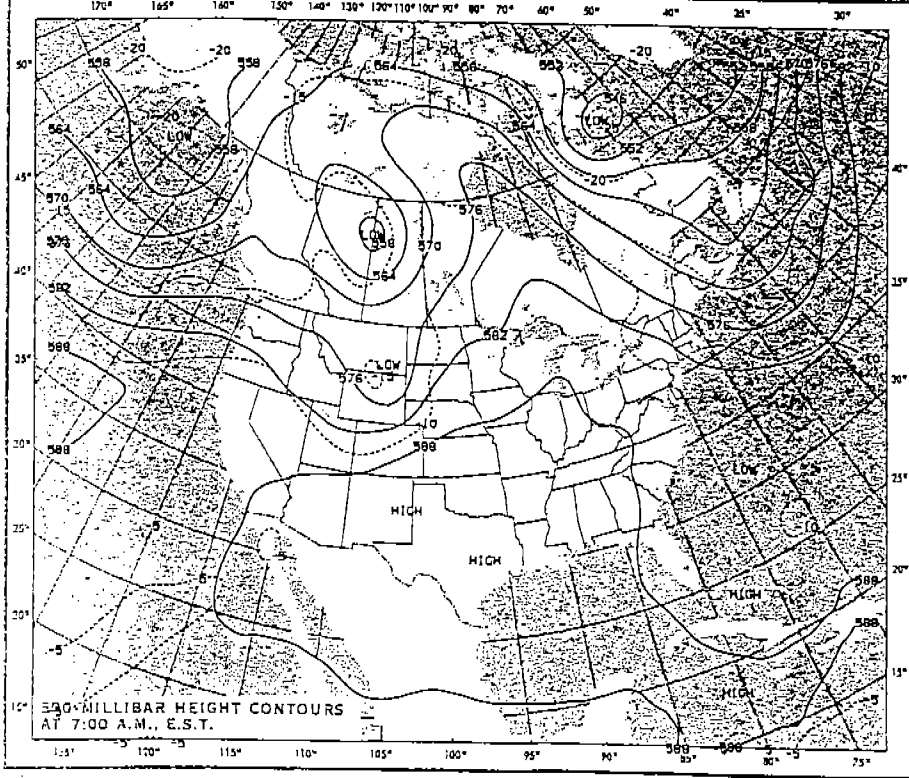
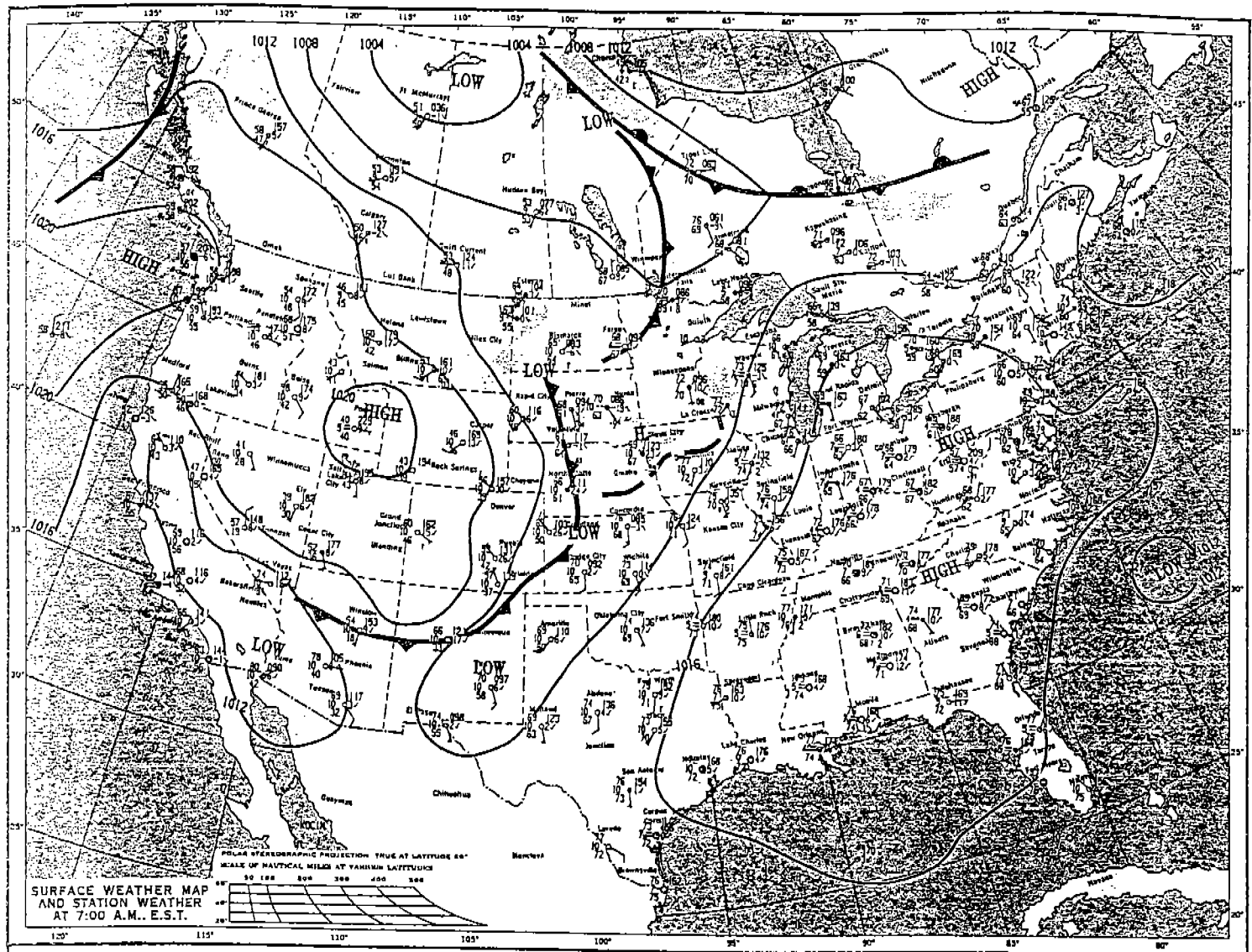
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NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 20 UTC 13 JUL 97

Source Location * at 36.48 N 77.61 W

EDAS Meteorological Data
Vertical Motion Method - OMEGA





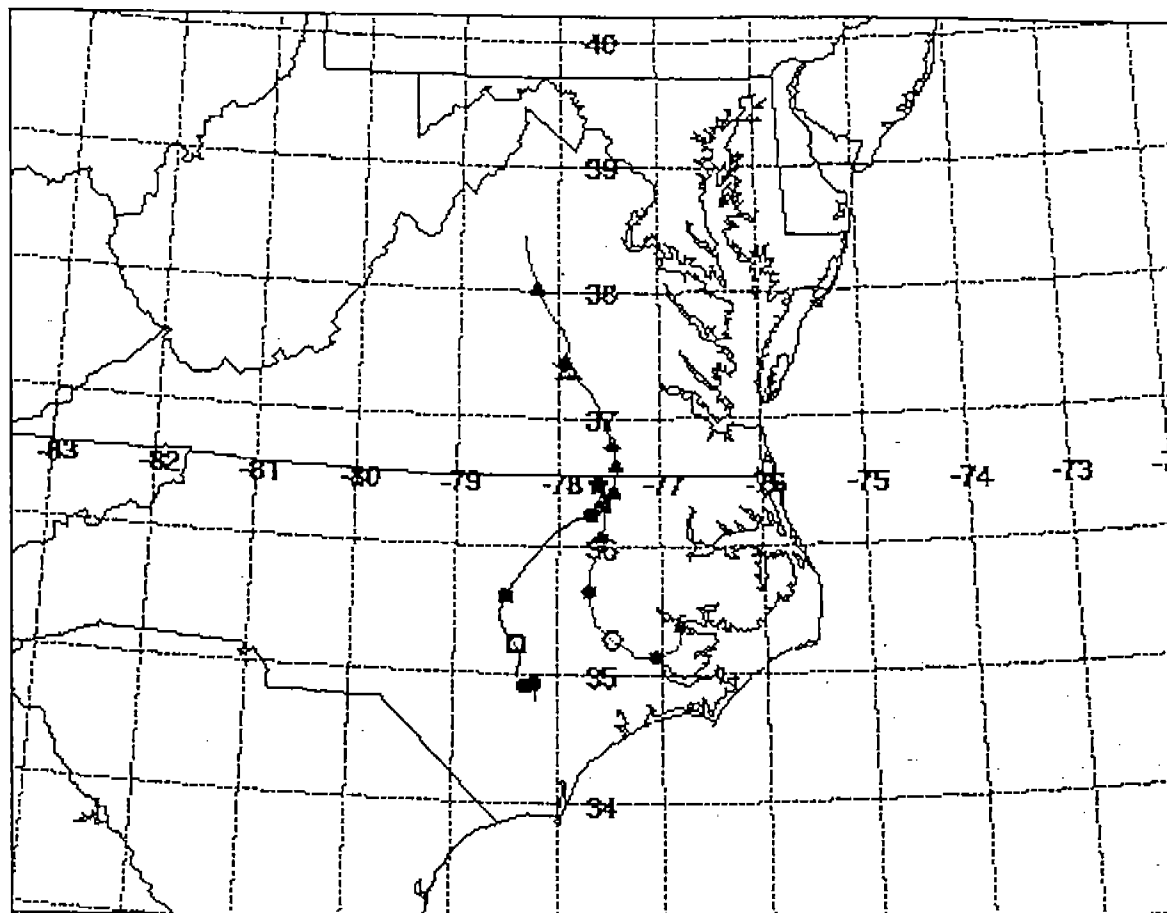


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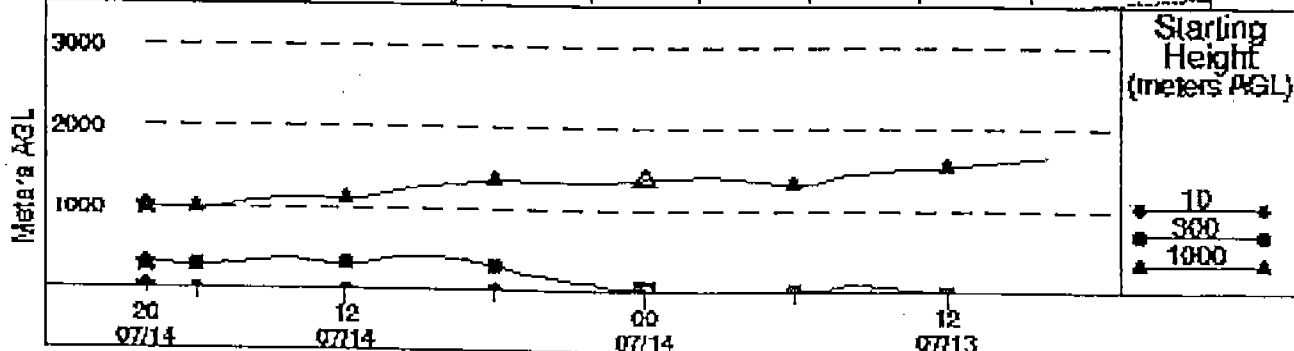
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NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending - 20 UTC 14 JUL 97

