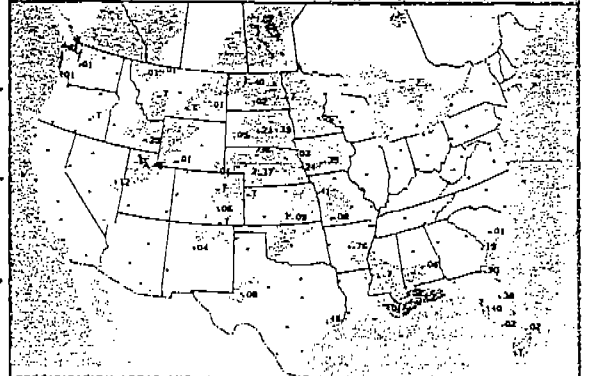
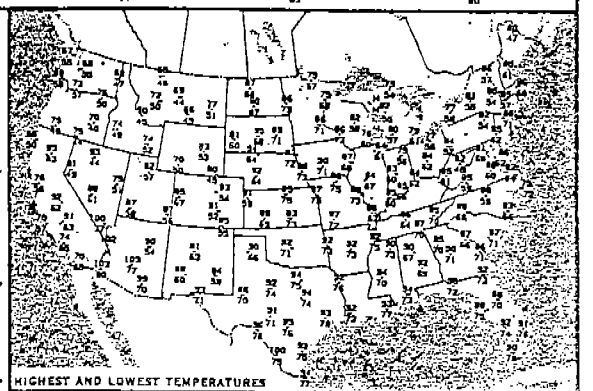
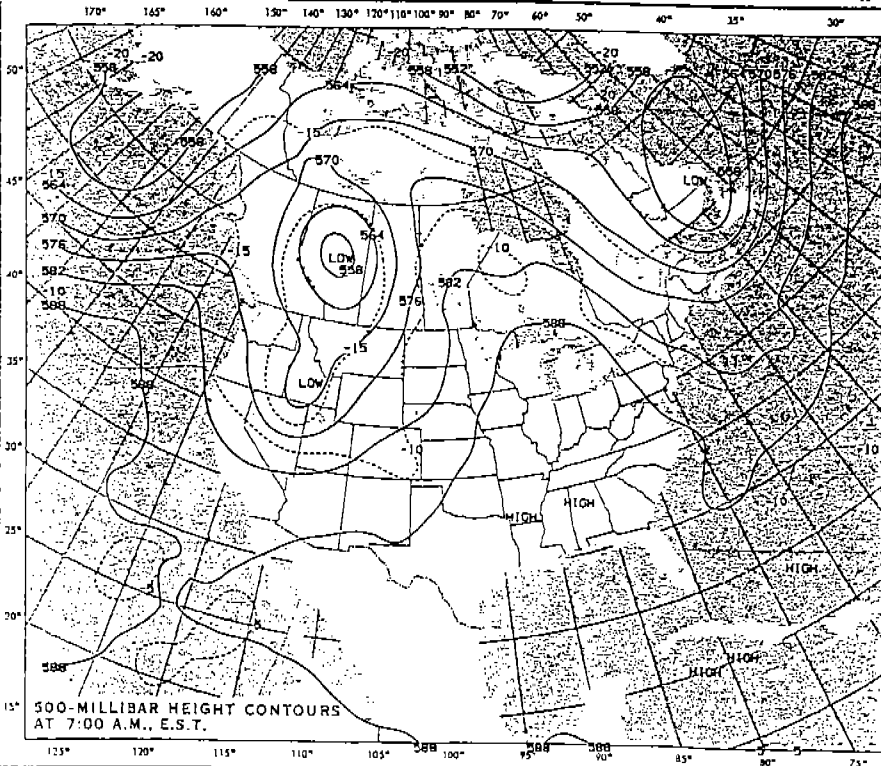
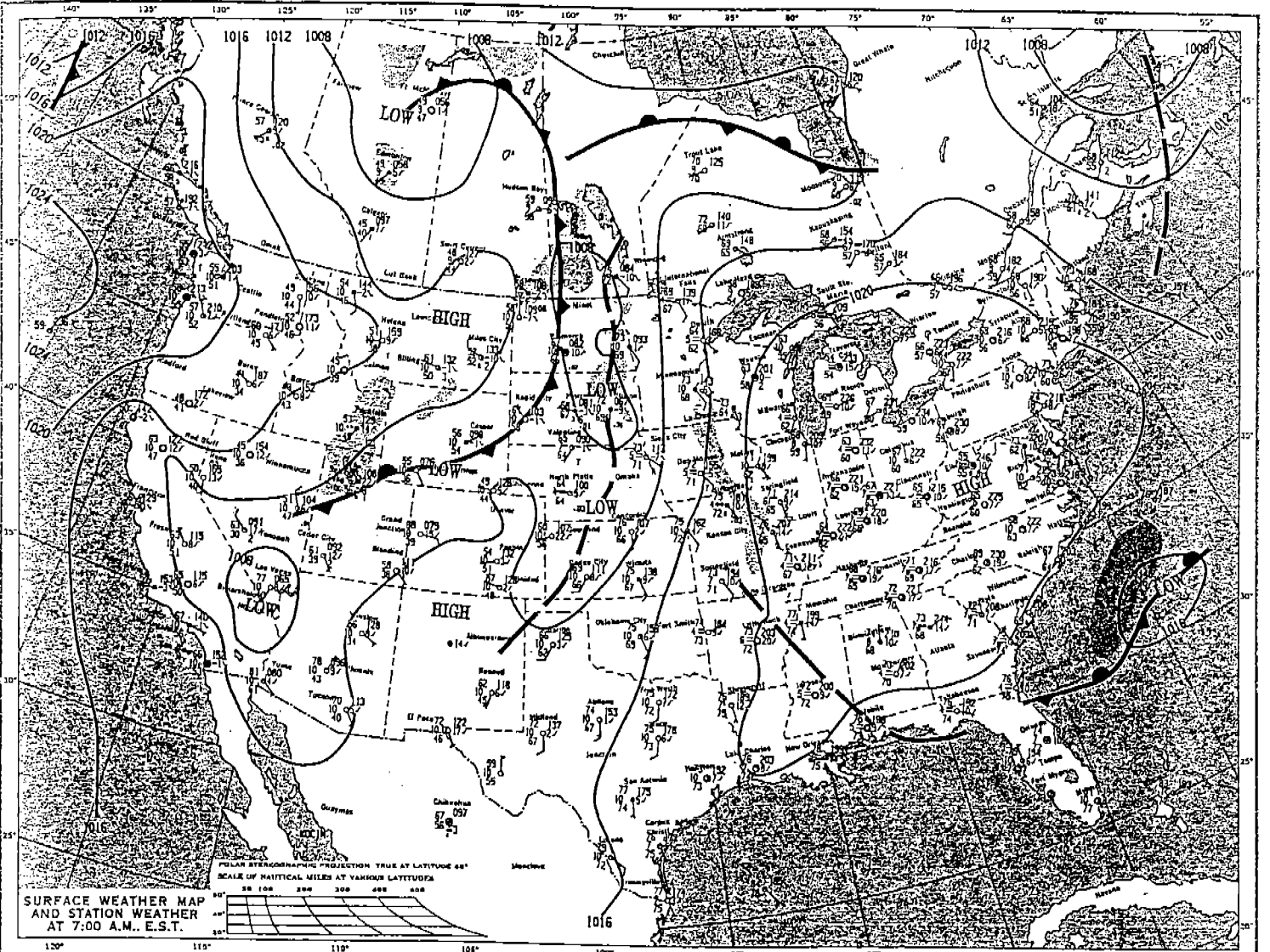


US EPA ARCHIVE DOCUMENT





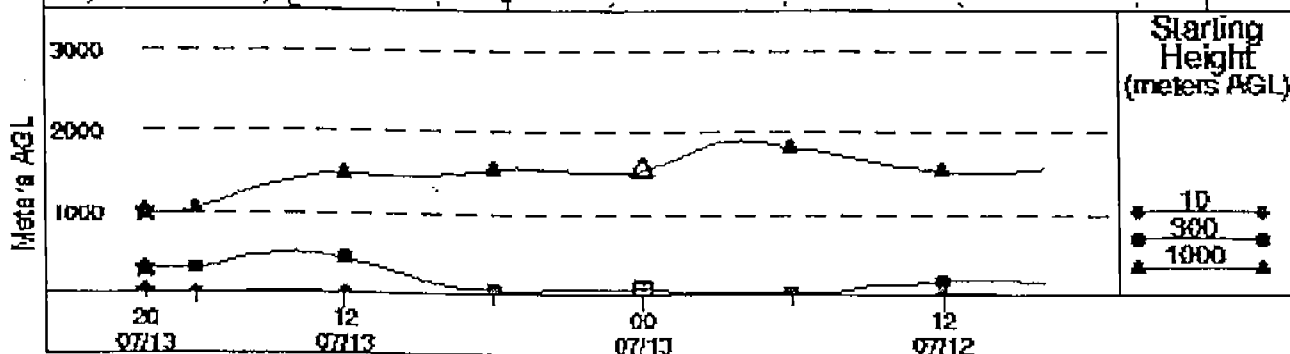
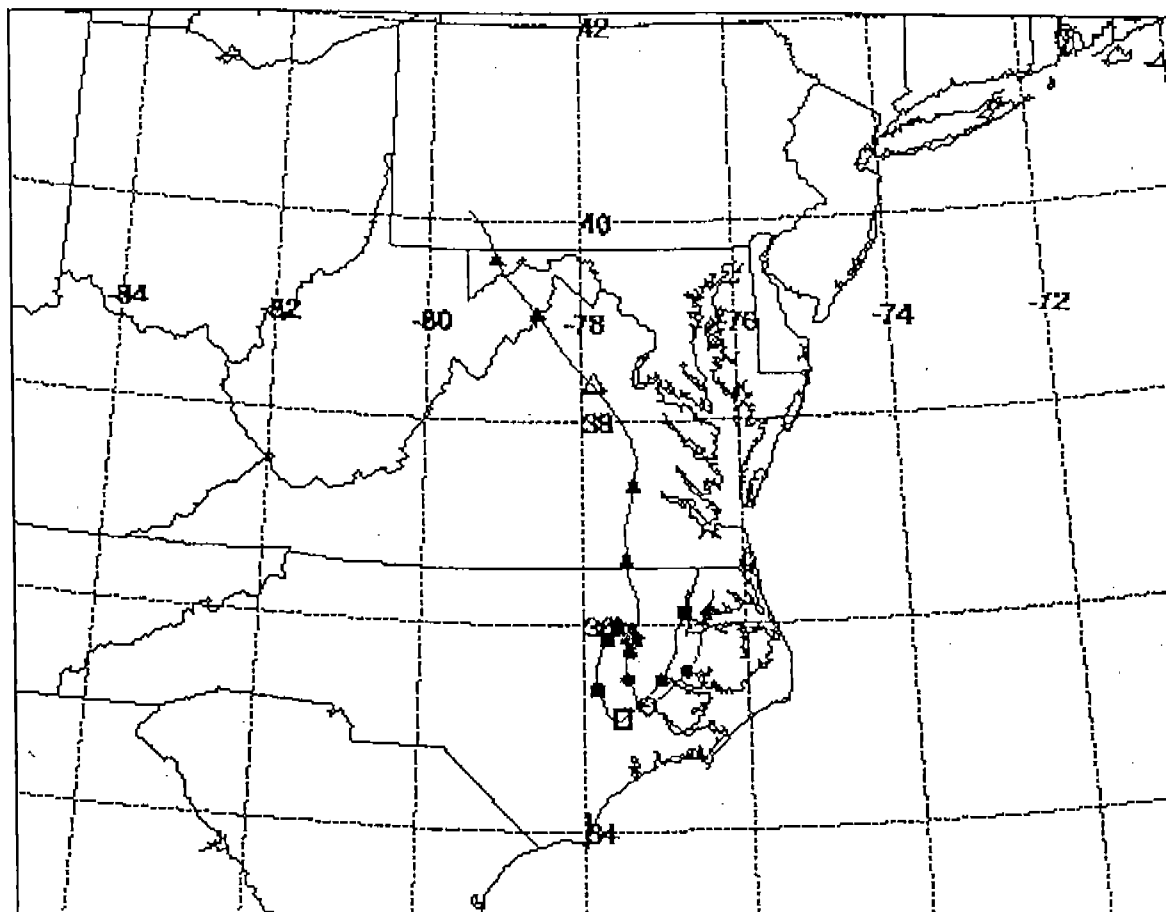
NOAA Air Resources Laboratory

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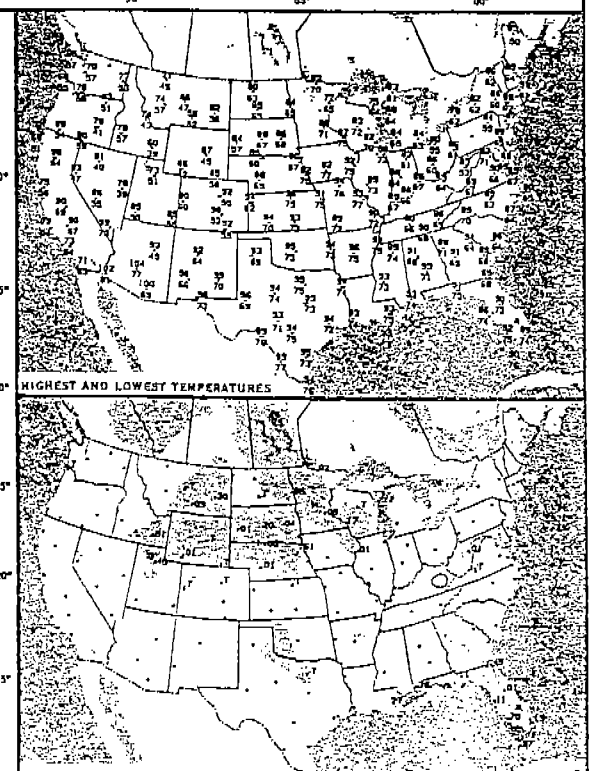
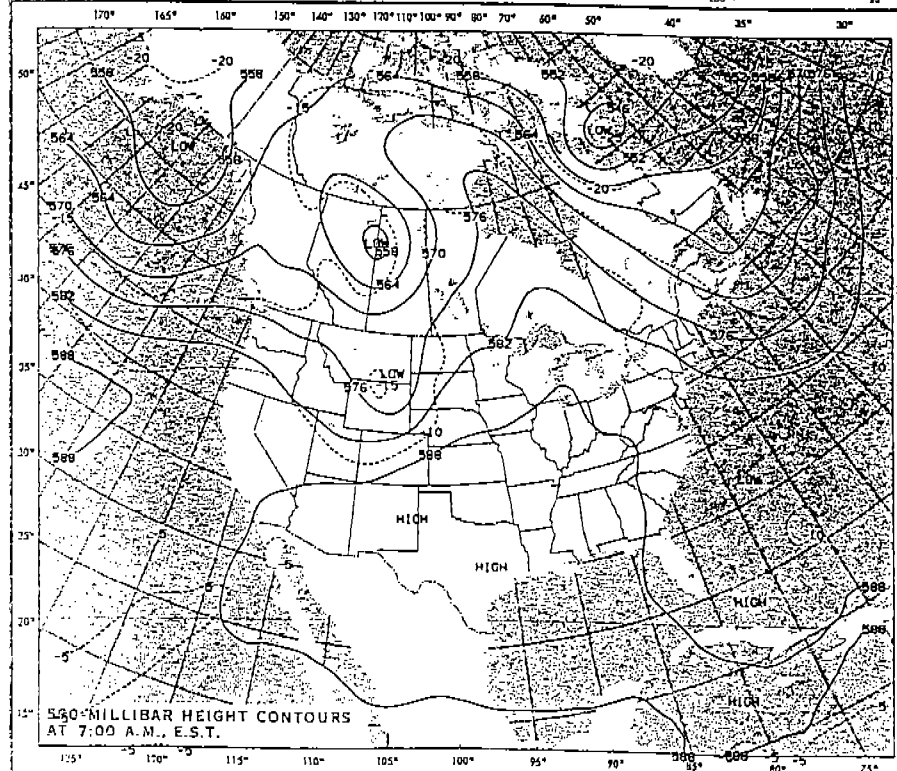
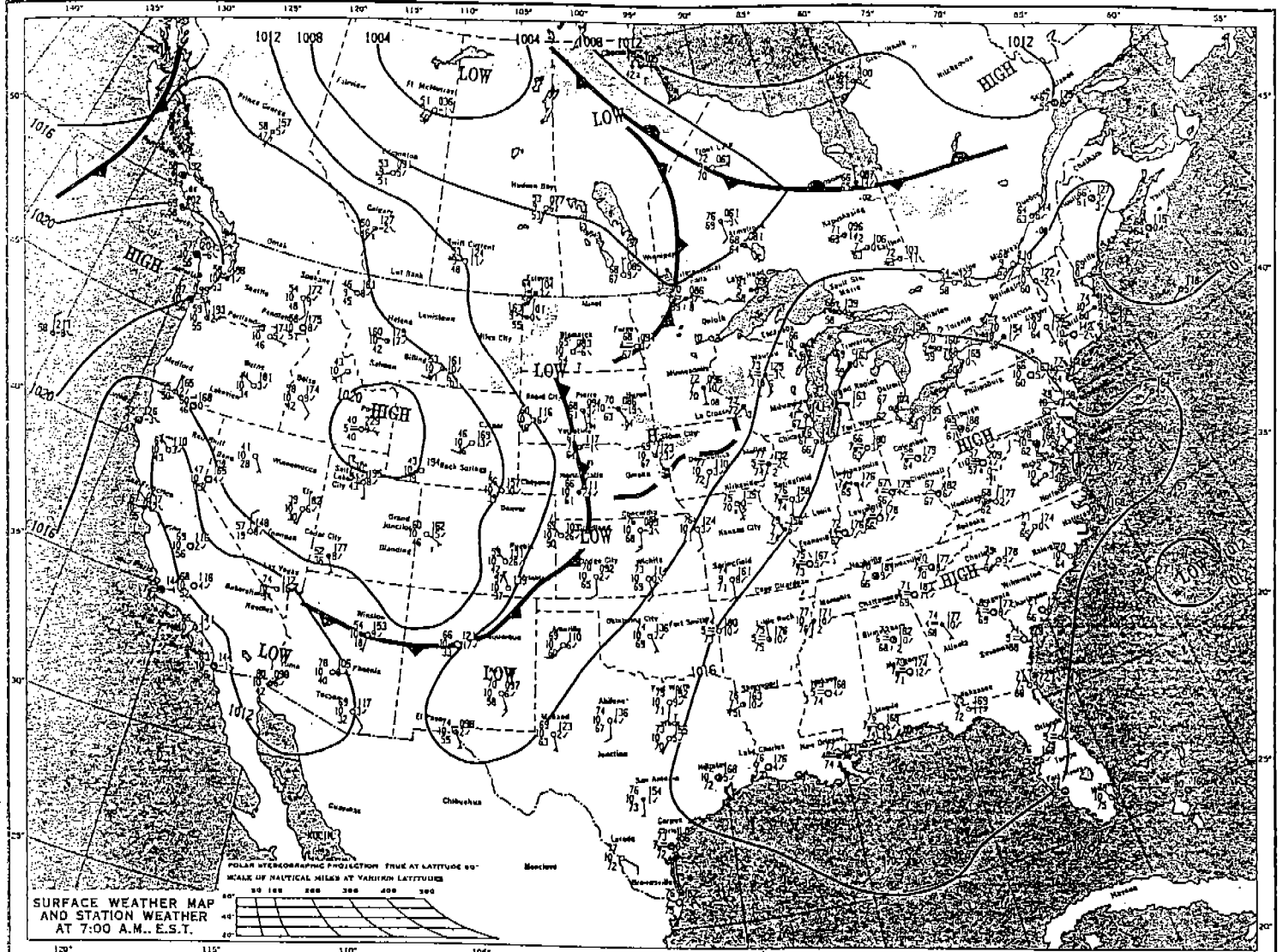
NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 20 UTC 13 JUL 97

Source Location ★ at 35.99 N 77.58 W

EDAS Meteorological Data
Vertical Motion Method - OMEGA



SUNDAY, JULY 13, 1997



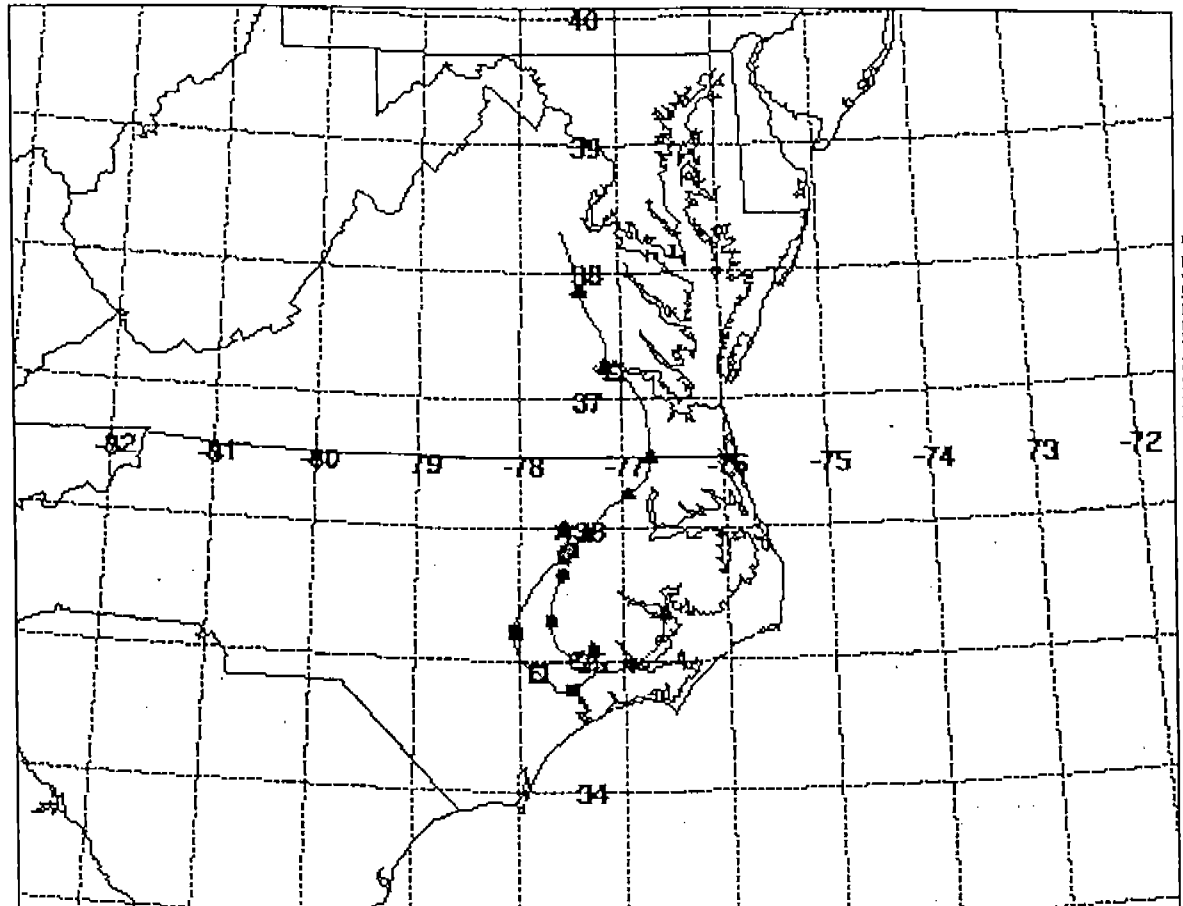


NOAA Air Resources Laboratory

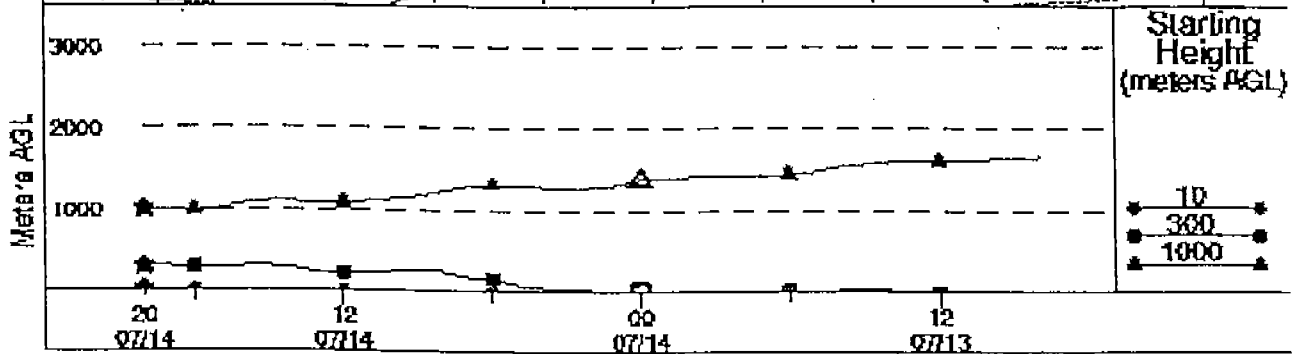
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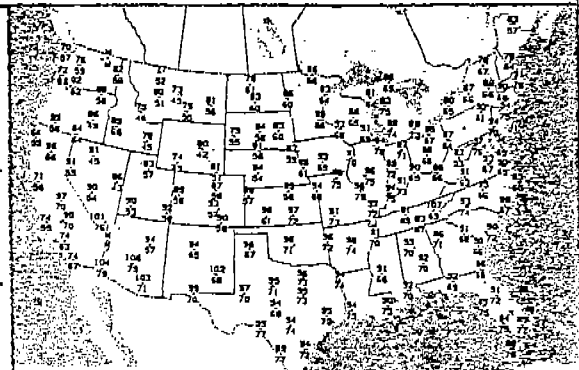
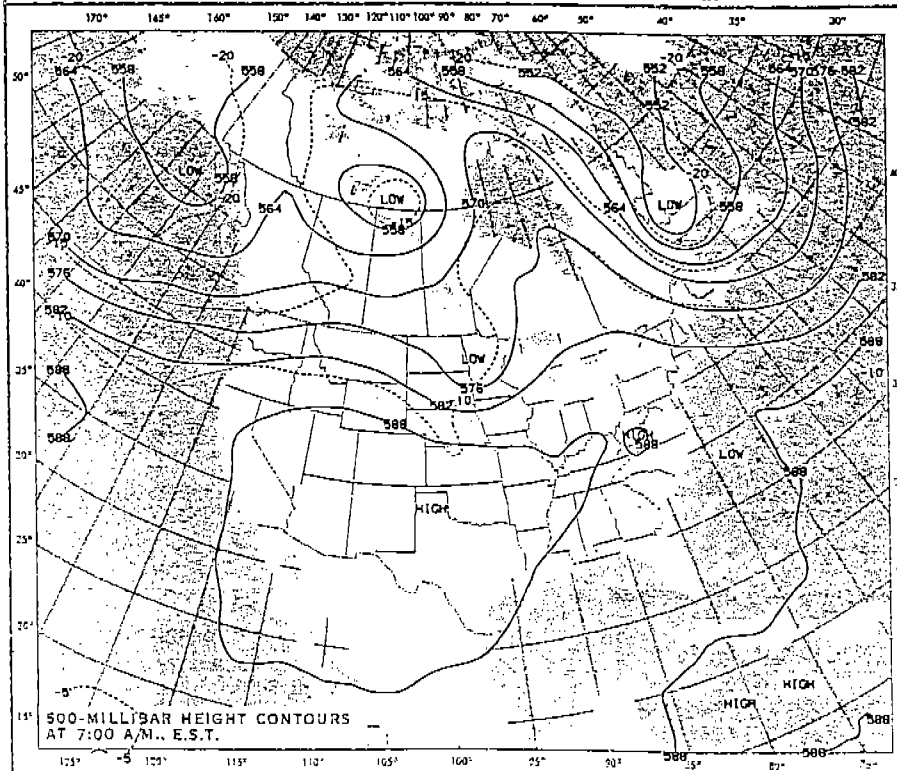
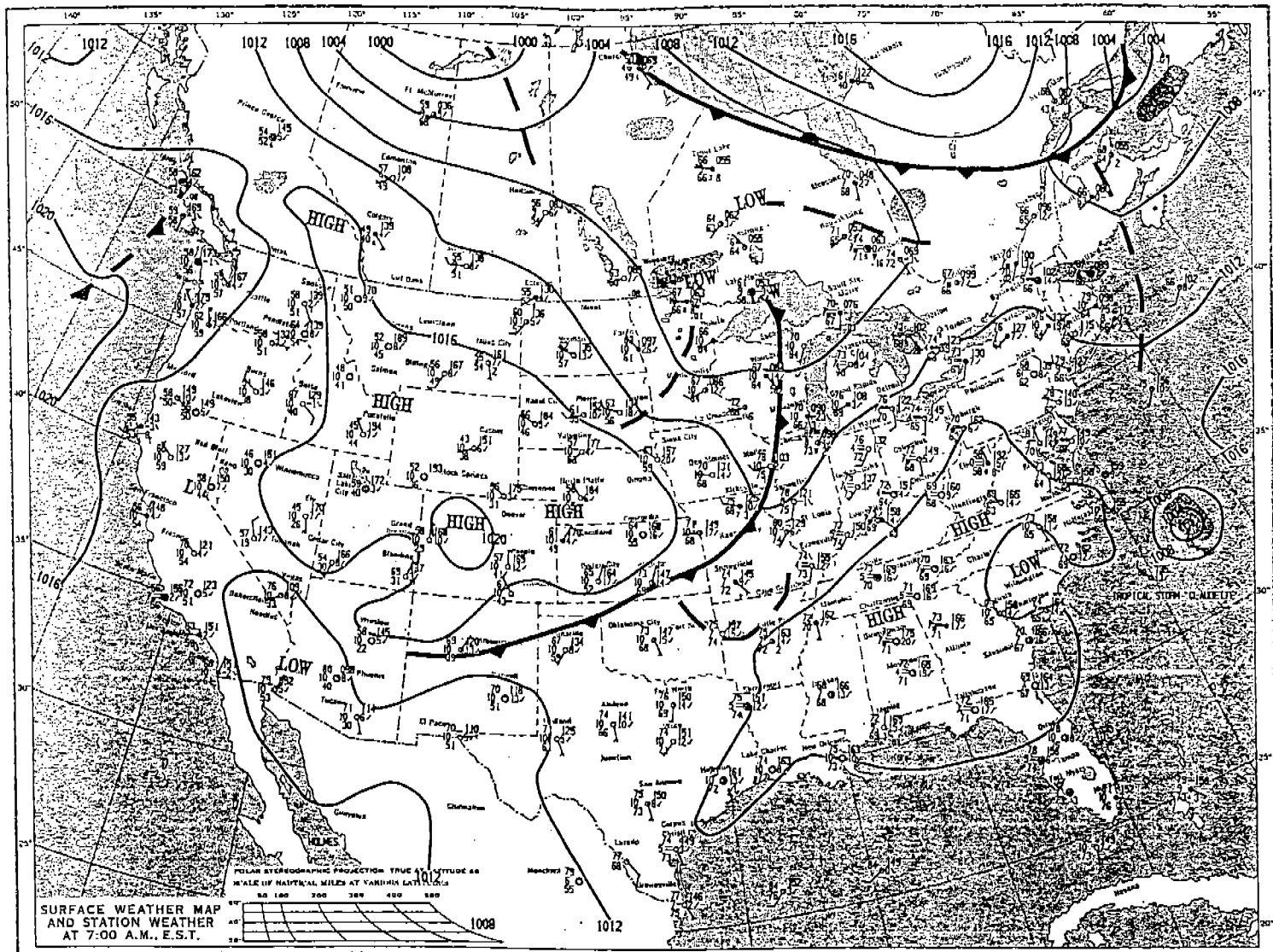
NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 20 UTC 14 JUL 97

