

Appendix F
Rawinsonde plots and weather
information

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Data Sources

- Daily Weather – Weather plots retrieved from NOAA Air Resources Laboratory site:
<http://www.arl.noaa.gov/ready/amet.us.html>

Time

- All times are UTC
- Conversion to local time: CDT = UTC – 5:00
– Ex: 17:29:00 UTC = 12:29:00 CDT

Day	Sunrise		Sunset	
	Local	UTC	Local	UTC
June 18	06:09	11:09	20:50	01:50 on Jun 19
June 19	06:10	11:10	20:50	01:50 on Jun 20
June 20	06:10	11:10	20:50	01:50 on Jun 21
June 21	06:10	11:10	20:51	01:51 on Jun 22
June 22	06:10	11:10	20:51	01:51 on Jun 23
June 23	06:10	11:10	20:51	01:51 on Jun 24
June 24	06:11	11:11	20:51	01:51 on Jun 25

Stability

- For reference – Pasquill stability classes
 - A – extremely unstable
 - B – Moderately unstable
 - C – Slightly unstable
 - D – neutral
 - E – slightly stable
 - F – moderately stable

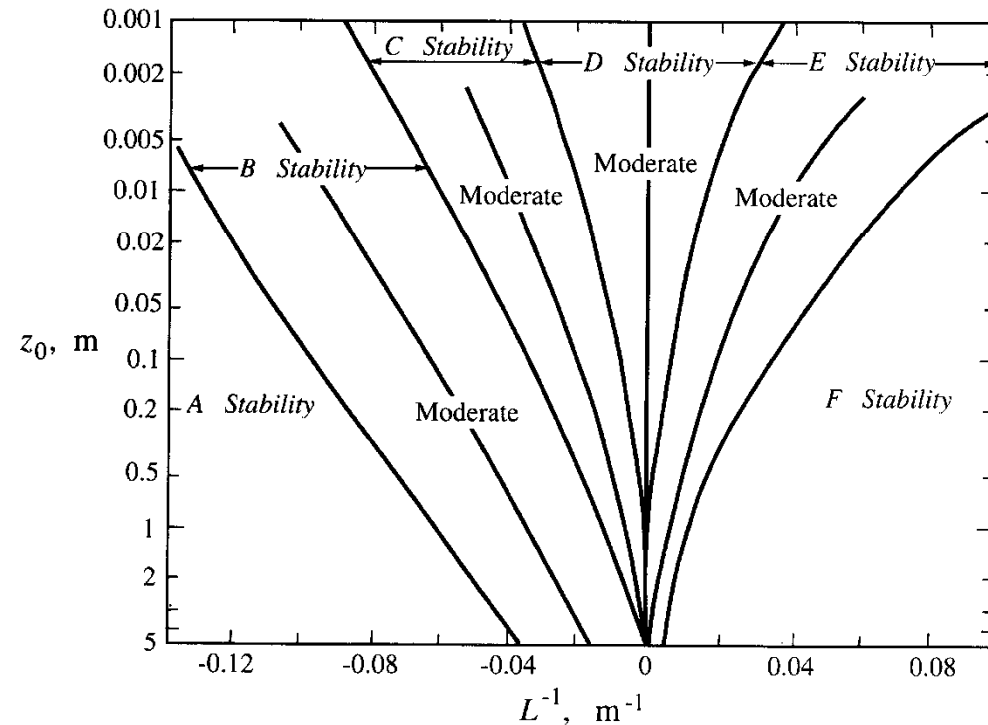
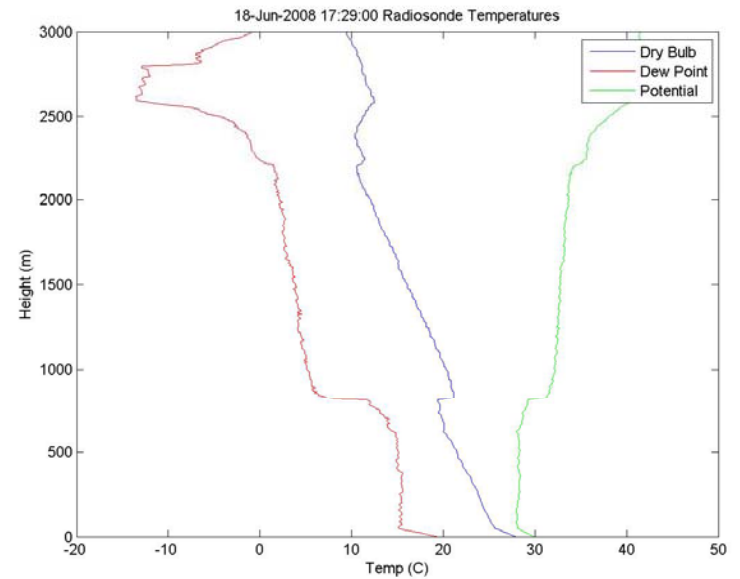
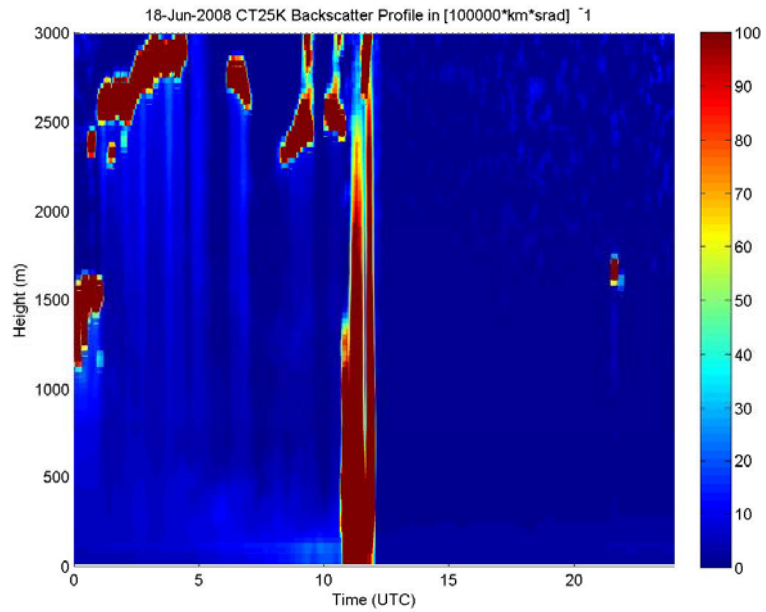
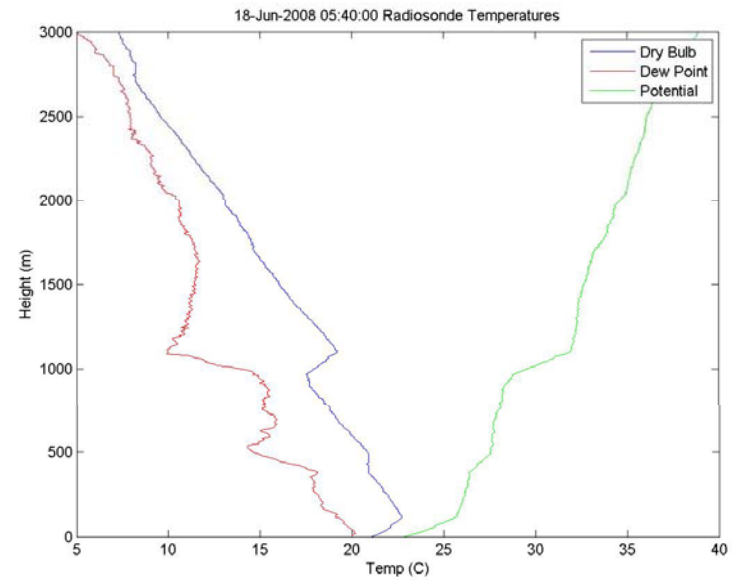
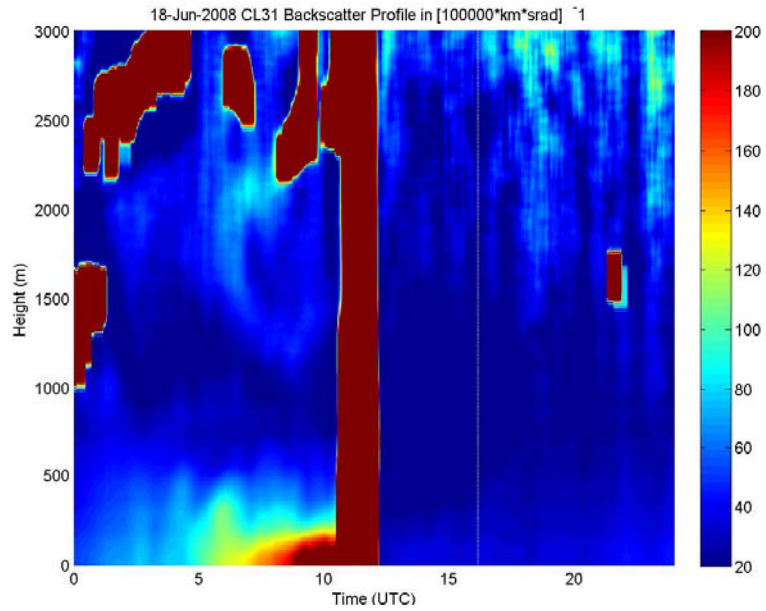


FIGURE 16.8 A relationship between Monin–Obukhov length L and roughness height z_0 for various Pasquill stability classes (Myrup and Ranzieri, 1976).

JUNE 18

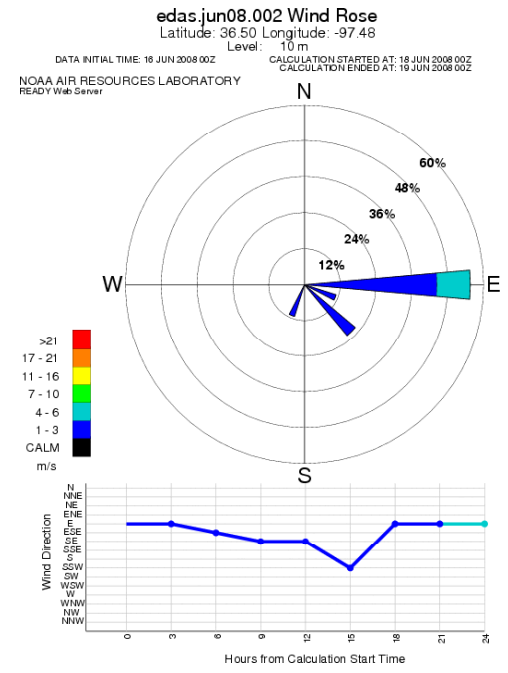
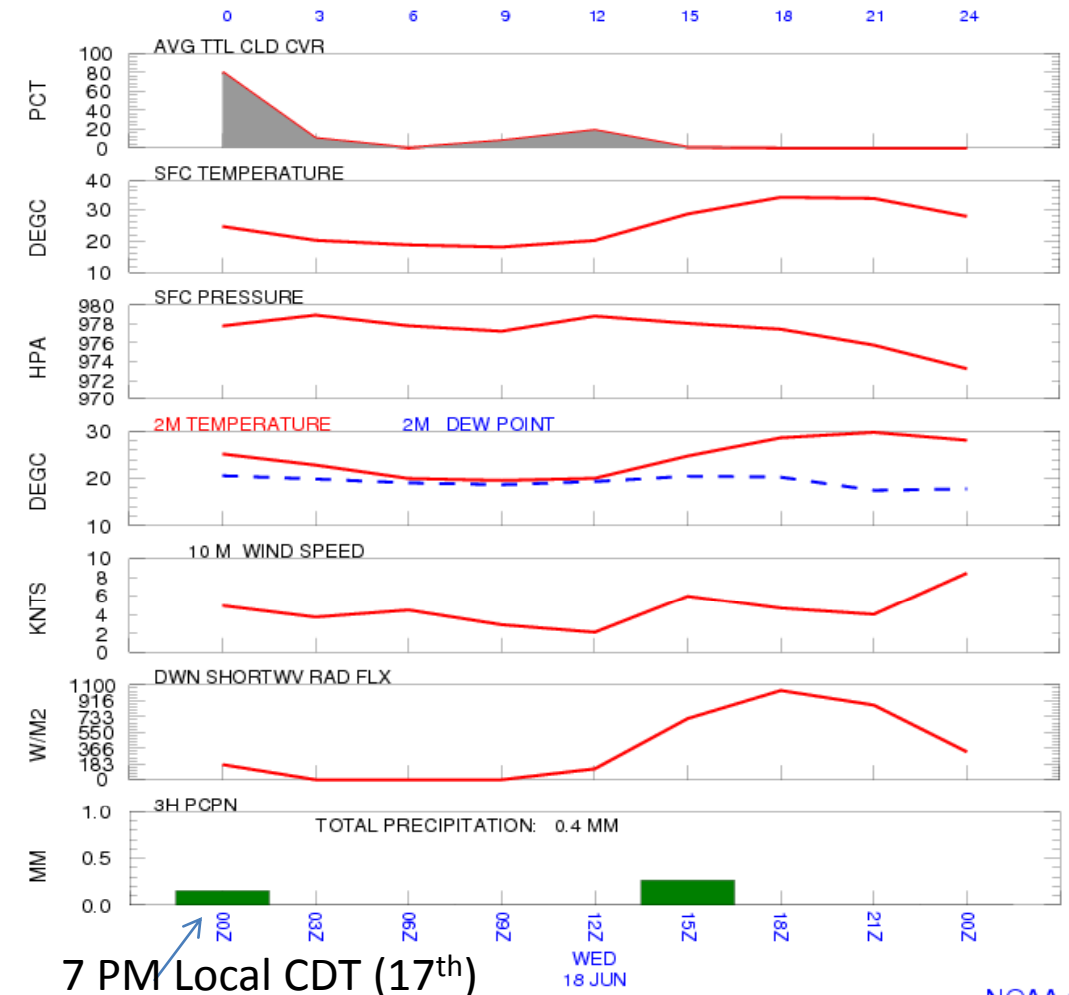
June 18