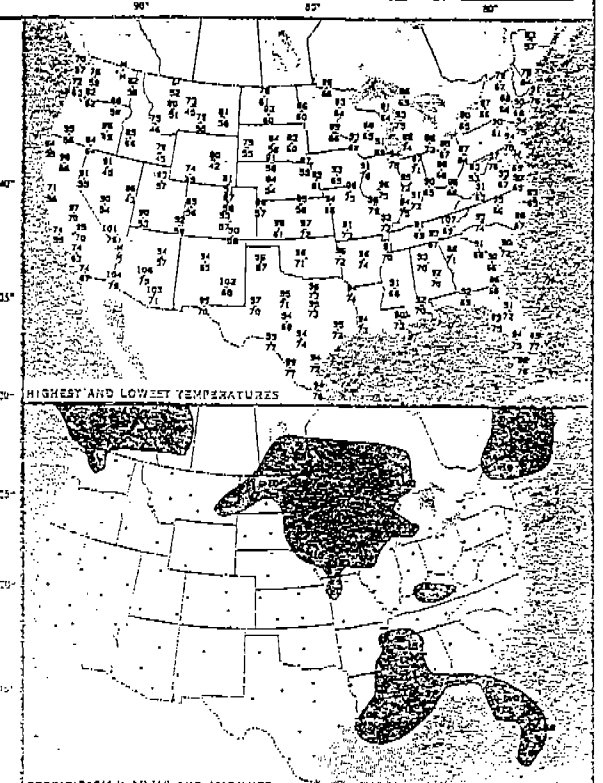
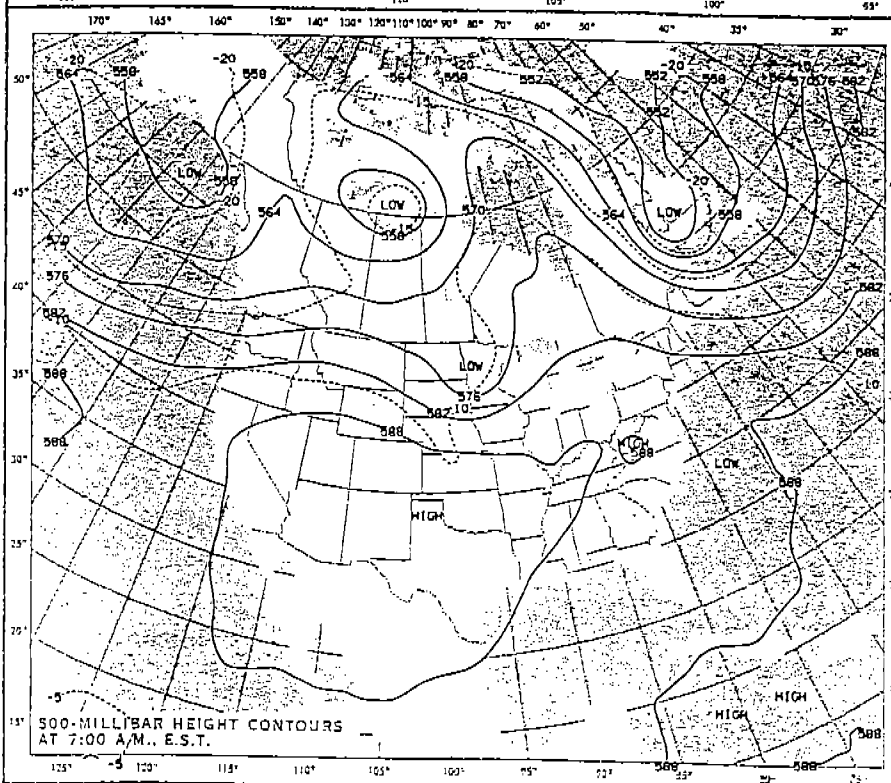
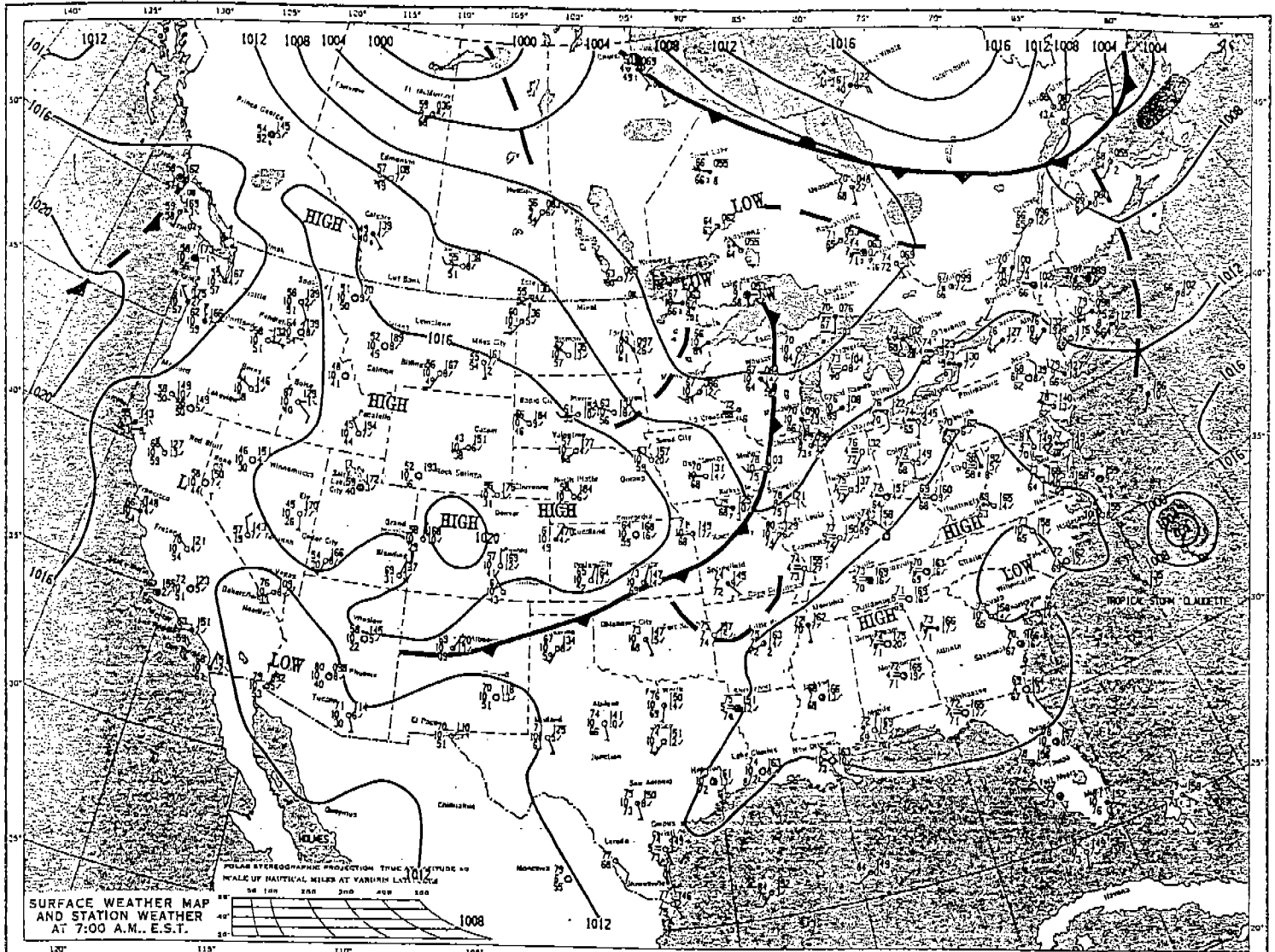
Source Location * at 36.48 N 77.61 W



EDAS Meteorological Data
Vertical Motion Method - OMEGA



MONDAY, JULY 14, 1997



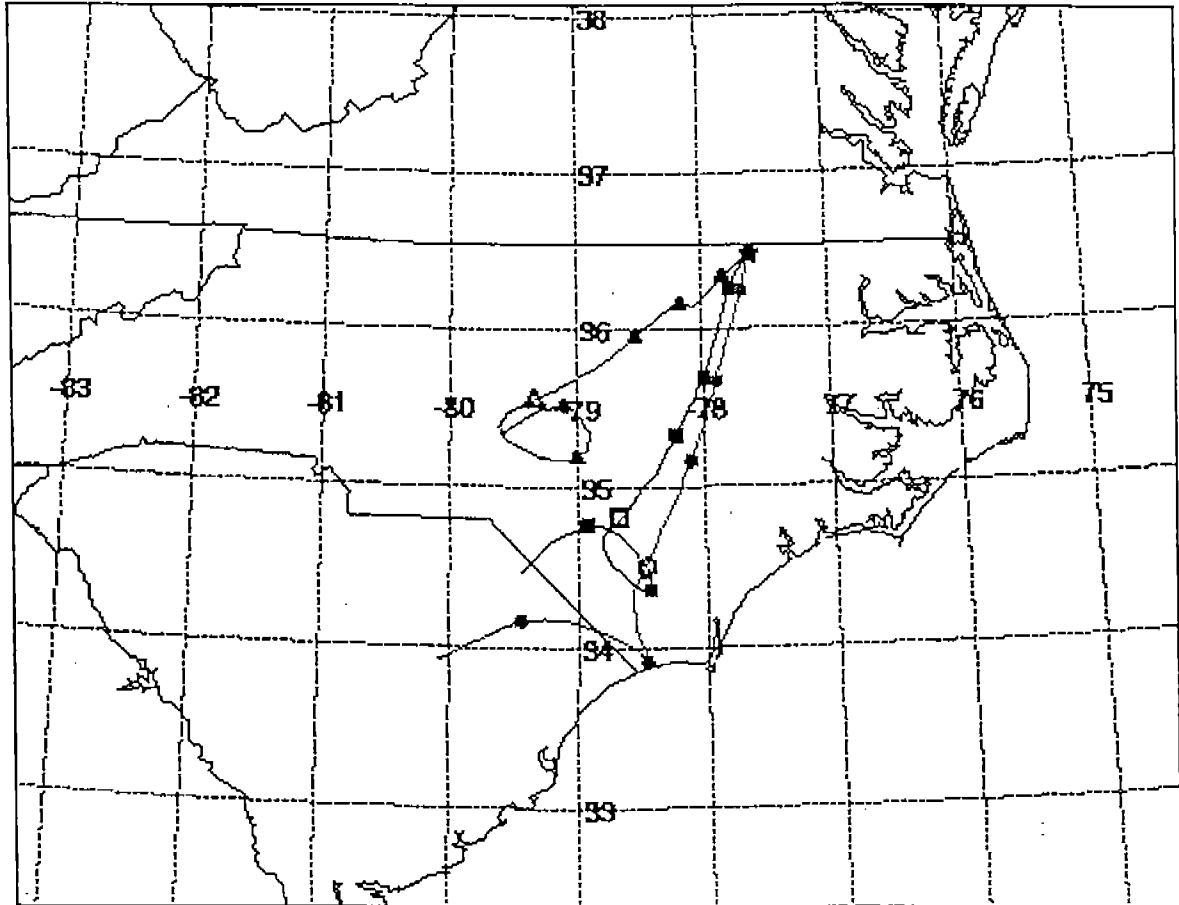


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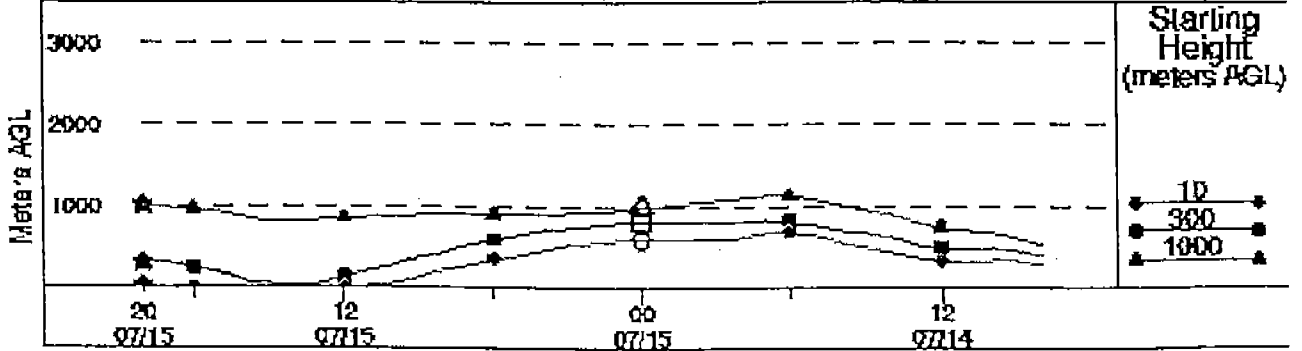
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NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 20 UTC 15 JUL 97

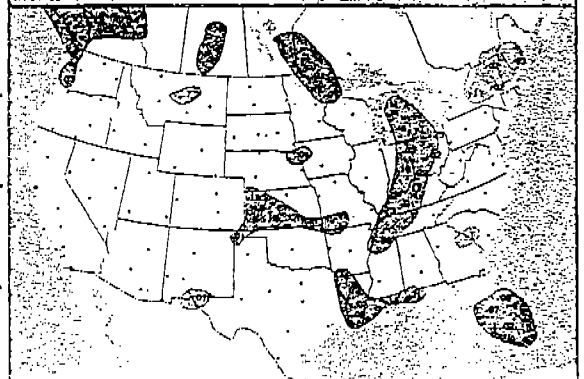
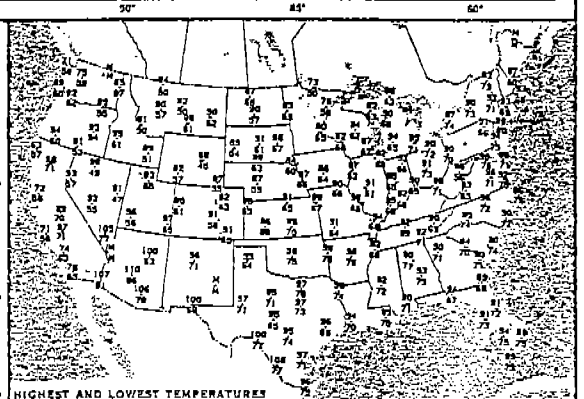
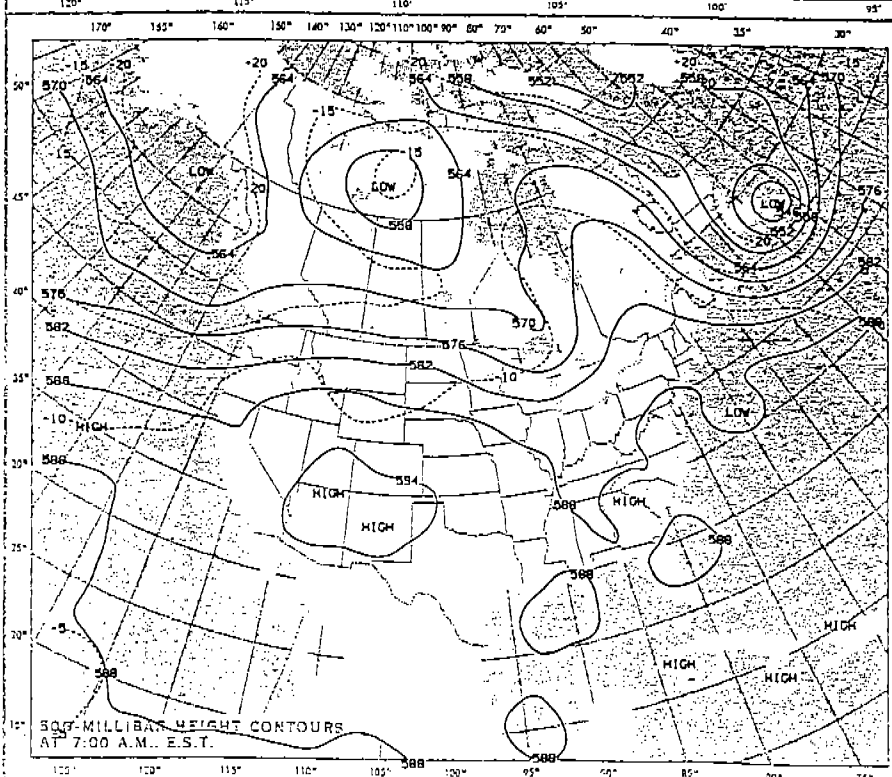
Source Location ★ at 36.48 N 77.61 W