Source Location ★ at 35.99 N 77.58 W



EDAS Meteorological Data
Vertical Motion Method - OMEGA





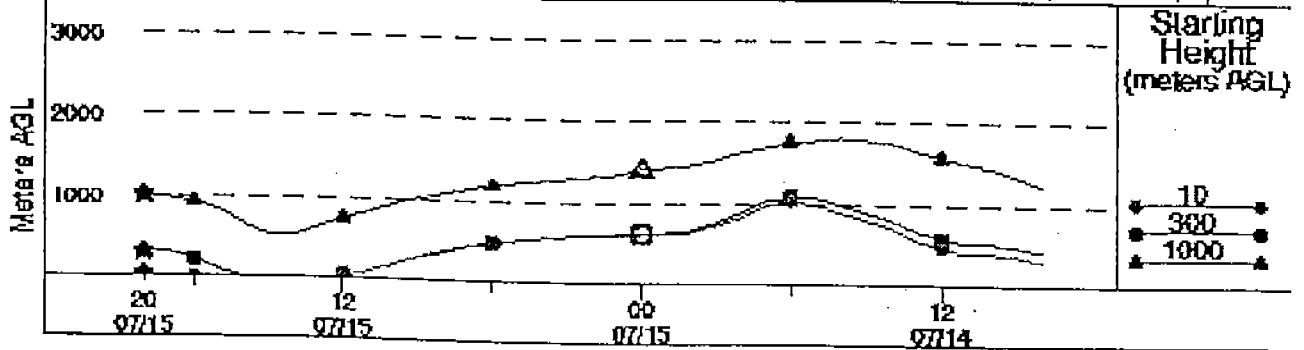
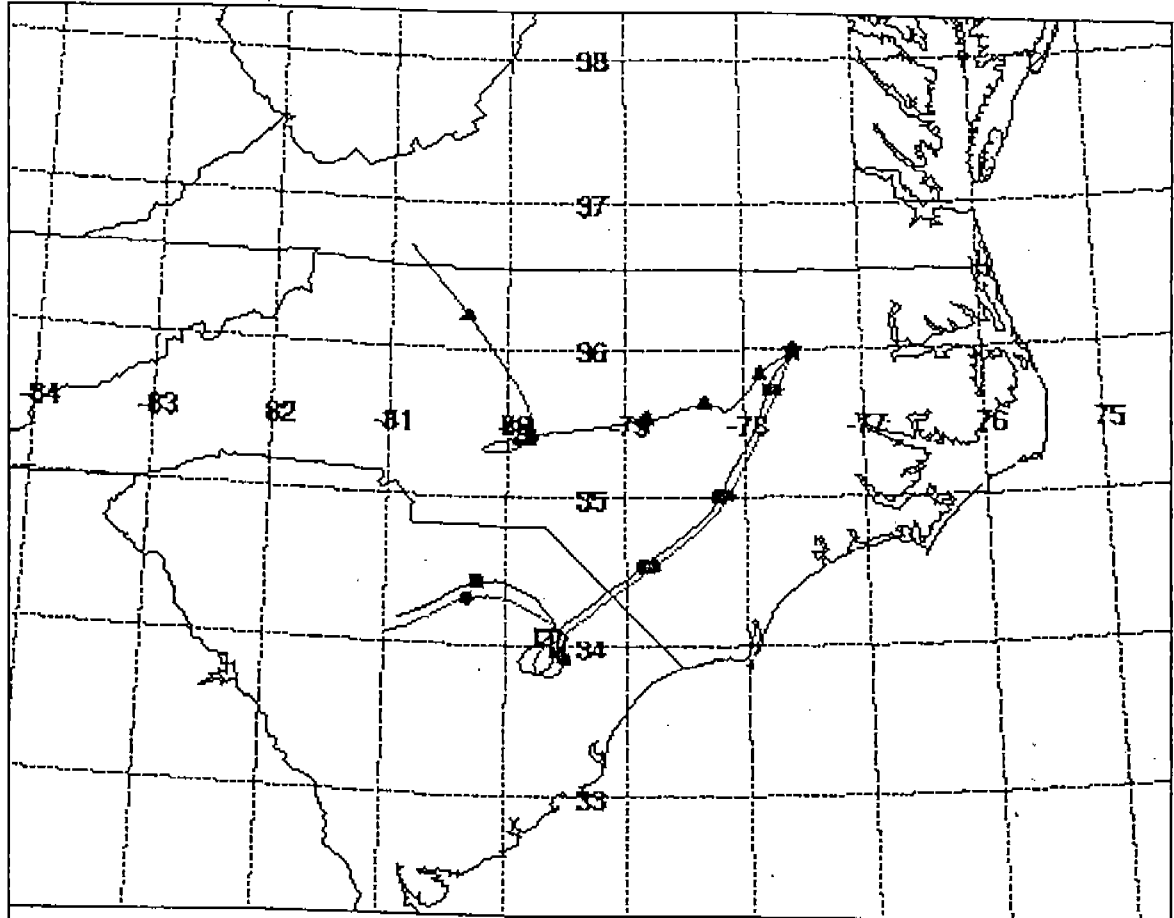


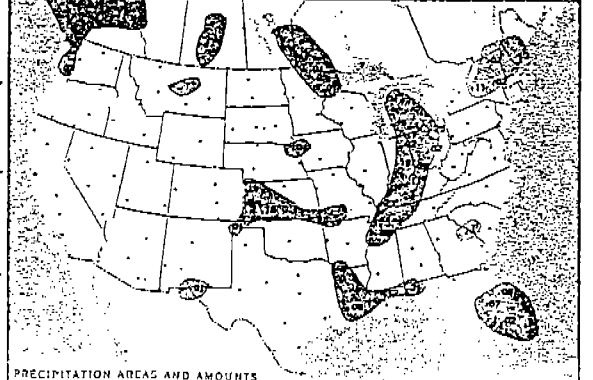
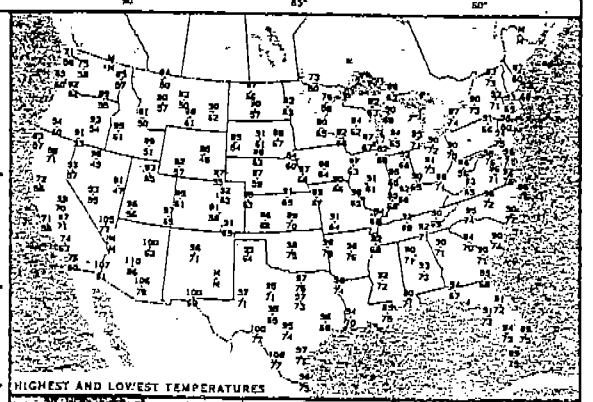
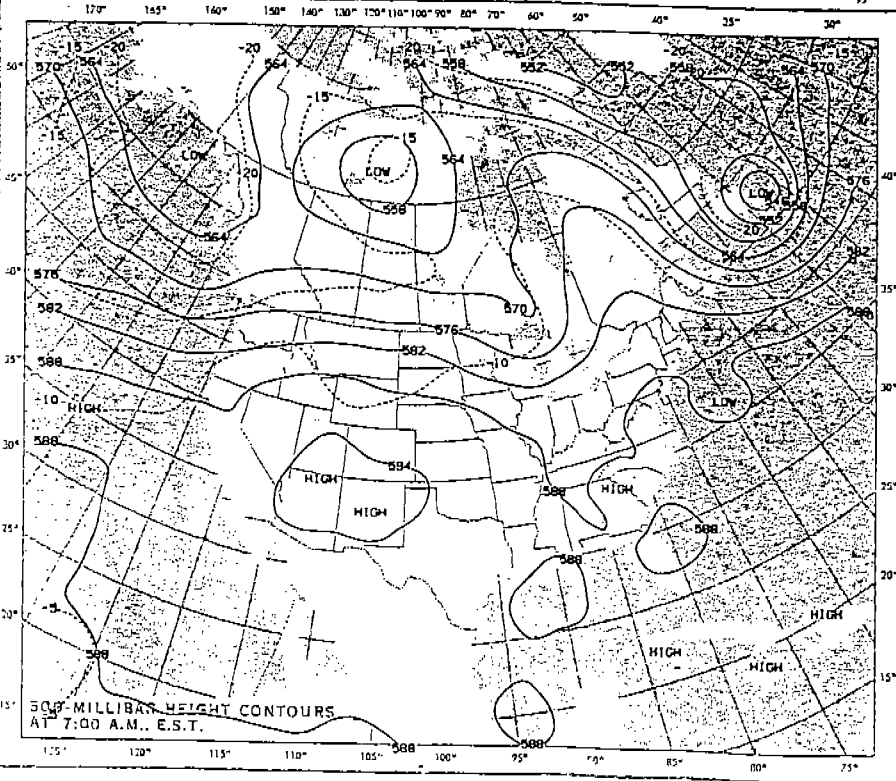
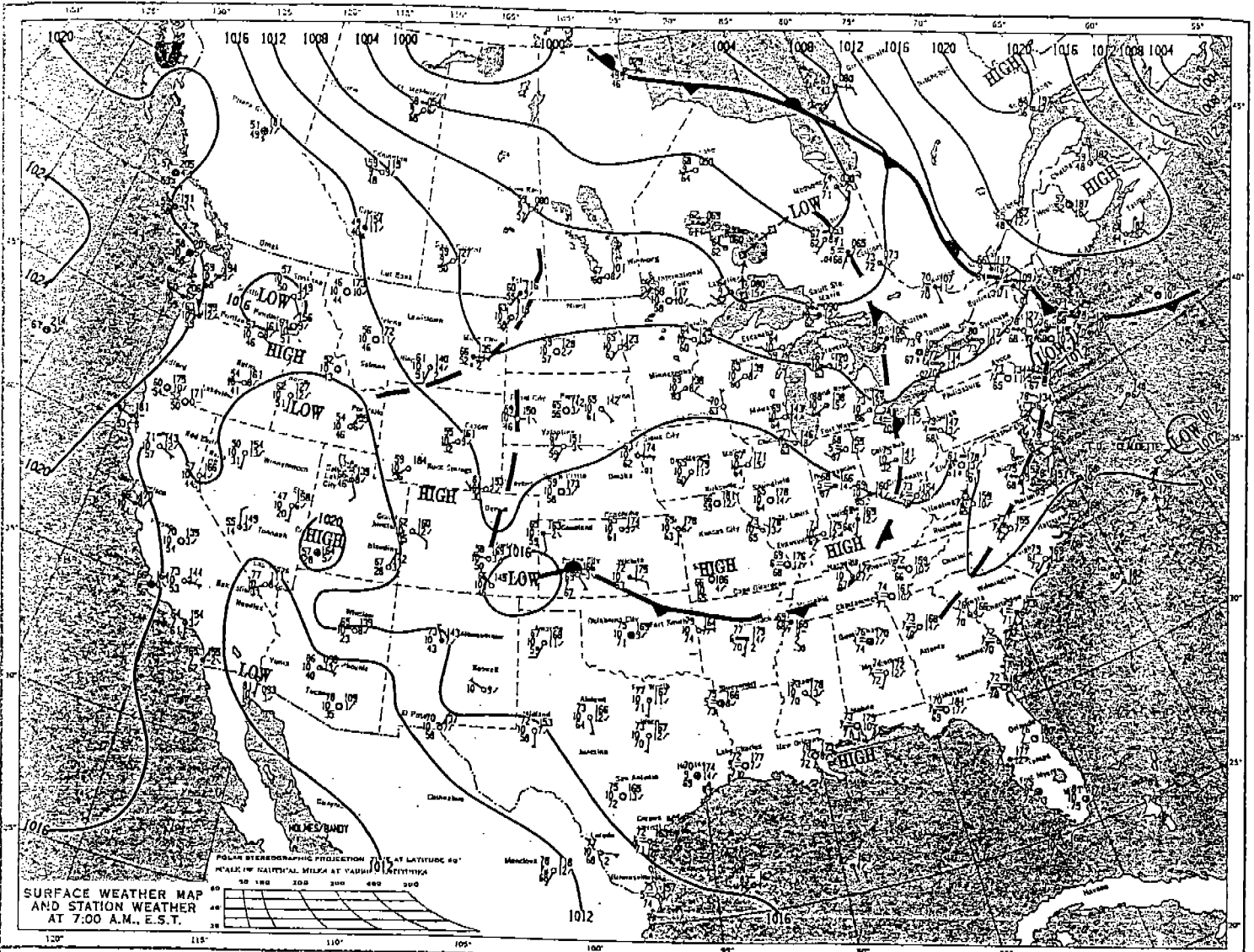
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NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 20 UTC 15 JUL 97

Source Location ★ at 35.99 N 77.58 W





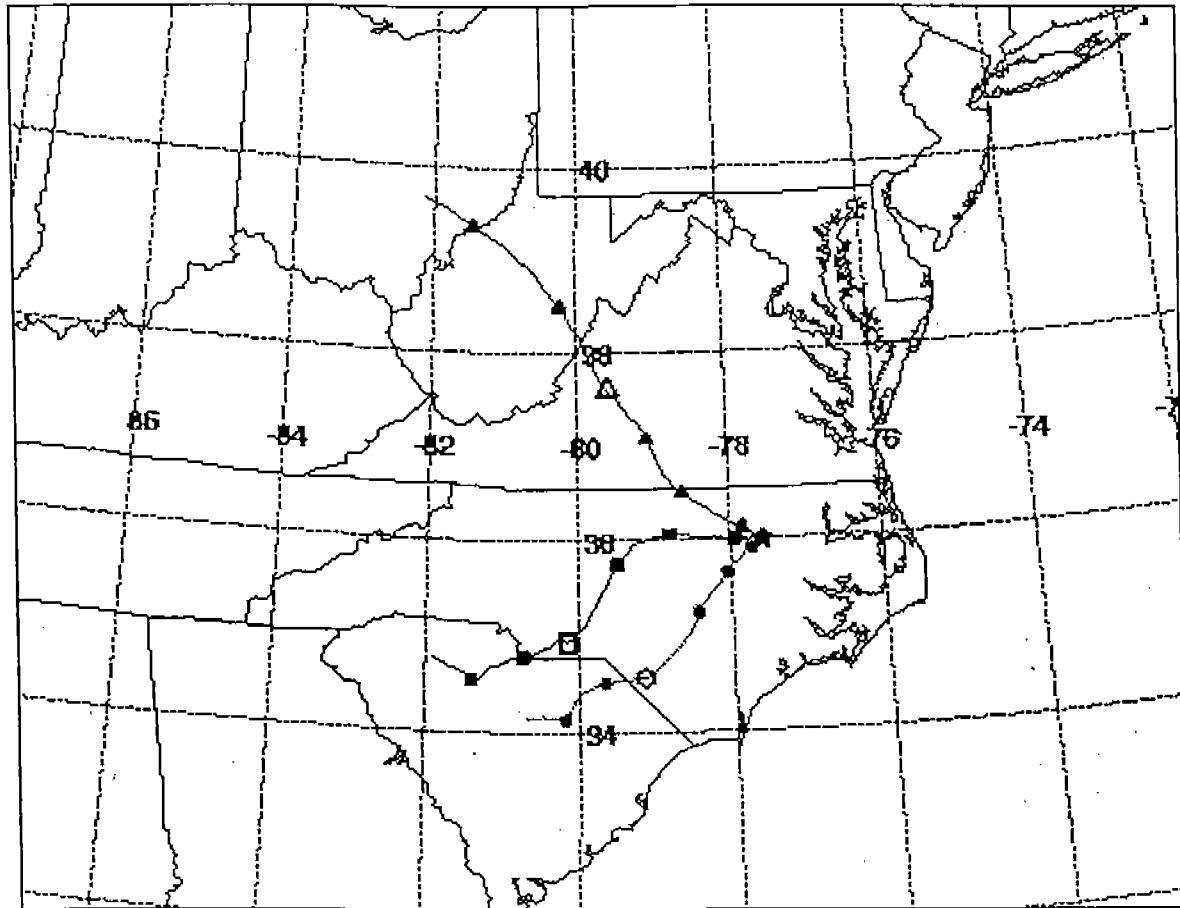


NOAA Air Resources Laboratory

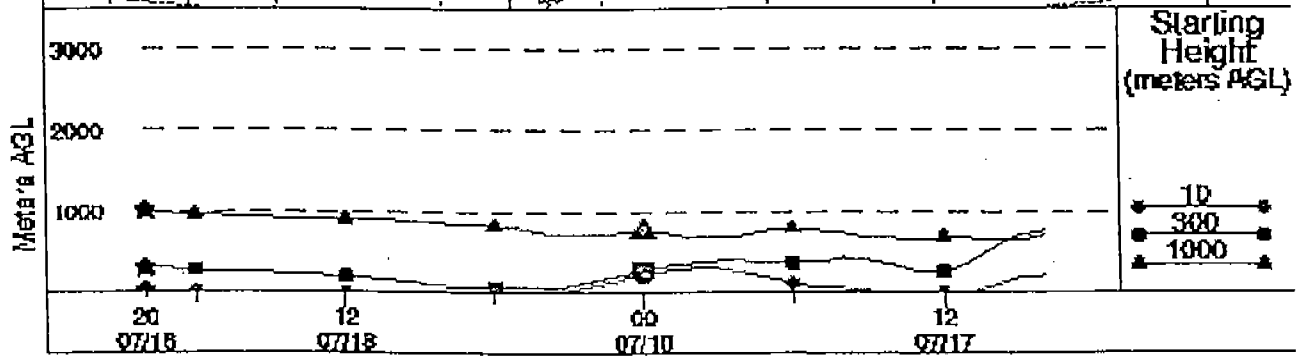
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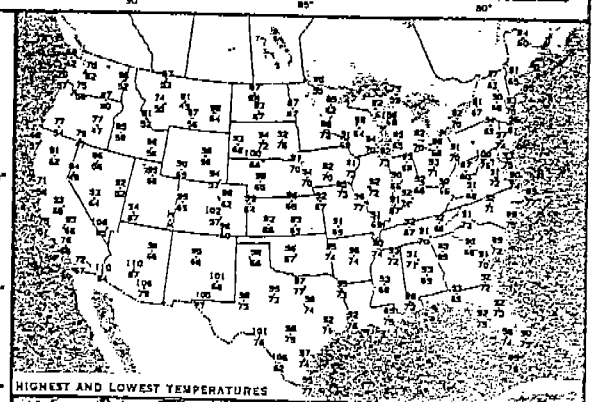
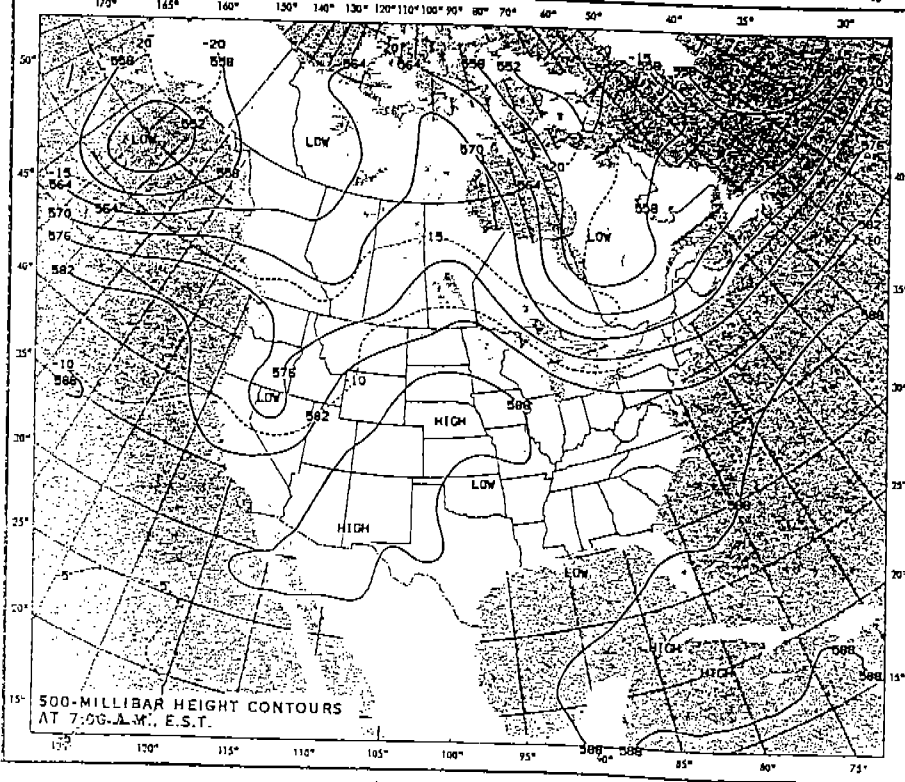
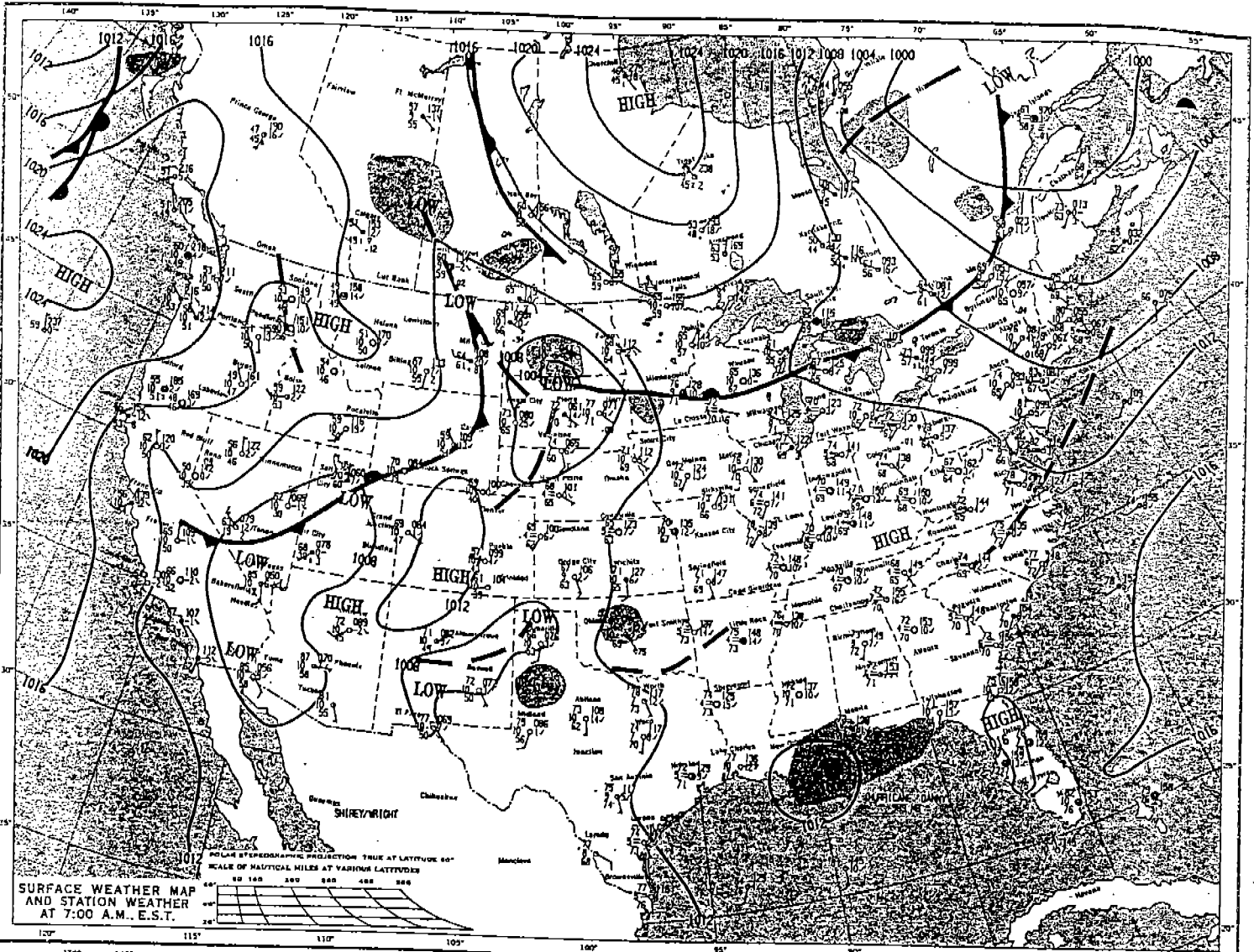
NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 20 UTC 18 JUL 97