Daily Weather

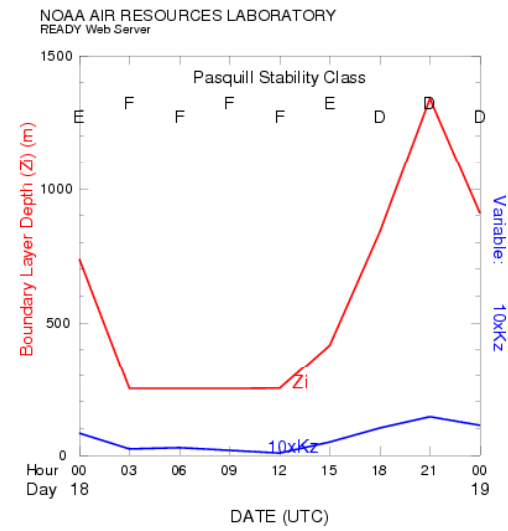
EDAS40 Archive METEOROGRAM Latitude: 36.50 Longitude: -97.48

DATA INITIAL TIME: 16 JUN 2008 00Z CALCULATION STARTED AT: 18 JUN 2008 00Z
 NOAA AIR RESOURCES LABORATORY CALCULATION ENDED AT: 19 JUN 2008 00Z
 READY Web Server



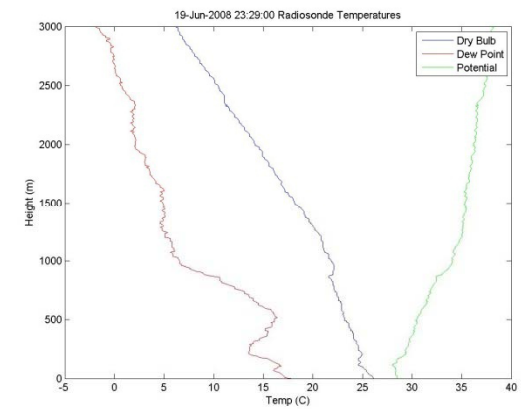
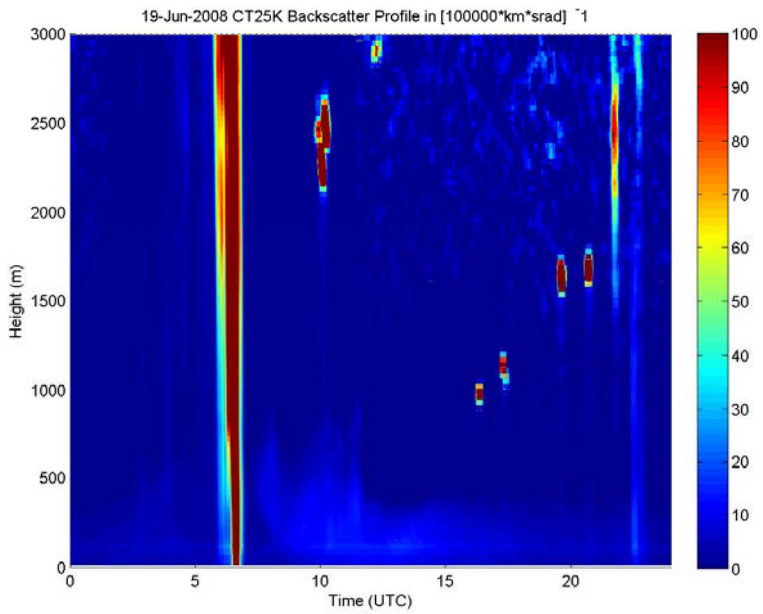
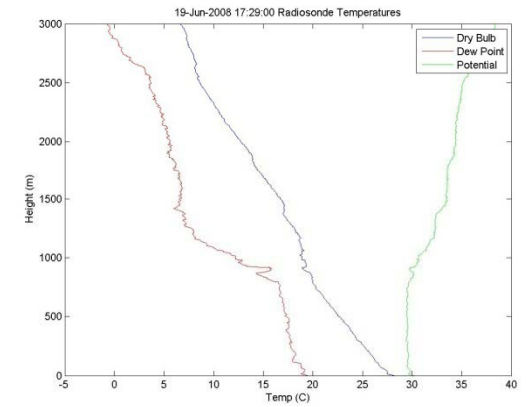
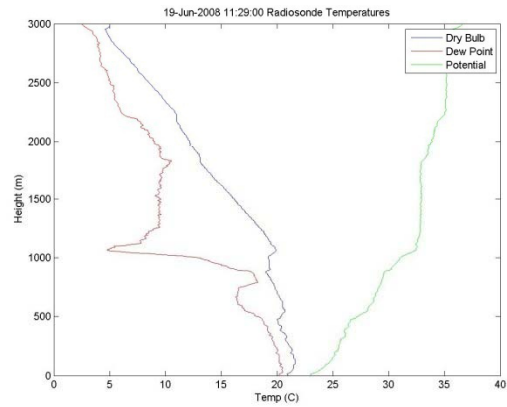
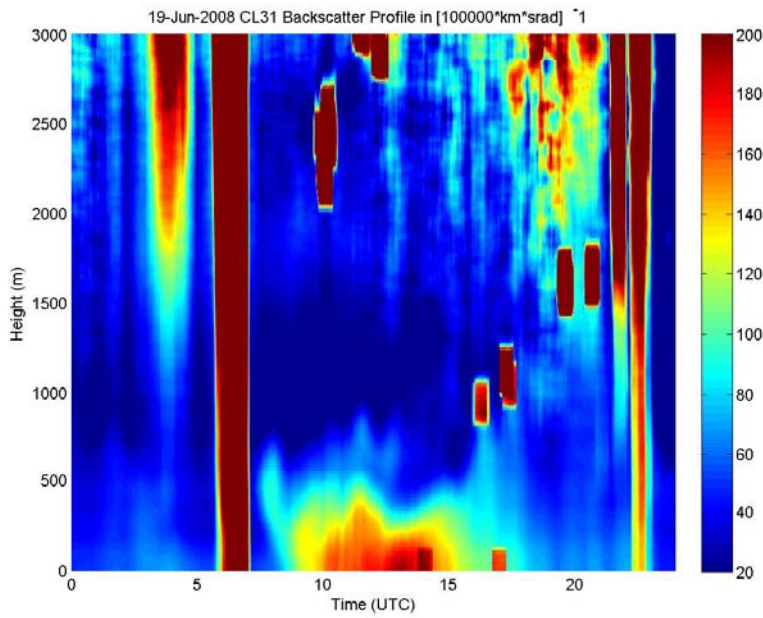
EDAS STABILITY PLOT

Latitude: 36.50 Longitude: -97.48
 DATA INITIAL TIME: 18 Jun 2008 00Z



JUNE 19

June 19

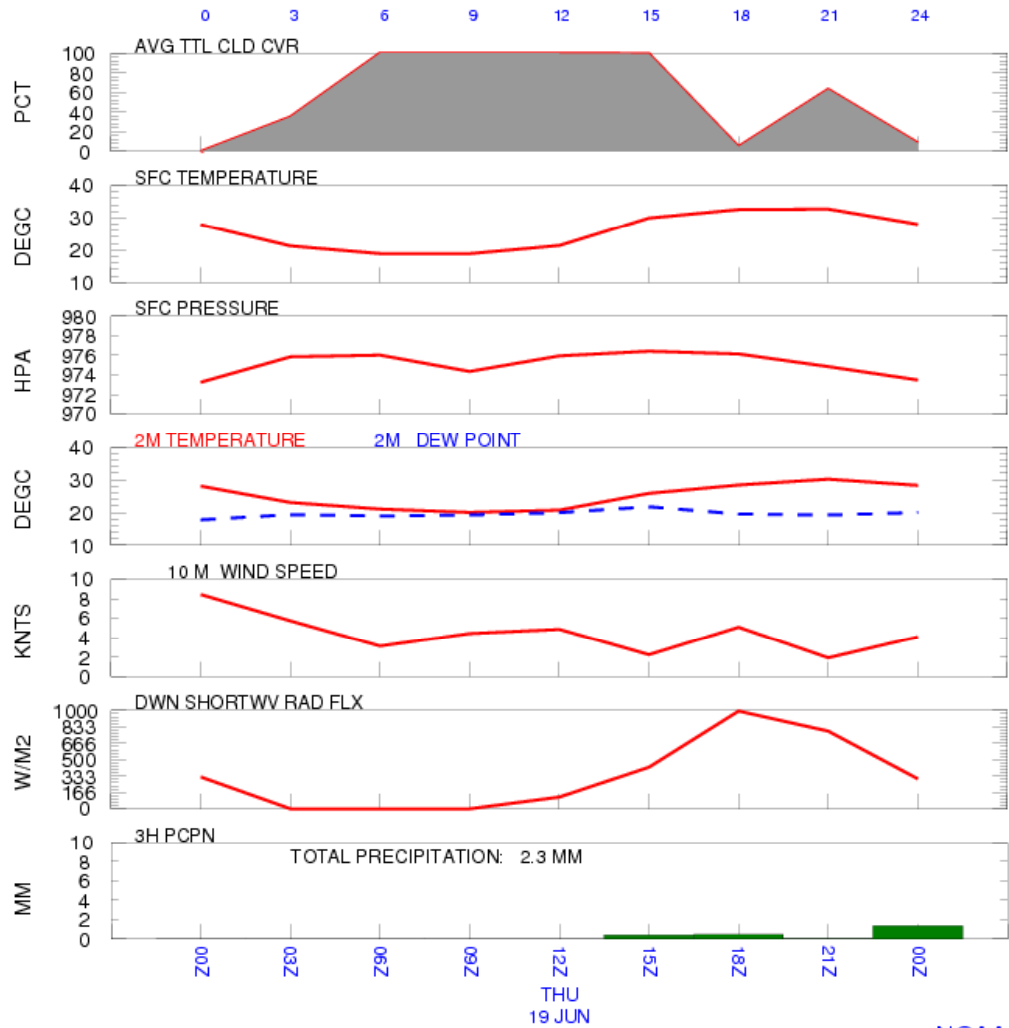


Daily Weather

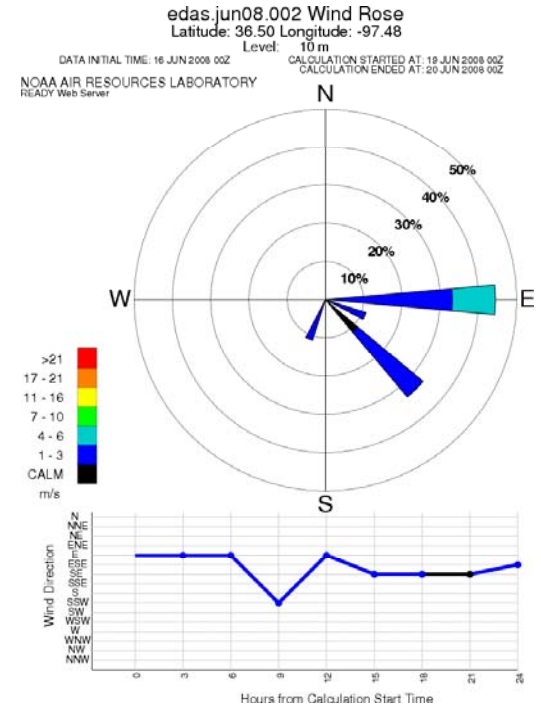
EDAS40 Archive METEOROGRAM
Latitude: 36.50 Longitude: -97.48