EDAS Meteorological Data
Vertical Motion Method - OMEGA



TUESDAY, JULY 15, 1997



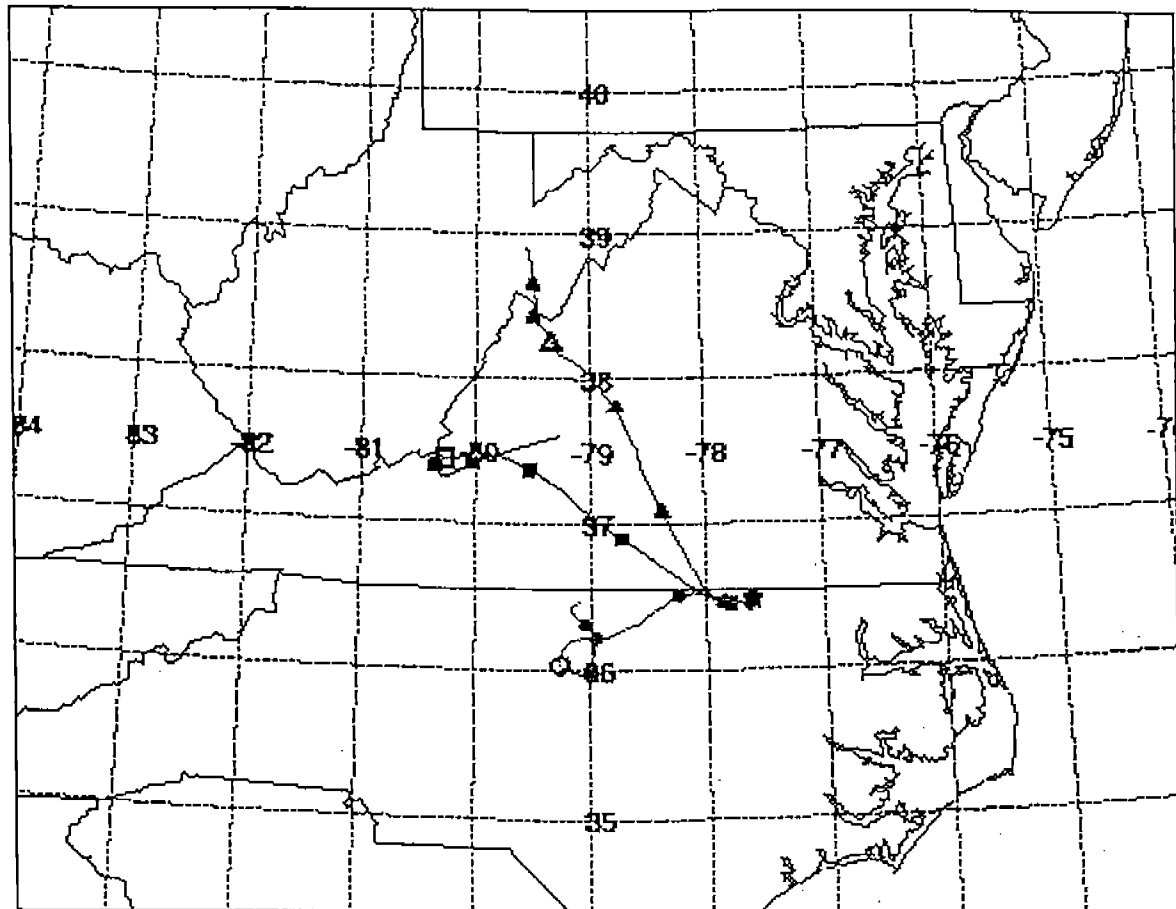


NOAA Air Resources Laboratory

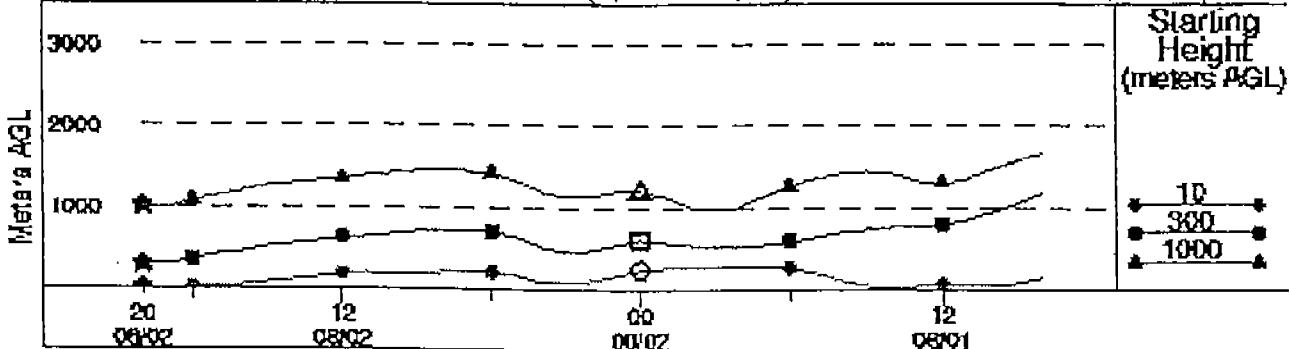
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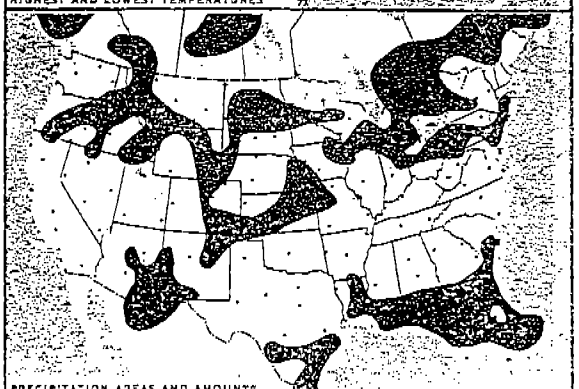
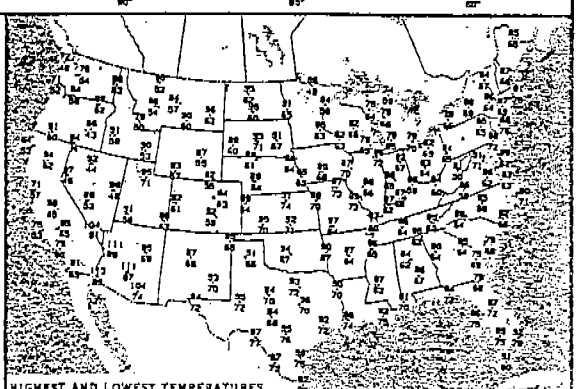
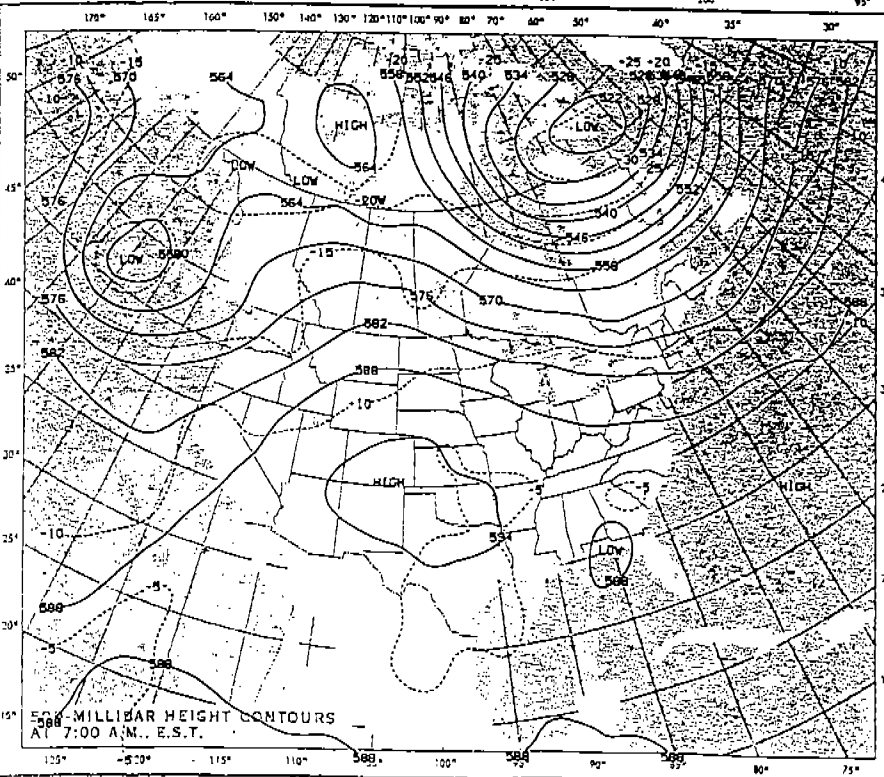
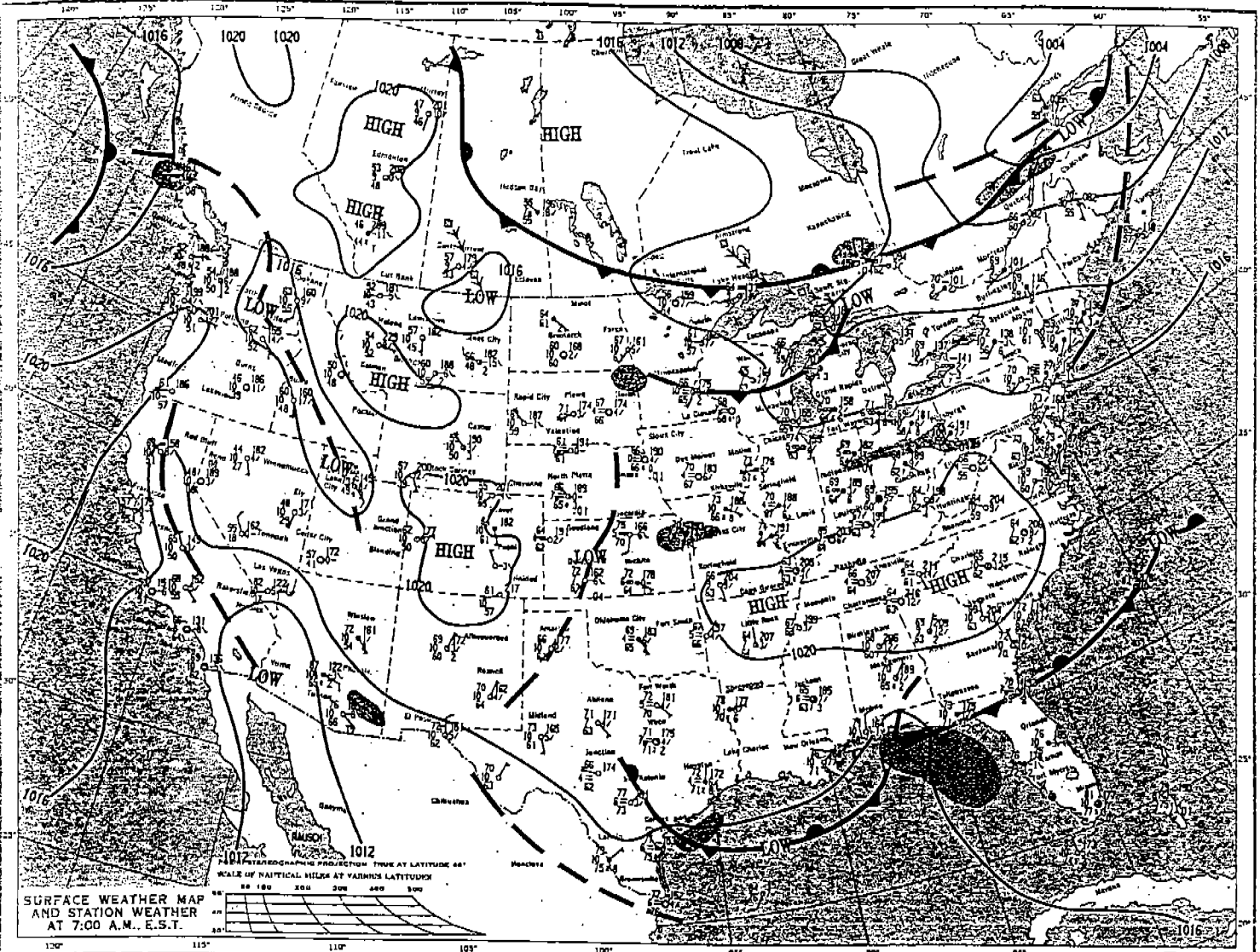
NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 20 UTC 02 AUG 97