Source Location ★ at 35.98 N 77.58 W



EDAS Meteorological Data
Vertical Motion Method - OMEGA





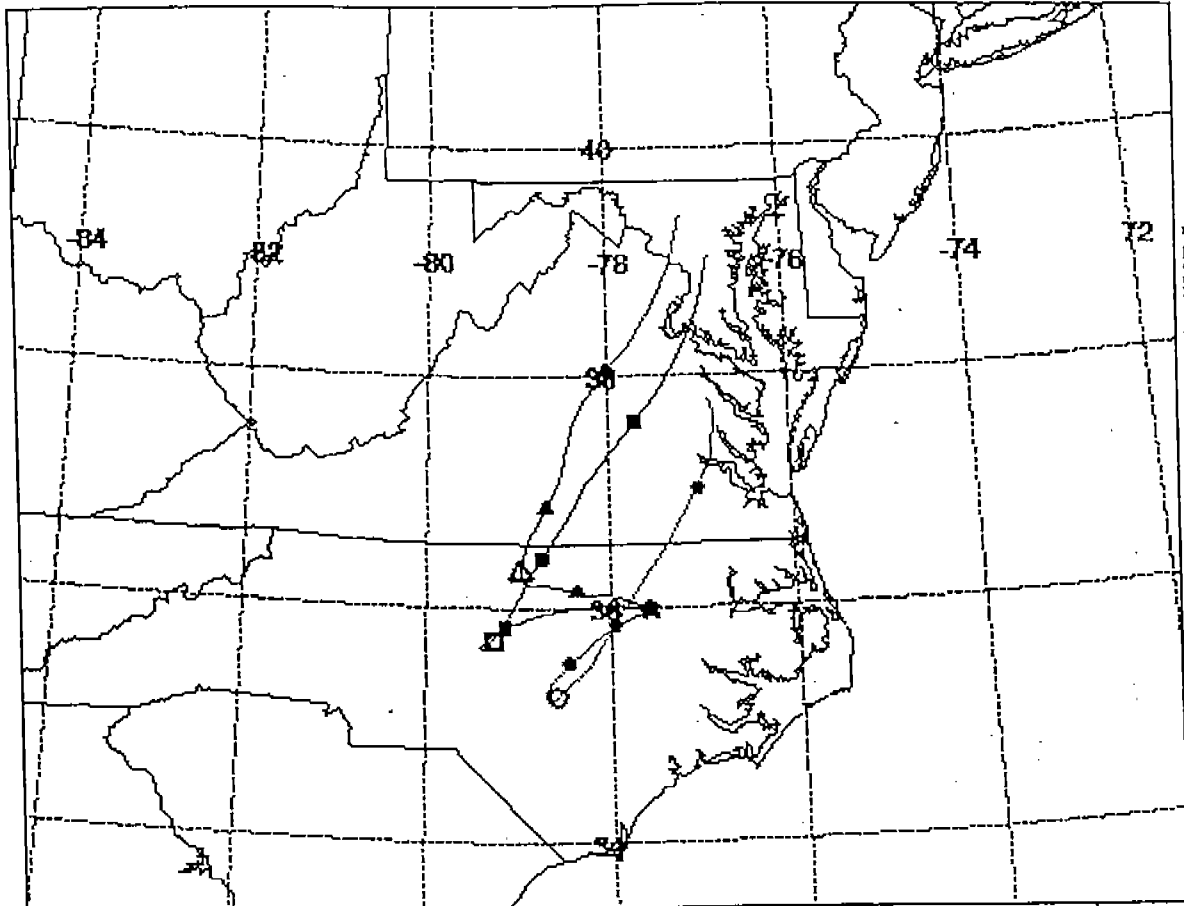


NOAA Air Resources Laboratory

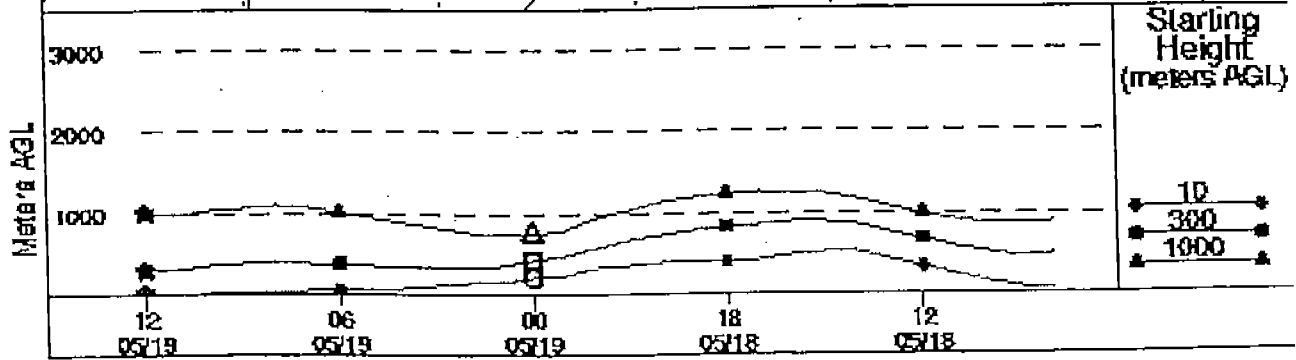
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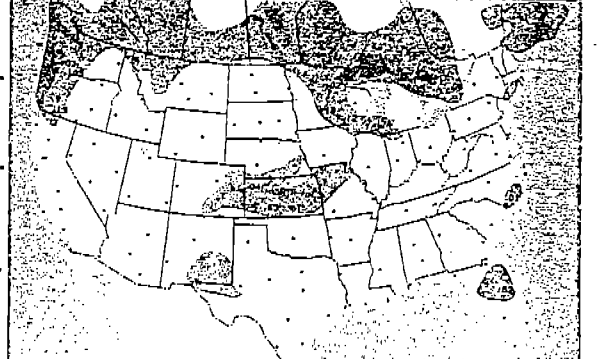
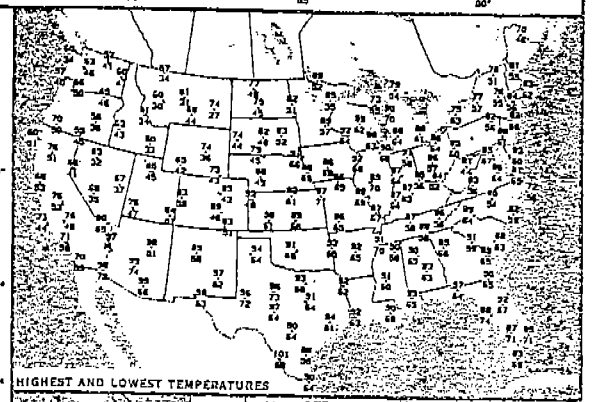
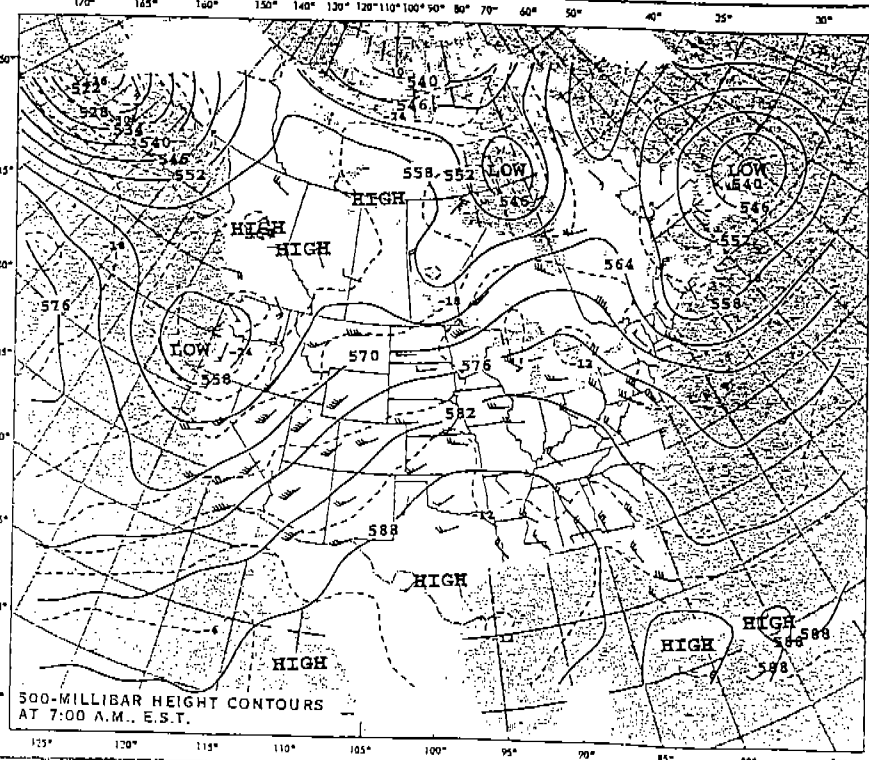
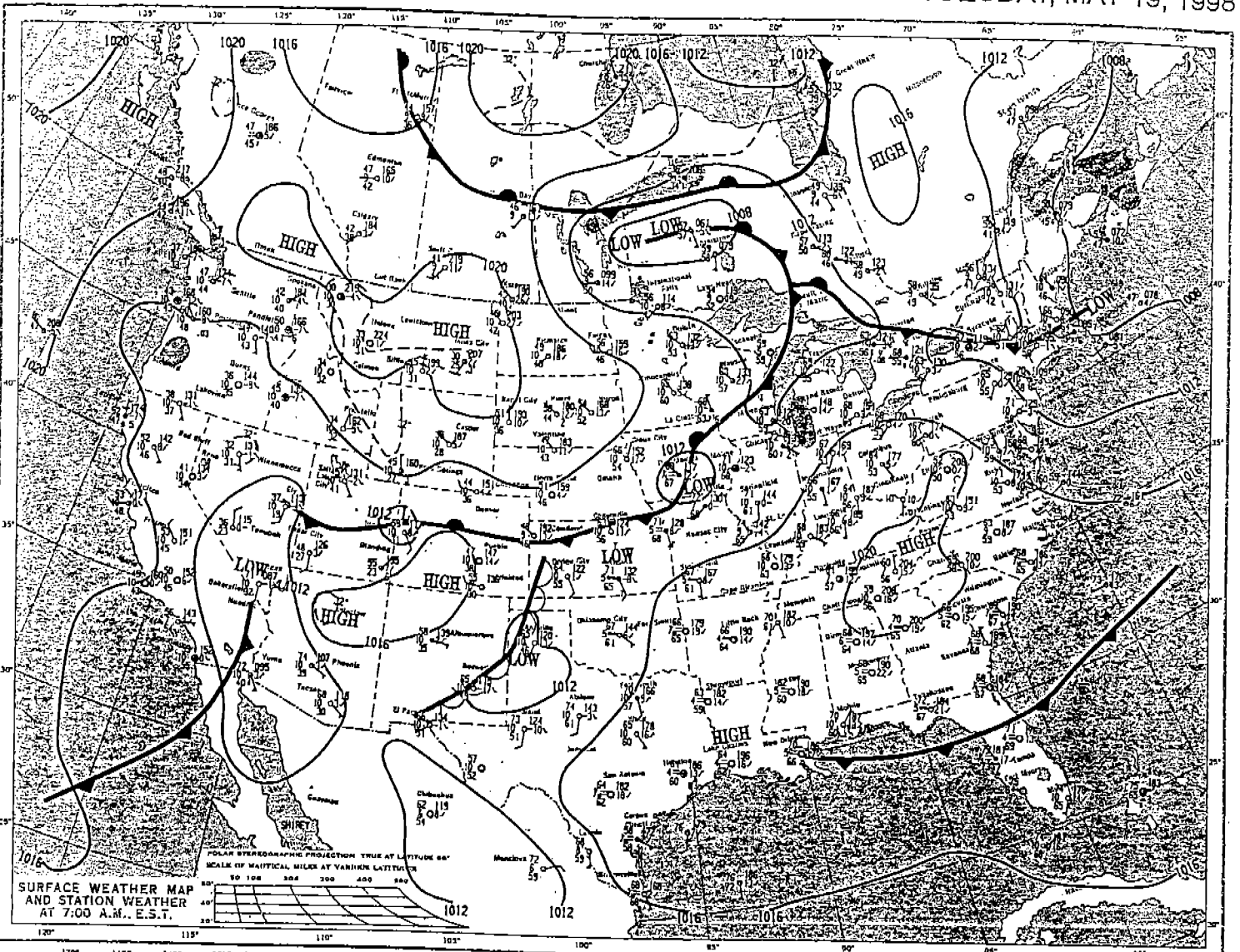
NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 12 UTC 19 MAY 98

Source Location * at 35.89 N 77.58 W



EDAS Meteorological Data
Vertical Motion Method - OMEGA





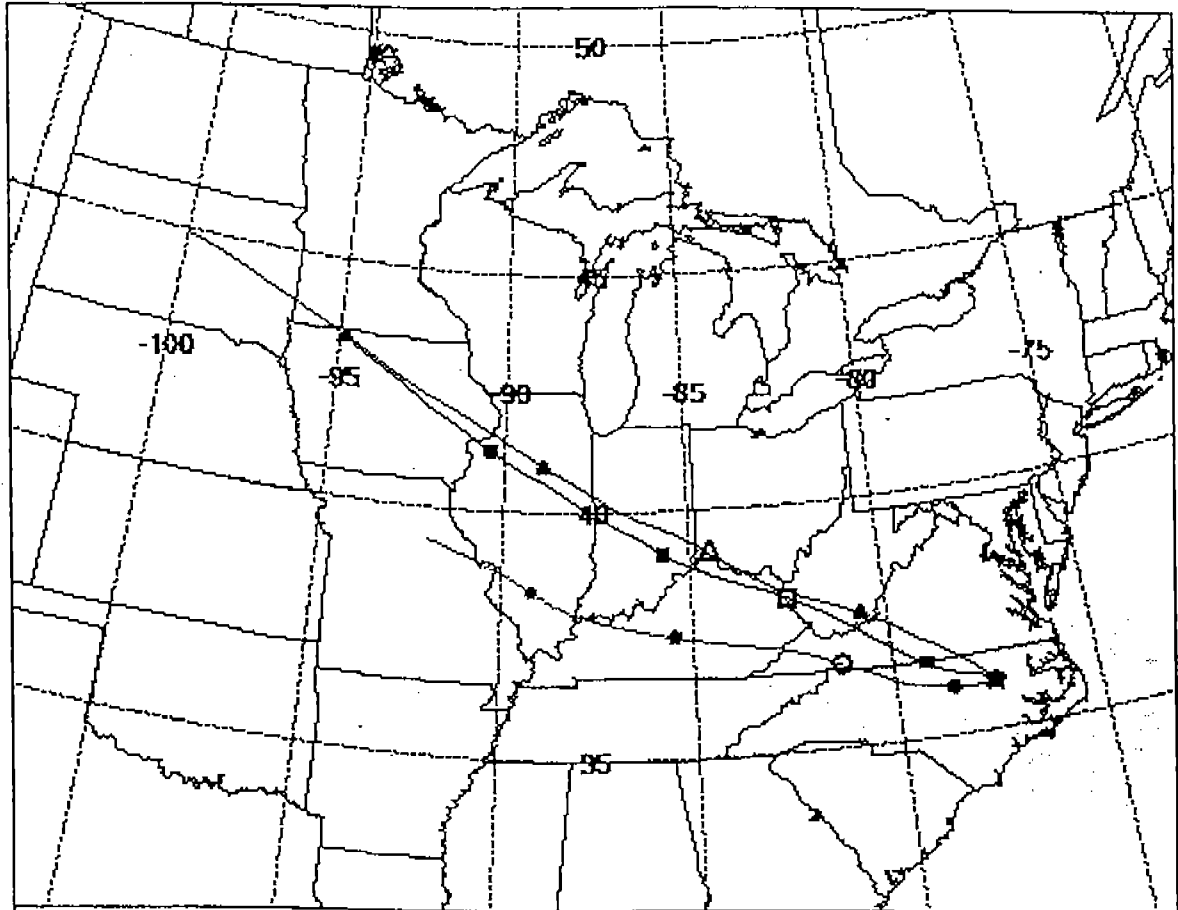


NOAA Air Resources Laboratory

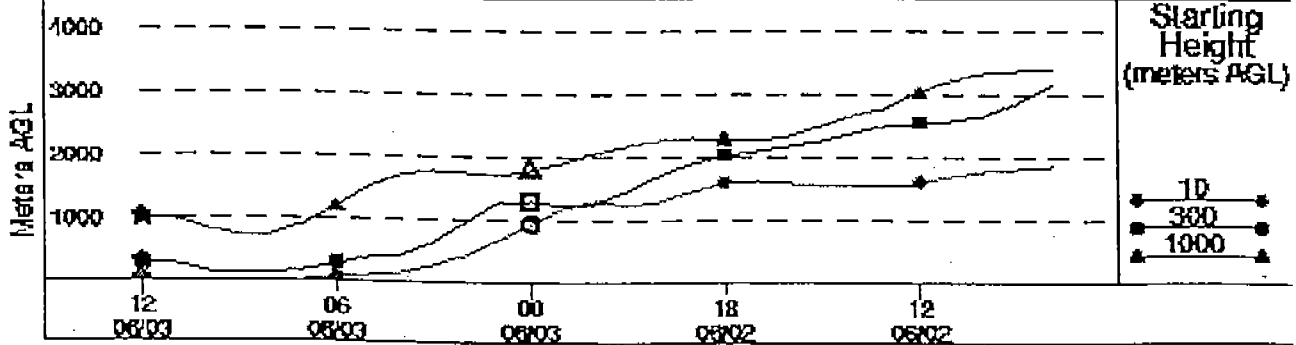
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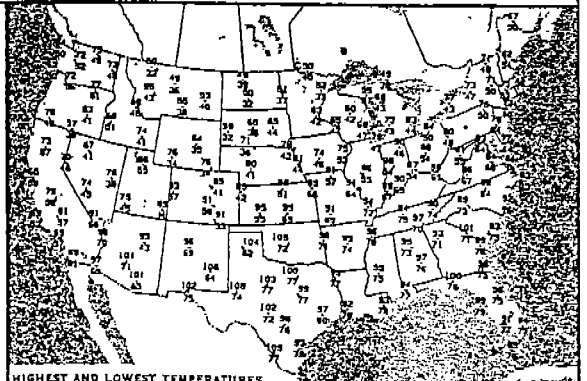
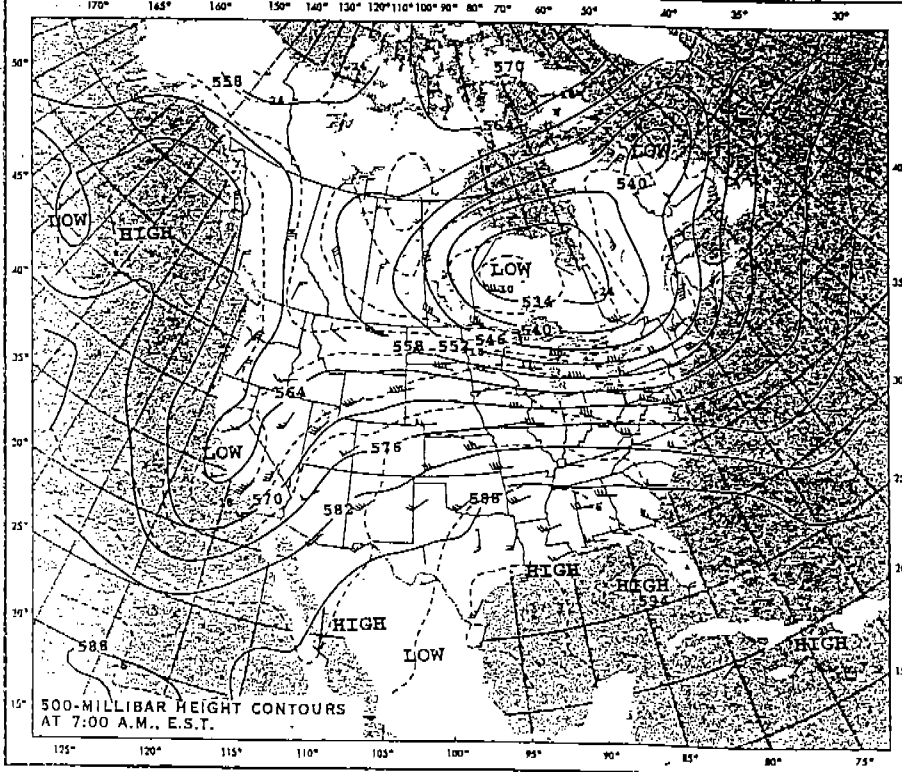
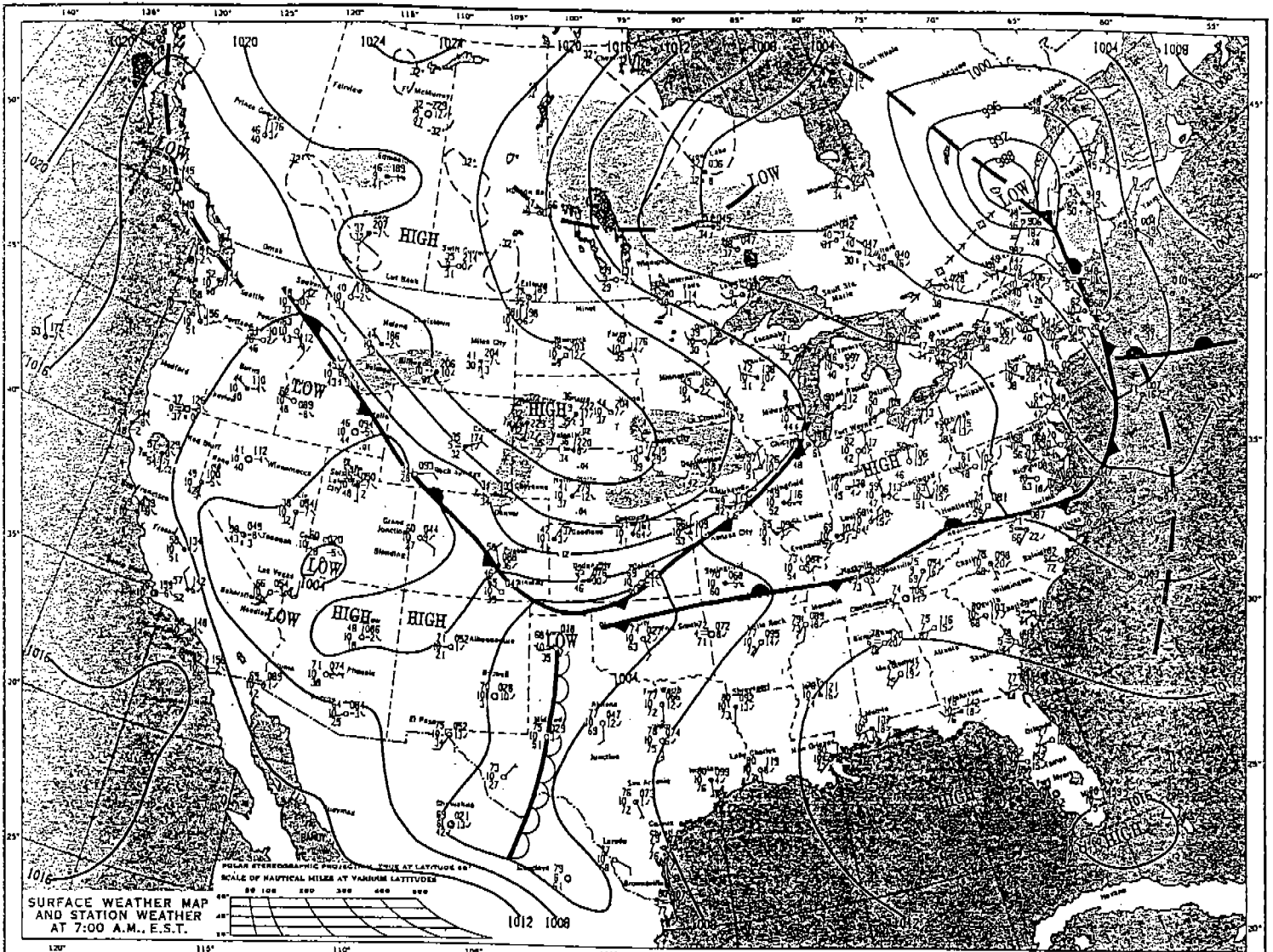
NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 12 UTC 03 JUN 98

Source Location * at 35.89 N 77.58 W



EDAS Meteorological Data
Vertical Motion Method - OMEGA





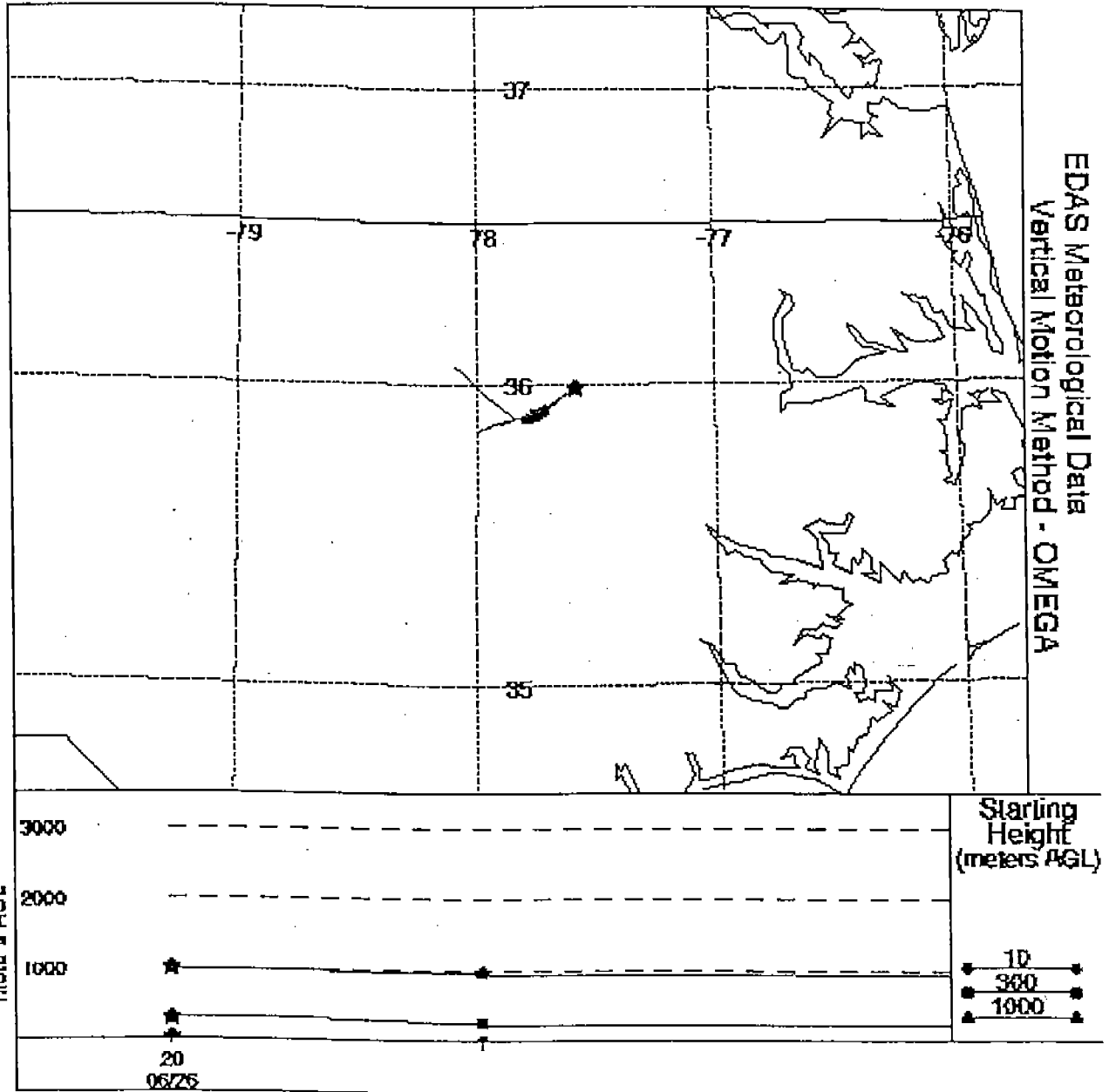


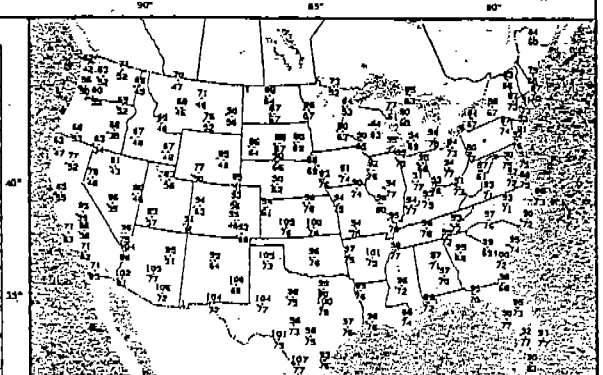
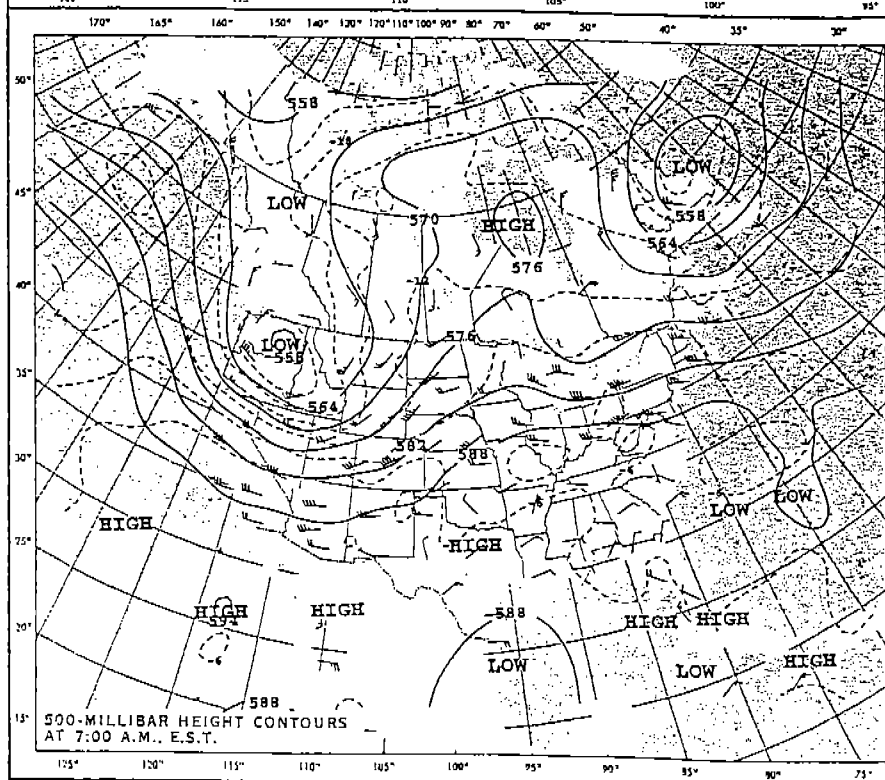
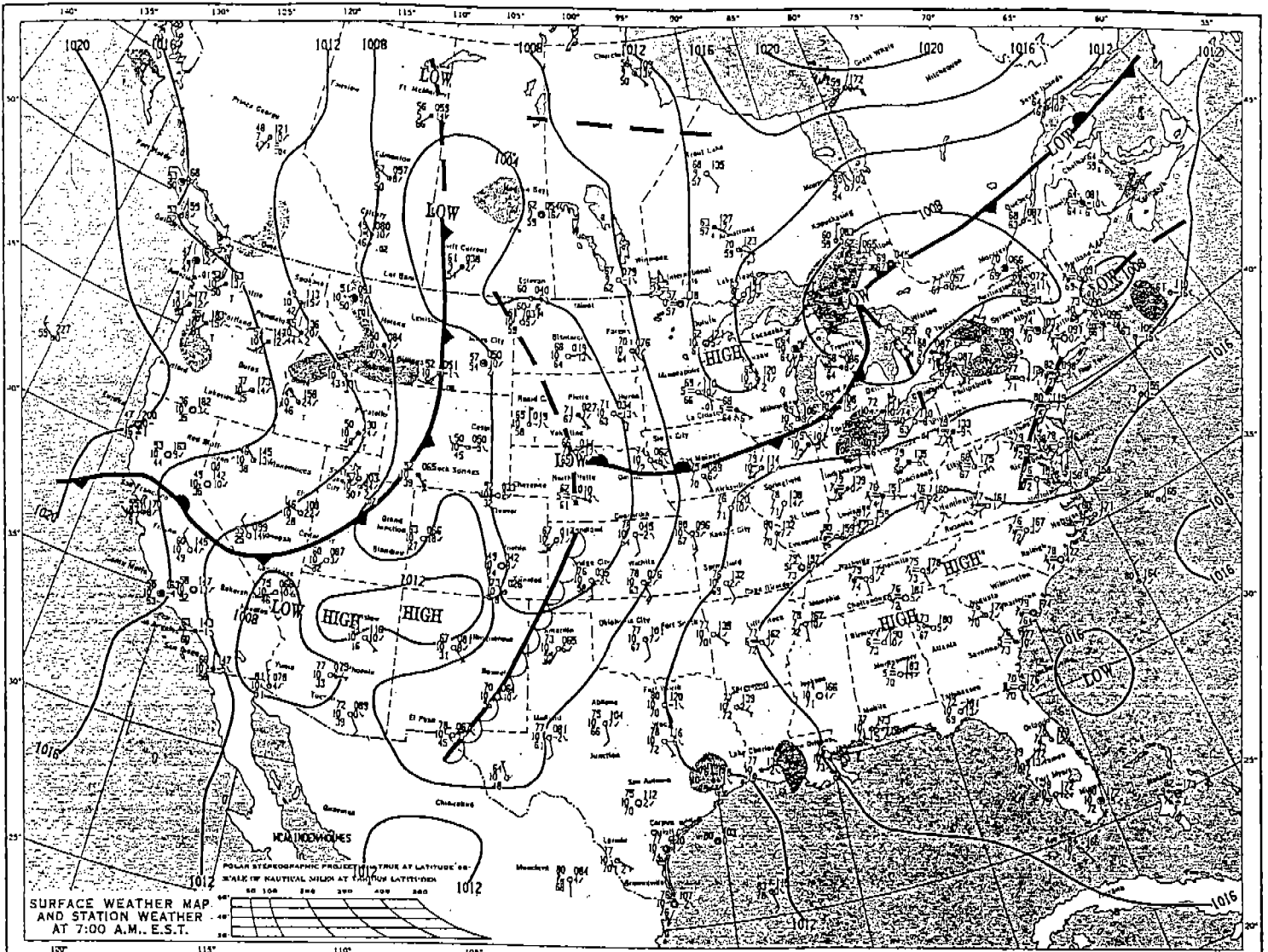
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NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 20 UTC 26 JUN 98