DATA INITIAL TIME: 16 JUN 2008 00Z
NOAA AIR RESOURCES LABORATORY
READY Web Server

CALCULATION STARTED AT: 19 JUN 2008 00Z
CALCULATION ENDED AT: 20 JUN 2008 00Z

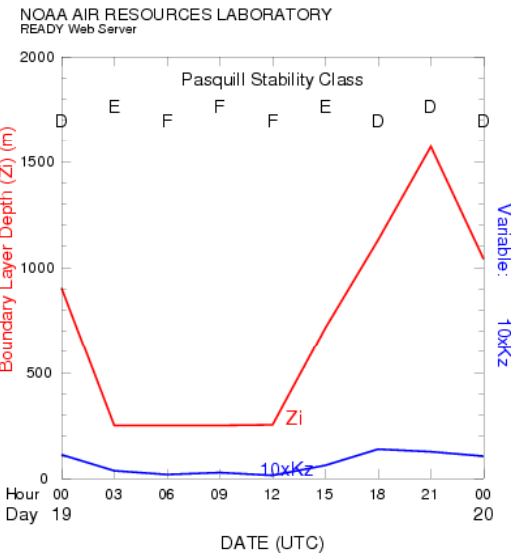


NOAA (ARL)



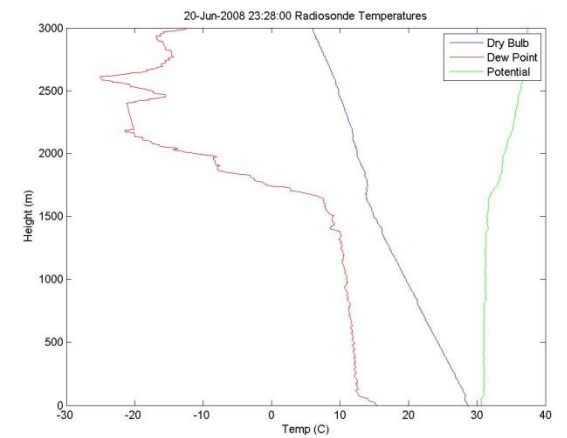
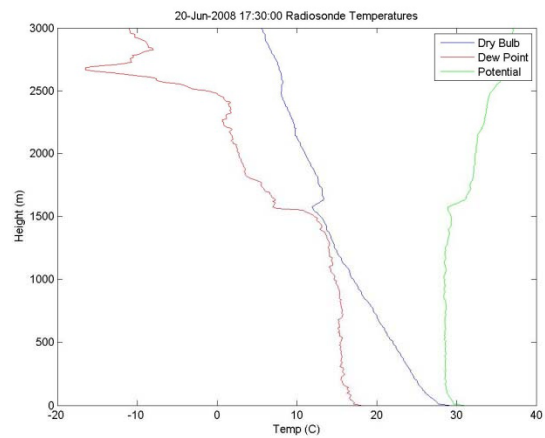
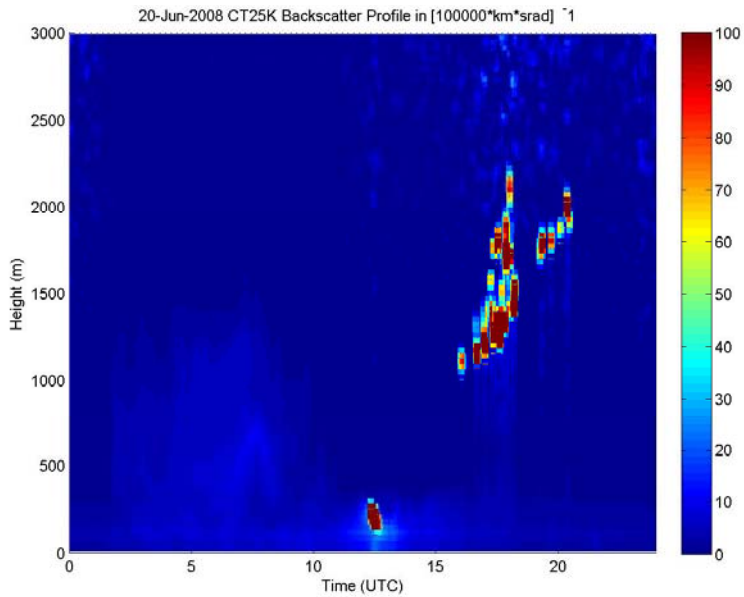
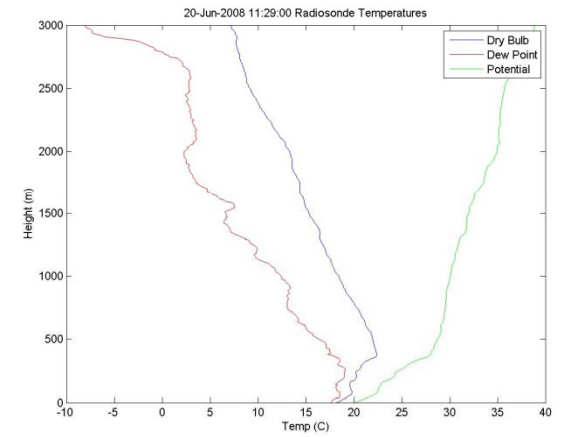
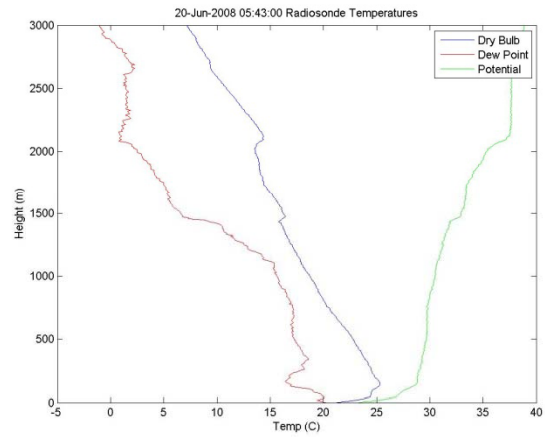
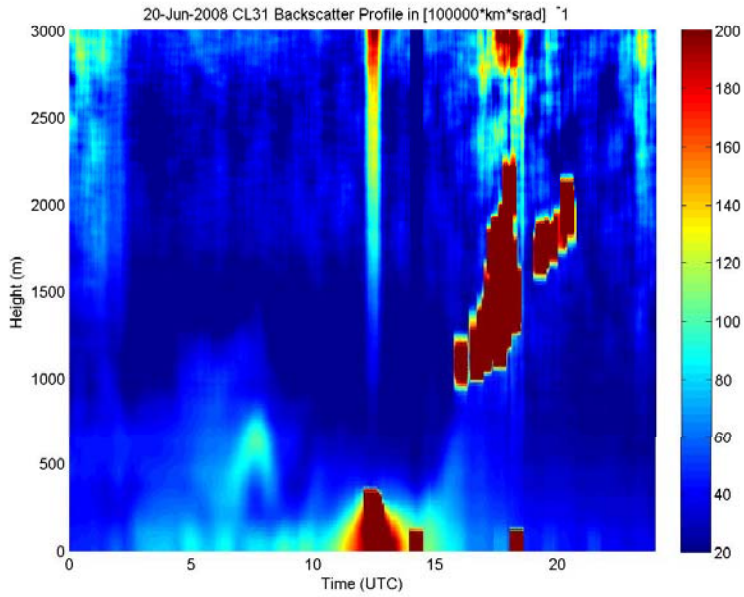
EDAS STABILITY PLOT