Source Location * at 36.48 N 77.61 W



EDAS Meteorological Data
Vertical Motion Method - OMEGA





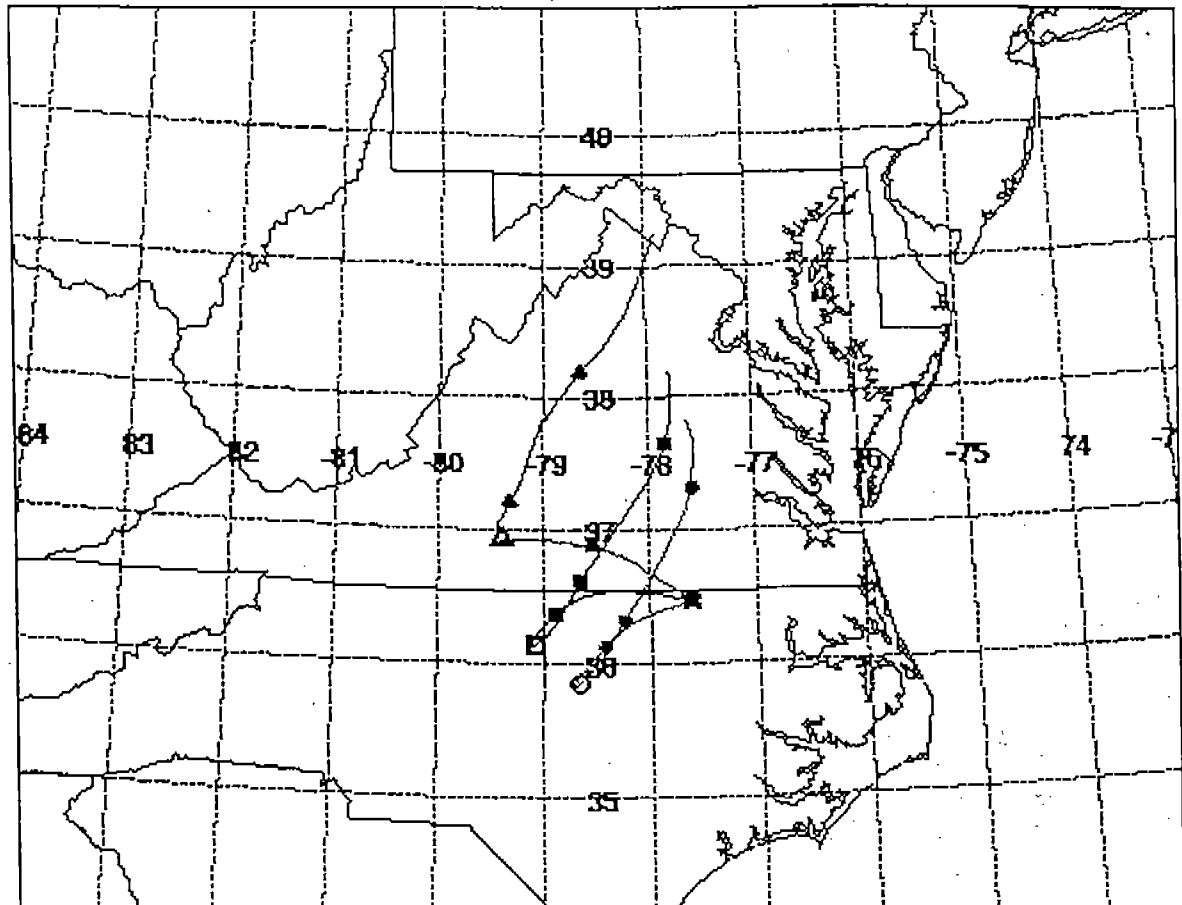


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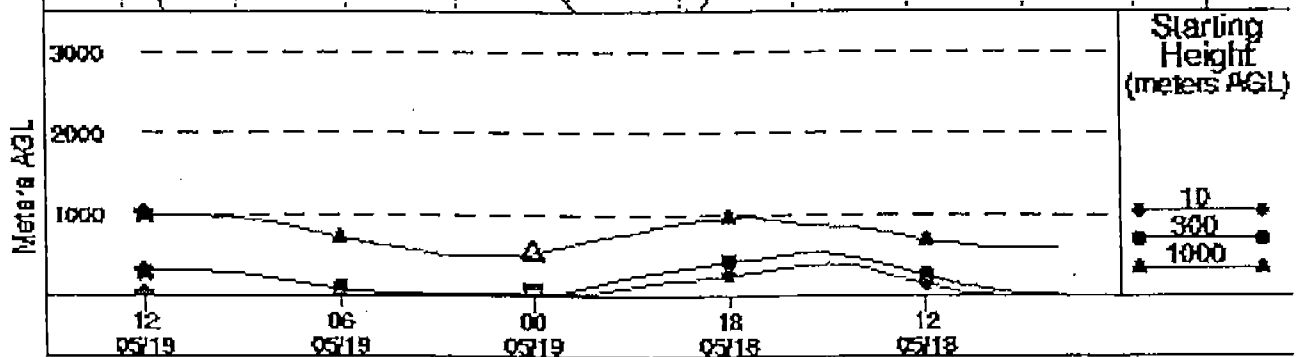
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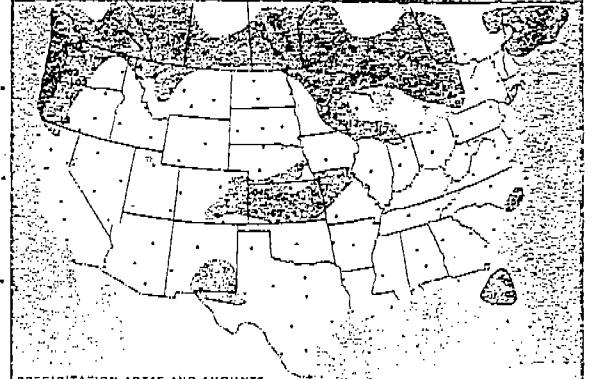
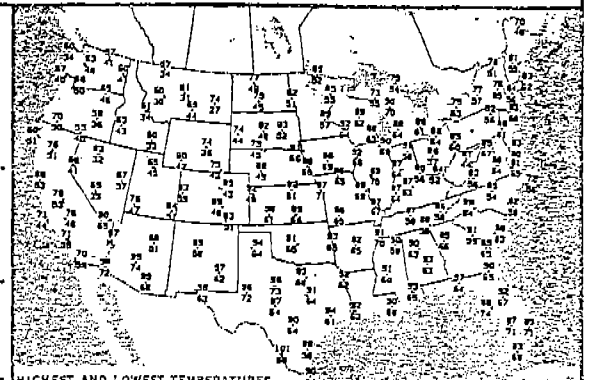
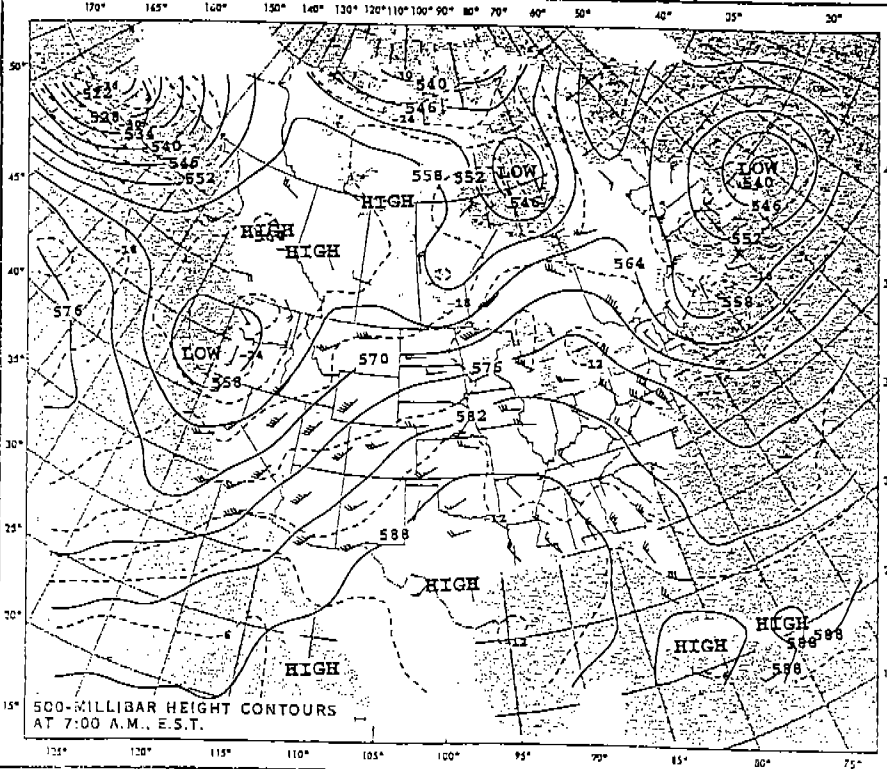
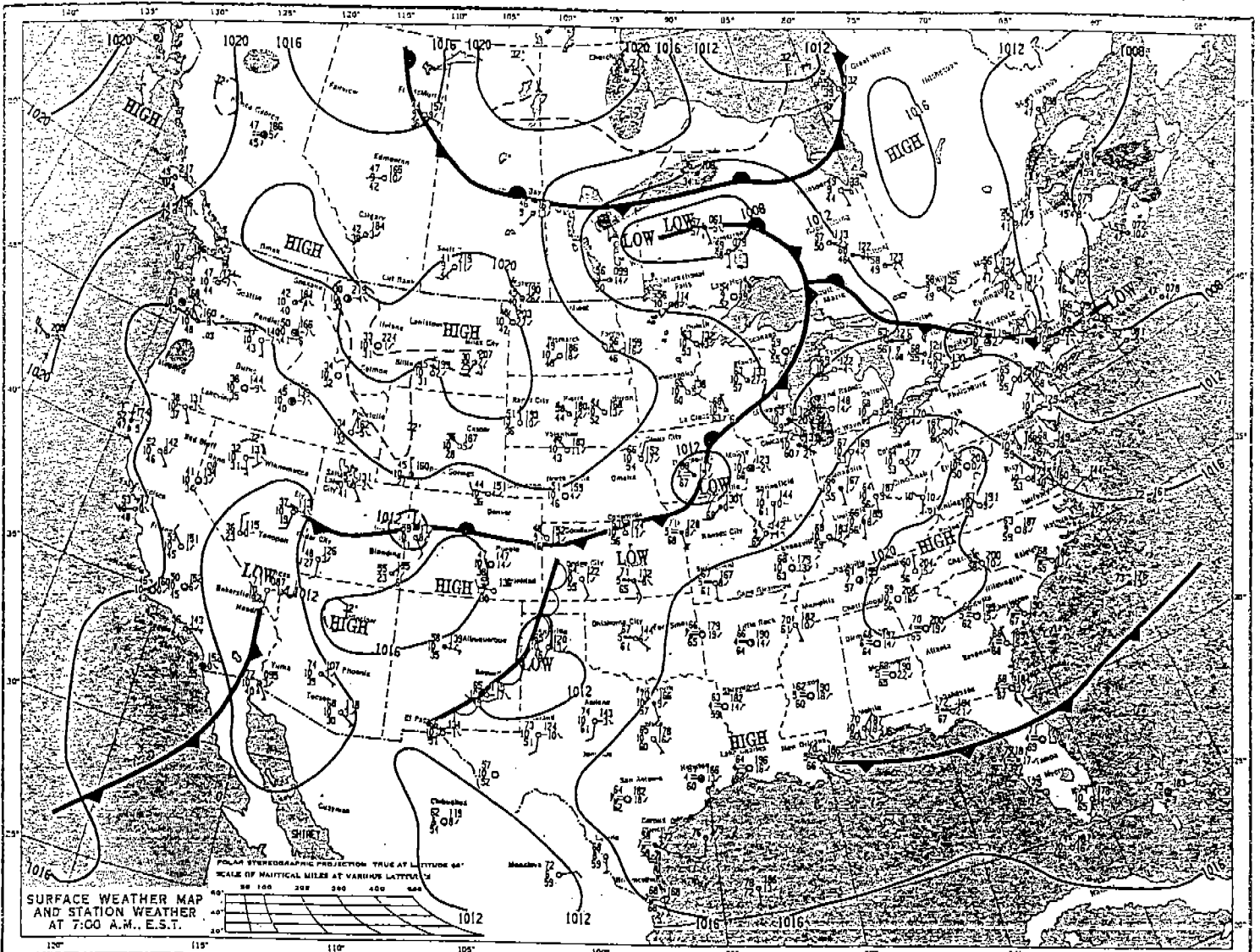
NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 12 UTC 19 MAY 98