Source Location ★ at 35.99 N 77.58 W







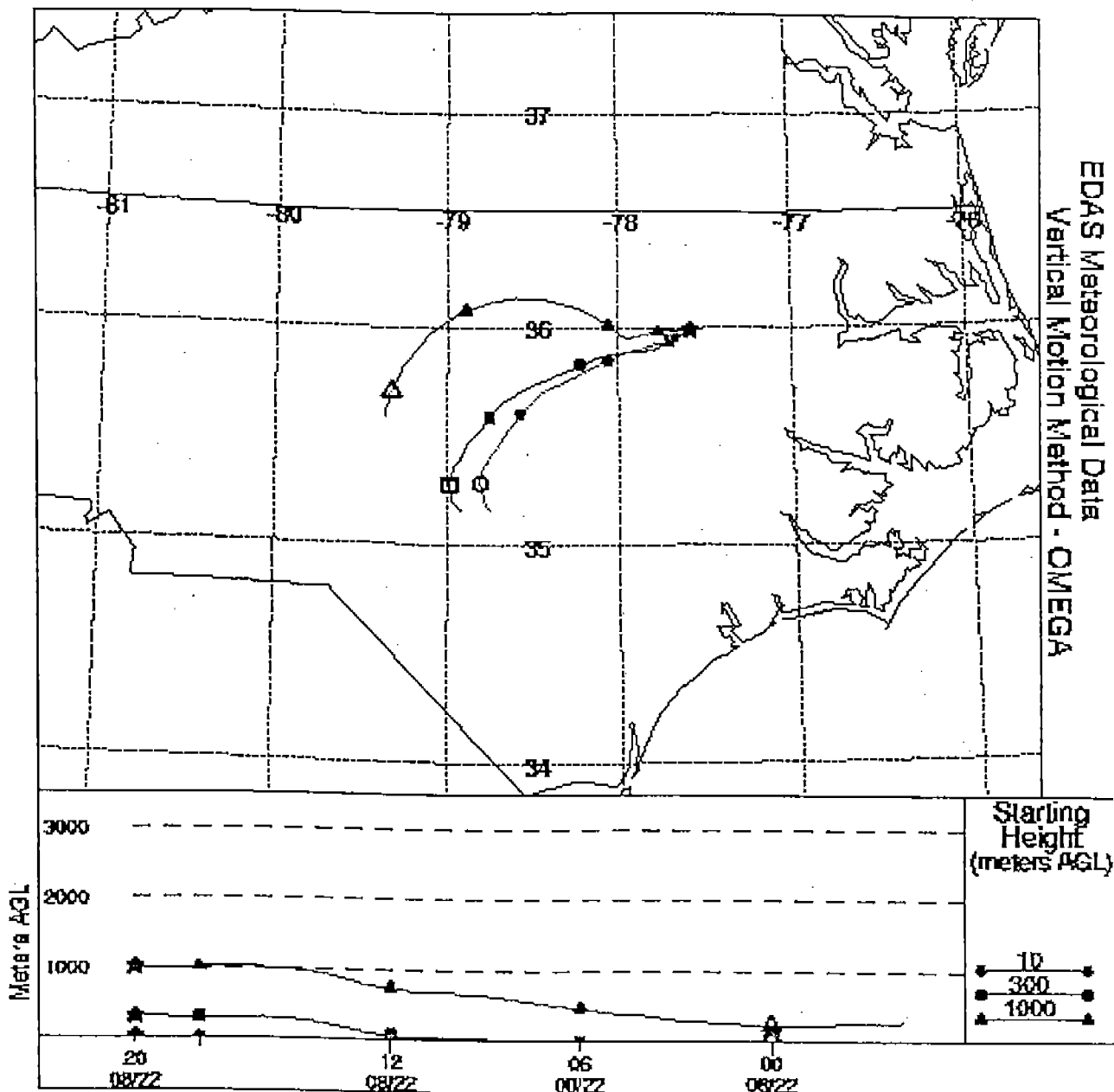
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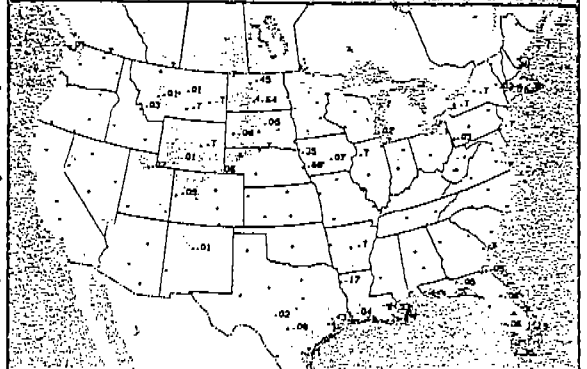
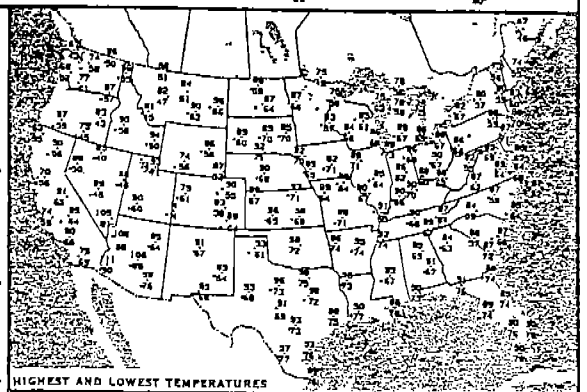
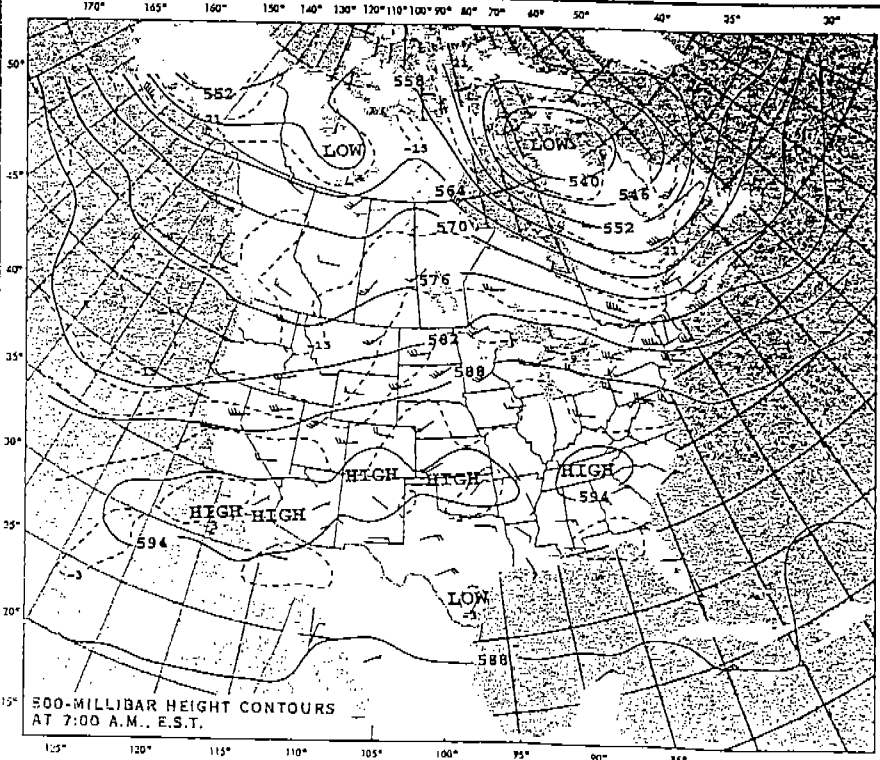
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NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 20 UTC 22 AUG 98

Source Location ★ at 35.69 N 77.58 W

EDAS Meteorological Data
Vertical Motion Method - OMEGA





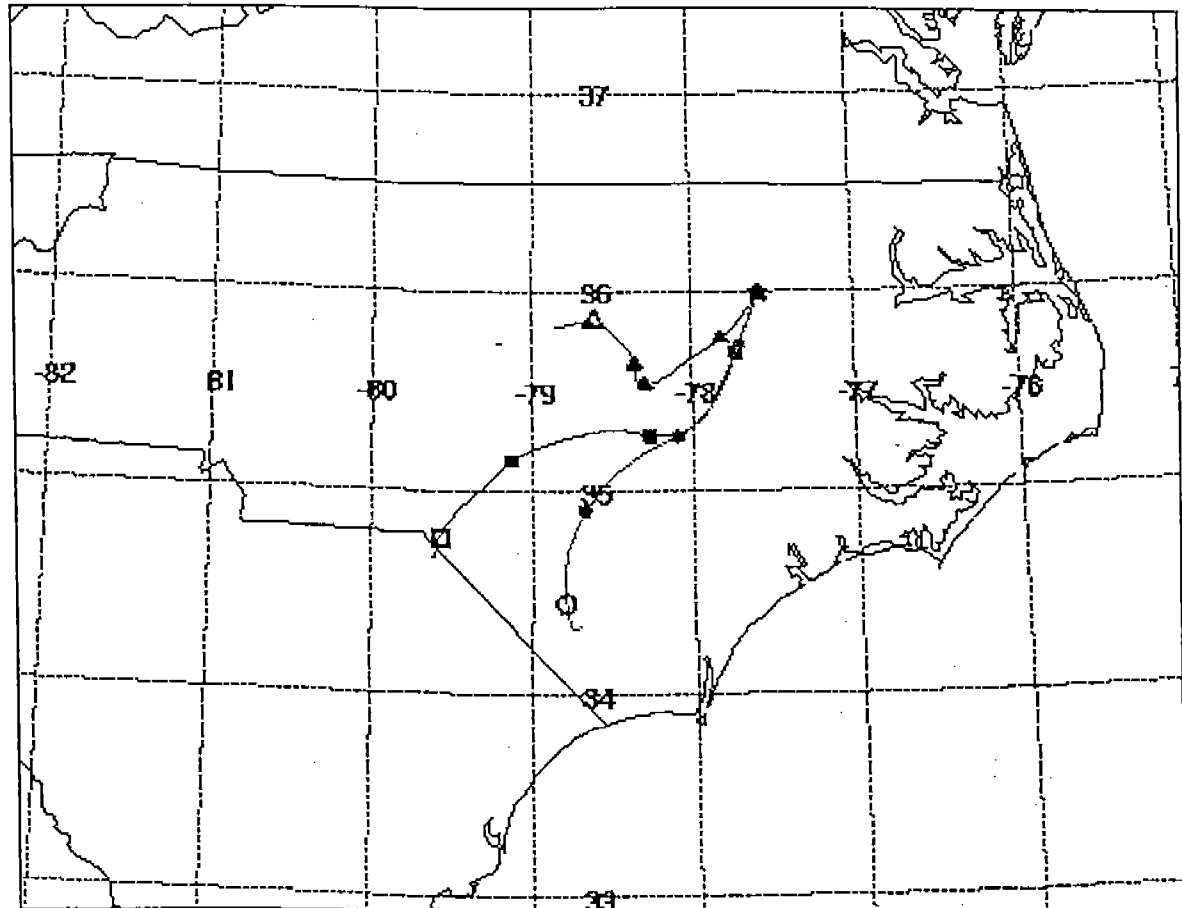


NOAA Air Resources Laboratory

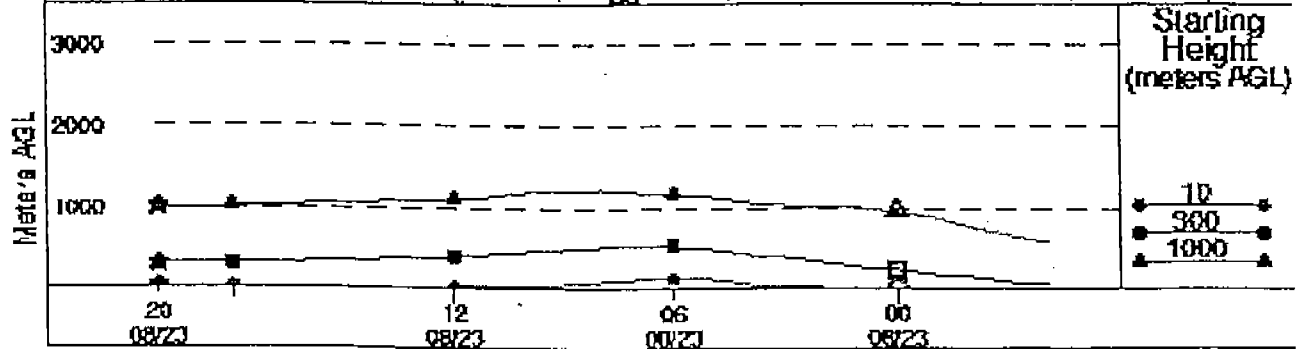
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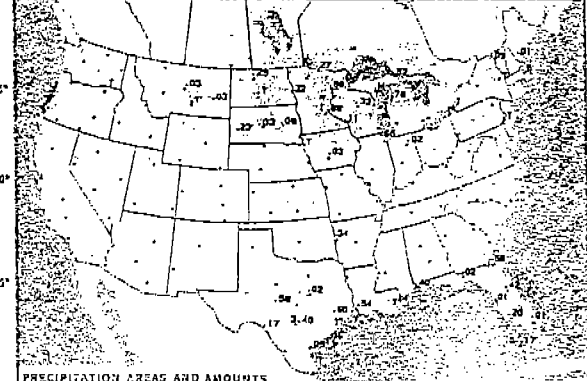
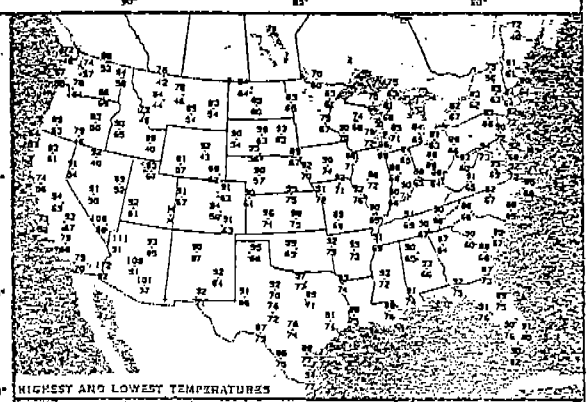
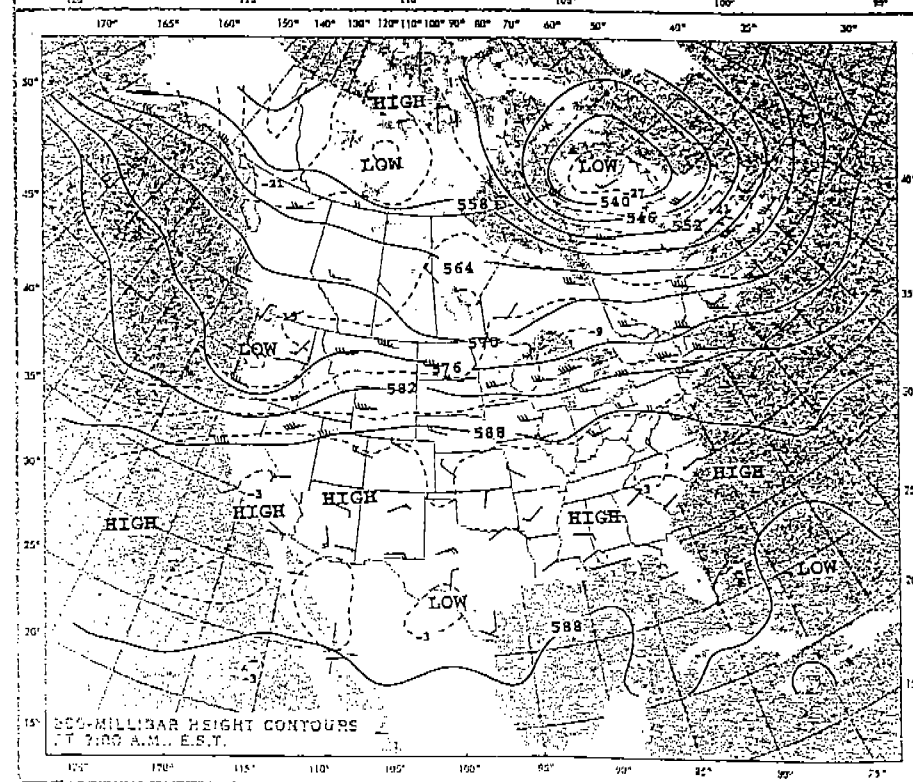
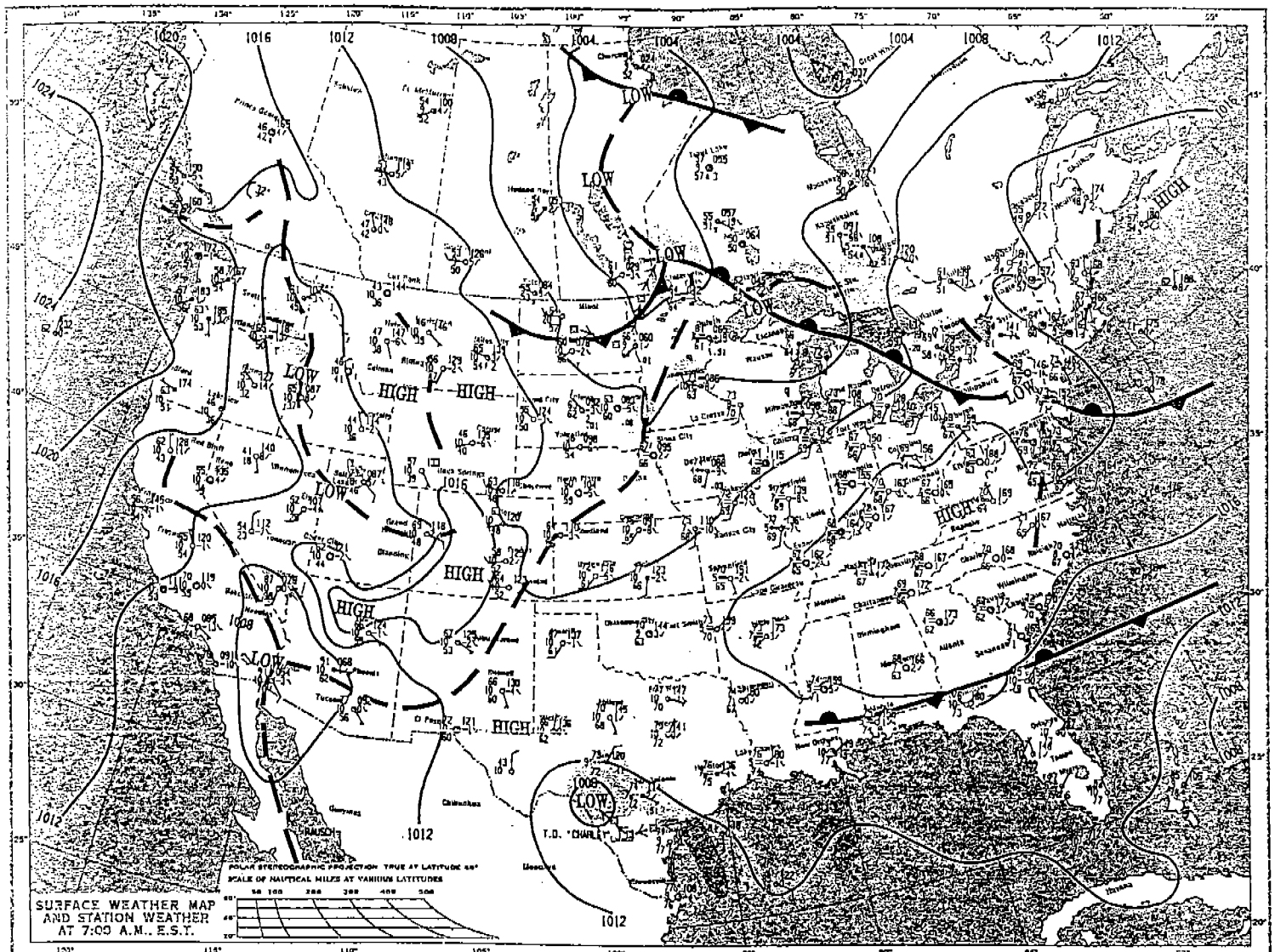
NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 20 UTC 23 AUG 98

Source Location ★ at 35.99 N 77.58 W



EDAS Meteorological Data
Vertical Motion Method - OMEGA







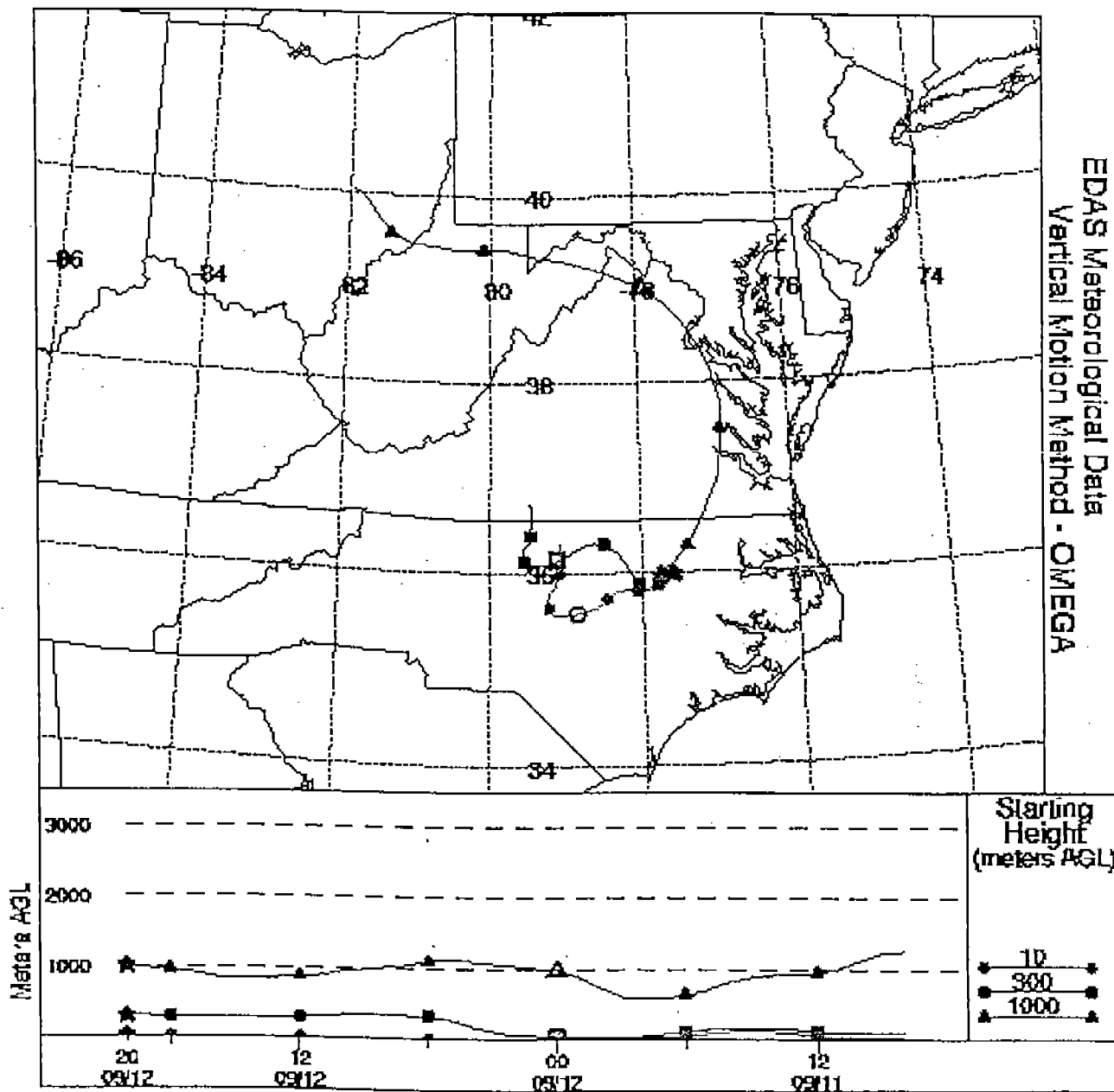
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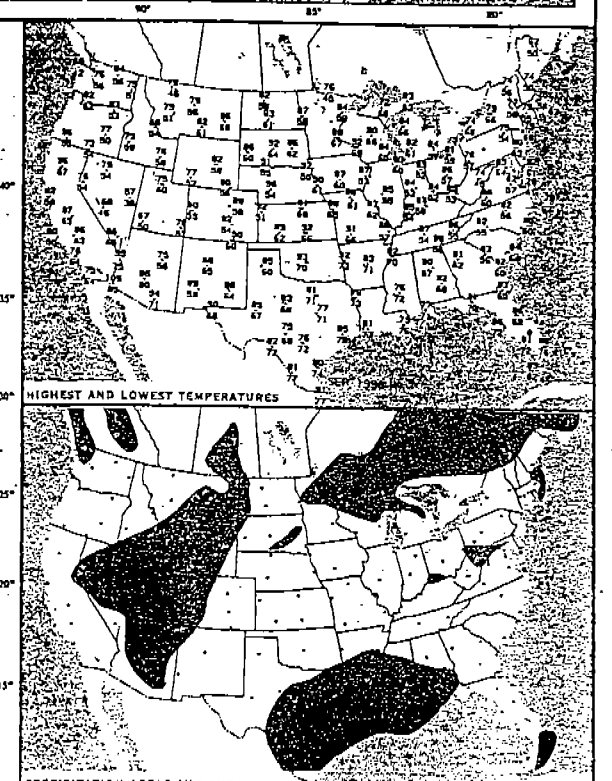
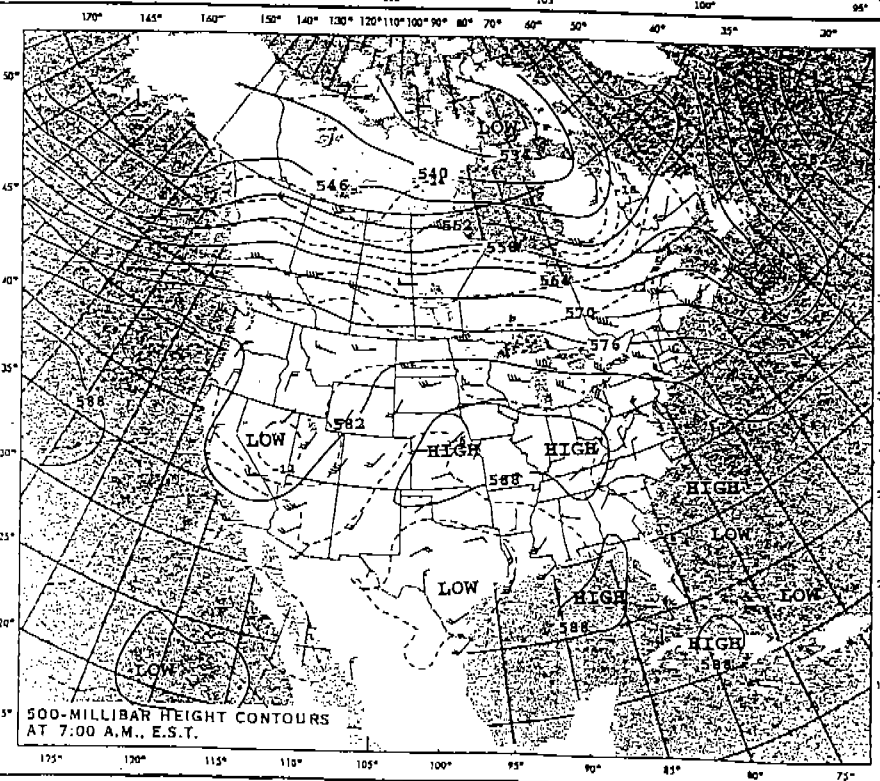
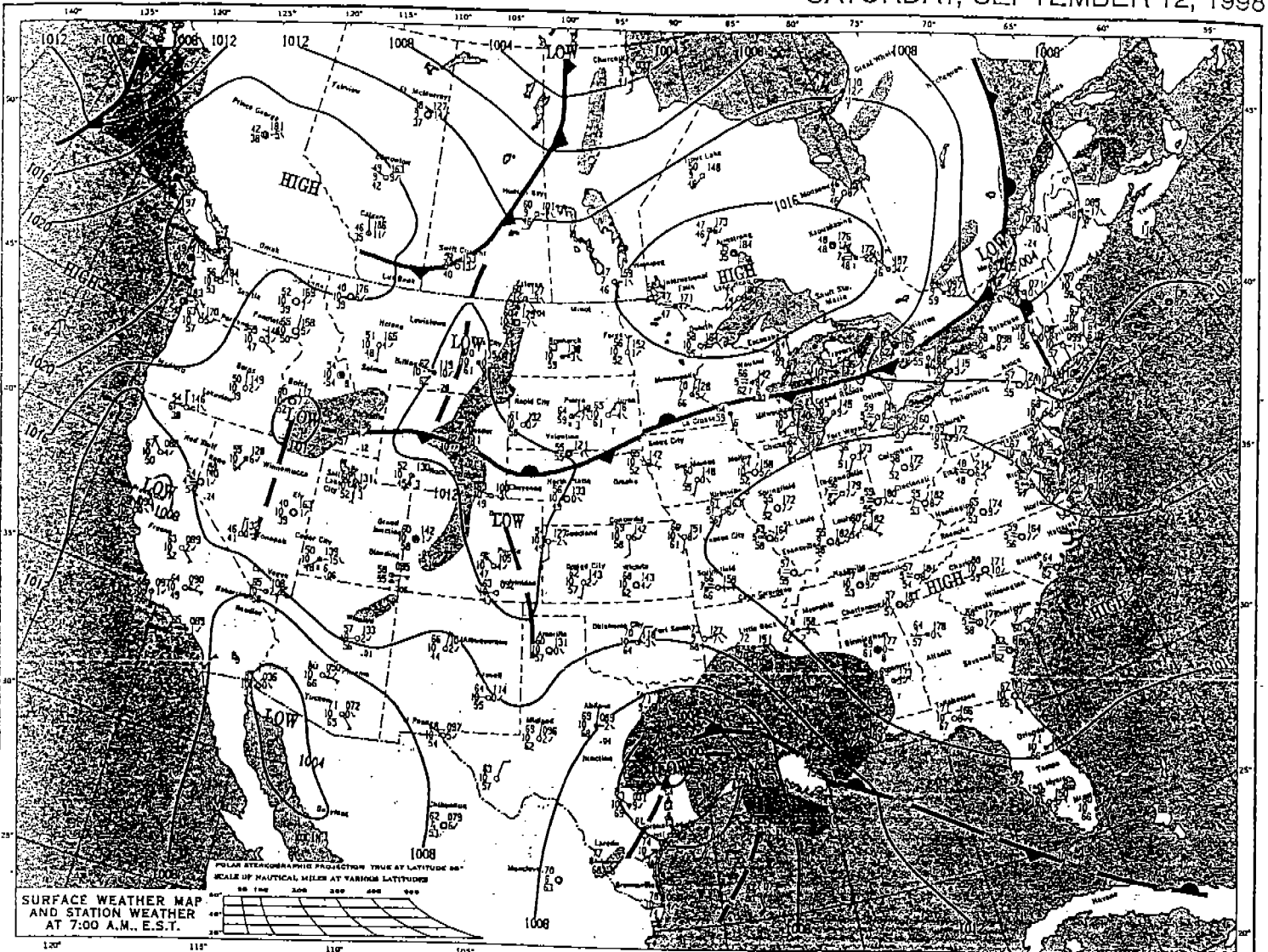
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NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 20 UTC 12 SEP 98

Source Location * at 35.99 N 77.58 W

EDAS Meteorological Data
Vertical Motion Method - OMEGA





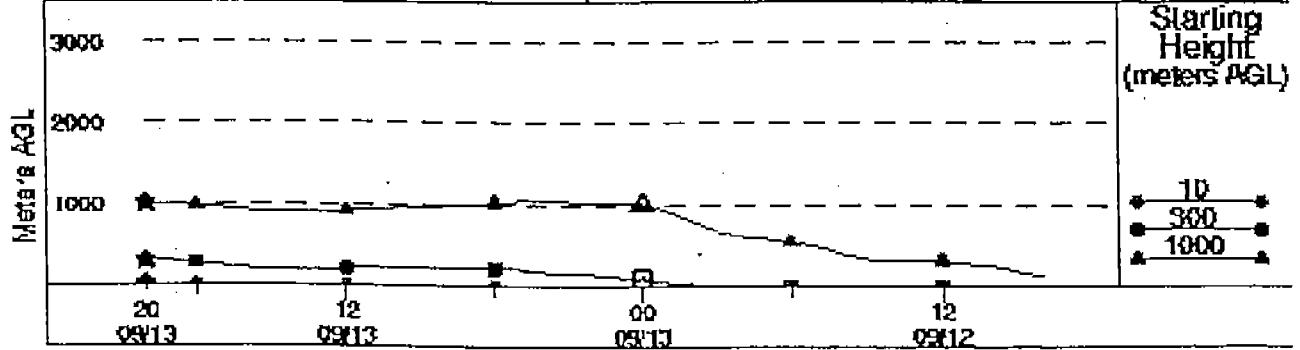
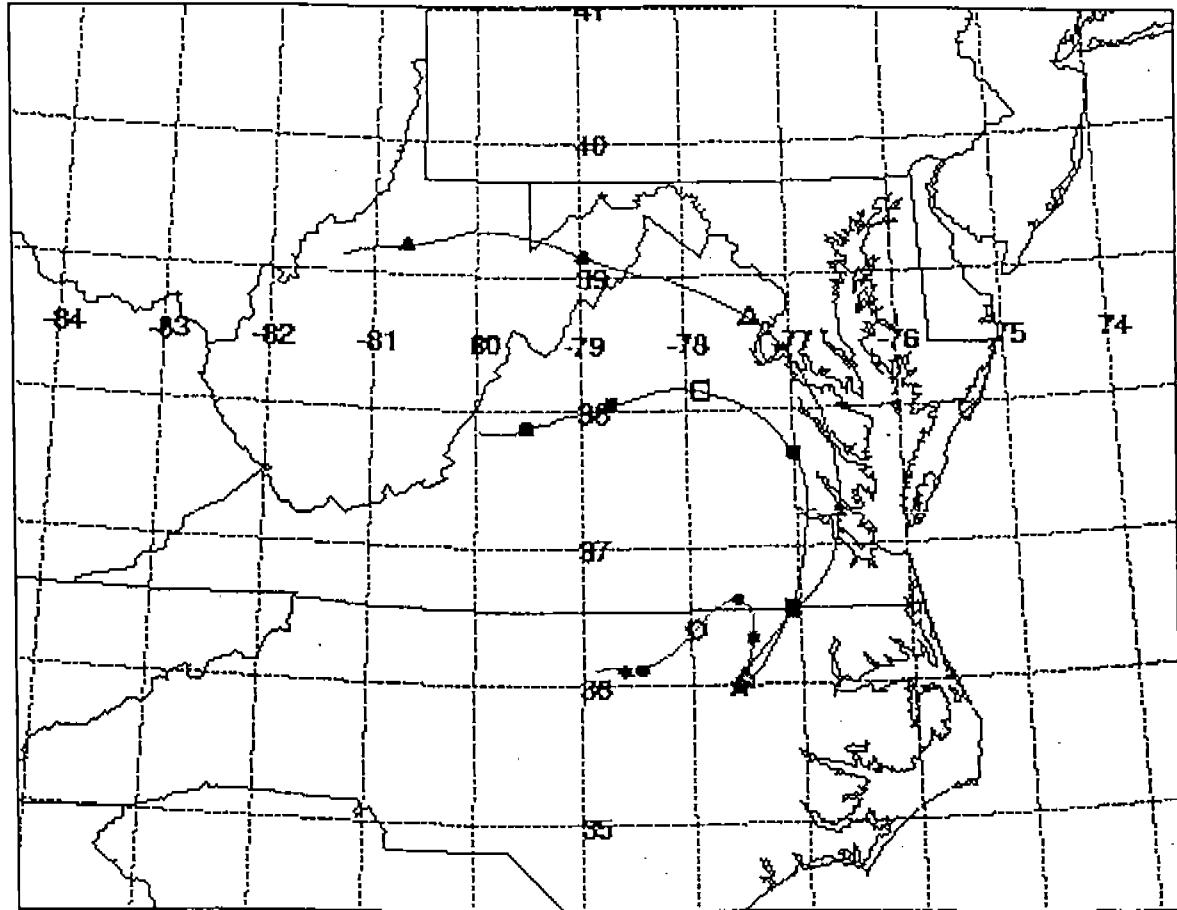