Latitude: 36.50 Longitude: -97.48
DATA INITIAL TIME: 19 Jun 2008 00Z



JUNE 20

June 20

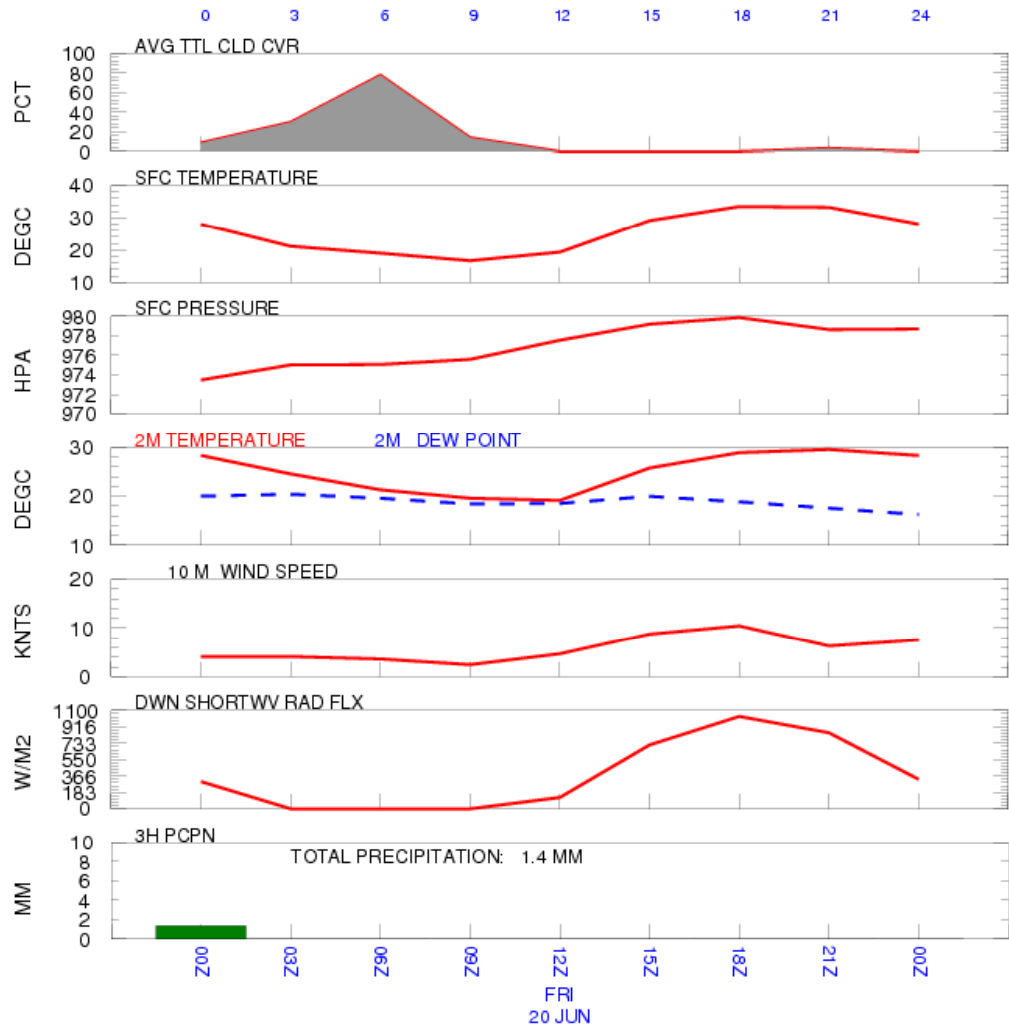


Daily Weather

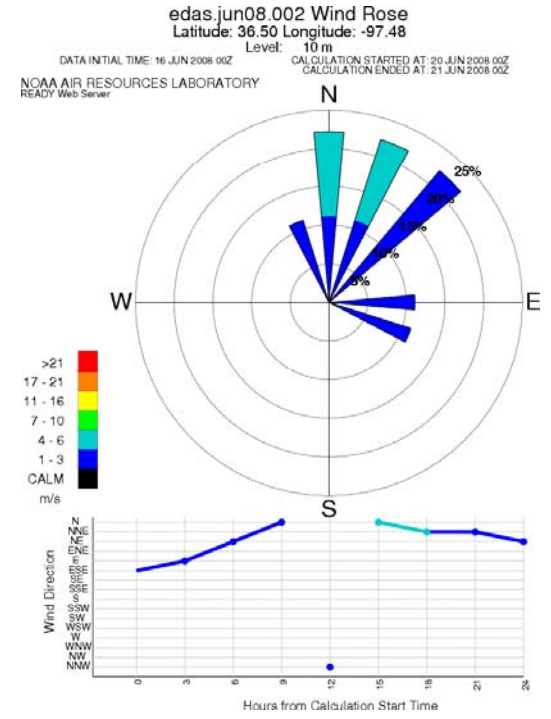
EDAS40 Archive METEOROGRAM
Latitude: 36.50 Longitude: -97.48

DATA INITIAL TIME: 16 JUN 2008 00Z
NOAA AIR RESOURCES LABORATORY
READY Web Server

CALCULATION STARTED AT: 20 JUN 2008 00Z
CALCULATION ENDED AT: 21 JUN 2008 00Z

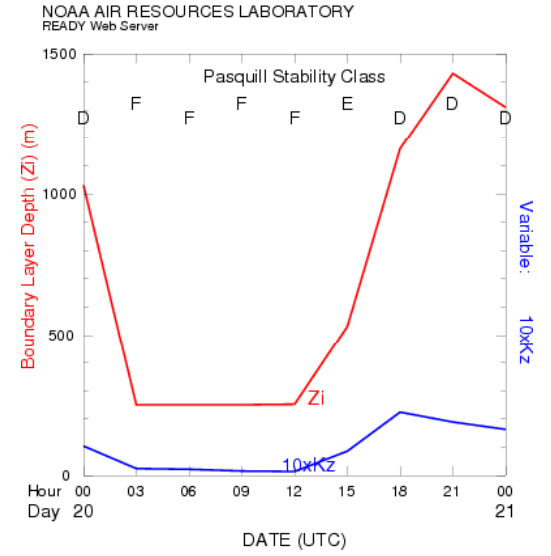


NOAA (ARL)



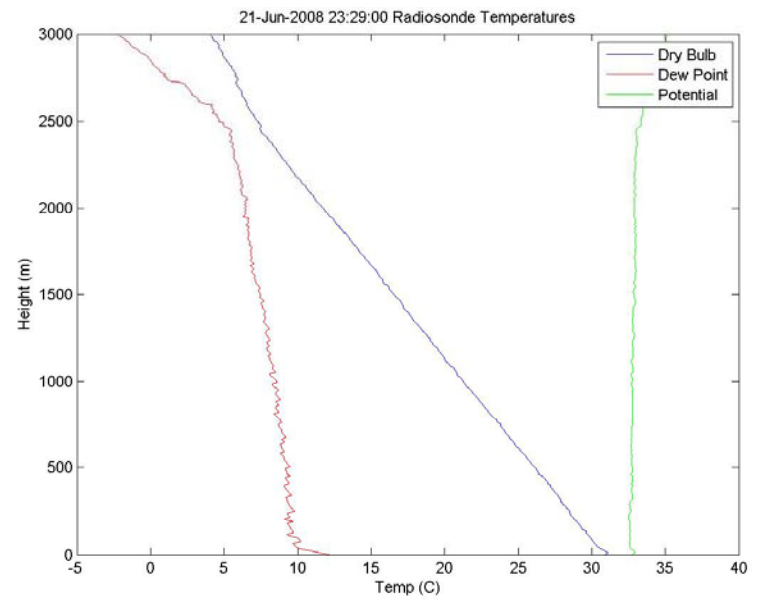
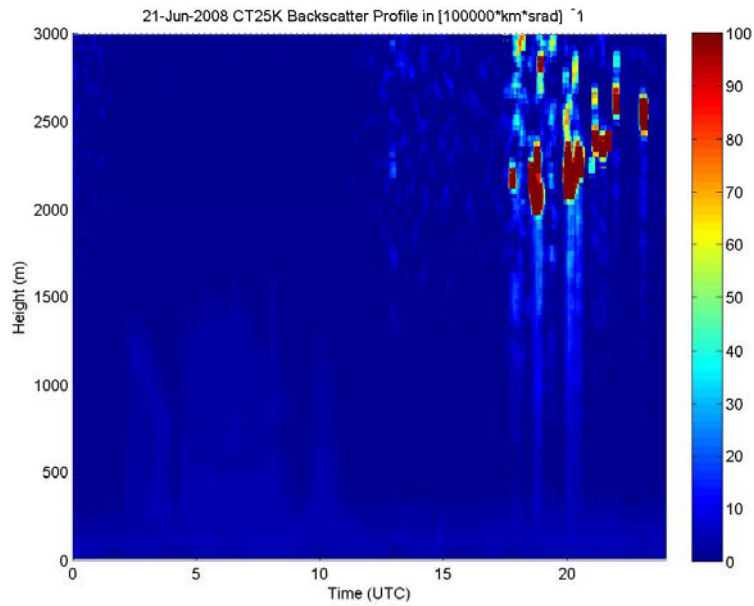
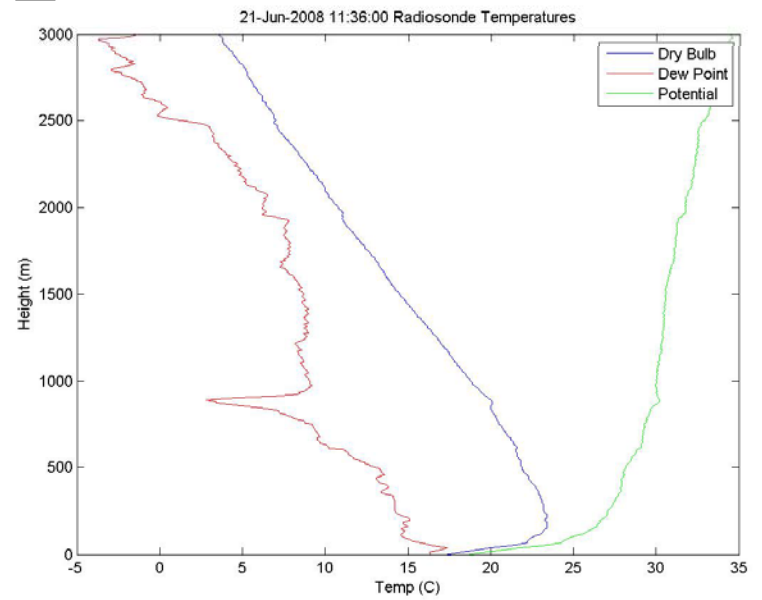
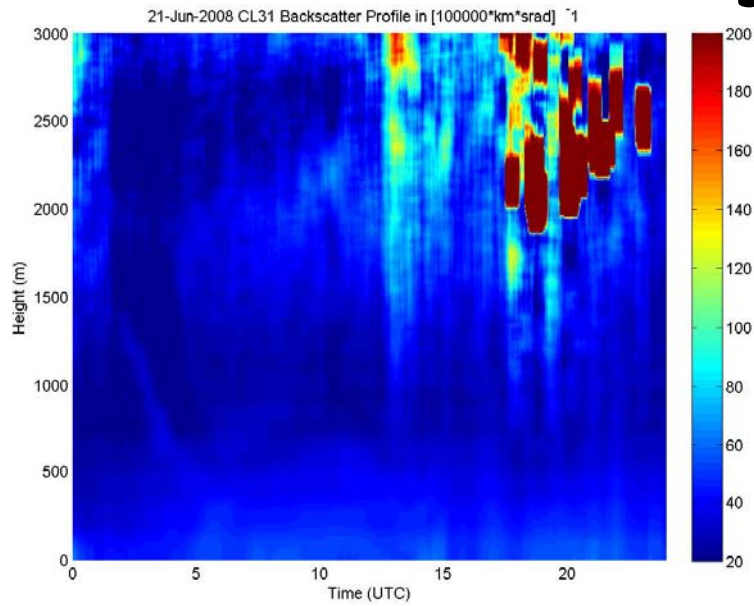
EDAS STABILITY PLOT