Source Location * at 36.48 N 77.61 W



EDAS Meteorological Data
Vertical Motion Method - OMEGA





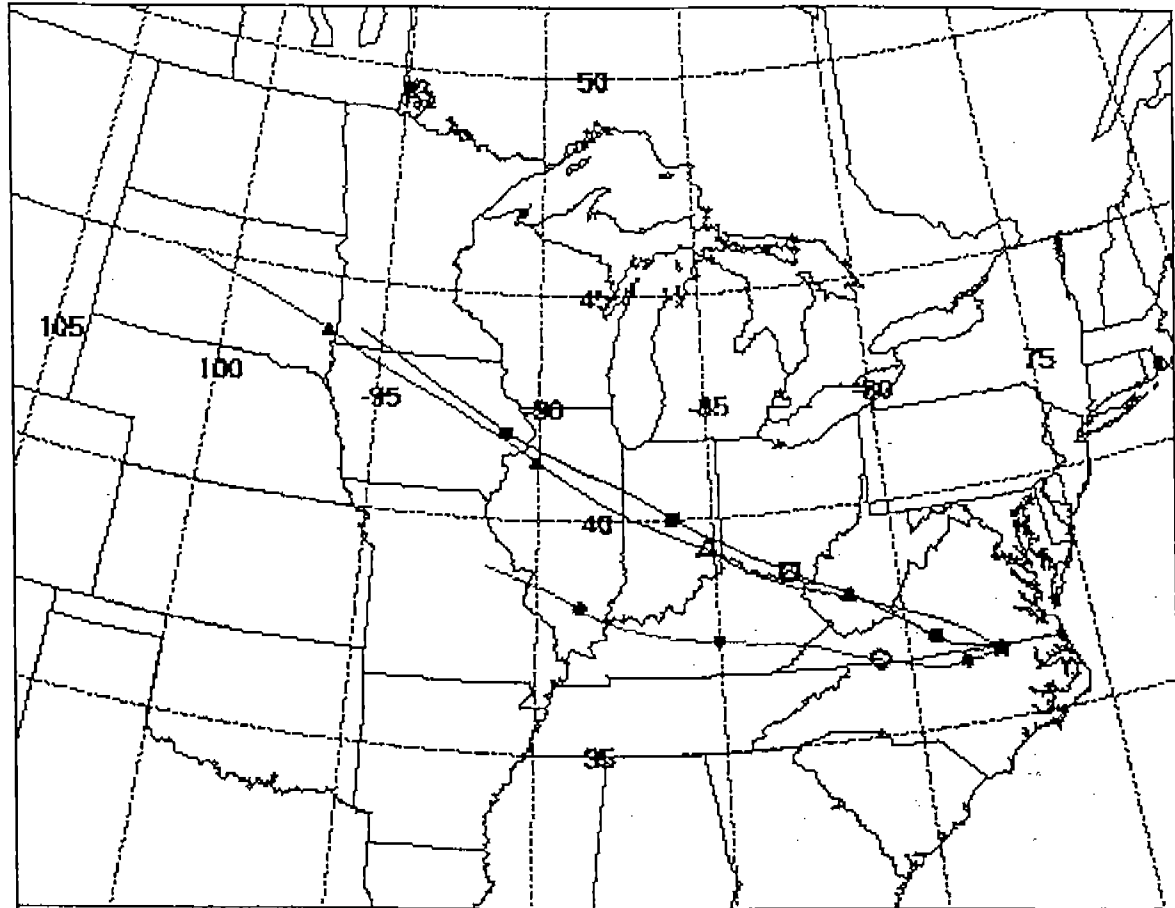


NOAA Air Resources Laboratory

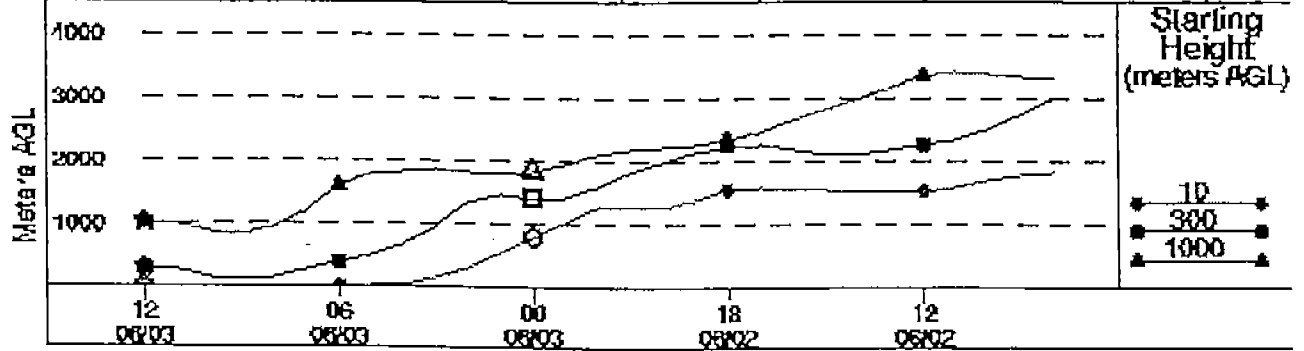
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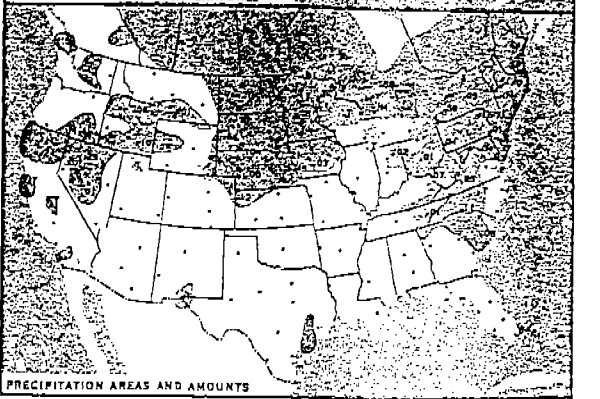
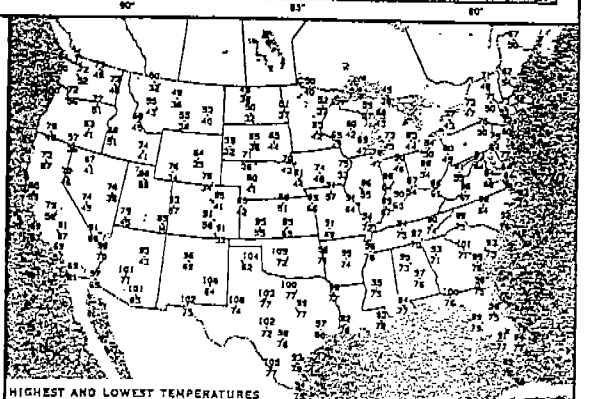
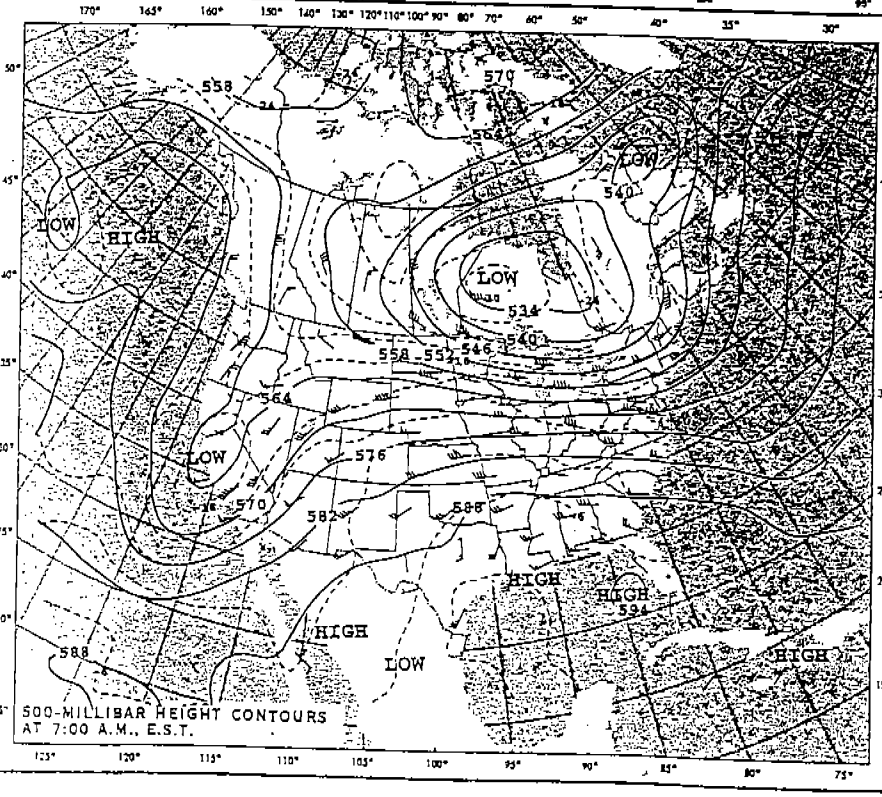
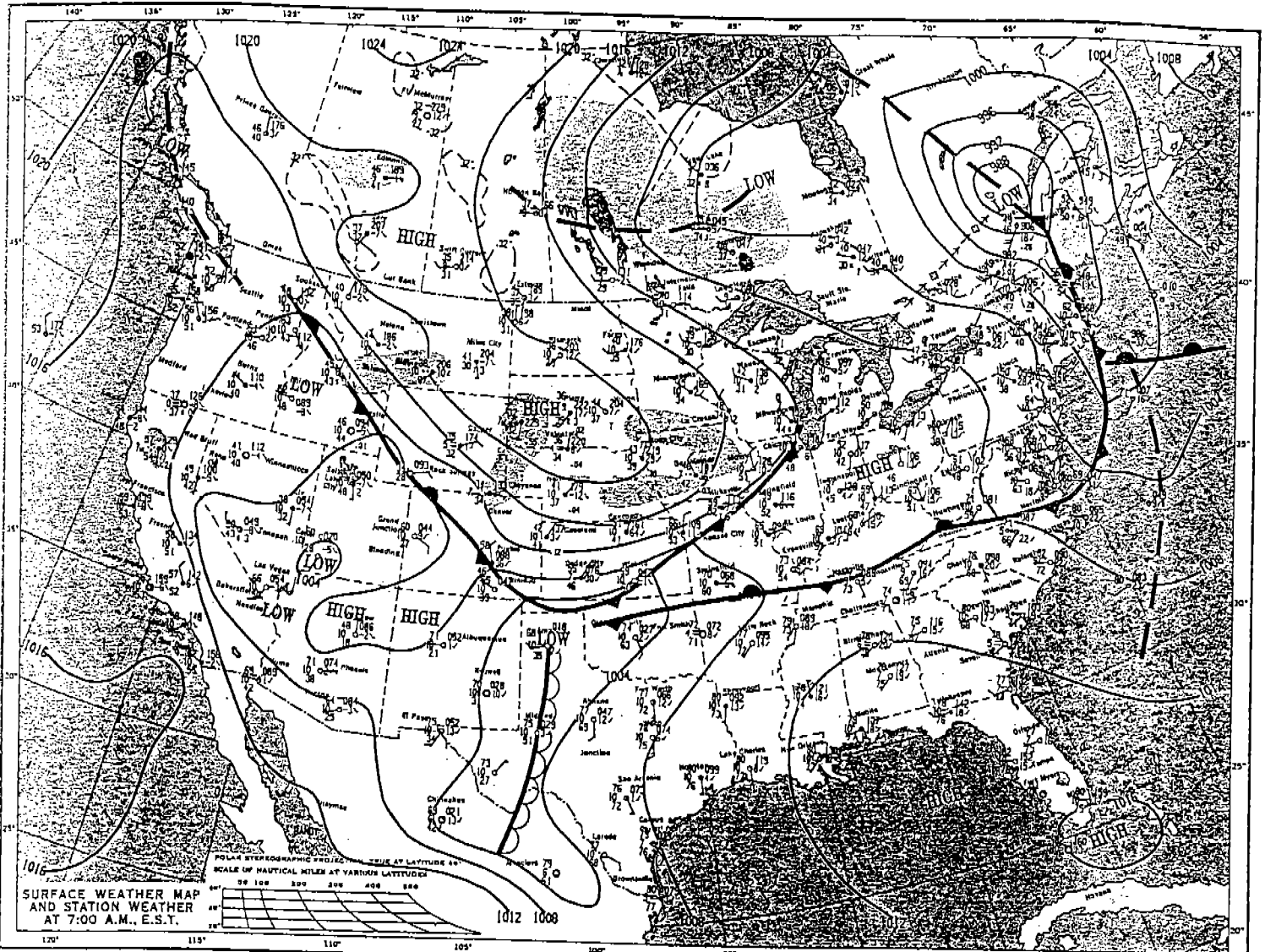
NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 12 UTC 03 JUN 98