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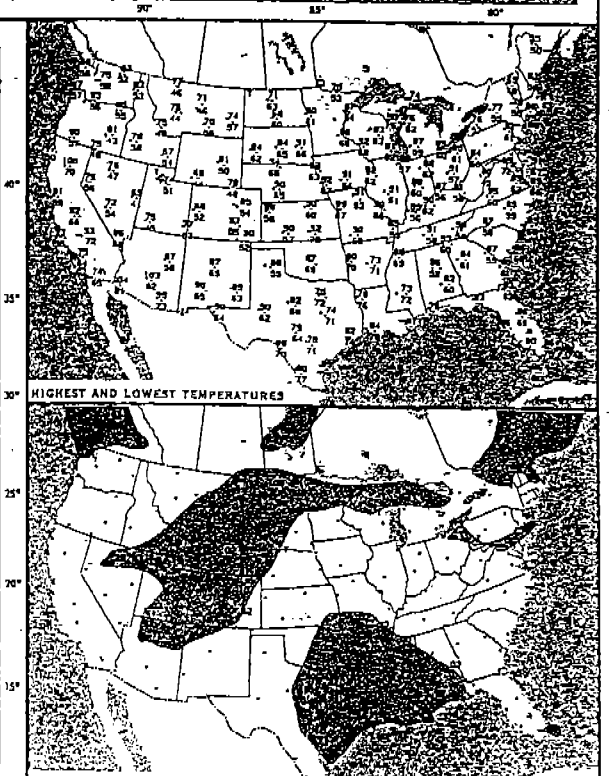
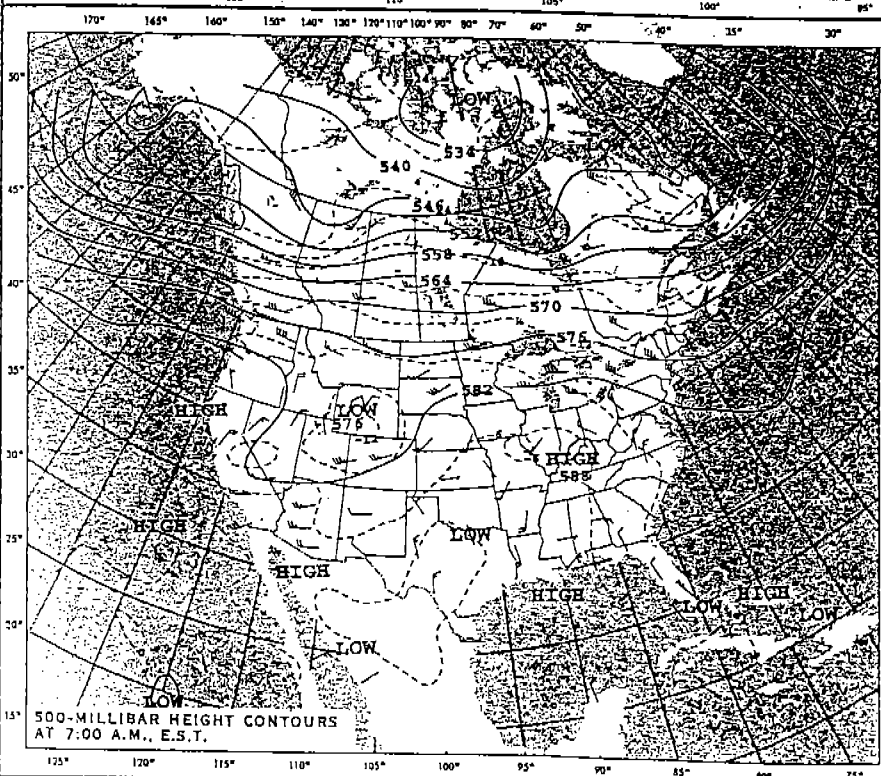
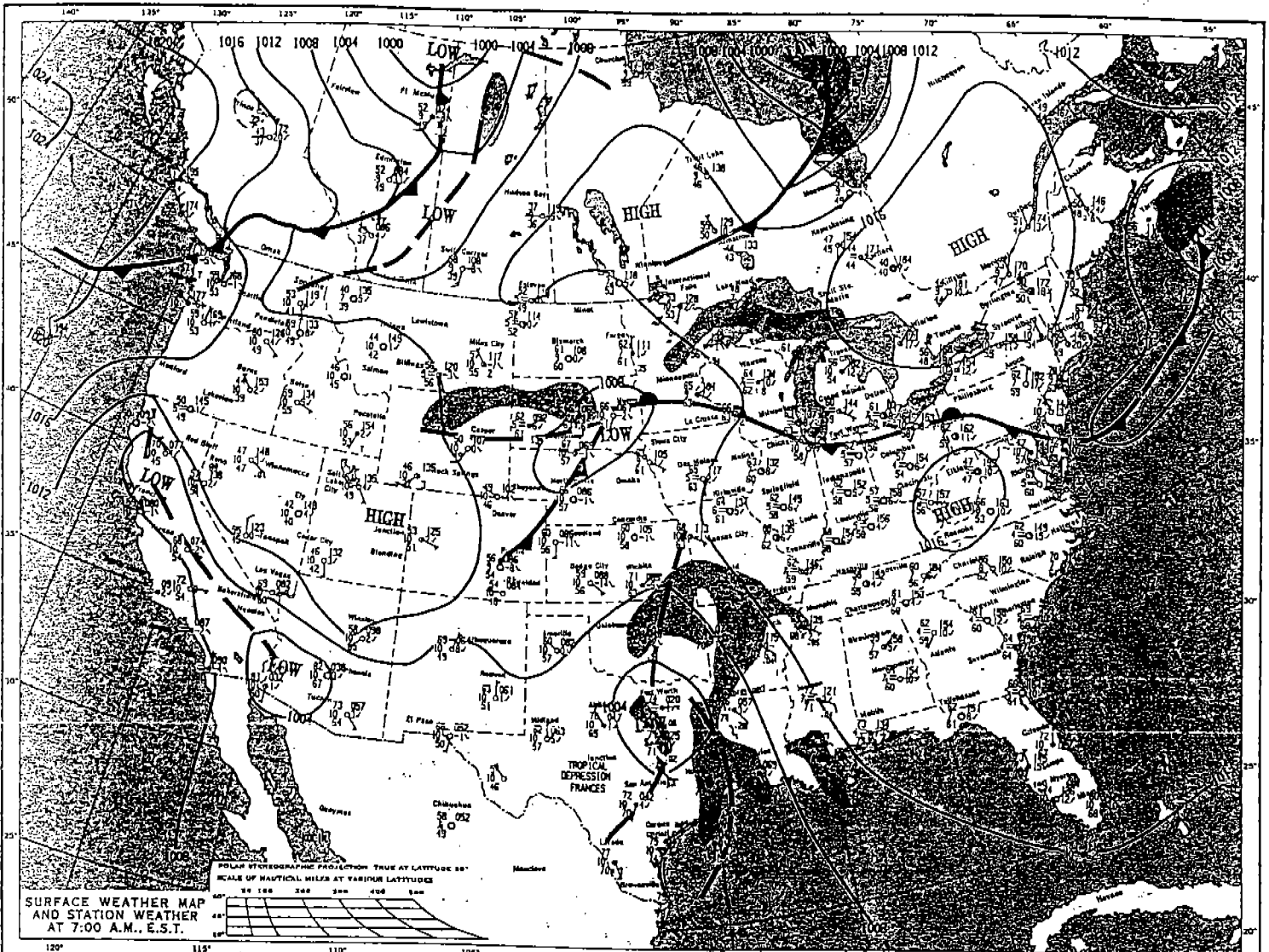
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NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 20 UTC 13 SEP 98

Source Location * at 35.89 N 77.58 W



SUNDAY, SEPTEMBER 13, 1998



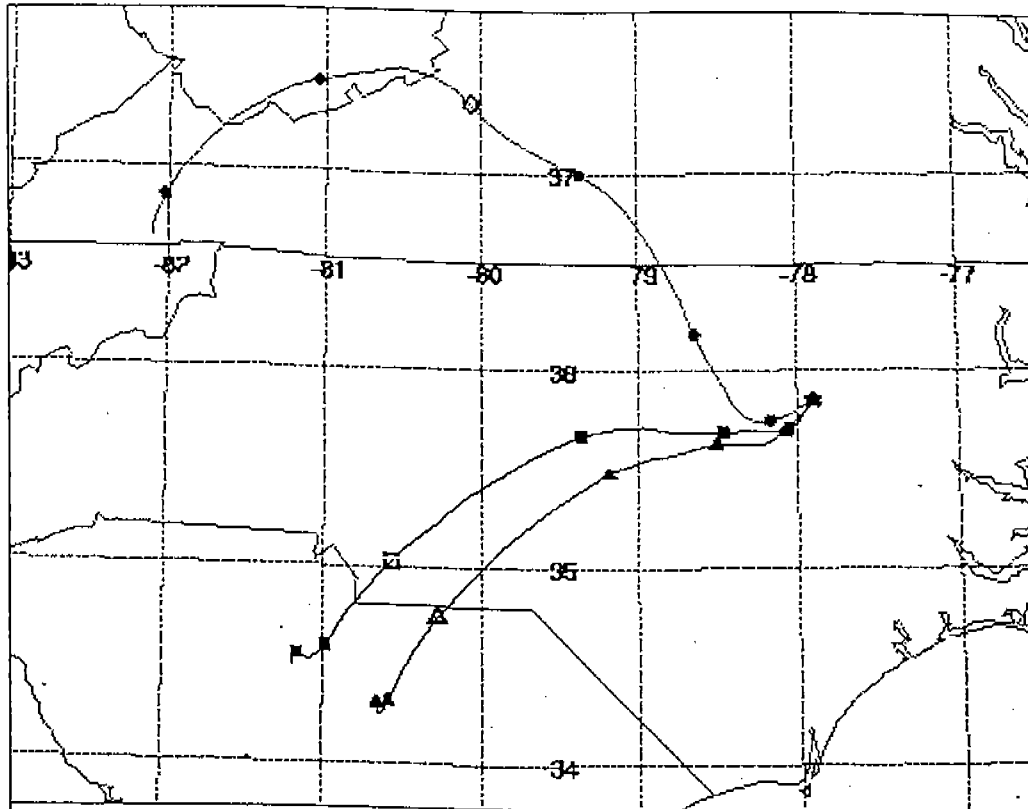


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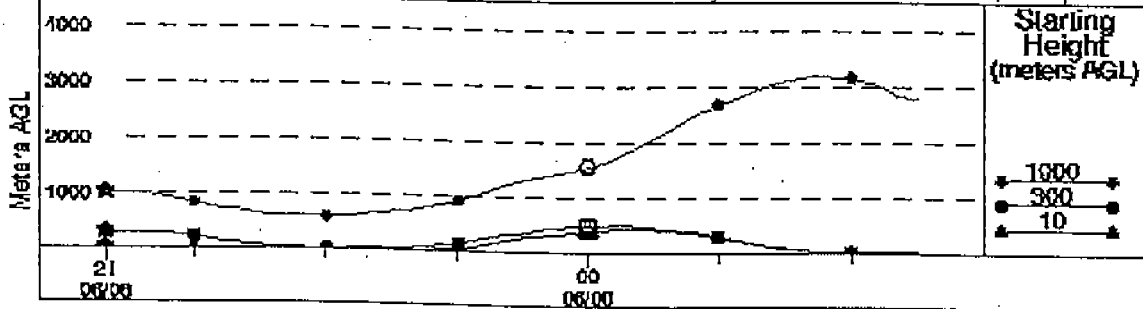
NOAA AIR RESOURCES LABORATORY

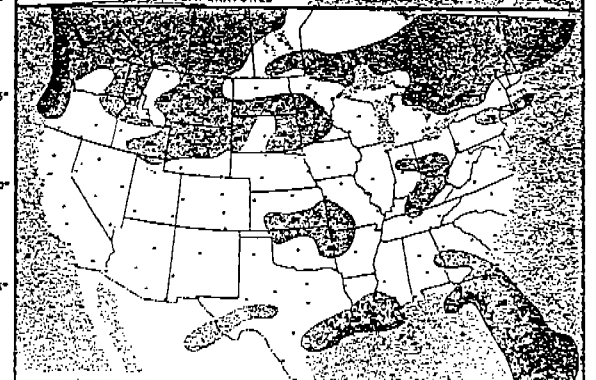
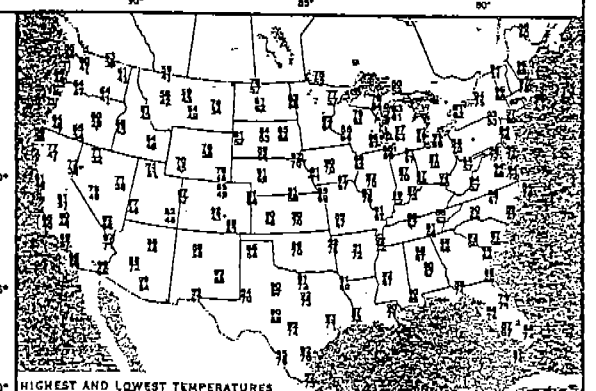
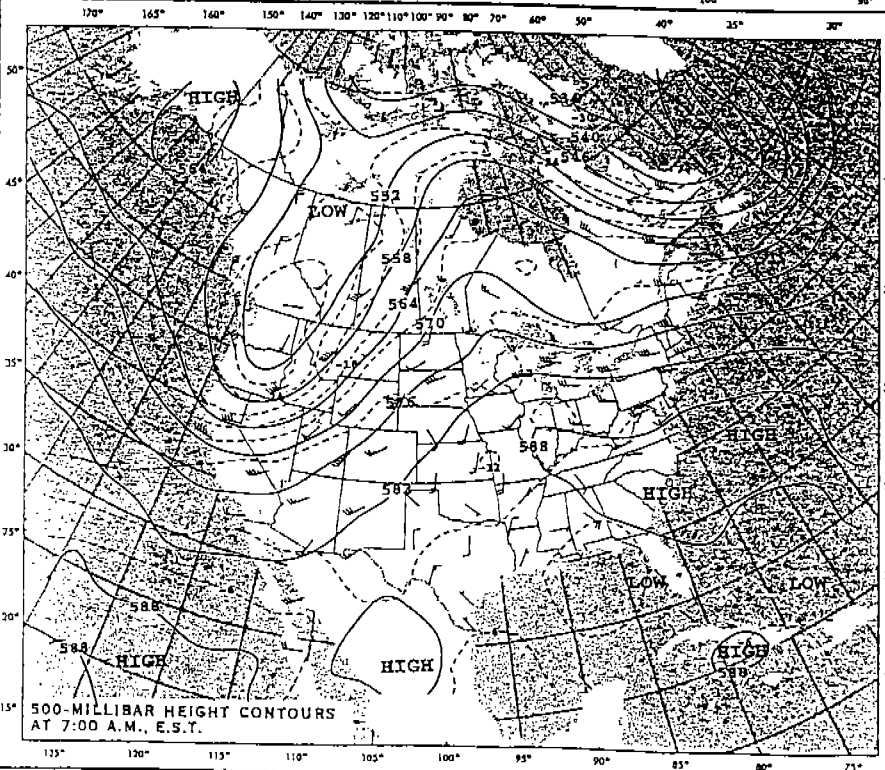
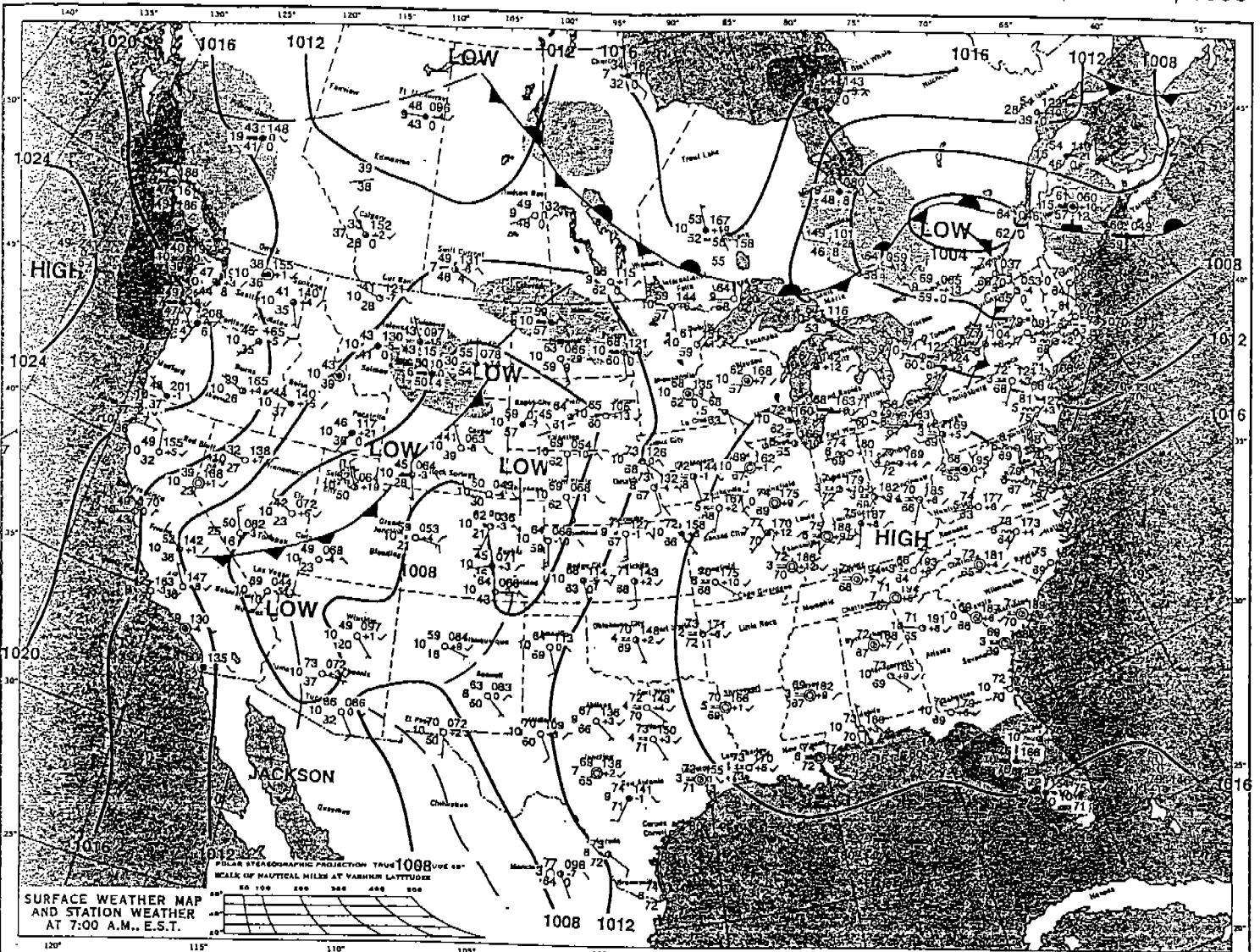
Backward Trajectories Ending- 21 UTC 08 JUN 99

Source Location * at 35.85 N 77.90 W



EDAS Meteorological Data
Vertical Motion Method - OMEGA





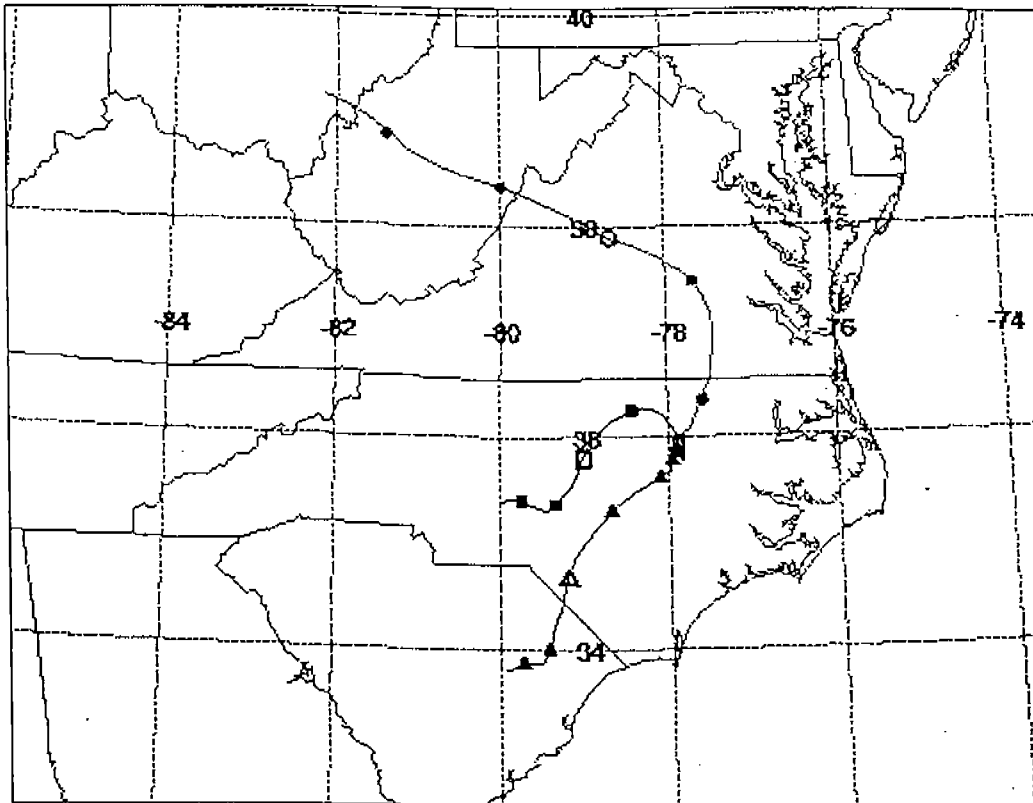


NOAA Air Resources Laboratory

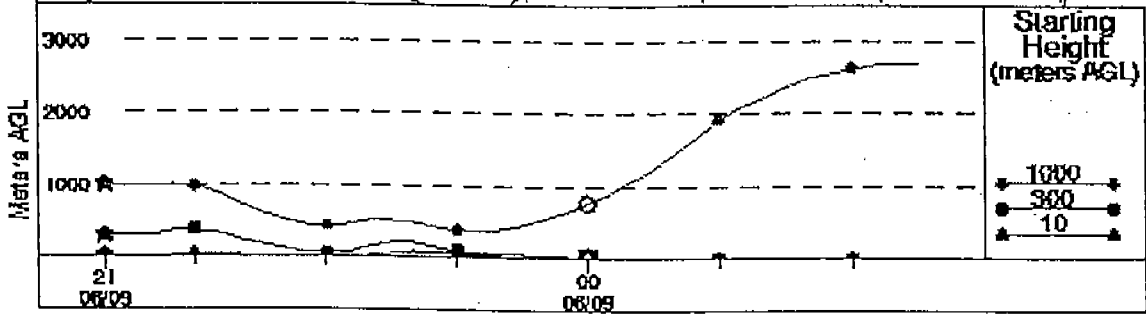
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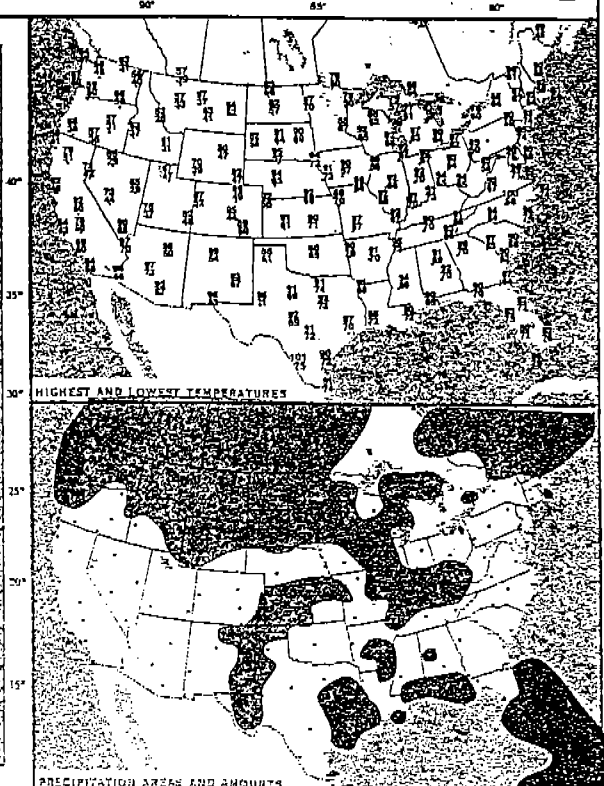
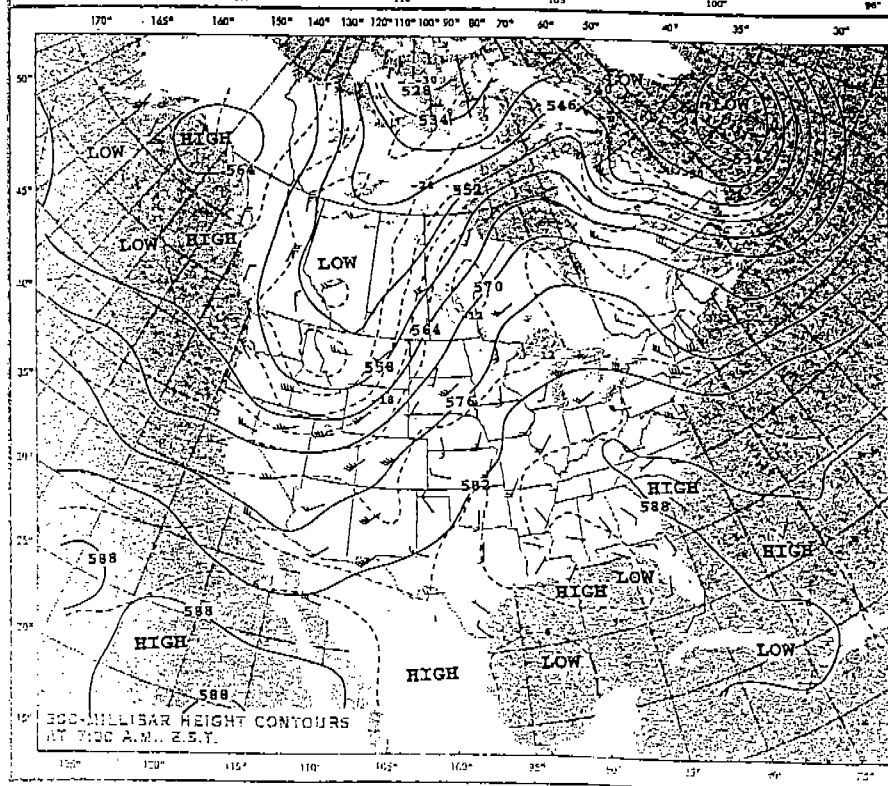
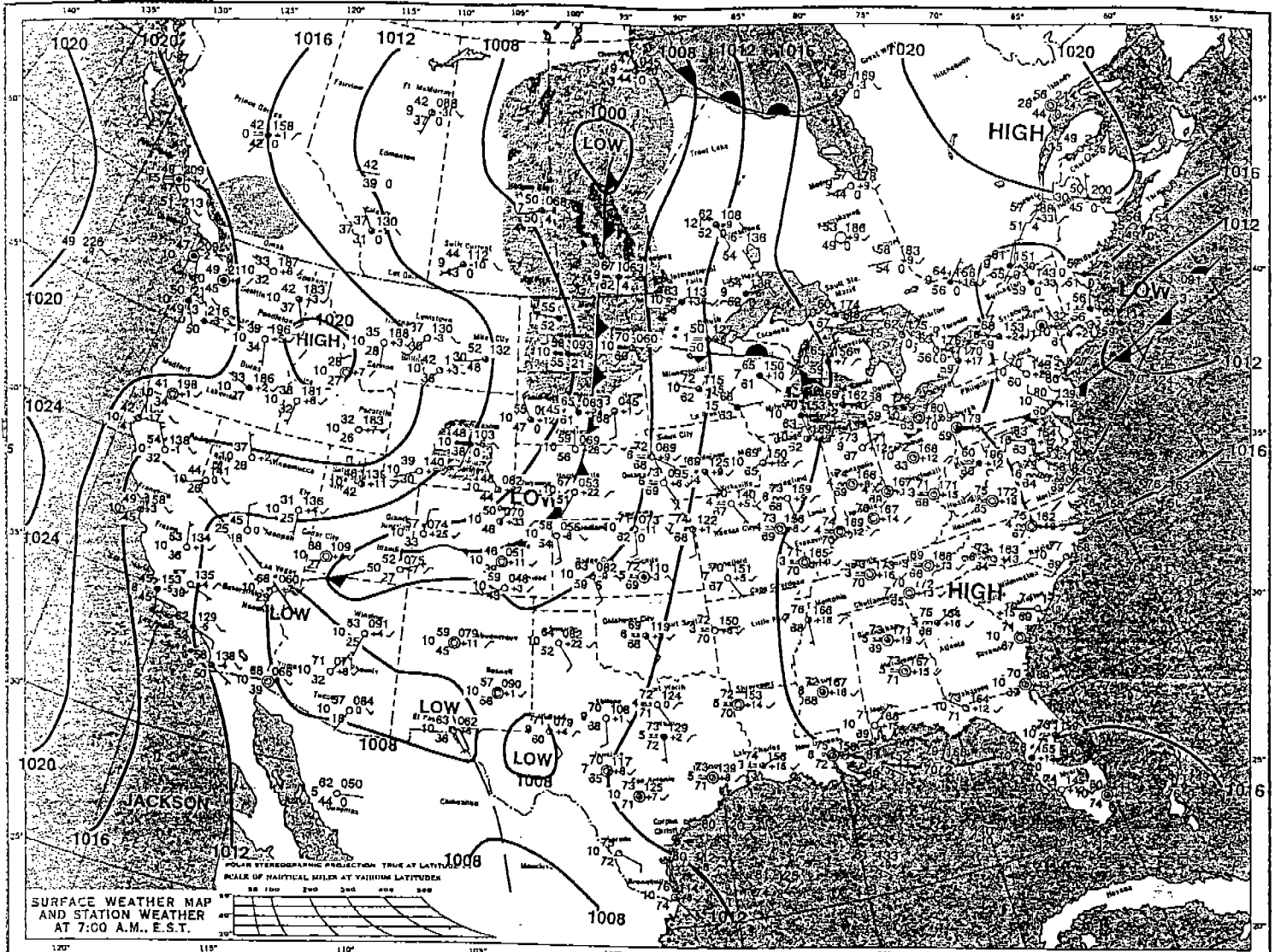
NOAA AIR RESOURCES LABORATORY
Backward Trajectories Ending- 21 UTC 09 JUN 99