Latitude: 36.50 Longitude: -97.48
DATA INITIAL TIME: 20 Jun 2008 00Z



JUNE 21

June 21

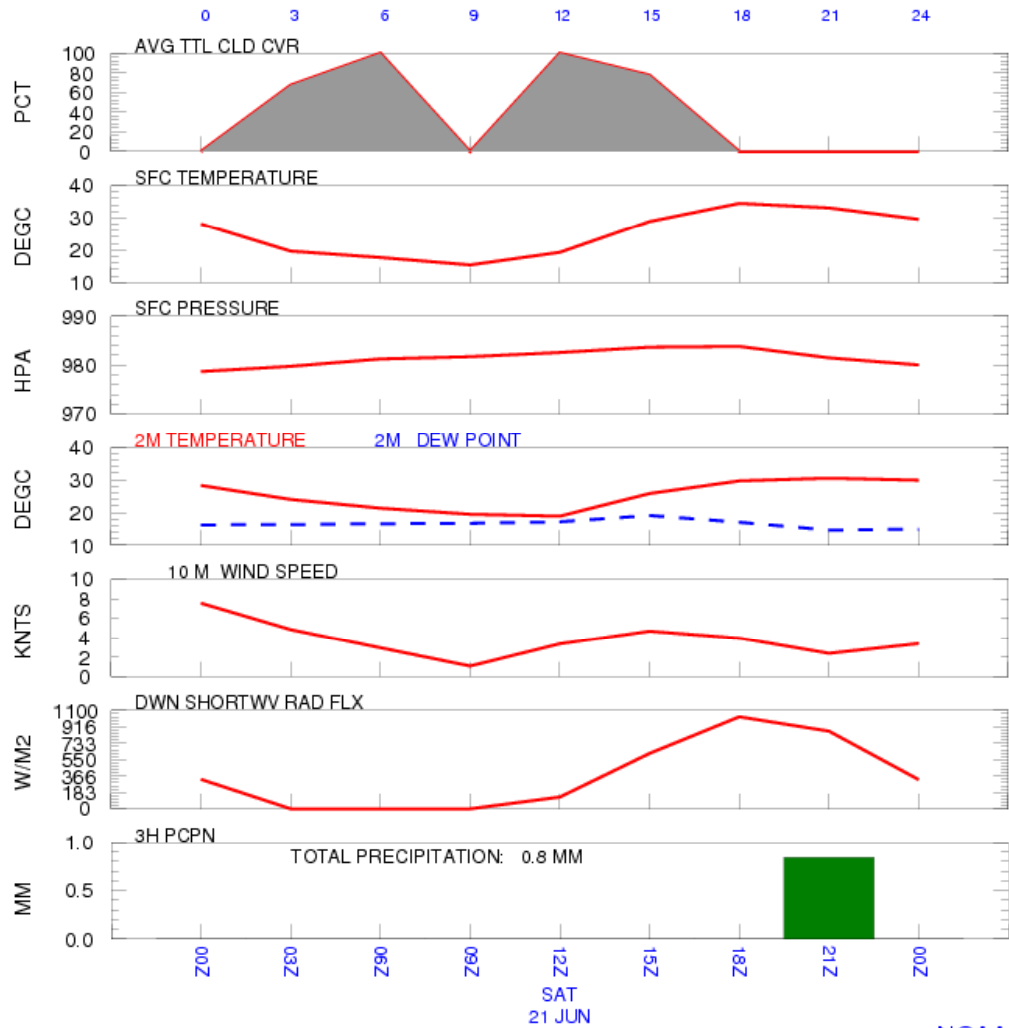


Daily Weather

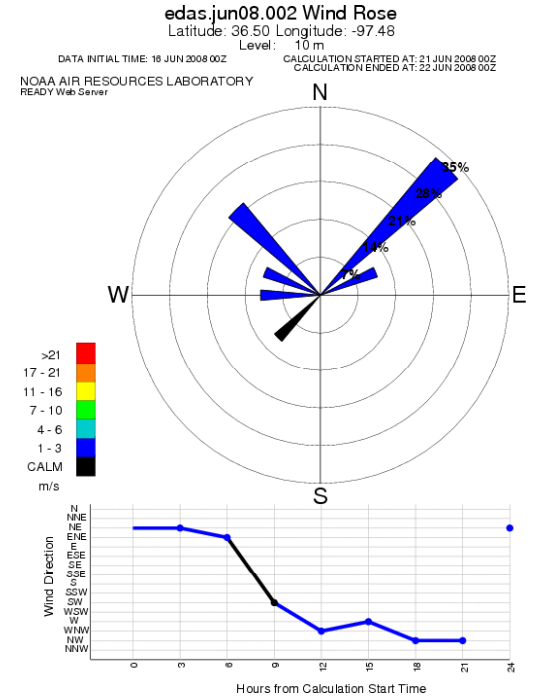
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Latitude: 36.50 Longitude: -97.48

DATA INITIAL TIME: 16 JUN 2008 00Z
NOAA AIR RESOURCES LABORATORY
READY Web Server

CALCULATION STARTED AT: 21 JUN 2008 00Z
CALCULATION ENDED AT: 22 JUN 2008 00Z

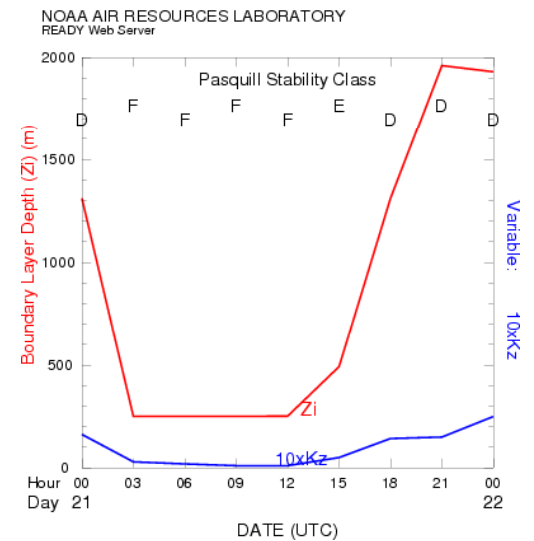


NOAA (ARL)



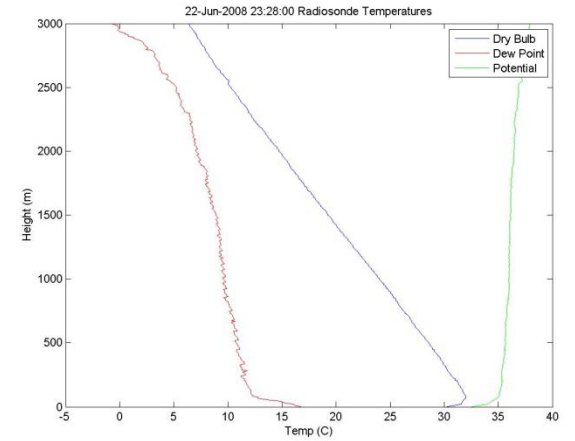
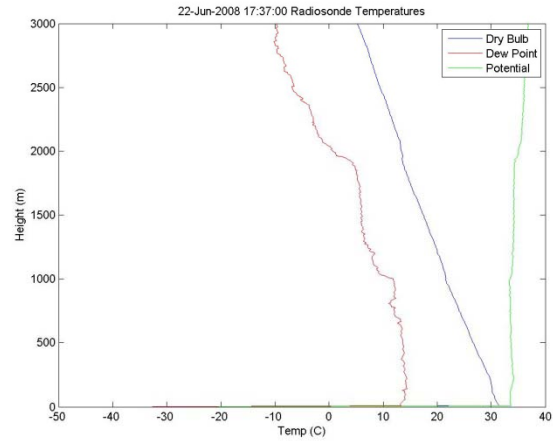
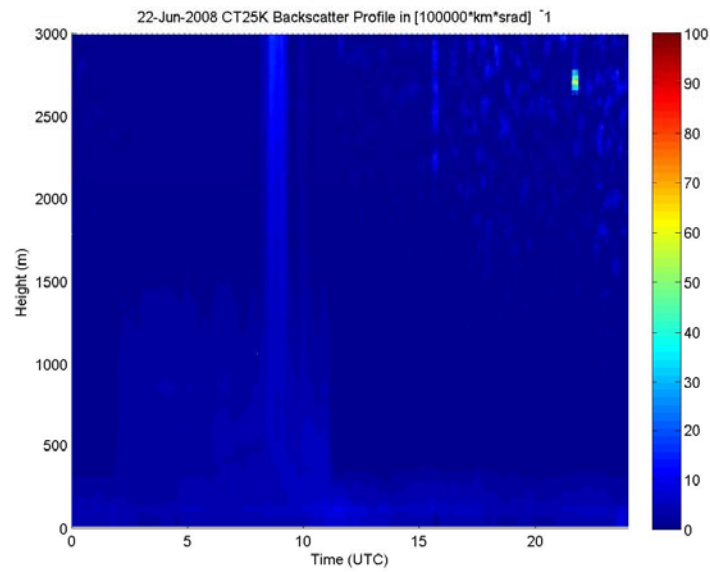
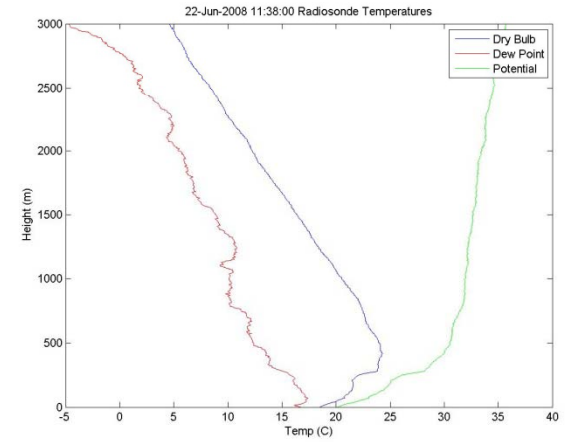
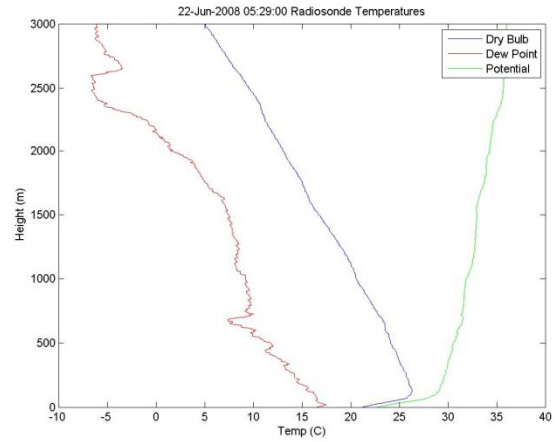
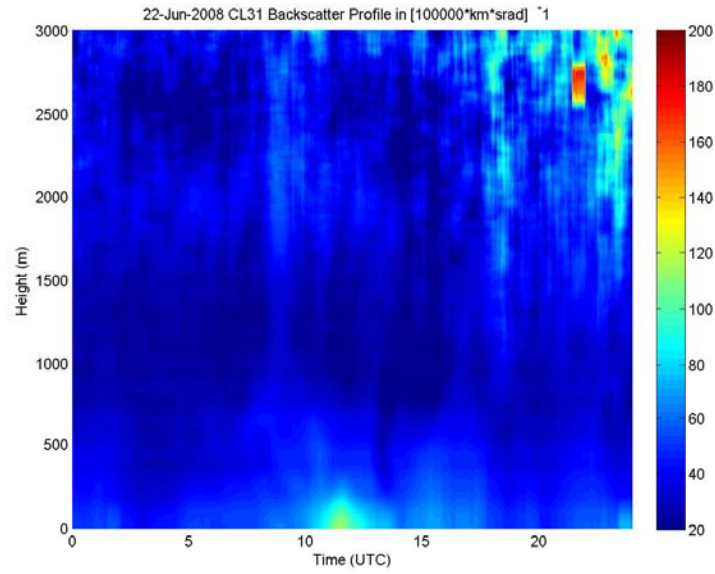
EDAS STABILITY PLOT