Source Location ★ at 36.48 N 77.61 W



EDAS Meteorological Data
Vertical Motion Method - OMEGA





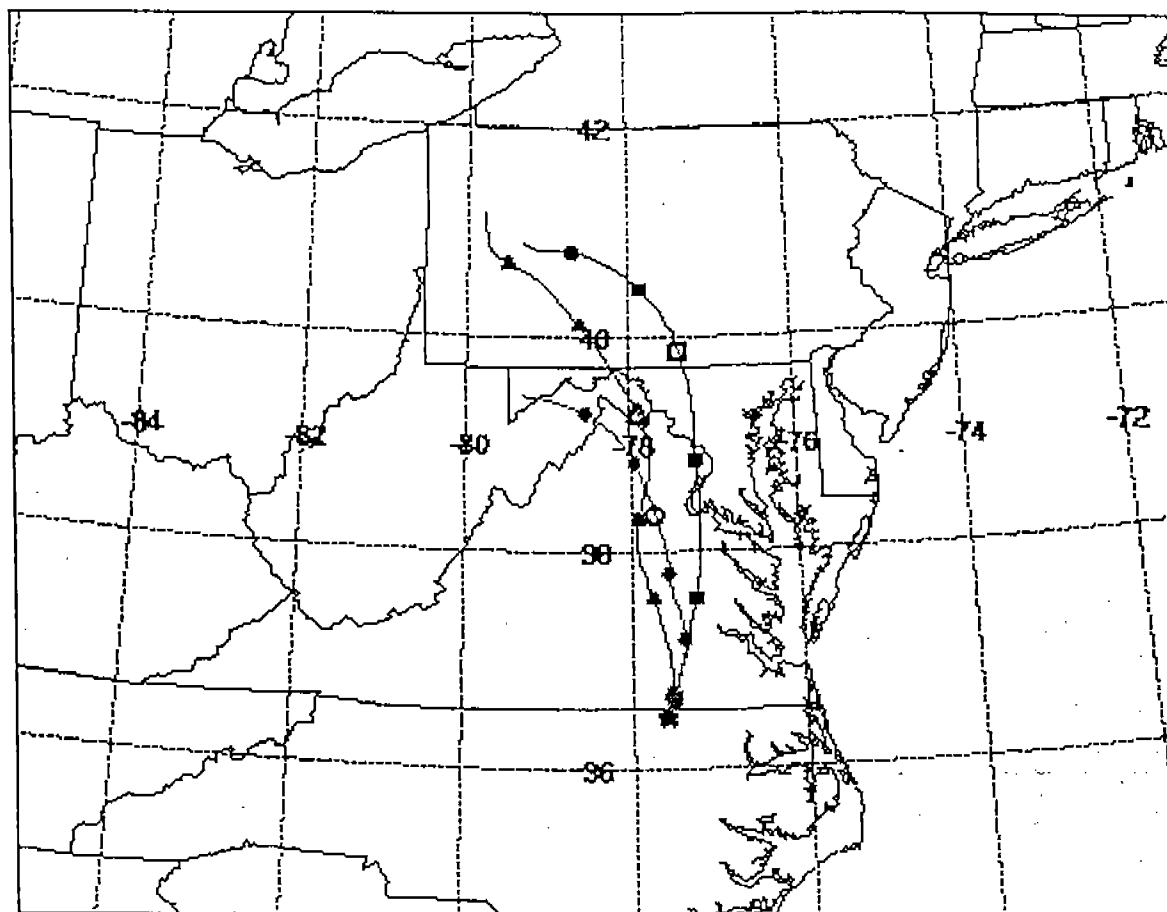


NOAA Air Resources Laboratory

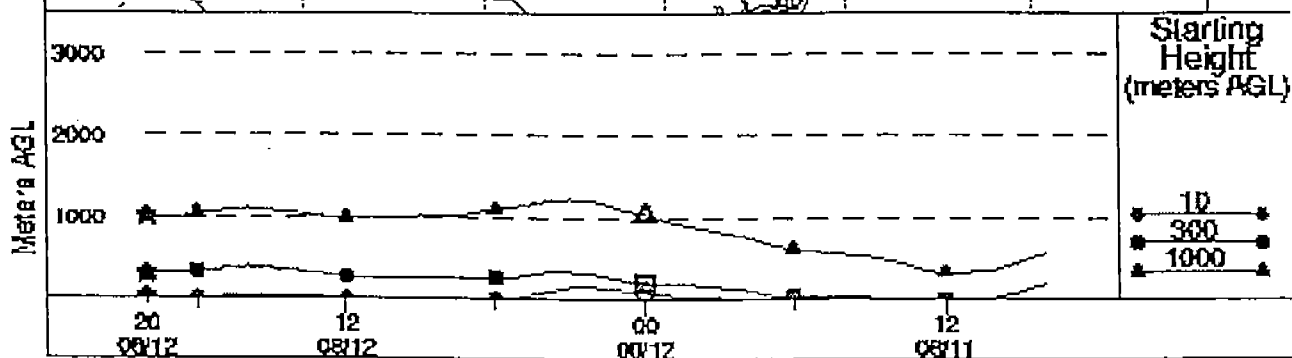
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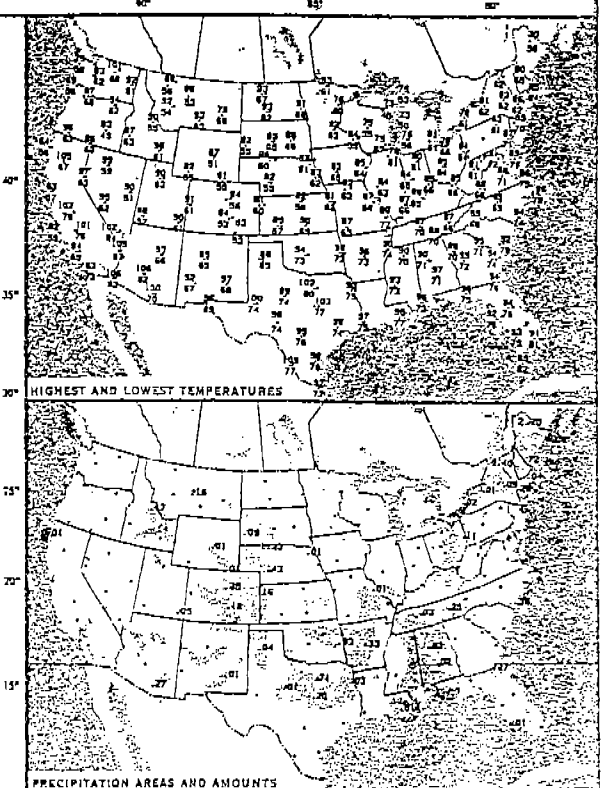
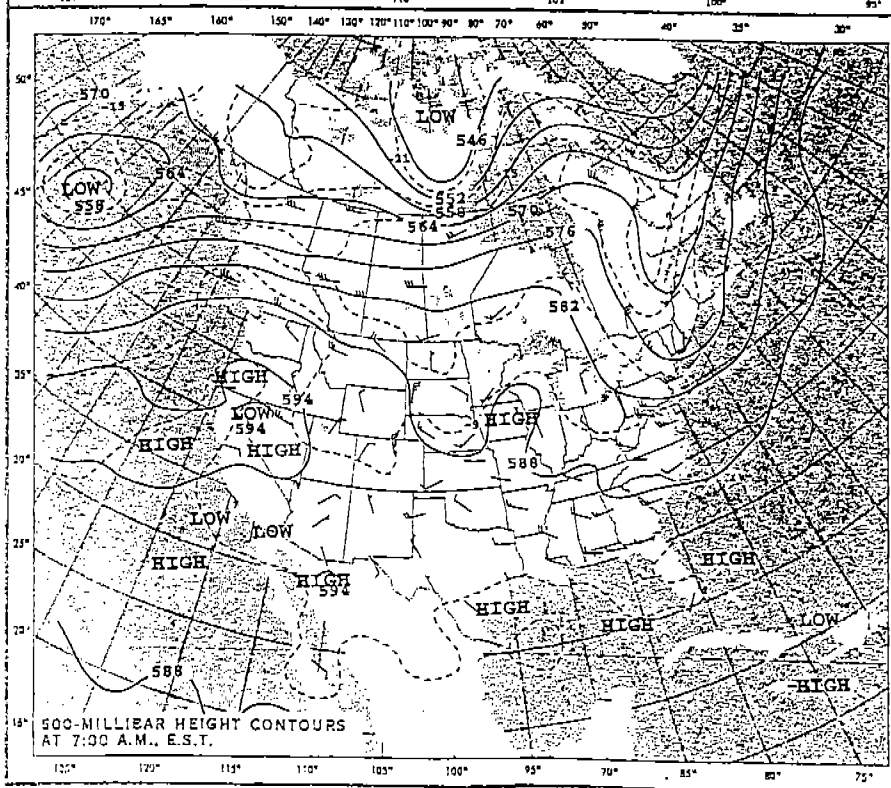
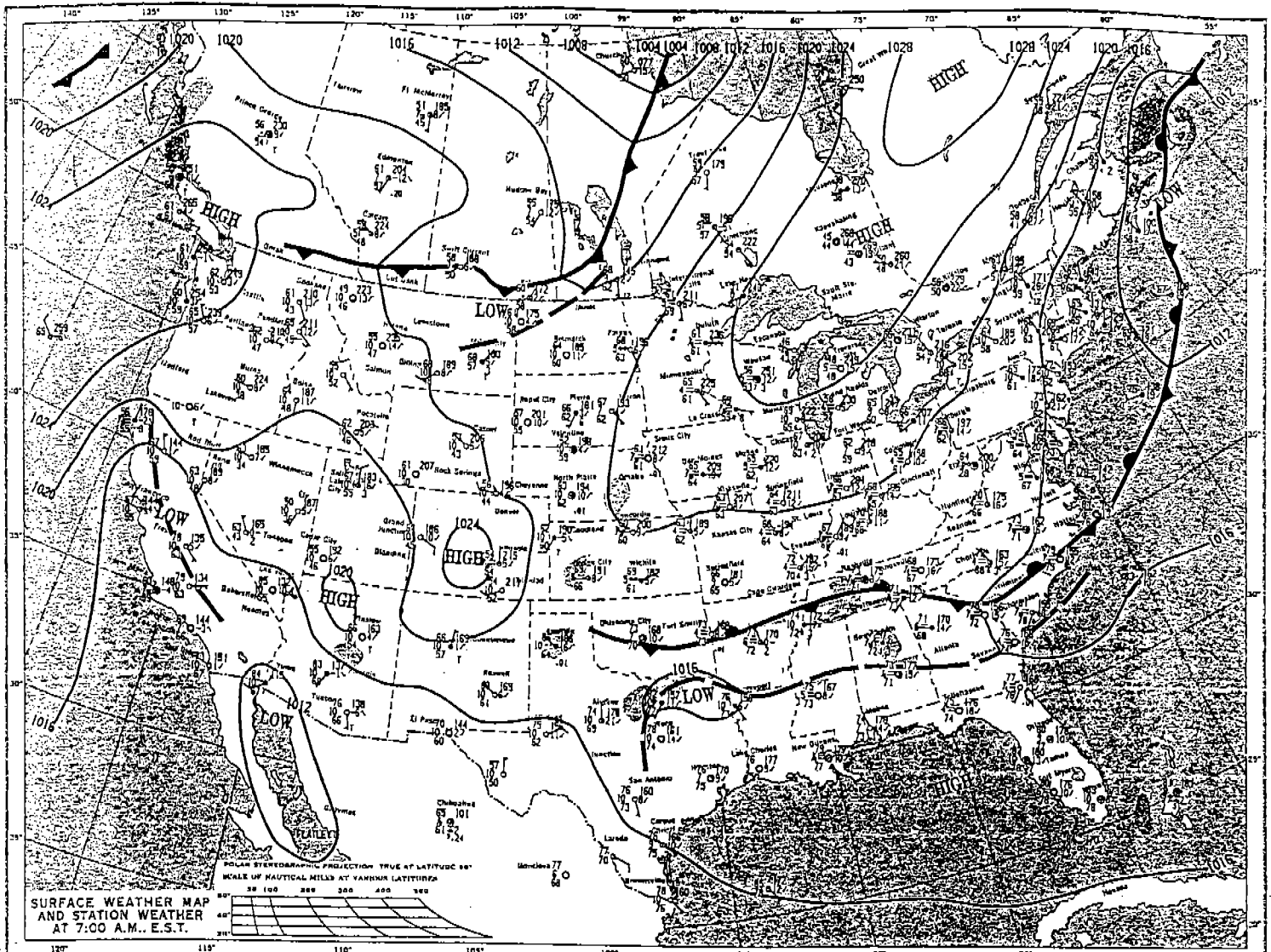
NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 20 UTC 12 AUG 98