Source Location * at 35.85 N 77.90 W



EDAS Meteorological Data
Vertical Motion Method - OMEGA





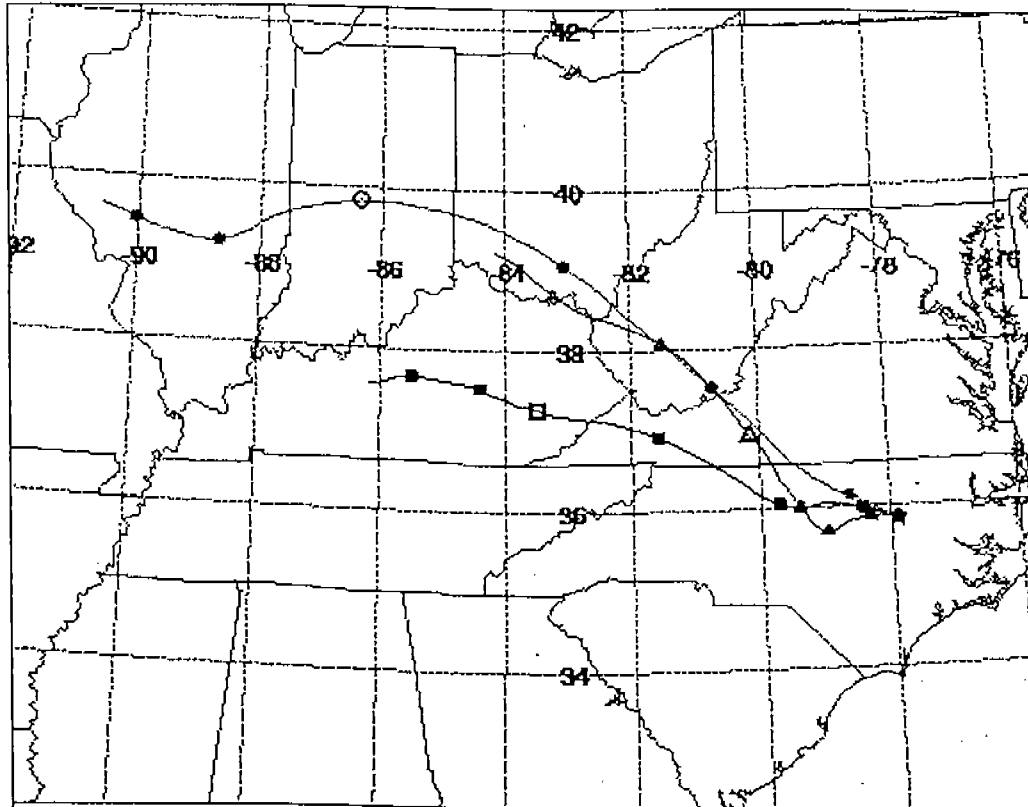


NOAA Air Resources Laboratory

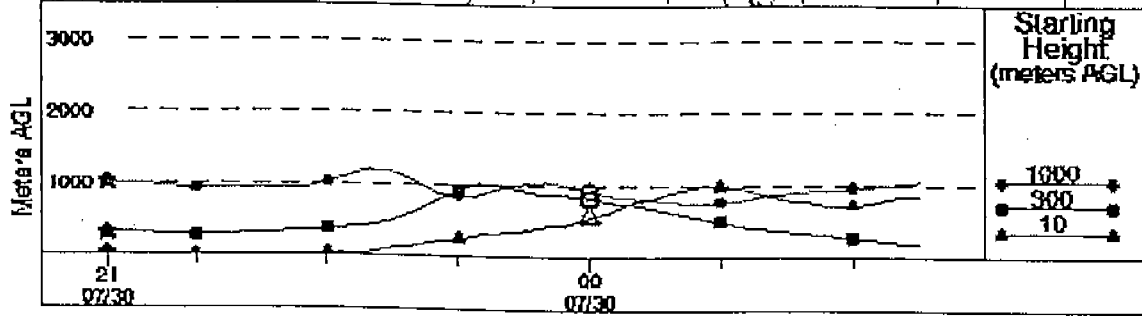
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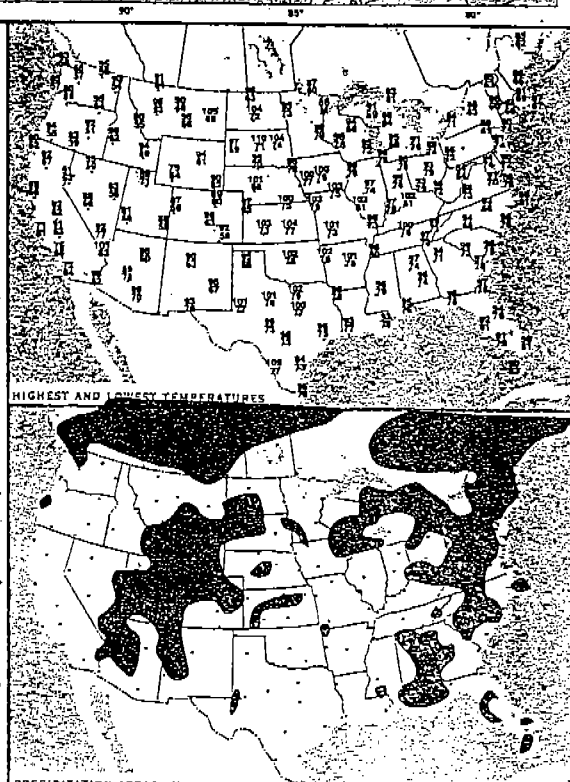
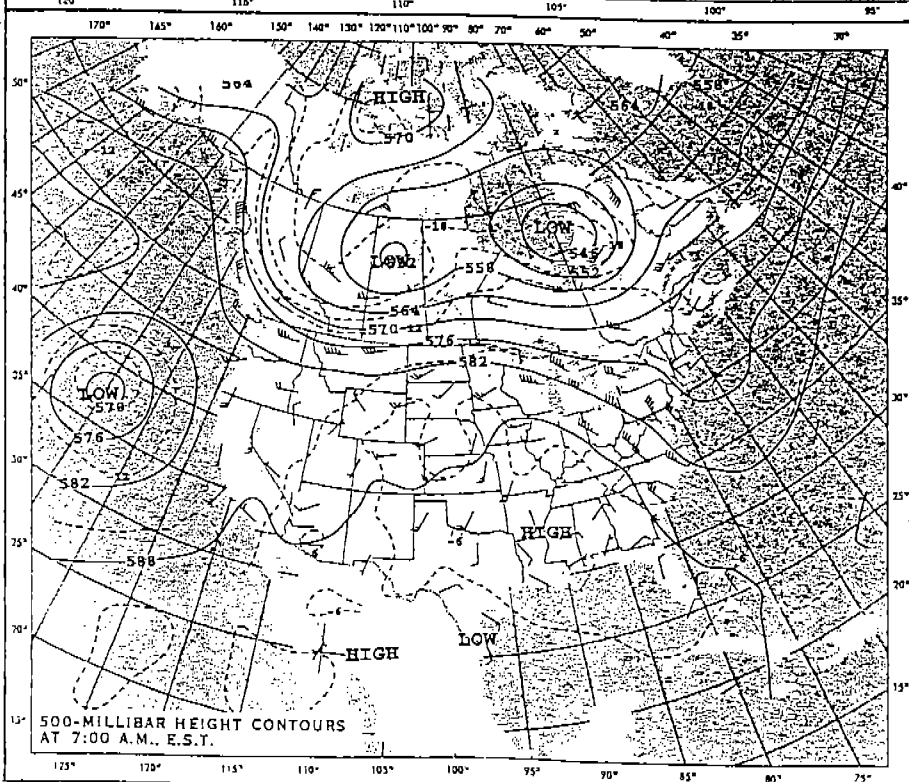
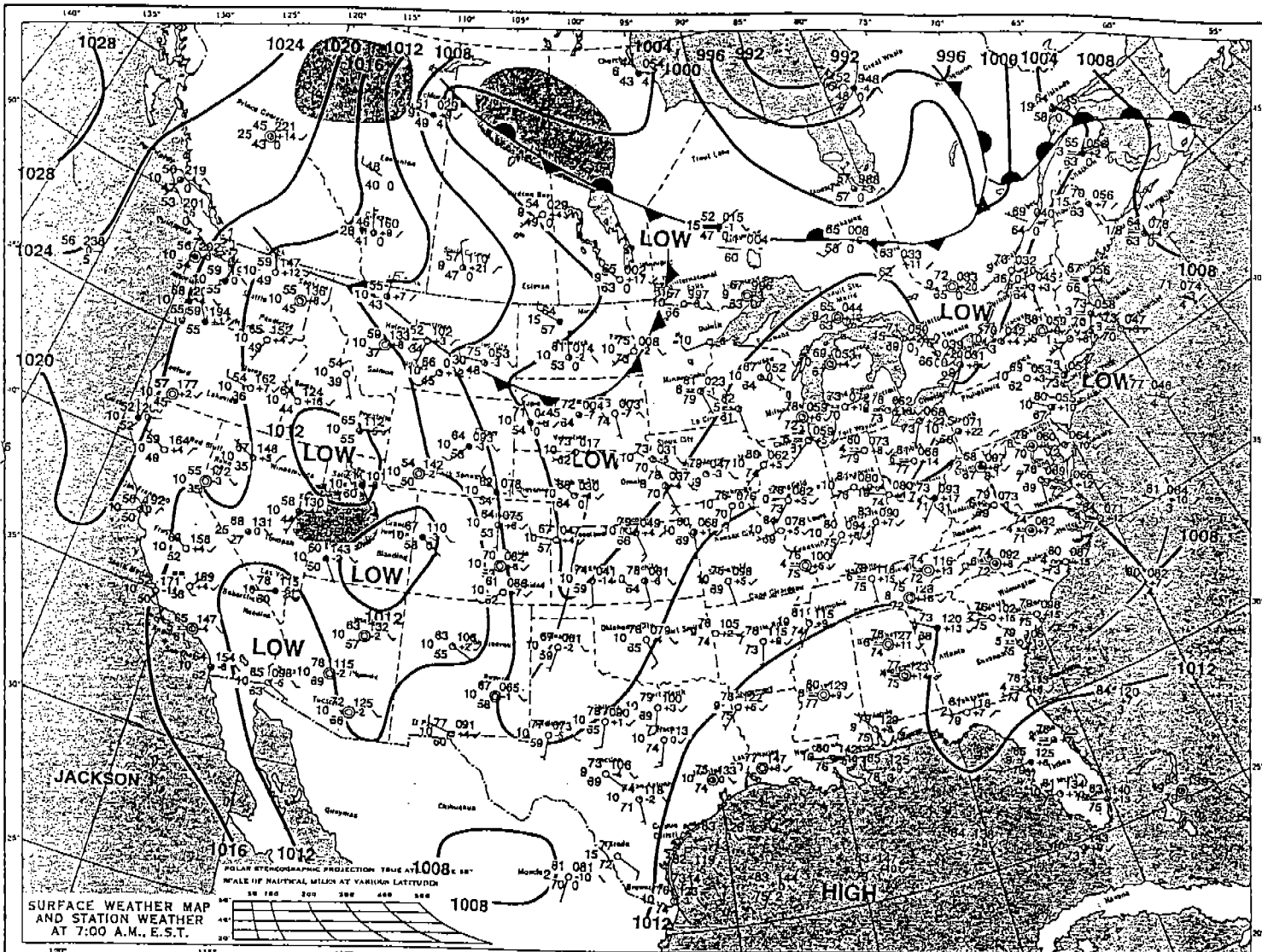
NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 21 UTC 30 JUL 99

Source Location ★ at 35.85 N 77.80 W



EDAS Meteorological Data
Vertical Motion Method - OMEGA





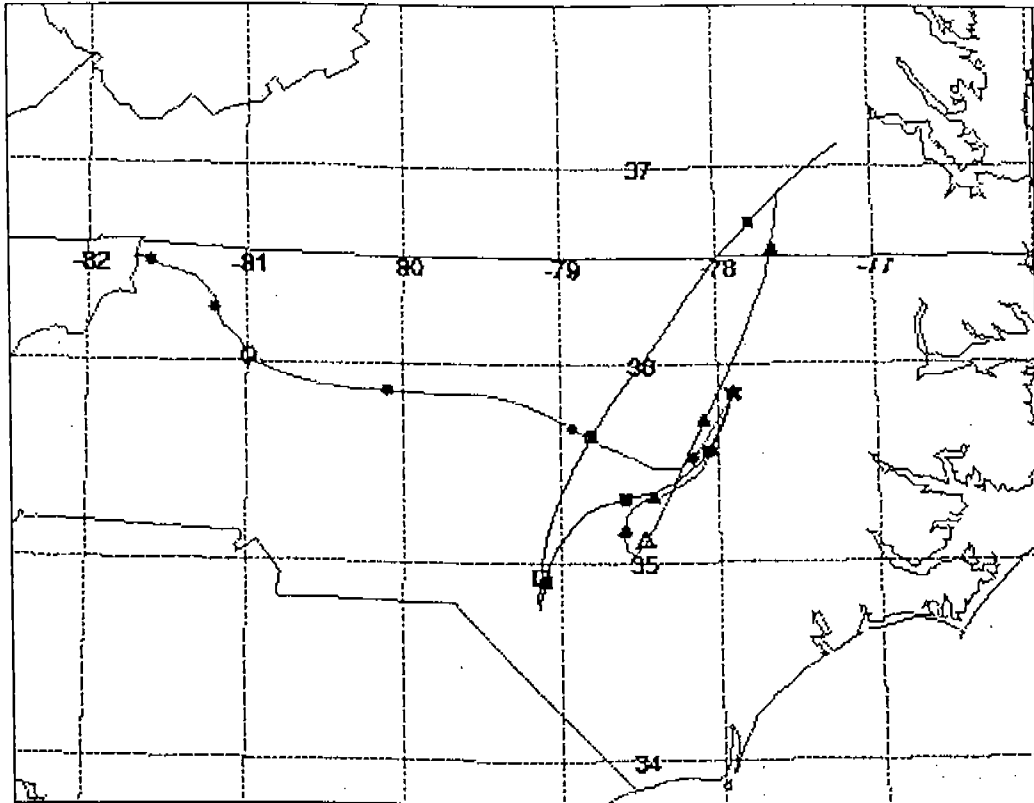


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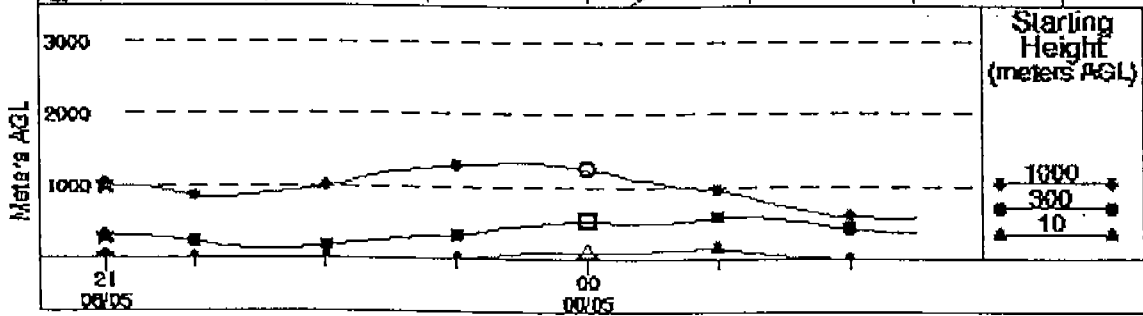
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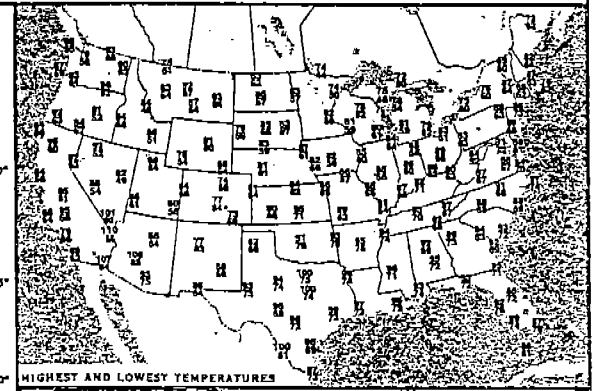
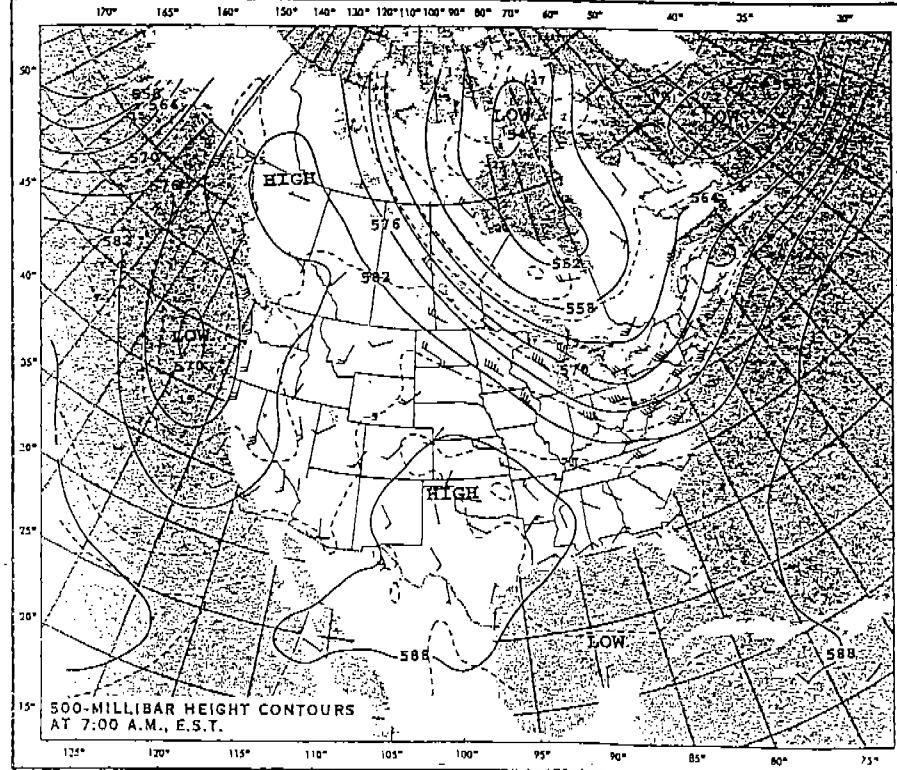
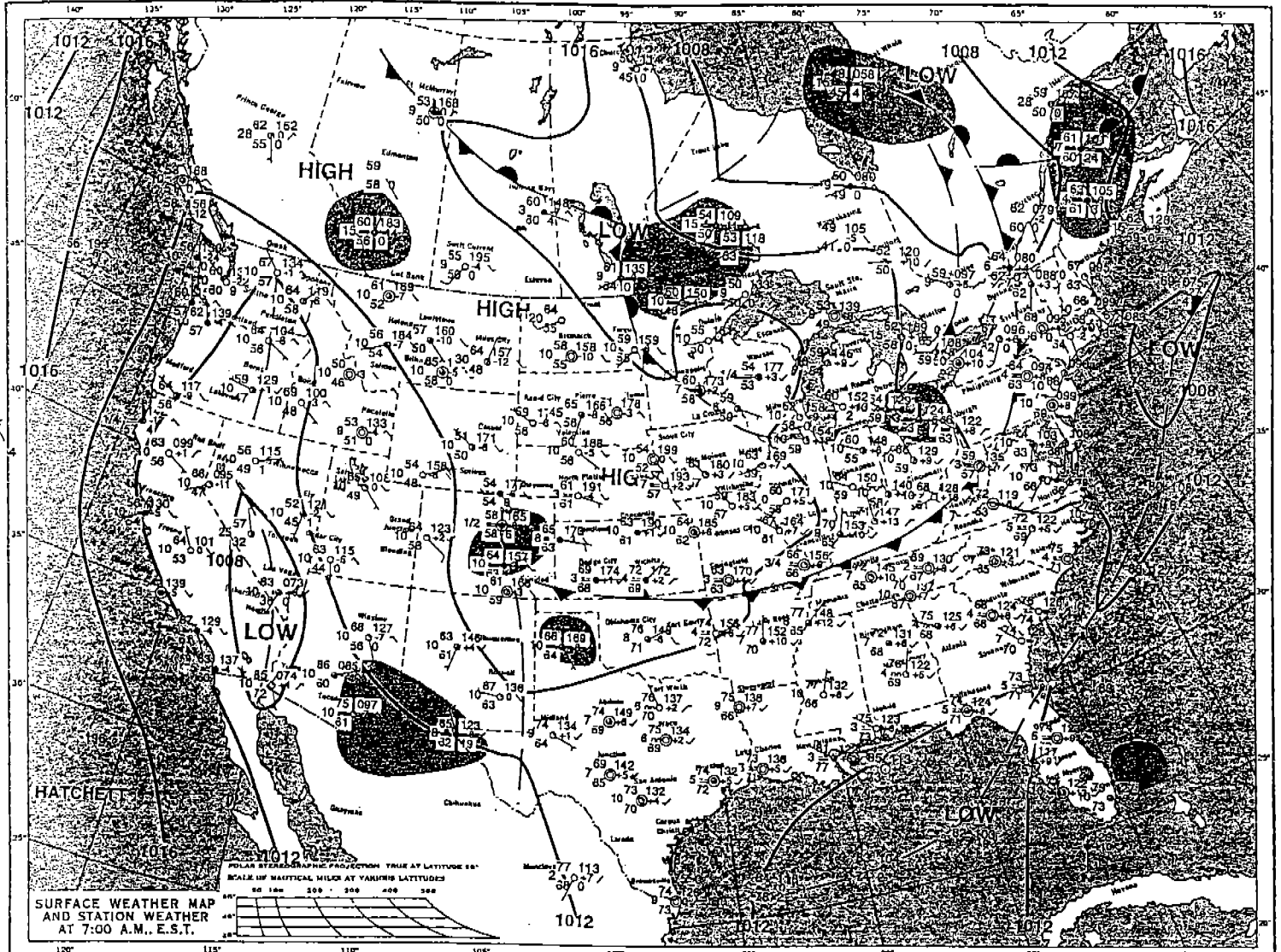
NOAA AIR RESOURCES LABORATORY
Backward Trajectories Ending 21 UTC 05 AUG 99

Source Location ★ at 35.85 N 77.90 W



EDAS Meteorological Data
Vertical Motion Method - OMEGA





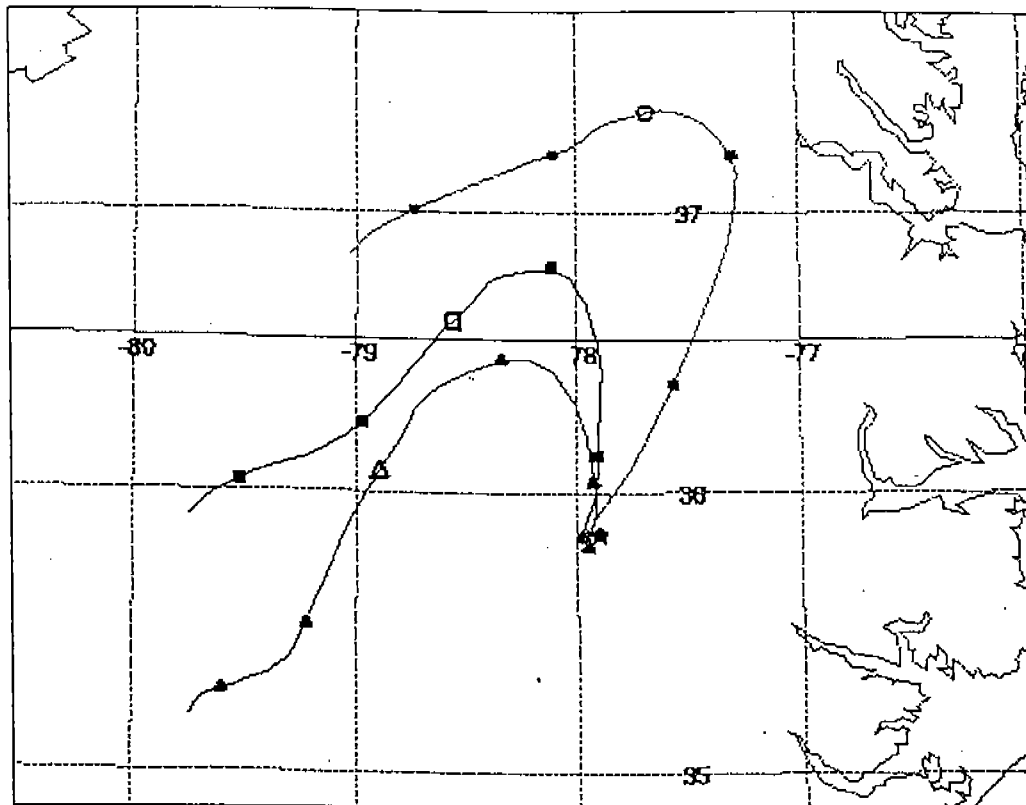


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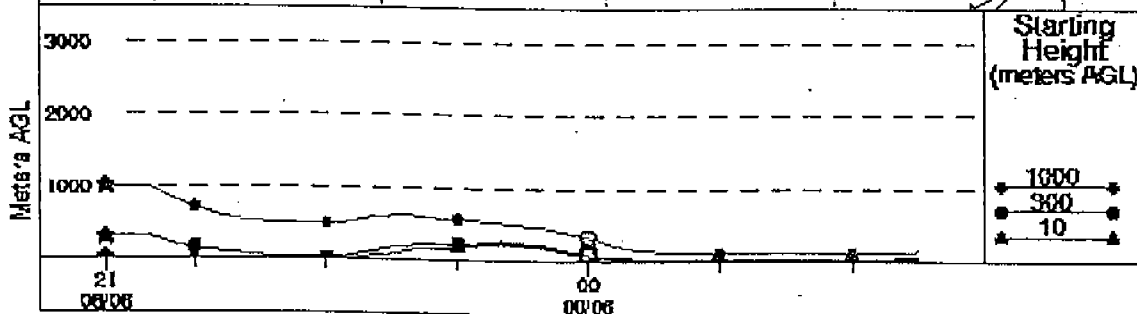
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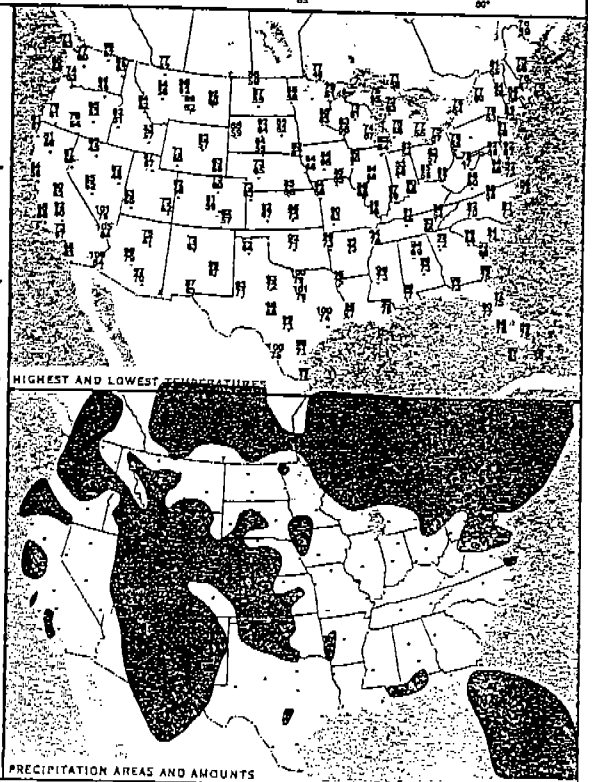
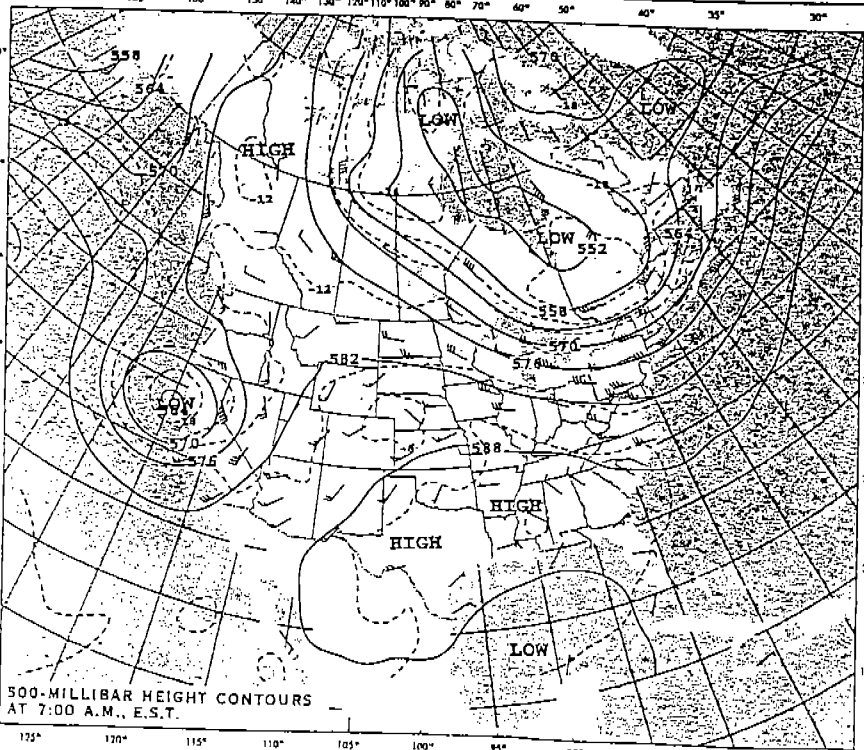
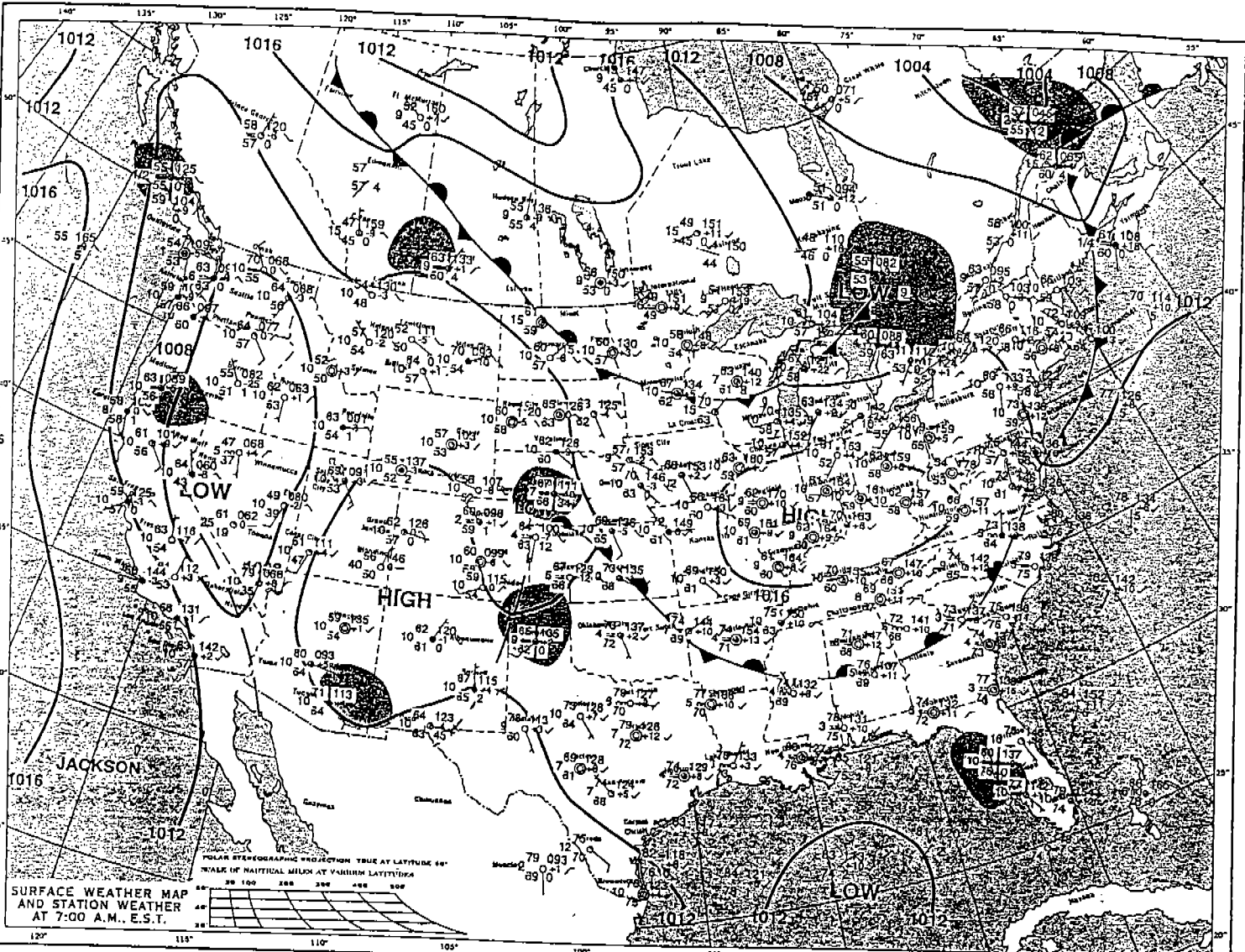
NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 21 UTC 06 AUG 99