Latitude: 36.50 Longitude: -97.48
DATA INITIAL TIME: 21 Jun 2008 00Z



JUNE 22

June 22

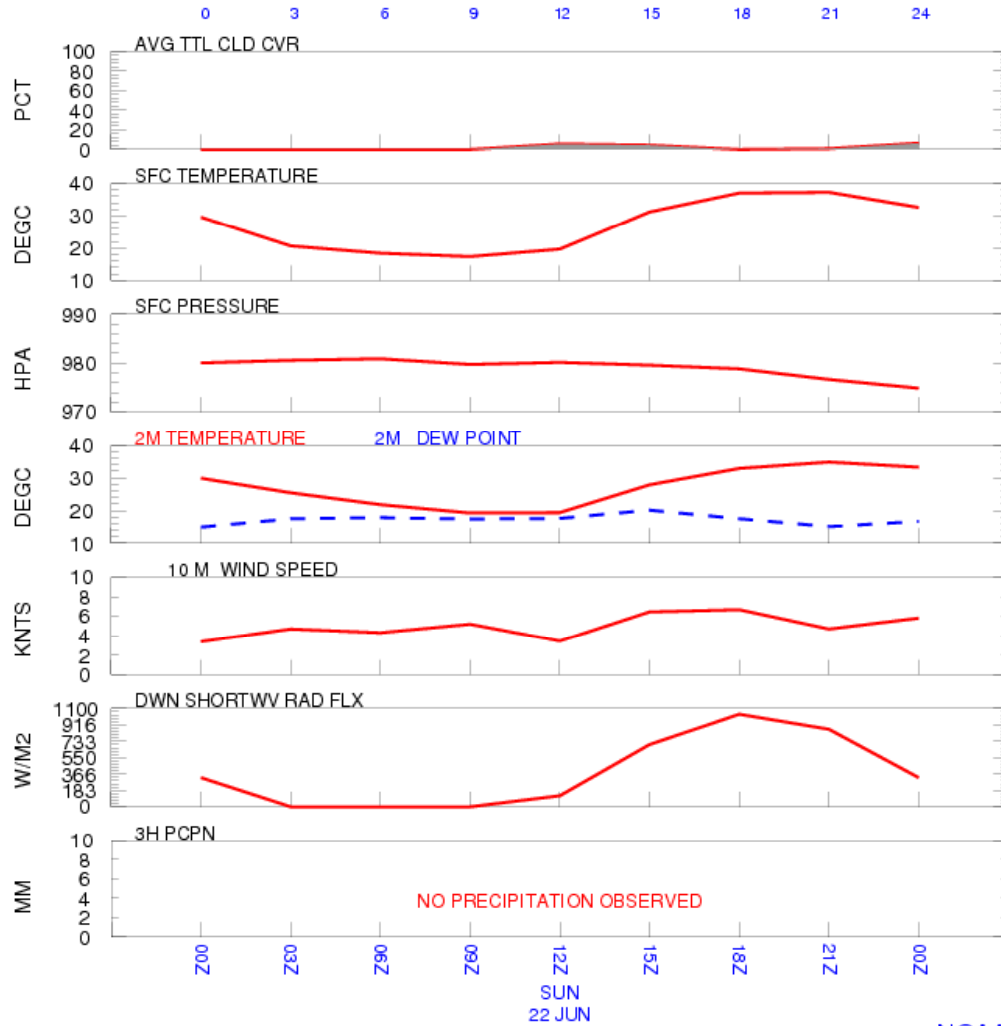


Daily Weather

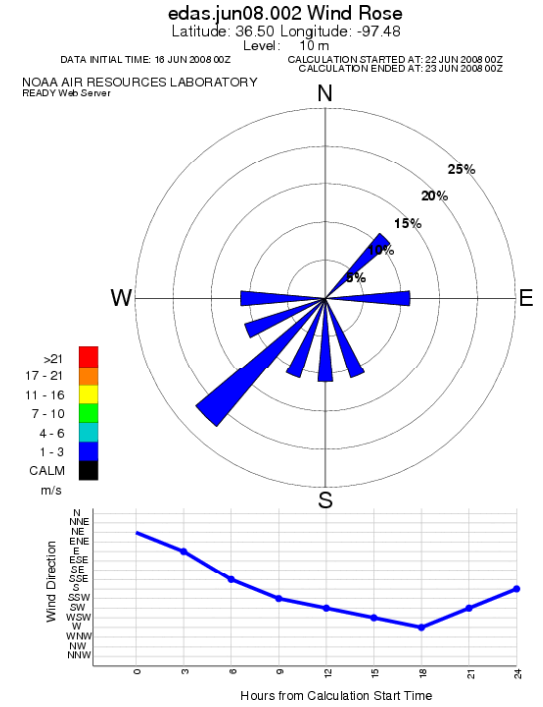
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Latitude: 36.50 Longitude: -97.48

DATA INITIAL TIME: 16 JUN 2008 00Z
NOAA AIR RESOURCES LABORATORY
READY Web Server

CALCULATION STARTED AT: 22 JUN 2008 00Z
CALCULATION ENDED AT: 23 JUN 2008 00Z

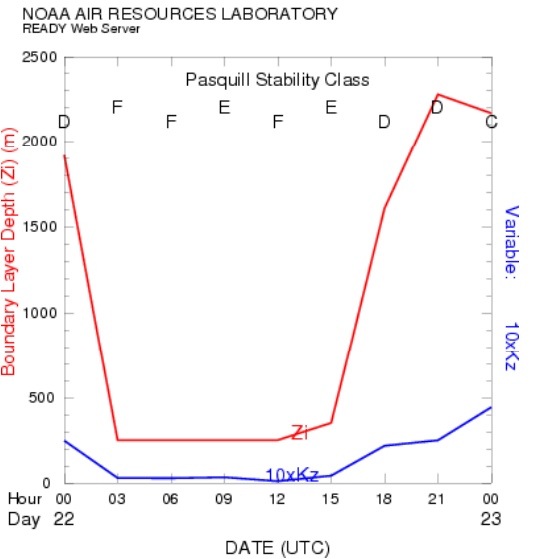


NOAA (ARL)



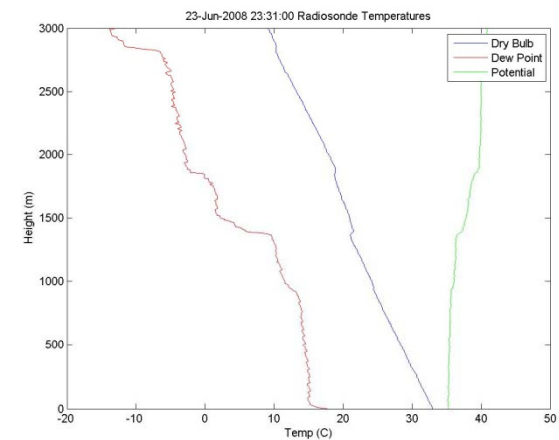
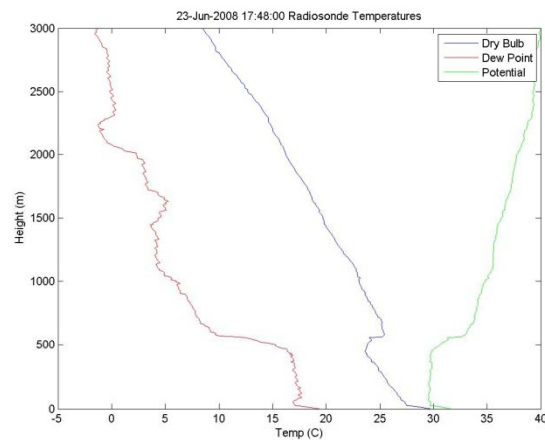
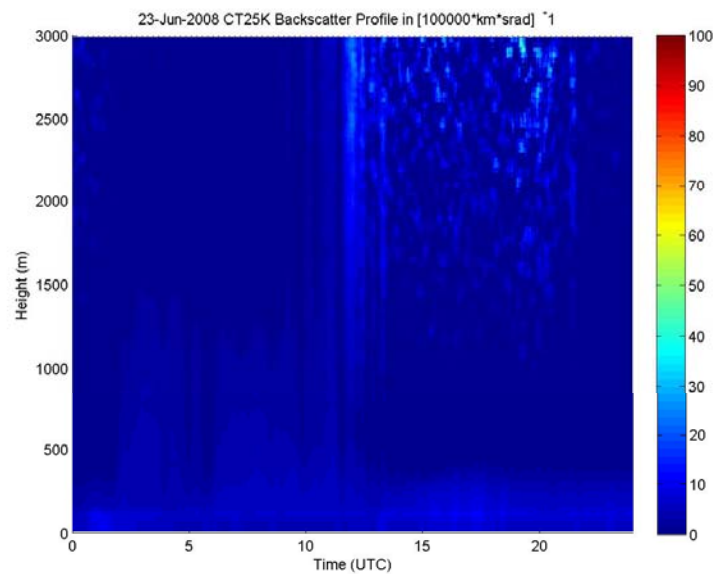
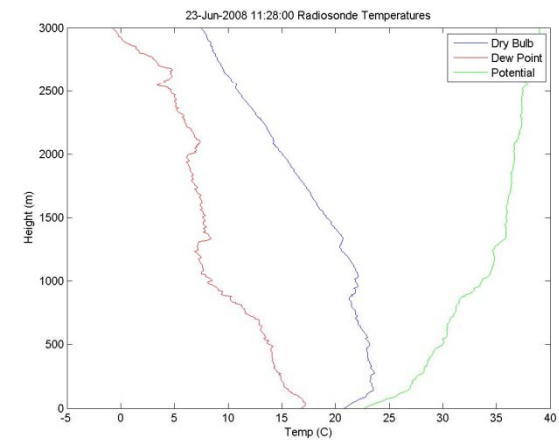
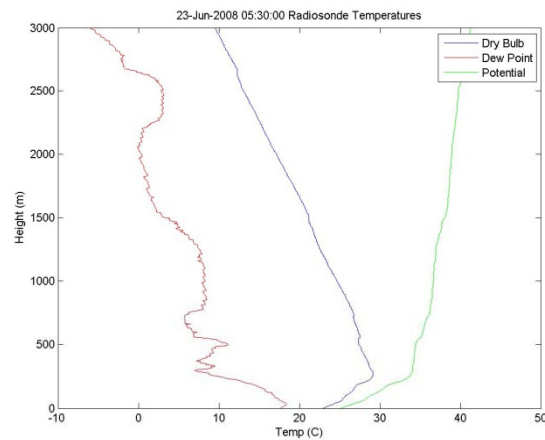
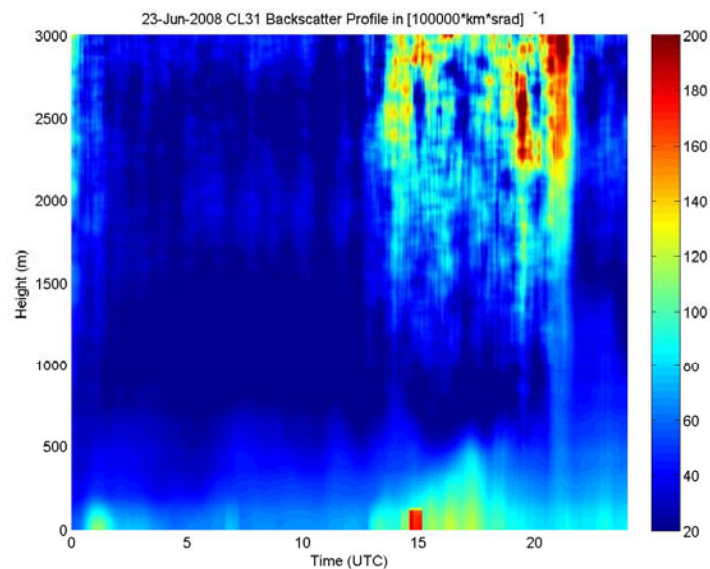
EDAS STABILITY PLOT