Source Location ★ at 36.48 N 77.61 W



EDAS Meteorological Data
Vertical Motion Method - OMEGA





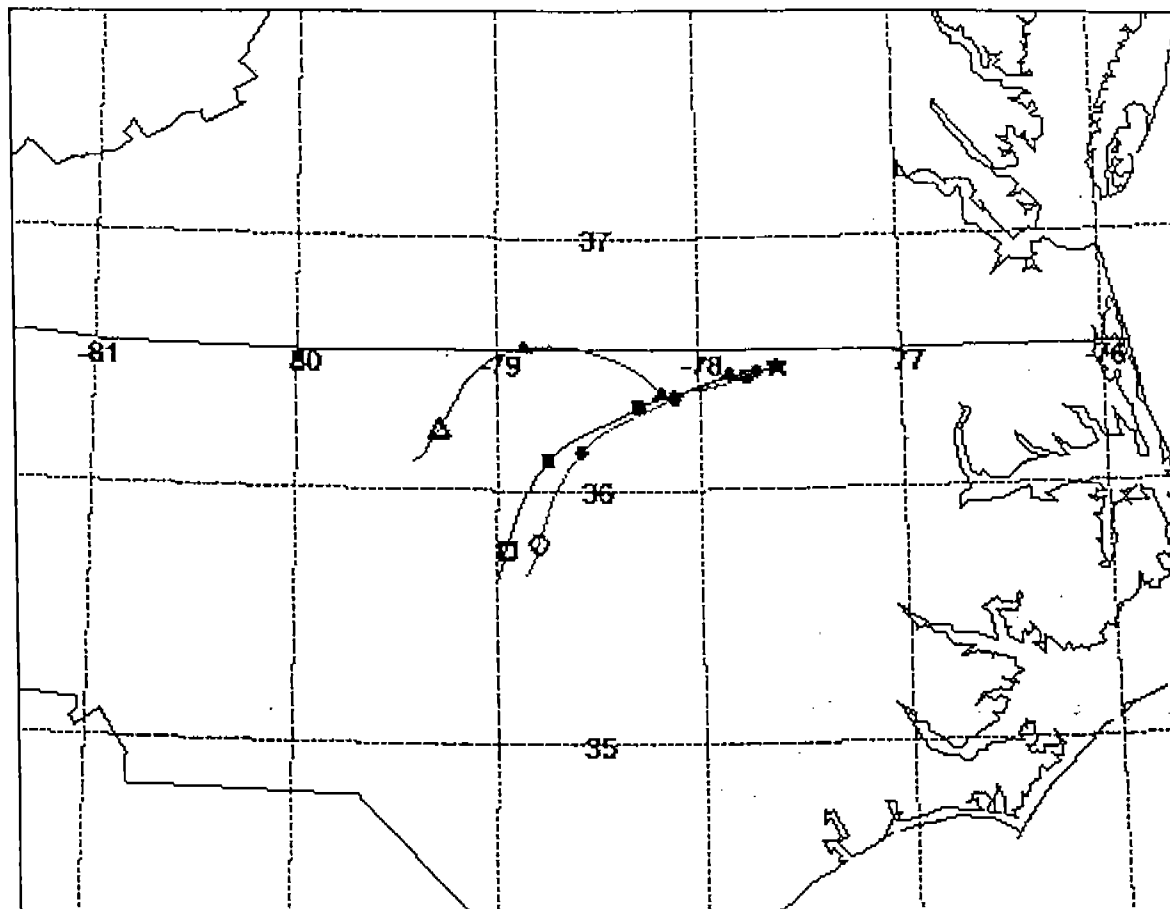


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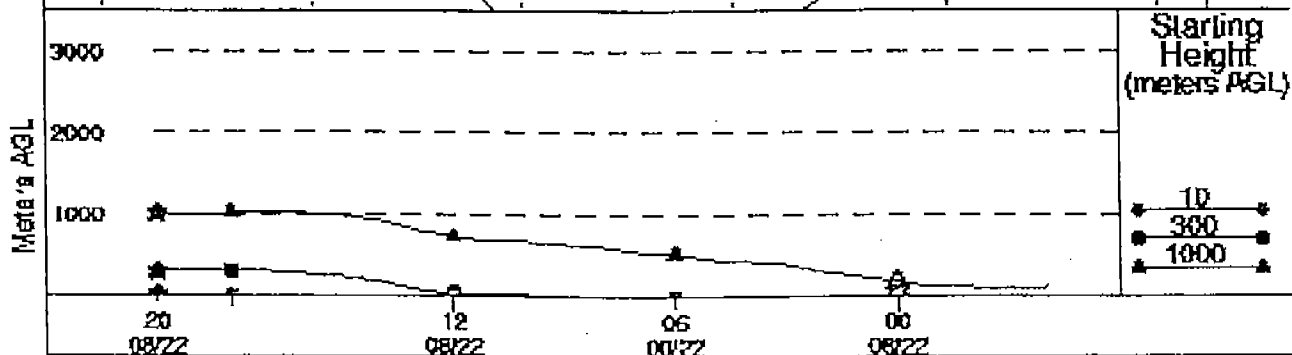
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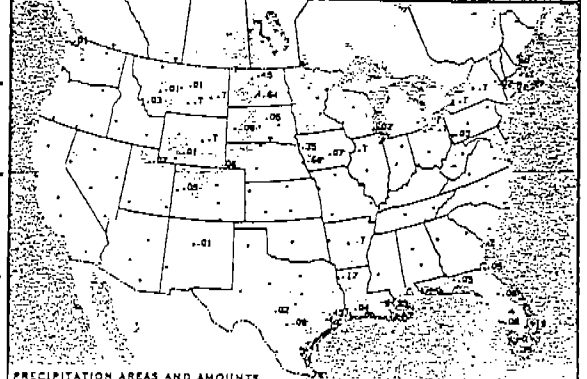
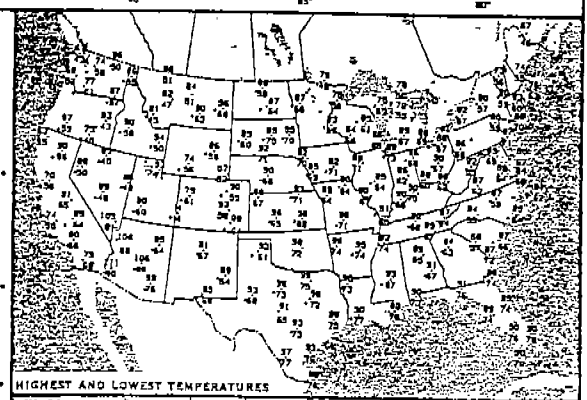
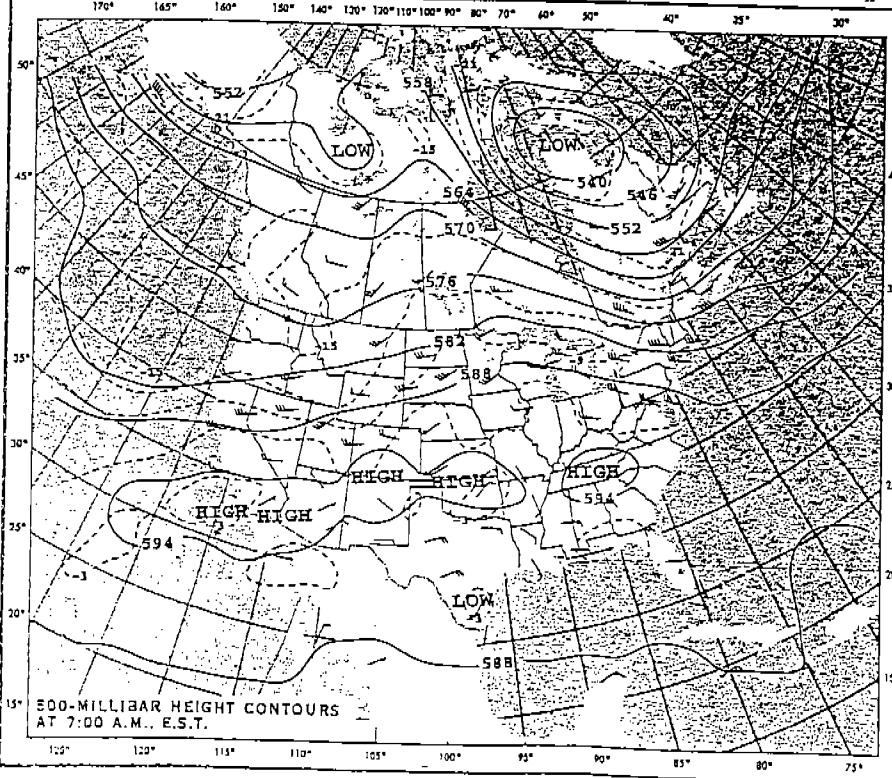
NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 20 UTC 22 AUG 98