Source Location ★ at 35.85 N 77.90 W



EDAS Meteorological Data
Vertical Motion Method - OMEGA





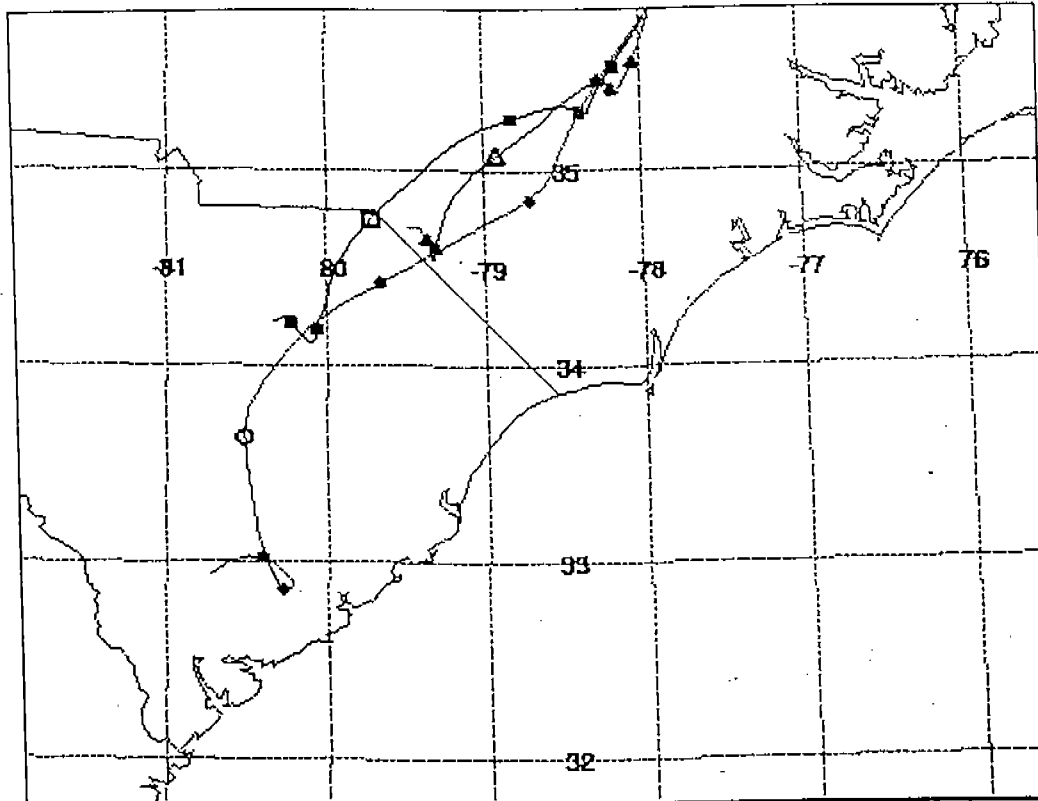


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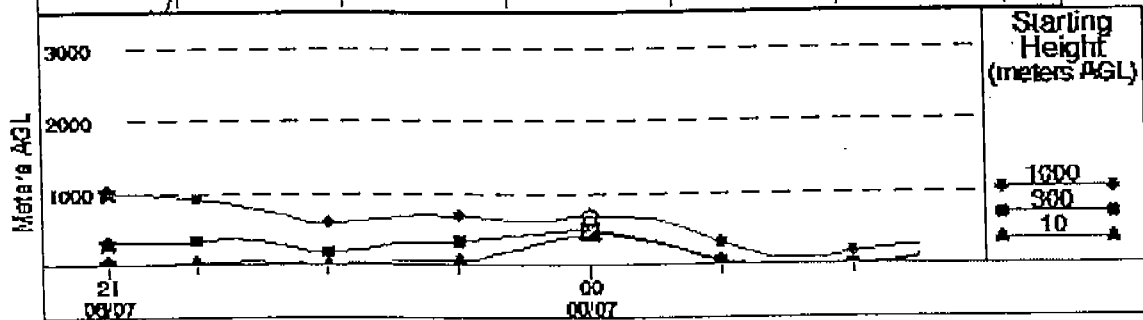
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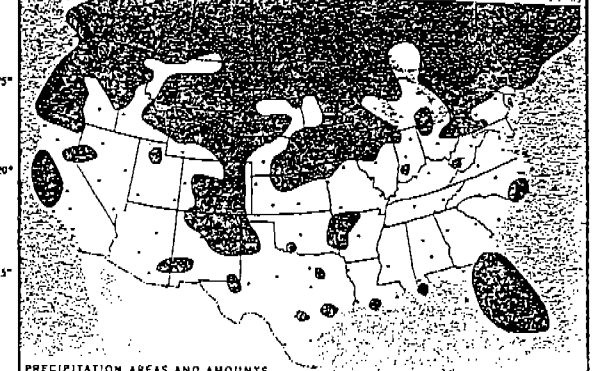
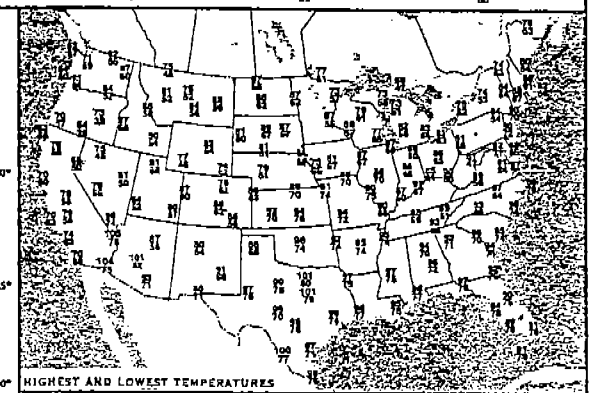
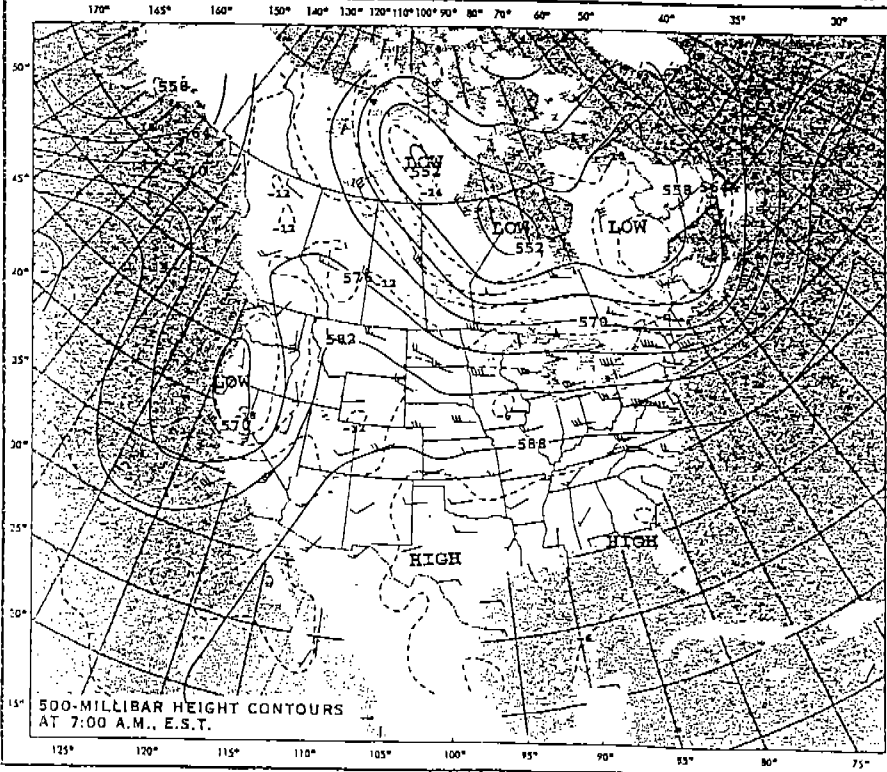
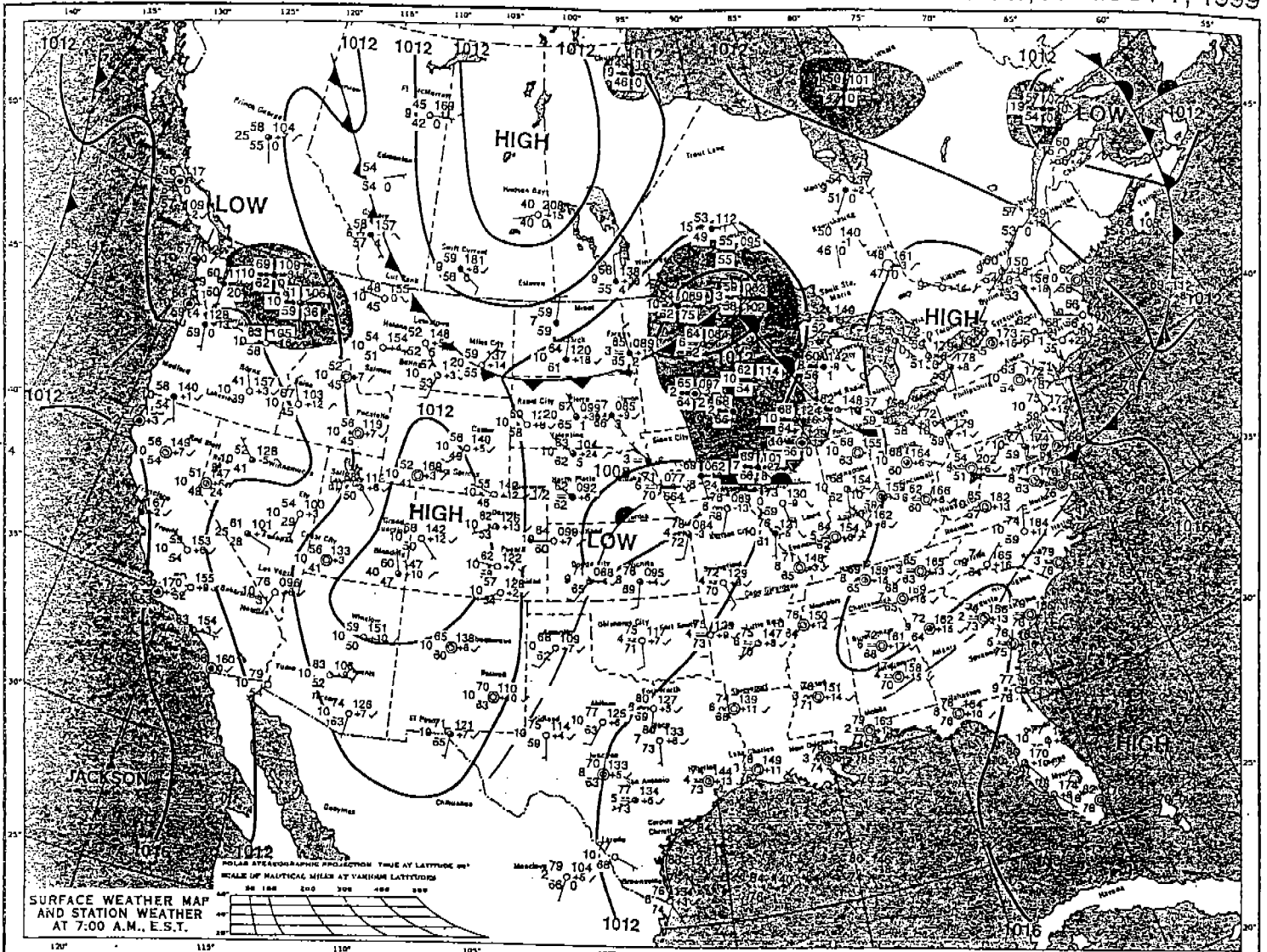
NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending 21 UTC 07 AUG 99

Source Location ★ at 35.85 N 77.90 W



EDAS Meteorological Data
Vertical Motion Method - OMEGA





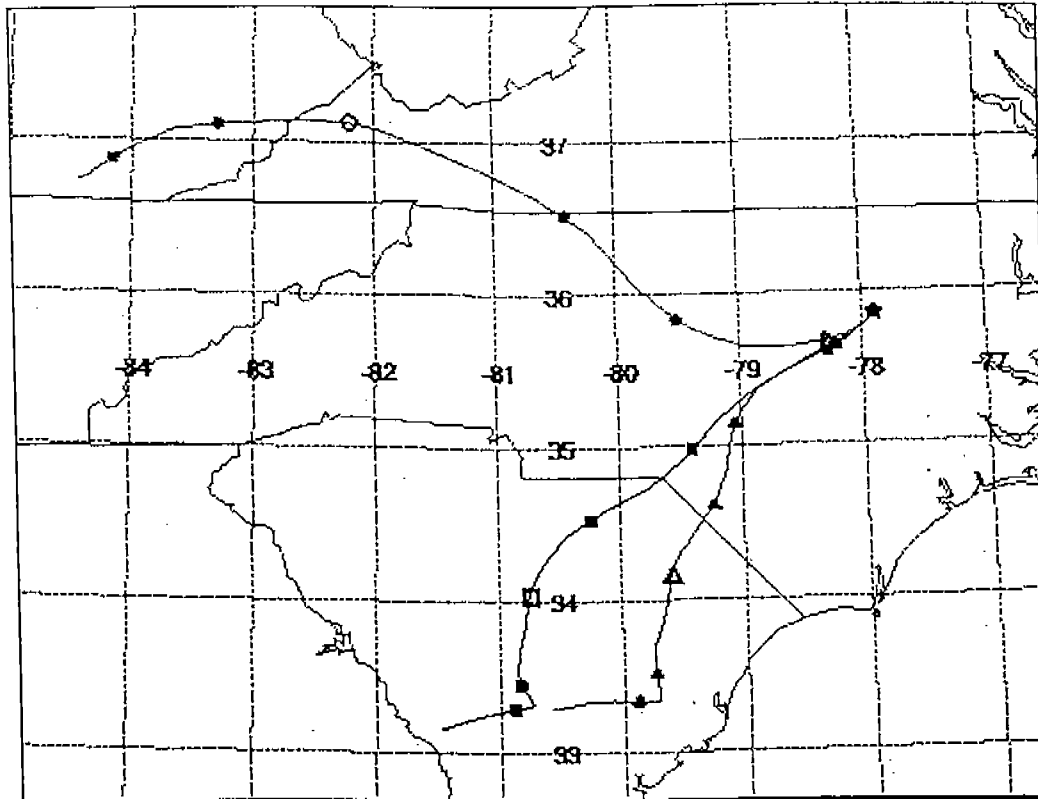


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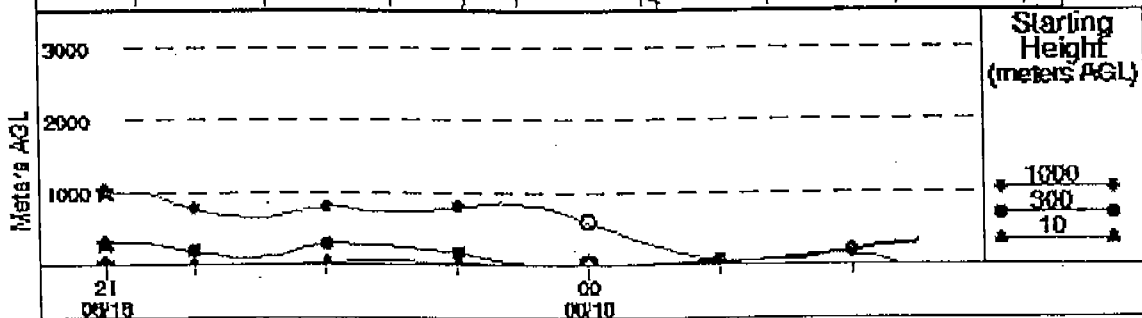
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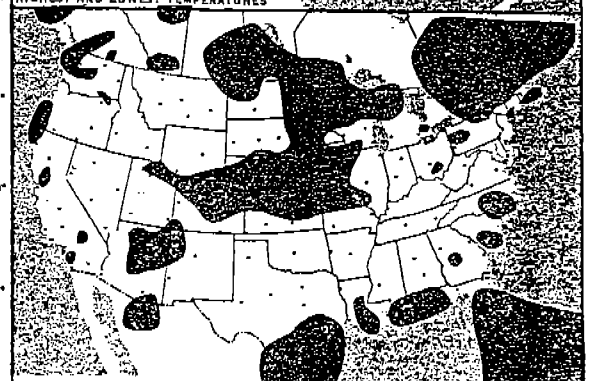
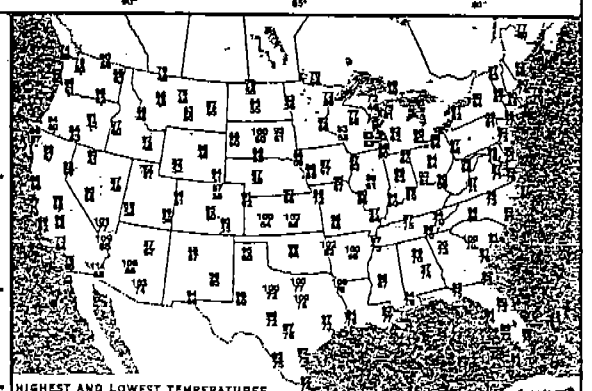
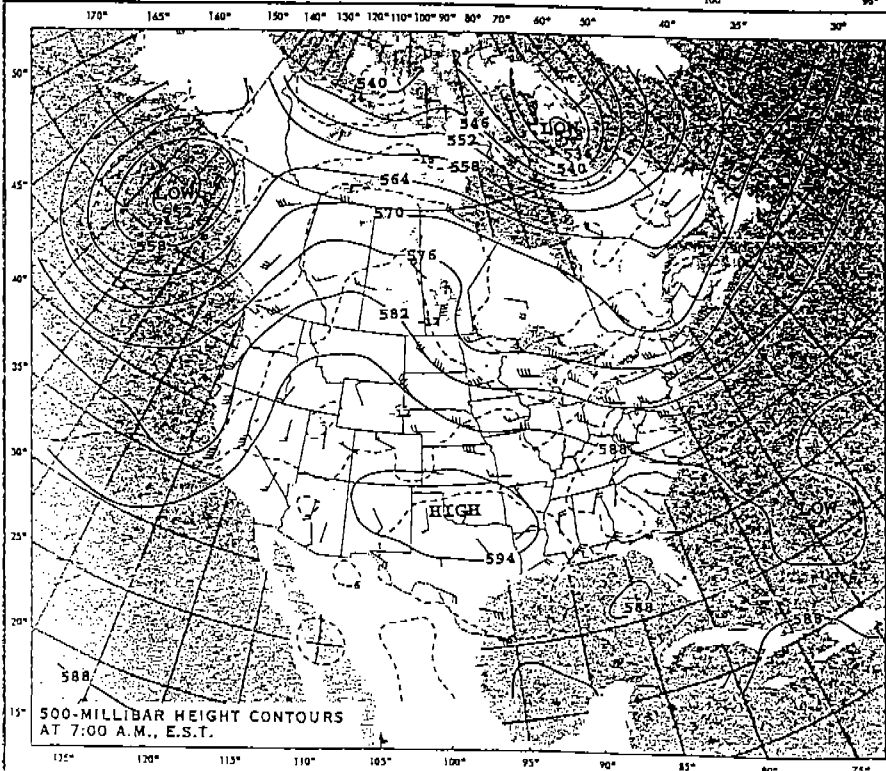
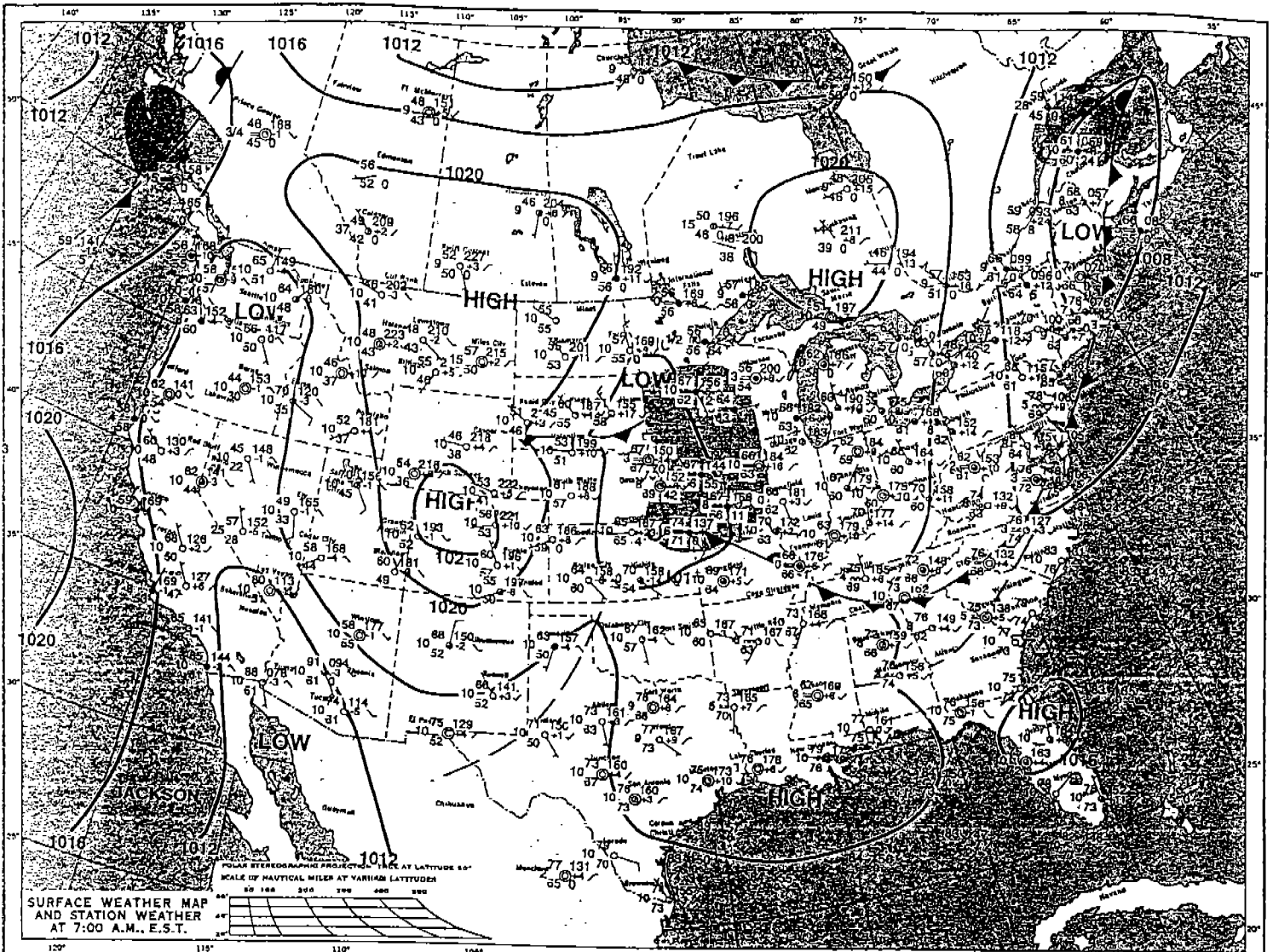
NOAA AIR RESOURCES LABORATORY
Backward Trajectories Ending 21 UTC 18 AUG 99

Source Location ★ at 35.85 N 77.90 W



EDAS Meteorological Data
Vertical Motion Method - OMEGA





Ozone Exceedance Day Back Trajectories

Monitor Site: Lenoir (Caldwell Co.)
Monitor ID: 370270003
Latitude: 35.94°N
Longitude: 81.53°W

Back Trajectory Model: HYSPLIT4
Archived Meteorological Dataset: EDAS
Vertical Motion Scheme: Model Vertical Velocity (Omega)
Back Trajectory Duration: 24 hours
Trajectory End Time: 20:00 UTC
Trajectory Heights: 1000 meters AGL
300 meters AGL
10 meters AGL

Total 1997 8-Hour Ozone Exceedance Days: 1

1997 Ozone Exceedance Dates:

May --

June --

July -- 12

August --

September --

Total 1998 8-Hour Ozone Exceedance Days: 11

1998 Ozone Exceedance Dates:

May -- 20

June --

July --

August -- 5, 6, 21, 29

September -- 5, 12, 13, 14, 17, 18

Total 1999 8-Hour Ozone Exceedance Days: 17

1999 Ozone Exceedance Dates:

May -- 11, 29, 30

June -- 5, 6

July -- 16

August -- 4, 5, 13, 16, 17, 18, 19

September -- 12, 13, 20, 25

Ozone Exceedance Day Back Trajectories

Monitor Site: Taylorsville (Alexander Co.)
Monitor ID: 370030003
Latitude: 35.9°N
Longitude: 81.18°W

Back Trajectory Model: HYSPLIT4
Archived Meteorological Dataset: EDAS
Vertical Motion Scheme: Model Vertical Velocity (Omega)
Back Trajectory Duration: 24 hours
Trajectory End Time: 20:00 UTC
Trajectory Heights: 1000 meters AGL
300 meters AGL
10 meters AGL

Total 1997 8-Hour Ozone Exceedance Days: 3

1997 Ozone Exceedance Dates:

May --

June --

July -- 8, 15

August -- 1

September --

Total 1998 8-Hour Ozone Exceedance Days: 18

1998 Ozone Exceedance Dates:

May --

June --

July -- 7, 13, 21

August -- 4, 5, 6, 21, 23, 24, 27, 29

September -- 5, 12, 13, 14, 16, 17, 18

Total 1999 8-Hour Ozone Exceedance Days: 2

1999 Ozone Exceedance Dates:

May --

June --

July --

August -- 7, 13

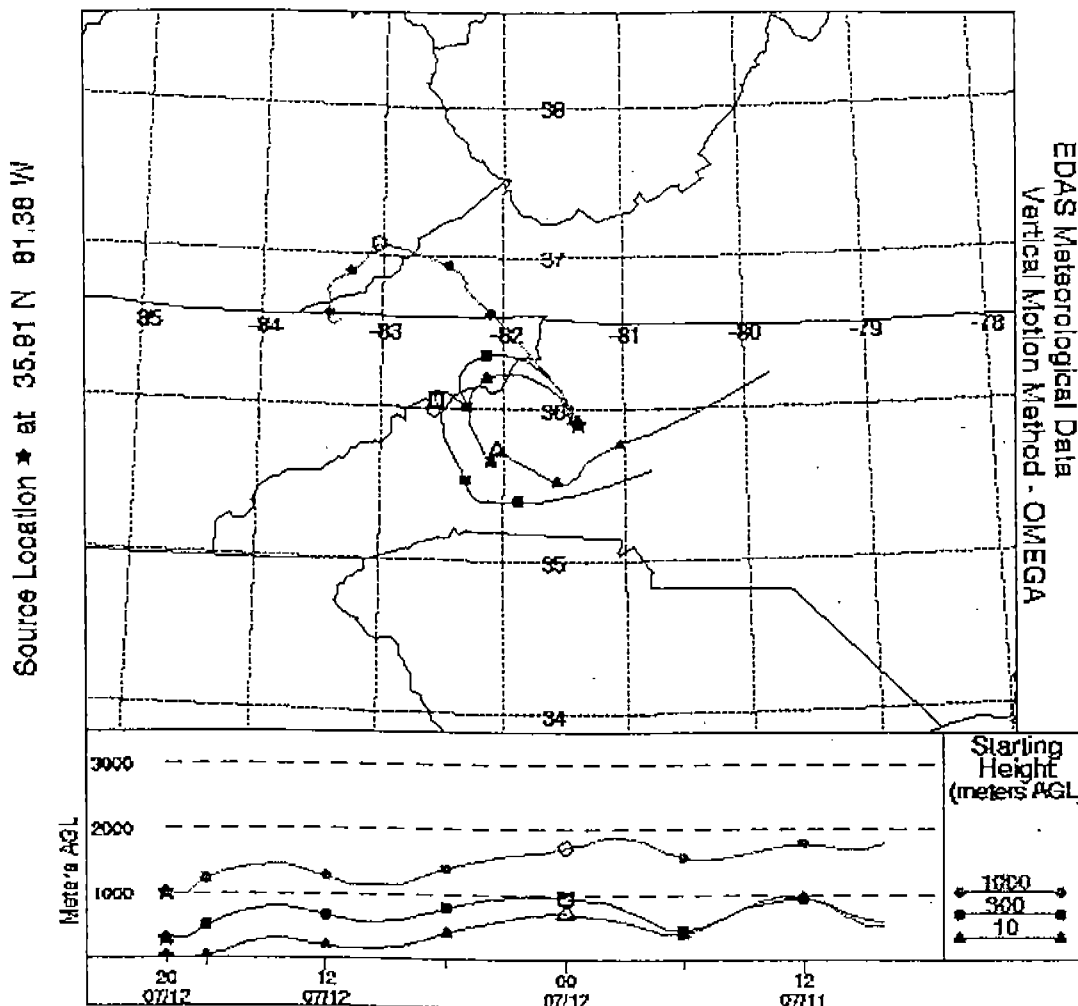
September --



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NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 20 UTC 12 JUL 97