Latitude: 36.50 Longitude: -97.48
DATA INITIAL TIME: 22 Jun 2008 00Z



JUNE 23

June 23

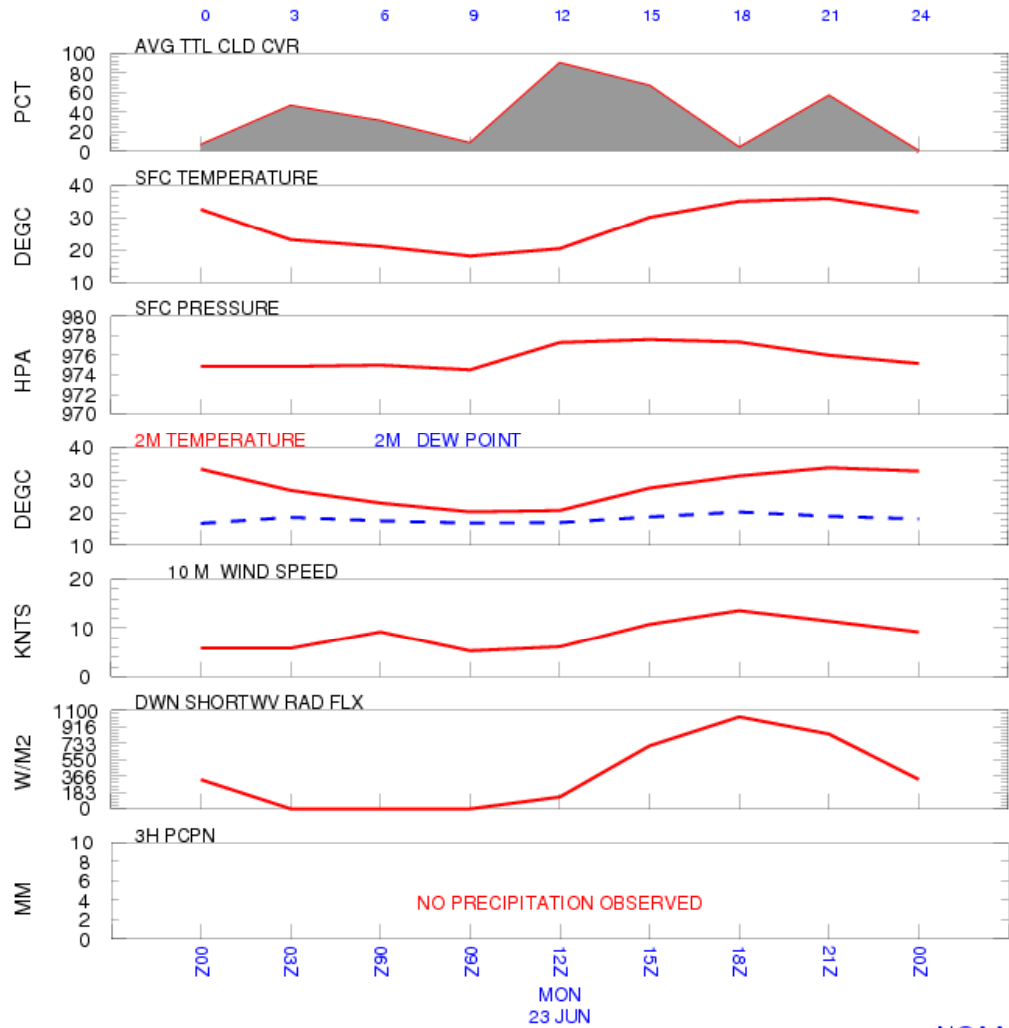


Daily Weather

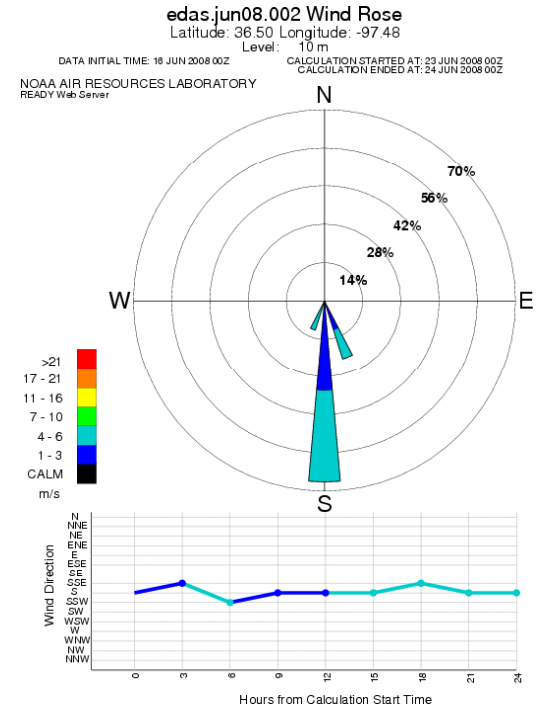
EDAS40 Archive METEOROGRAM
Latitude: 36.50 Longitude: -97.48

DATA INITIAL TIME: 16 JUN 2008 00Z
NOAA AIR RESOURCES LABORATORY
READY Web Server

CALCULATION STARTED AT: 23 JUN 2008 00Z
CALCULATION ENDED AT: 24 JUN 2008 00Z



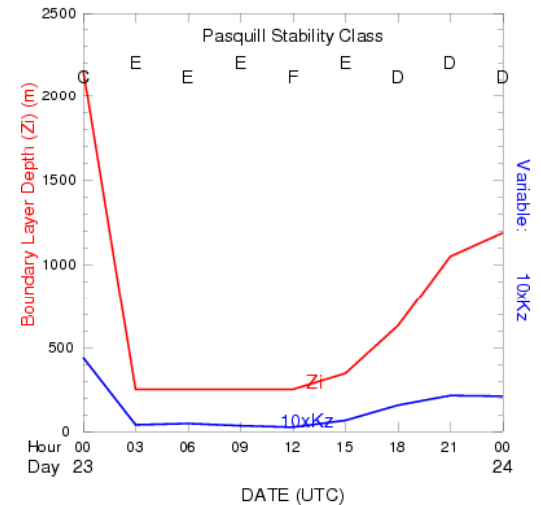
NOAA (ARL)



EDAS STABILITY PLOT

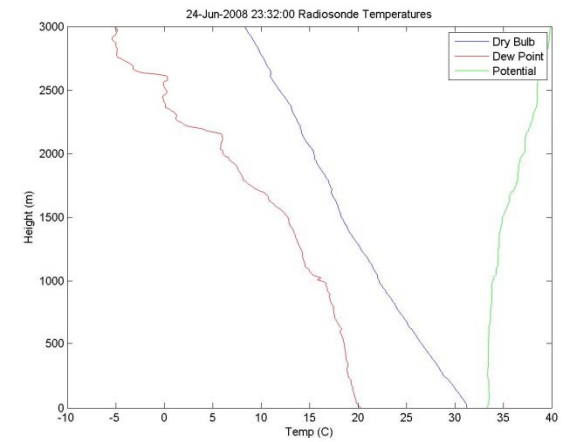
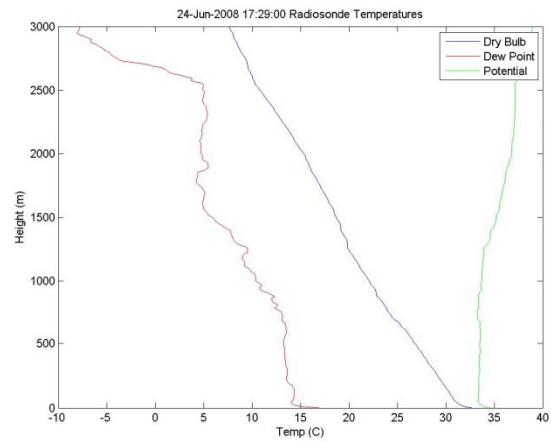
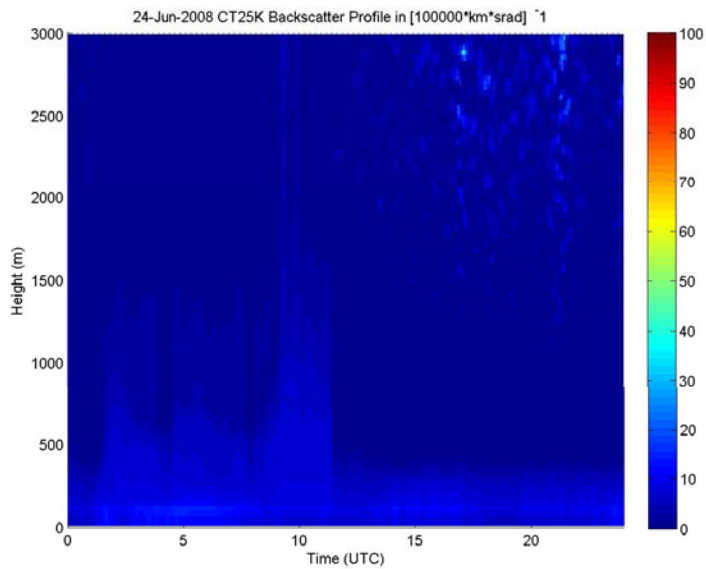
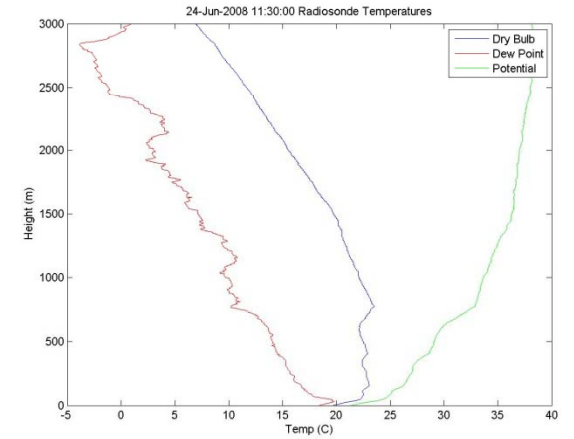
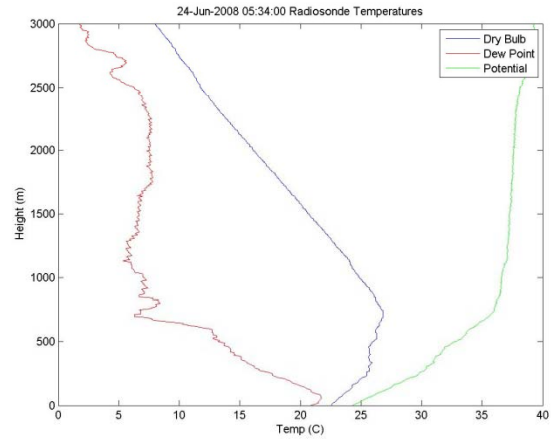
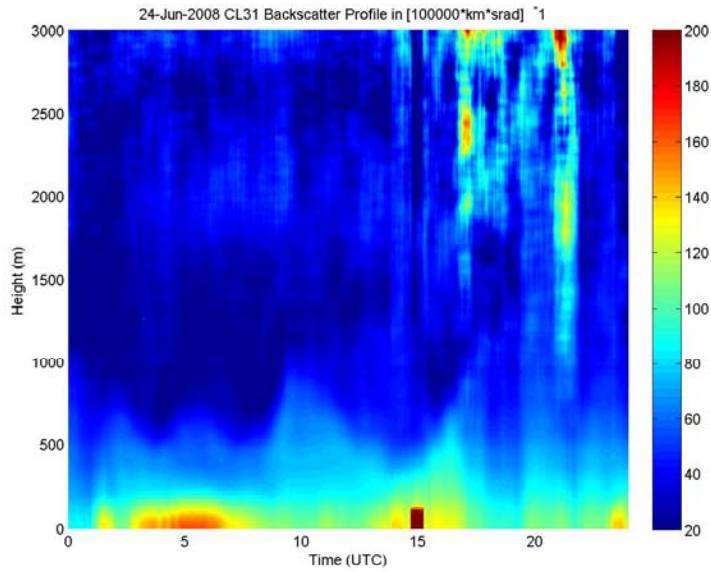
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JUNE 24