Source Location ★ at 36.48 N 77.61 W



EDAS Meteorological Data
Vertical Motion Method - OMEGA





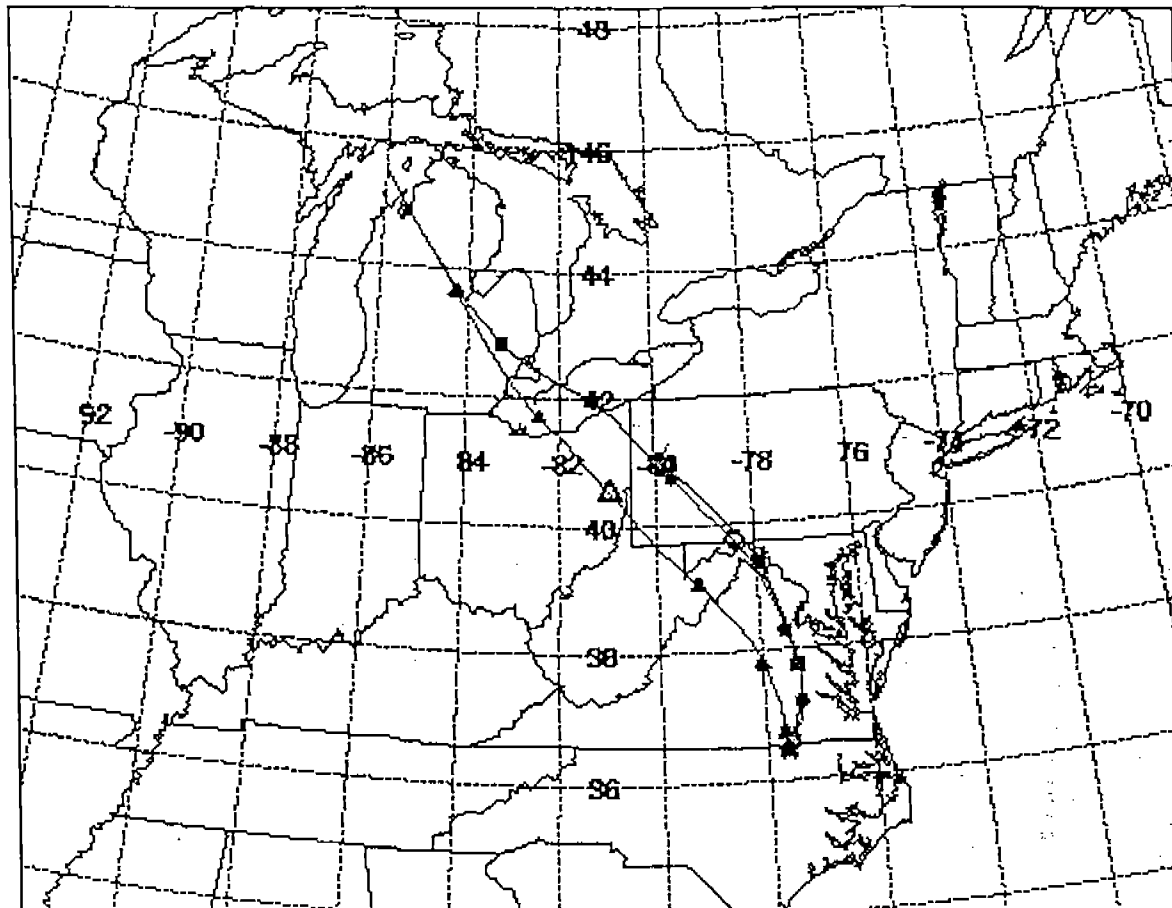


NOAA Air Resources Laboratory

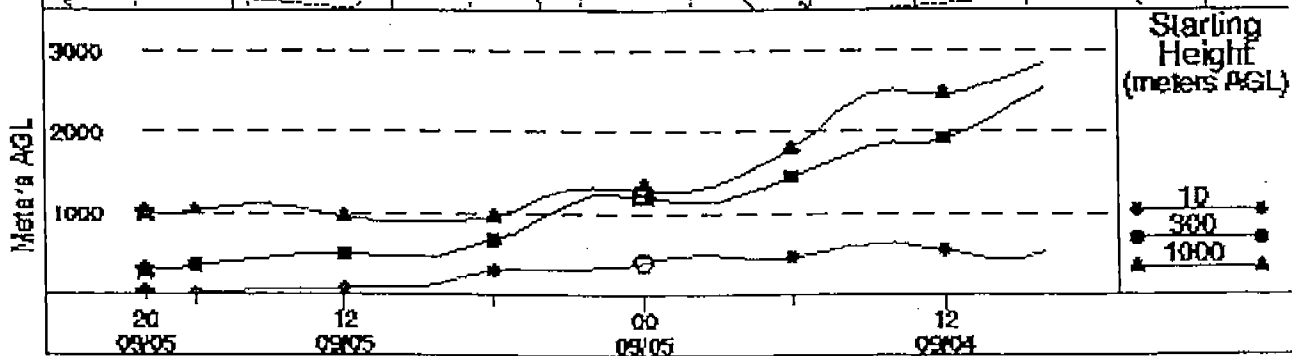
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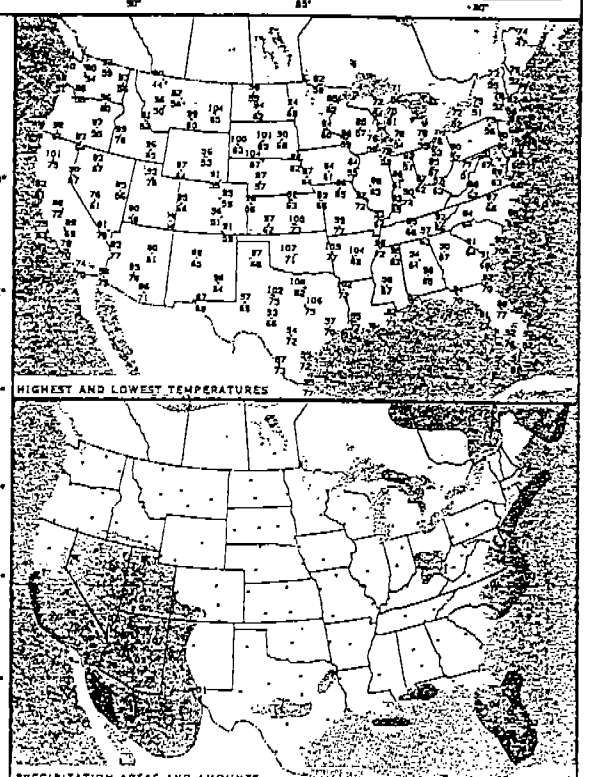
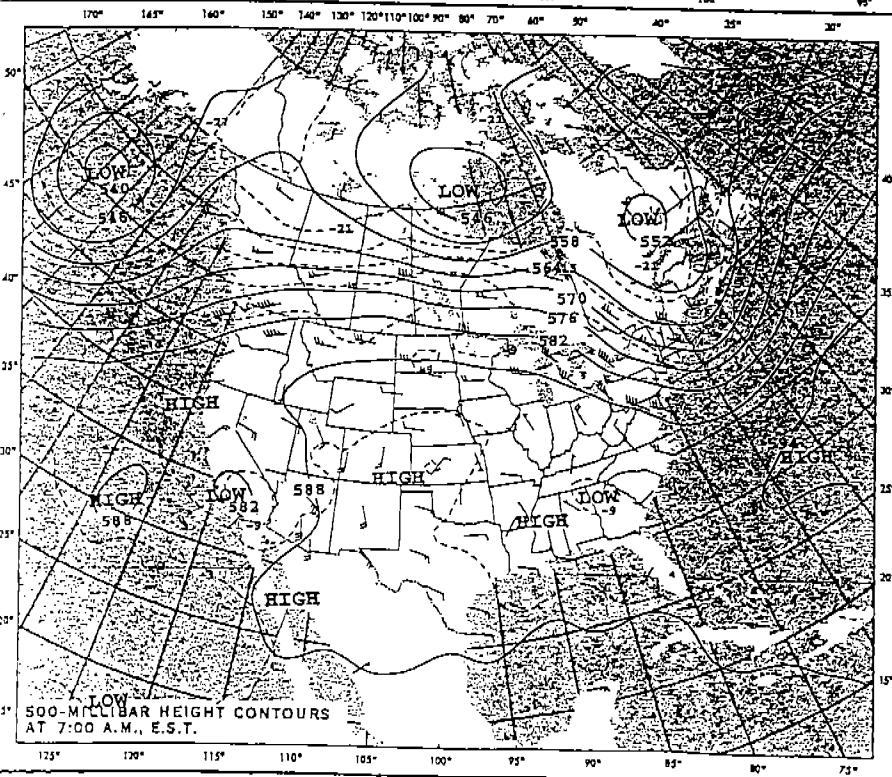
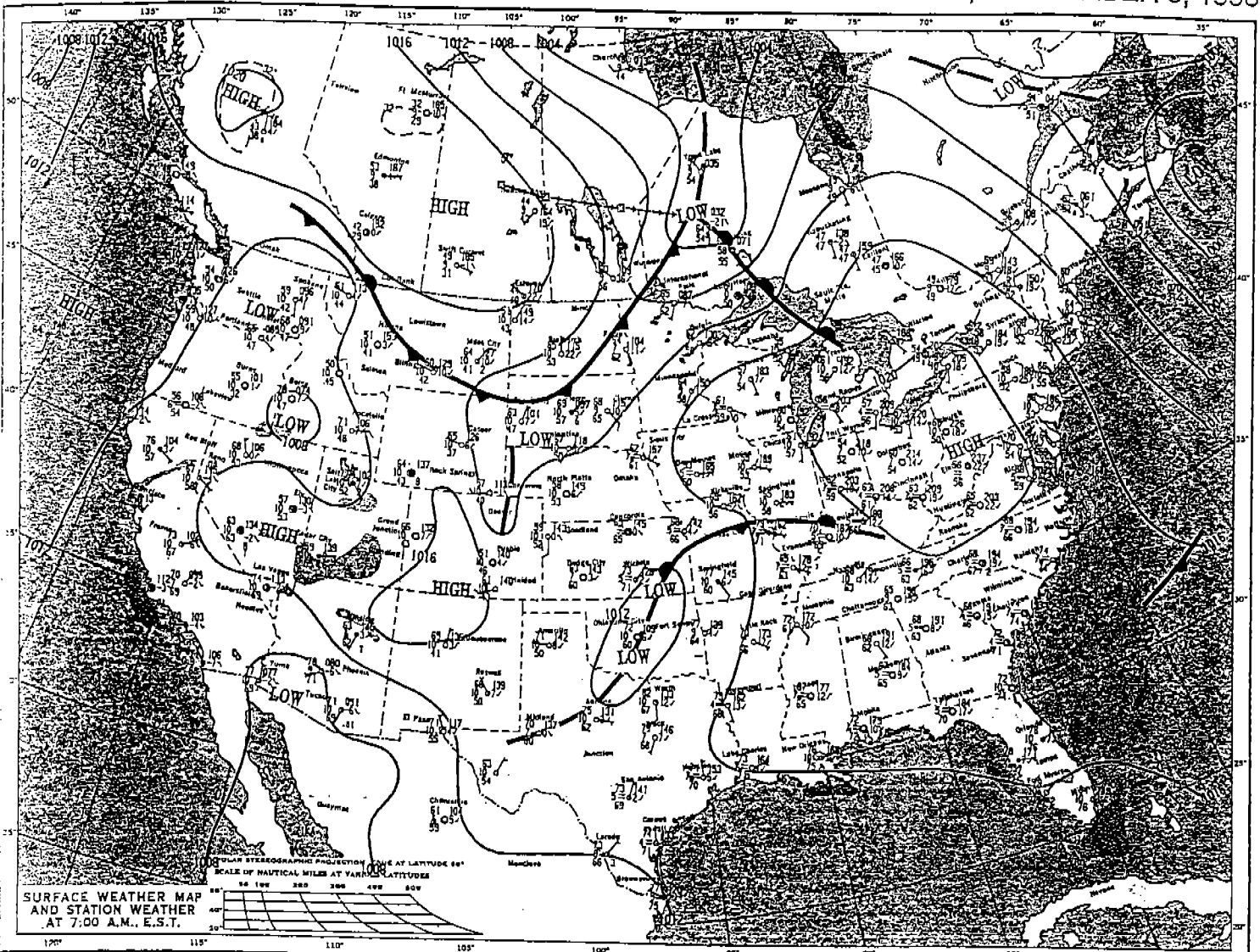
NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 20 UTC 05 SEP 98

Source Location ★ at 36.48 N 77.61 W



EDAS Meteorological Data
Vertical Motion Method - OMEGA





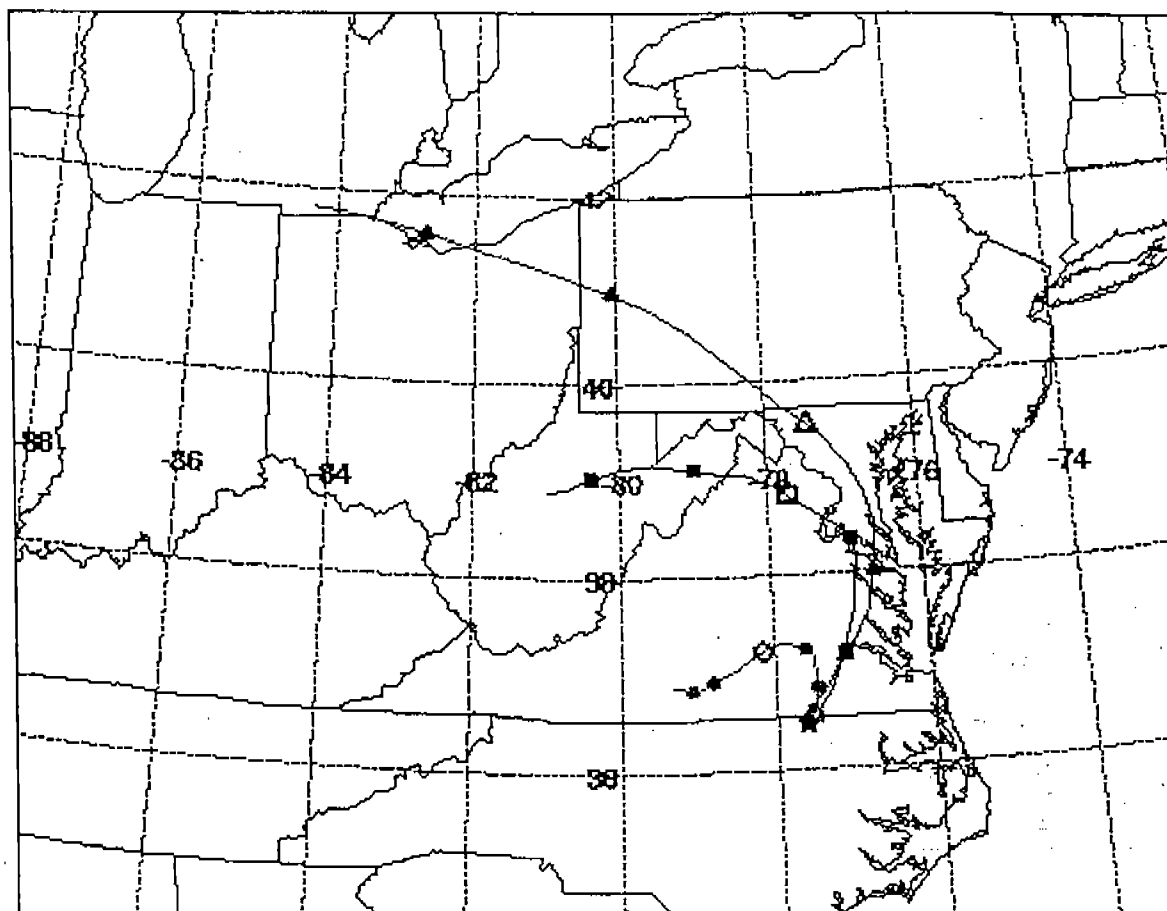


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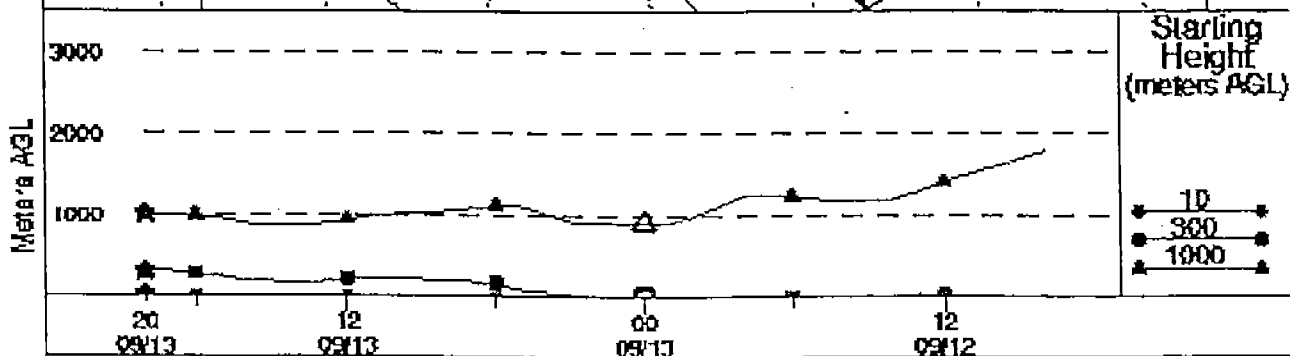
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NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 20 UTC 13 SEP 98

Source Location ★ at 36.48 N 77.61 W



EDAS Meteorological Data
Vertical Motion Method - OMEGA



SUNDAY, SEPTEMBER 13, 1998