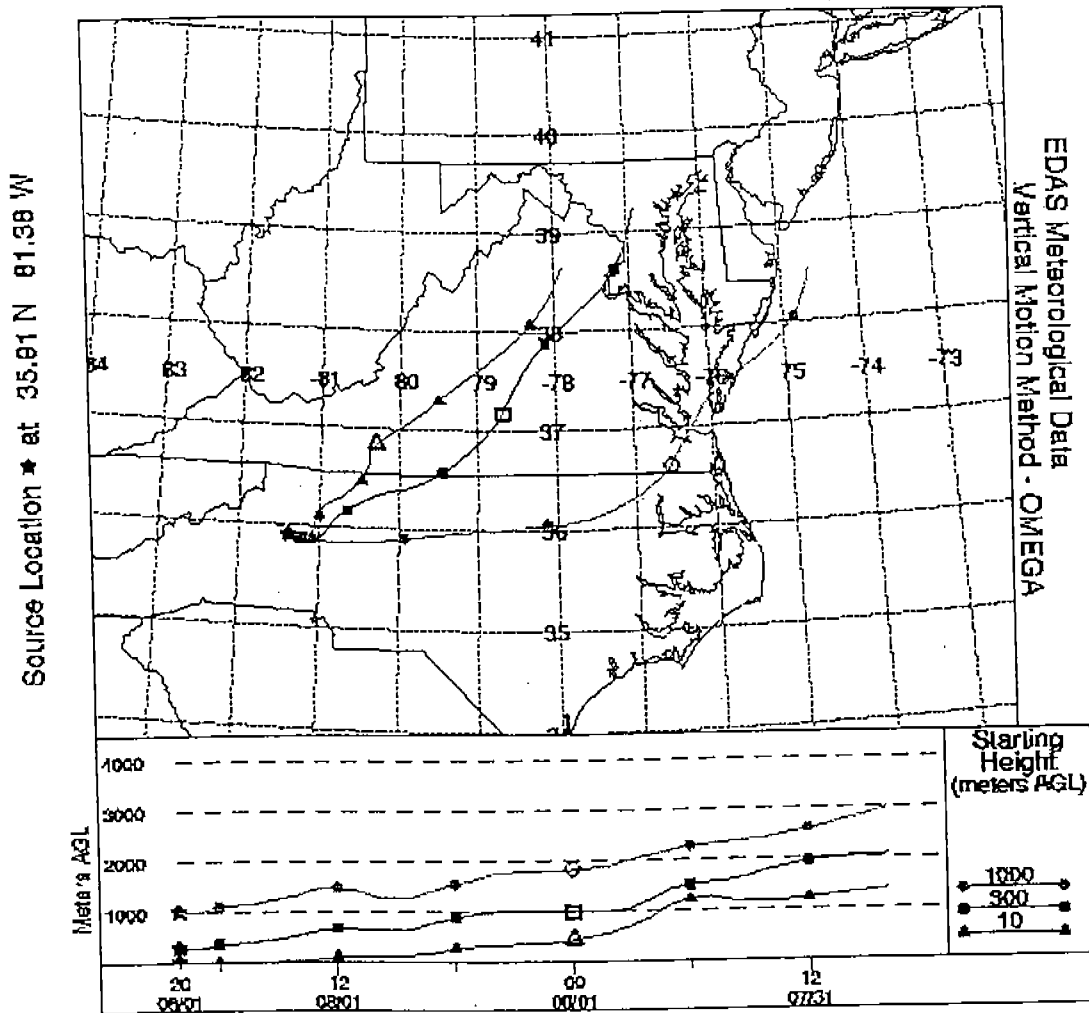




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NOAA AIR RESOURCES LABORATORY Backward Trajectories Ending- 20 UTC 01 AUG 97

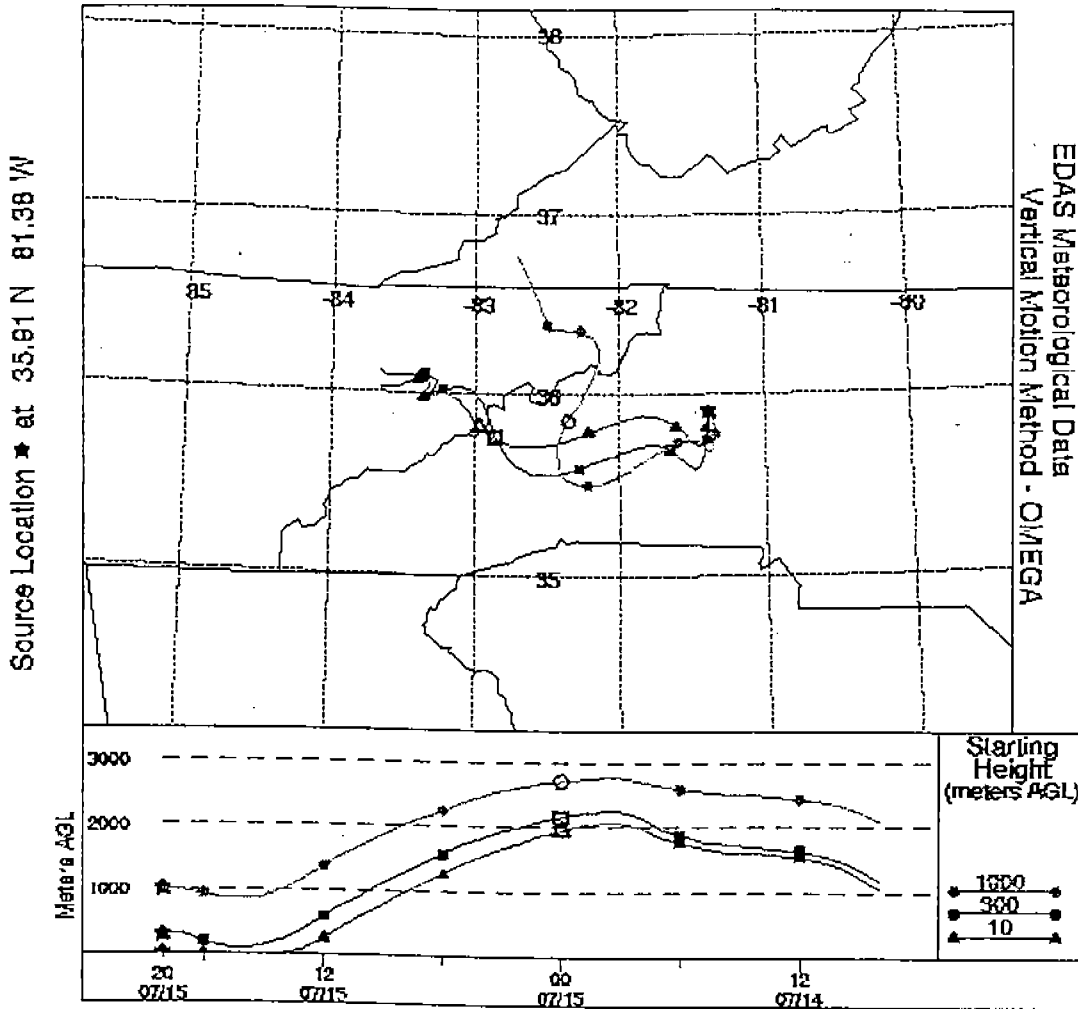




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Backward Trajectories Ending- 20 UTC 15 JUL 97

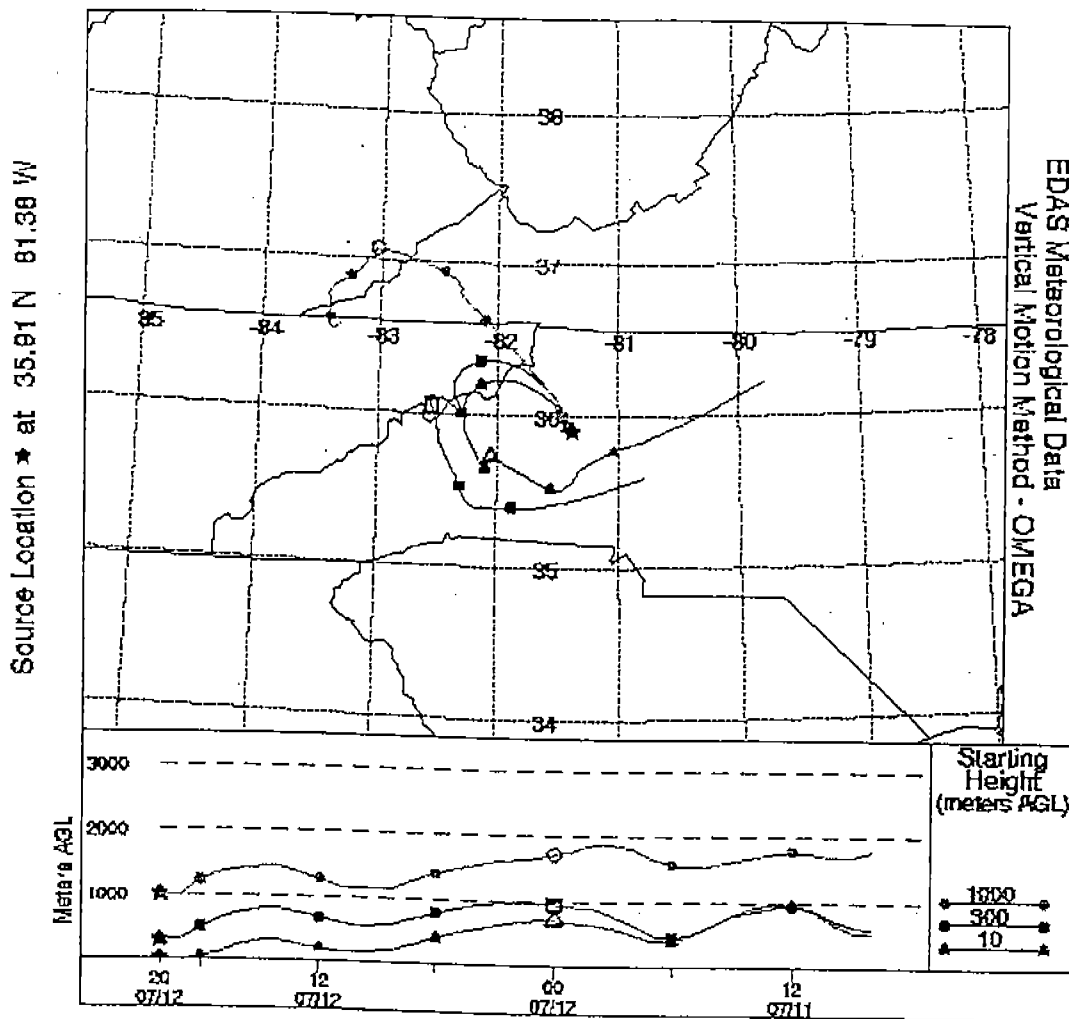




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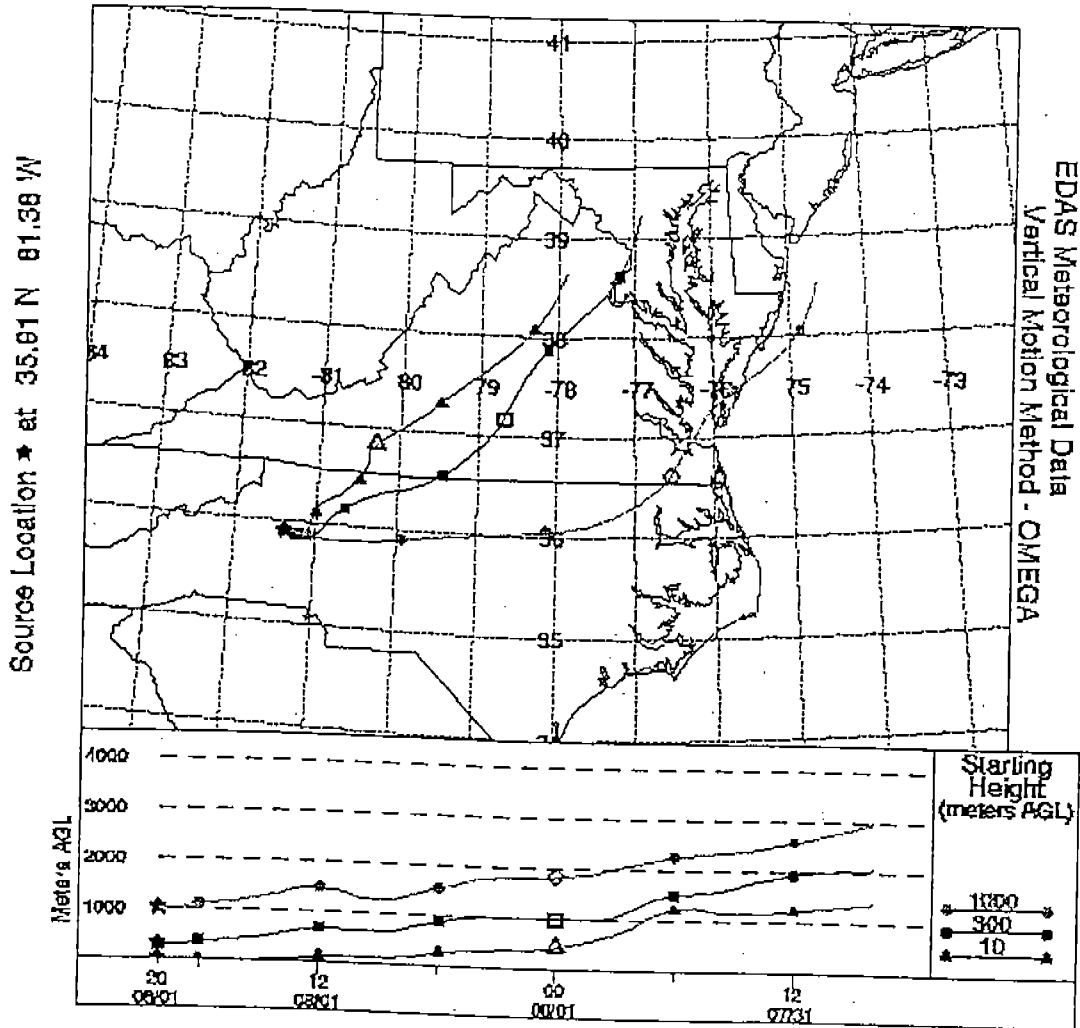




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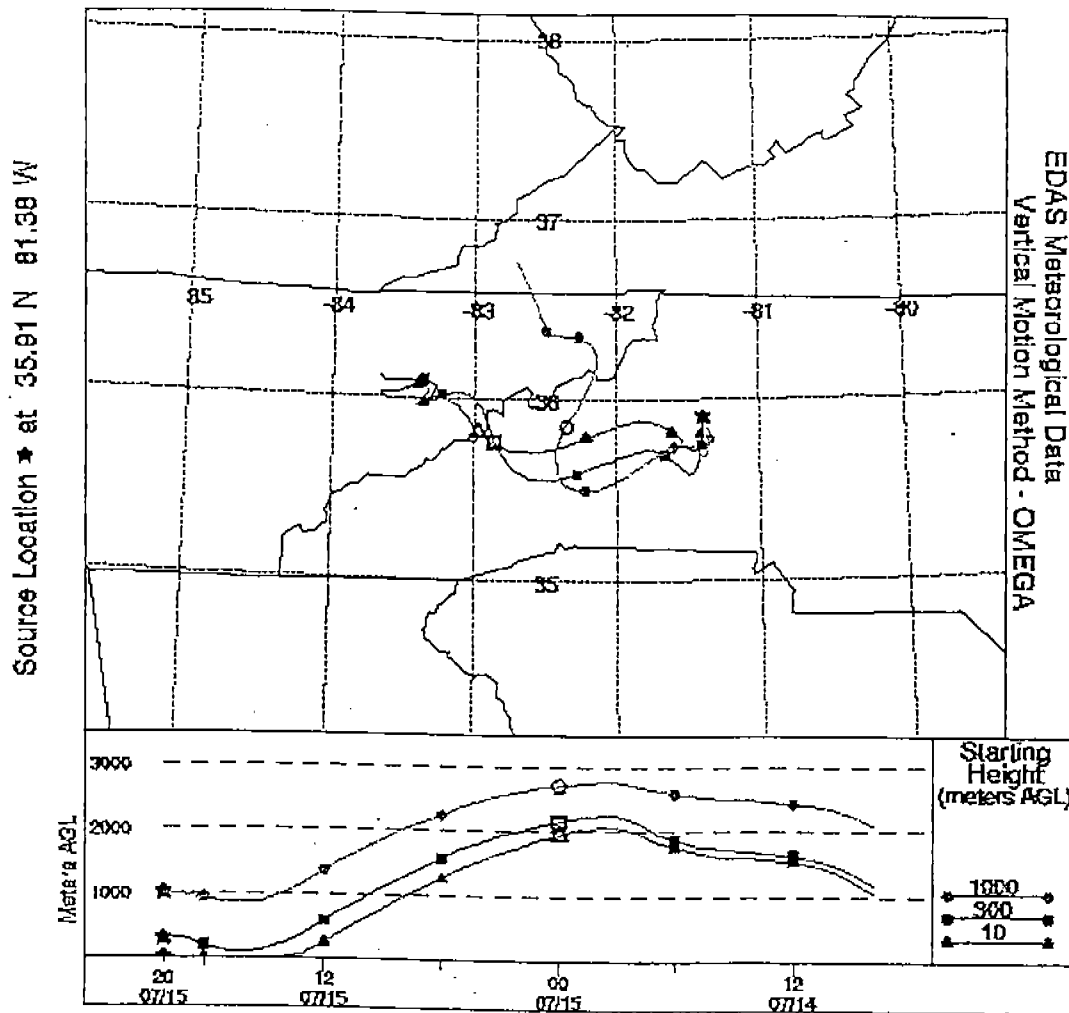




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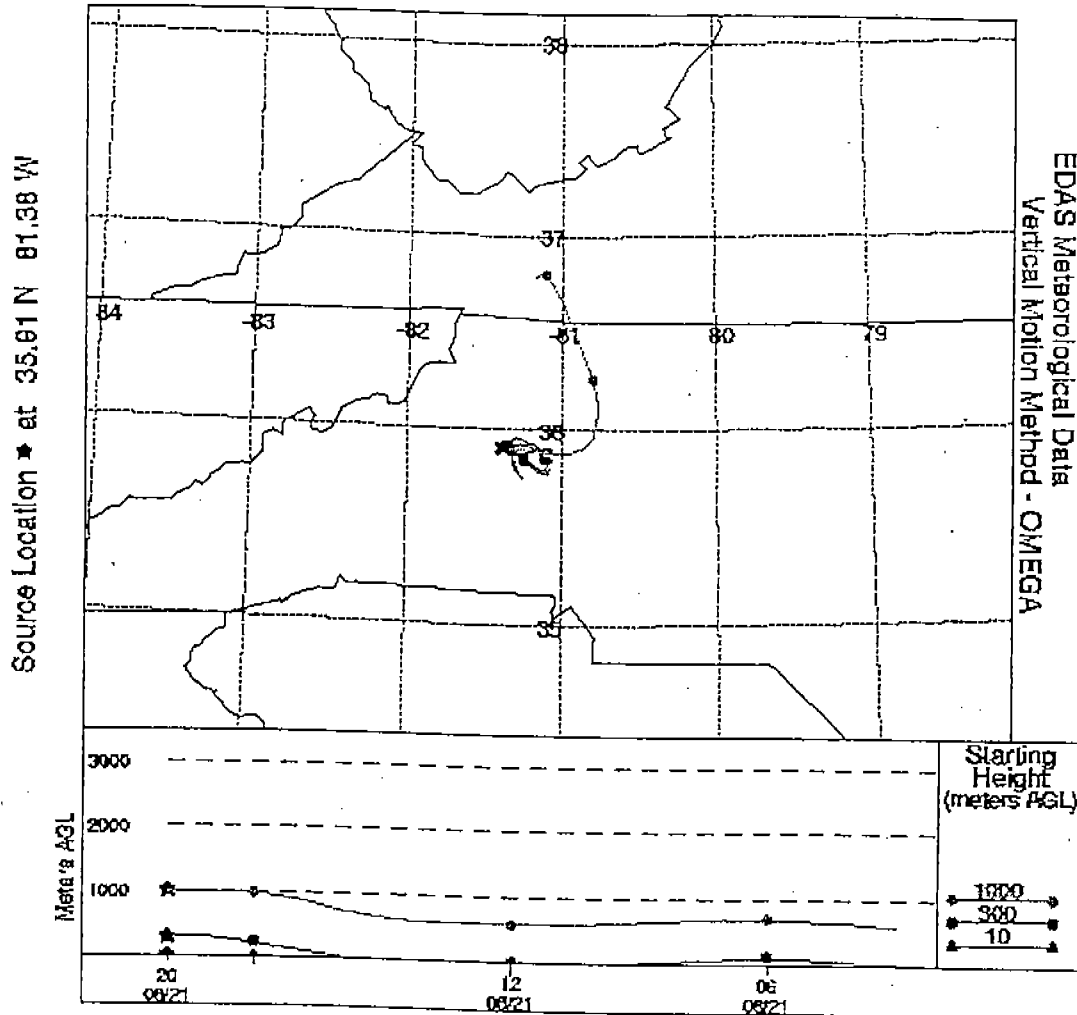




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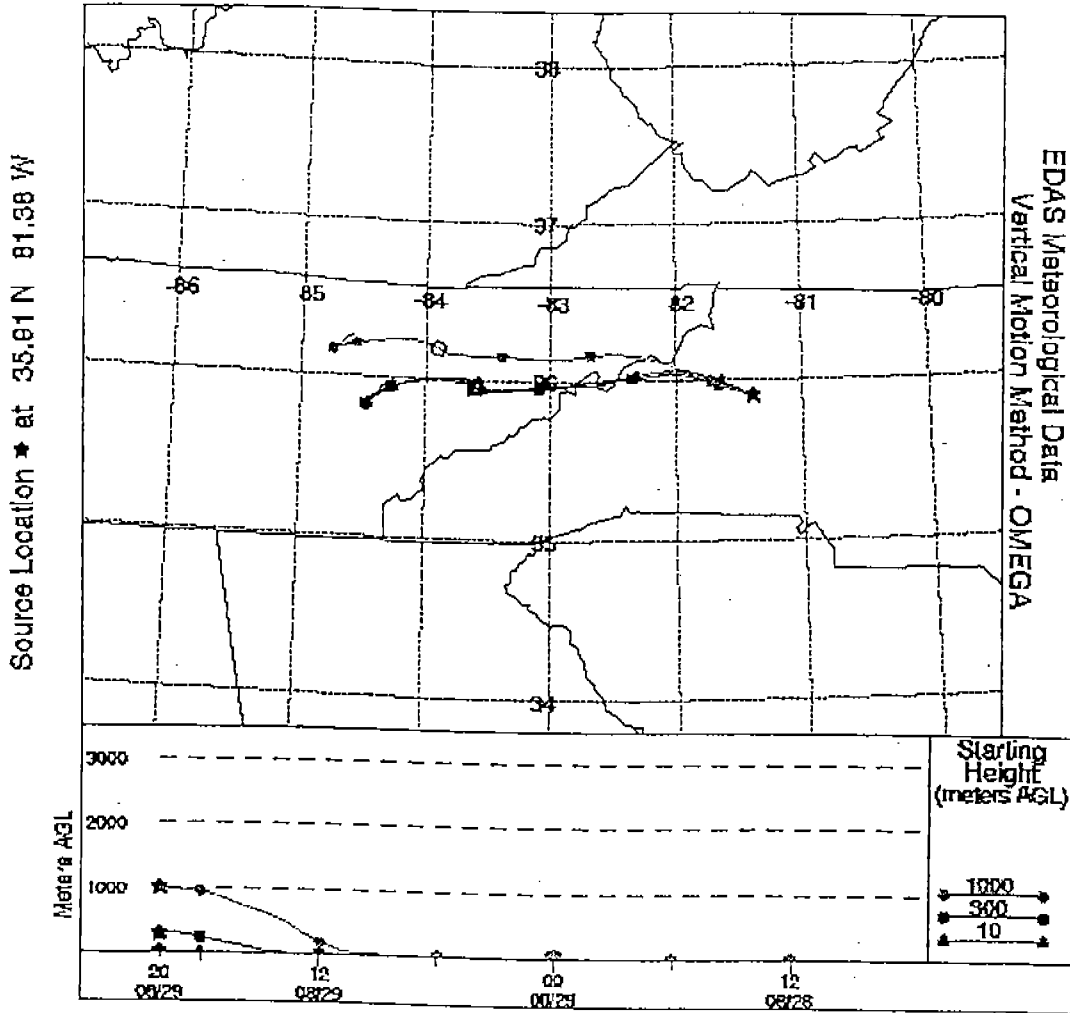




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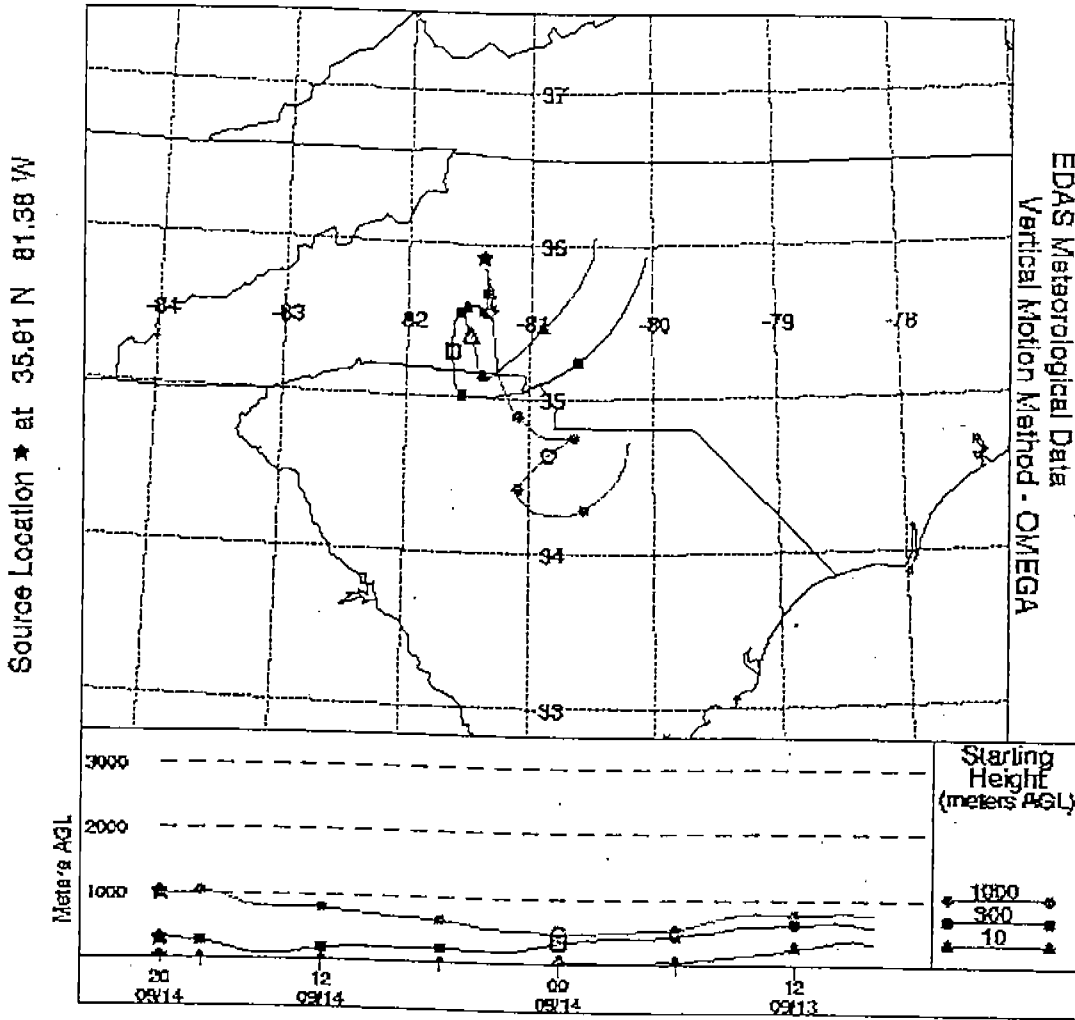




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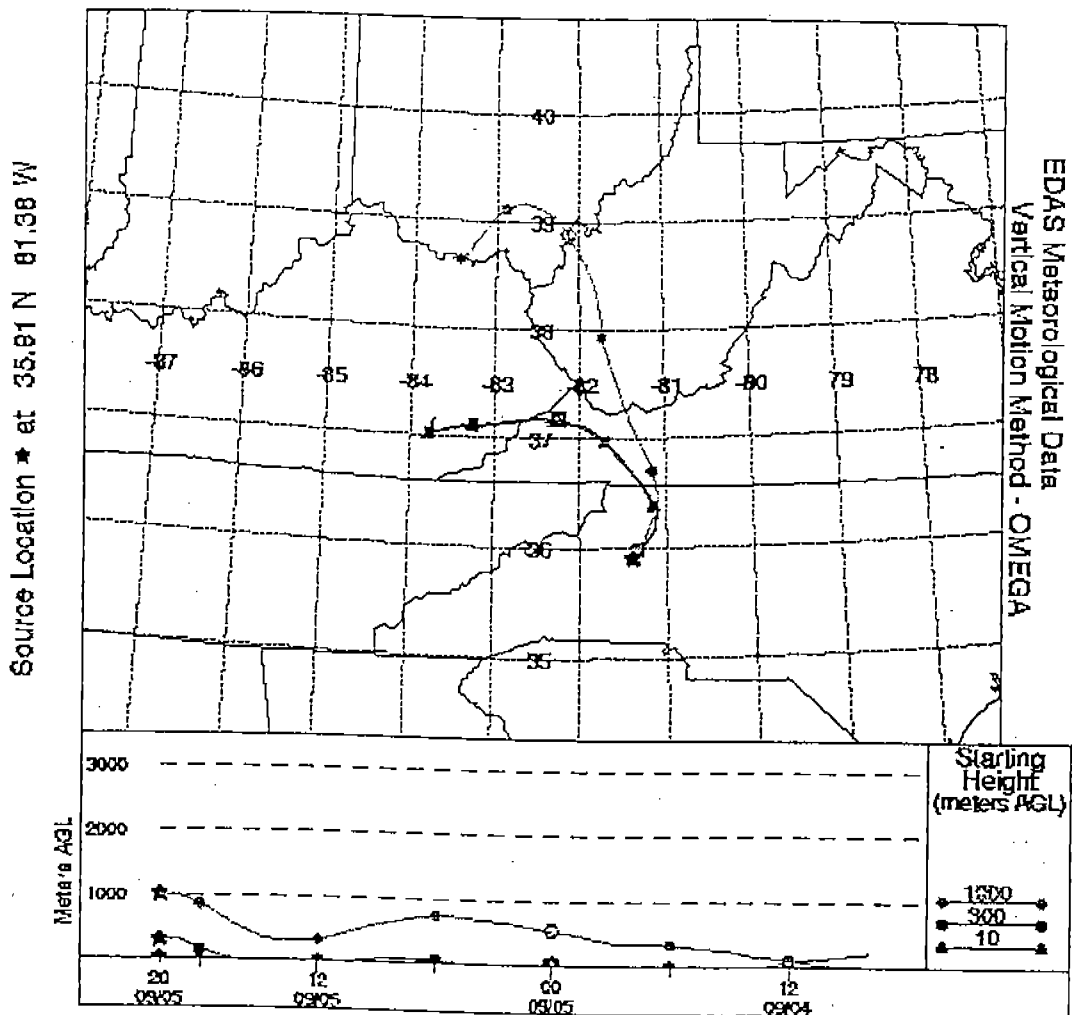


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