June 24

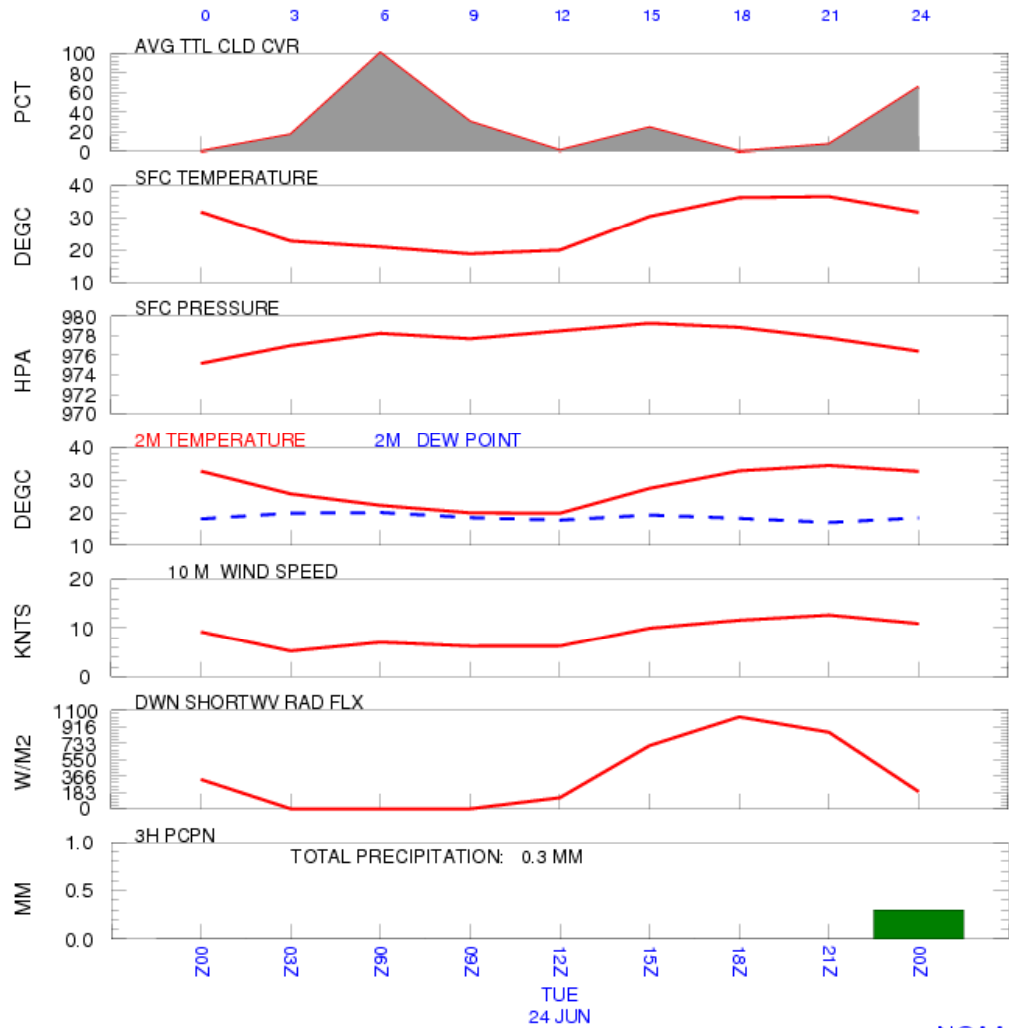


Daily Weather

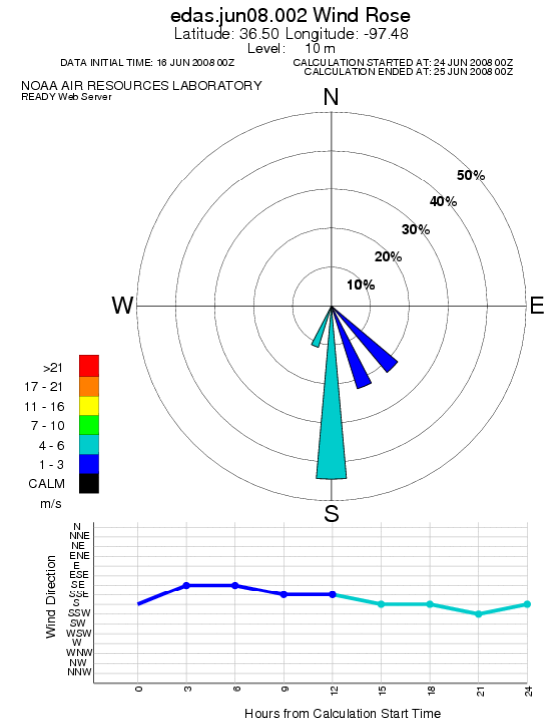
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Latitude: 36.50 Longitude: -97.48

DATA INITIAL TIME: 16 JUN 2008 00Z
NOAA AIR RESOURCES LABORATORY
READY Web Server

CALCULATION STARTED AT: 24 JUN 2008 00Z
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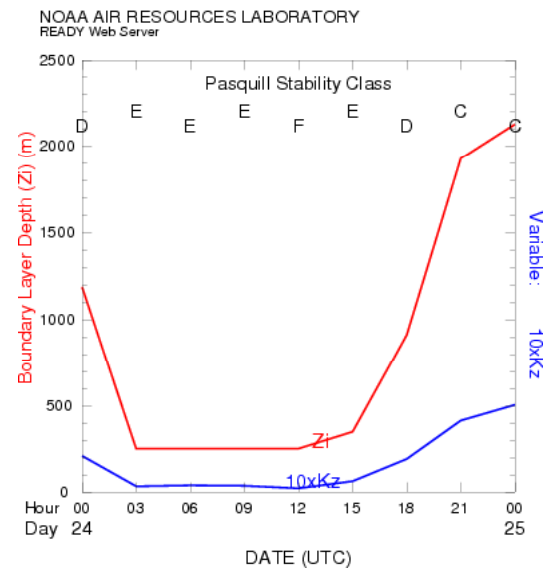


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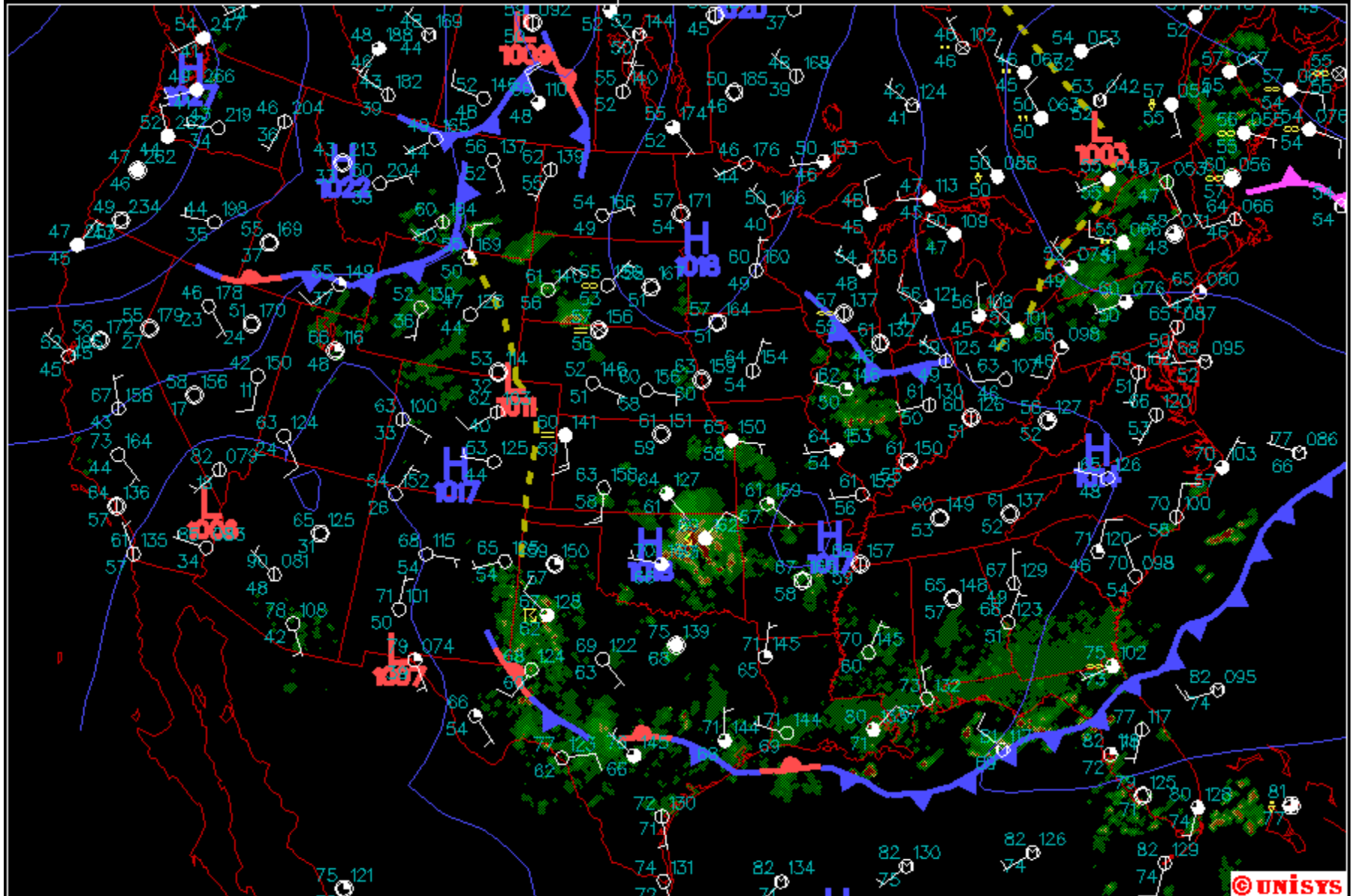


EDAS STABILITY PLOT

Latitude: 36.50 Longitude: -97.48
DATA INITIAL TIME: 24 Jun 2008 00Z



Surface data plot for 12Z 18 JUN 08

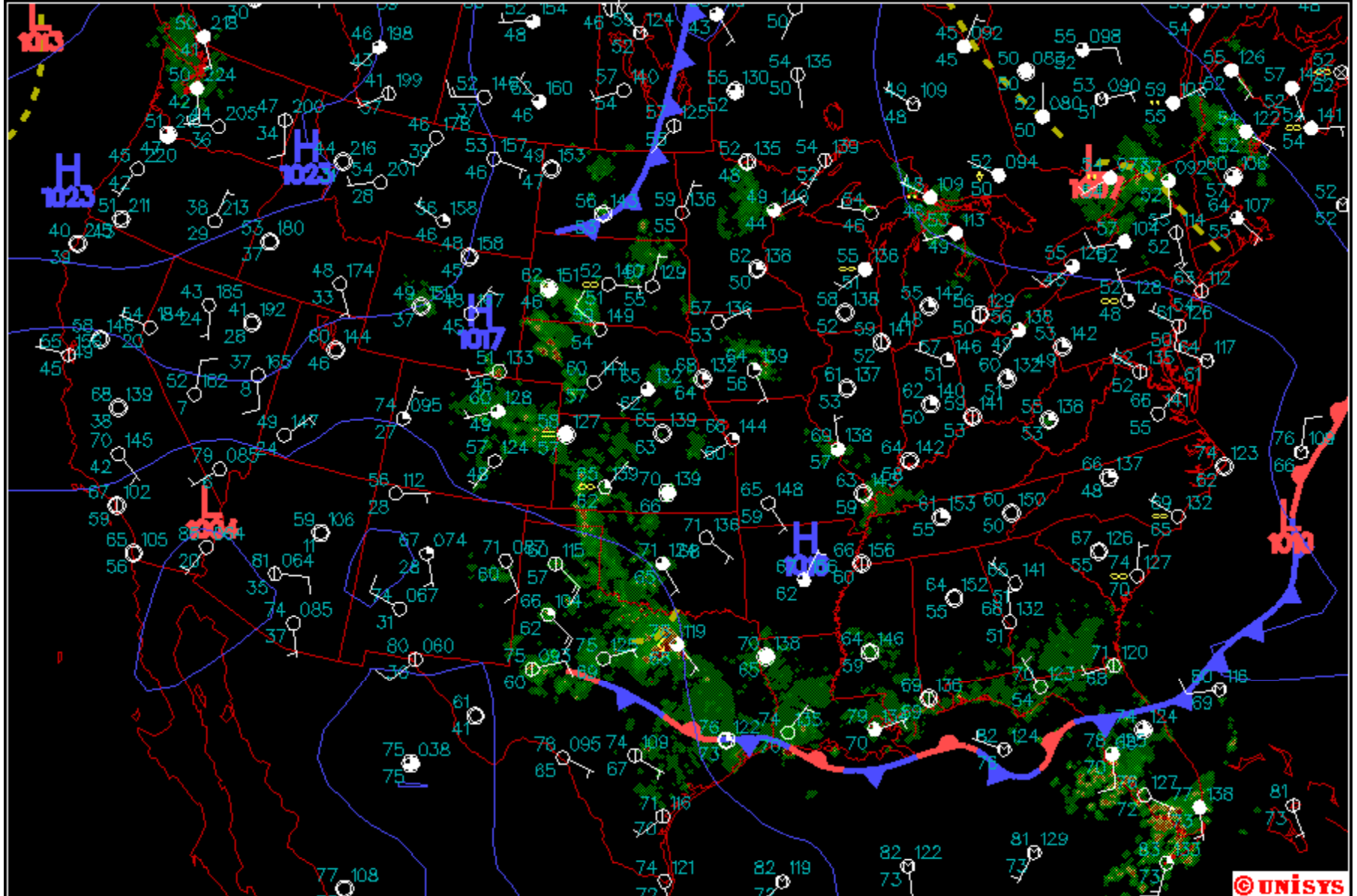


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Intensities (Dbz): 20 30 40 45 50 55

Fronts at 12Z

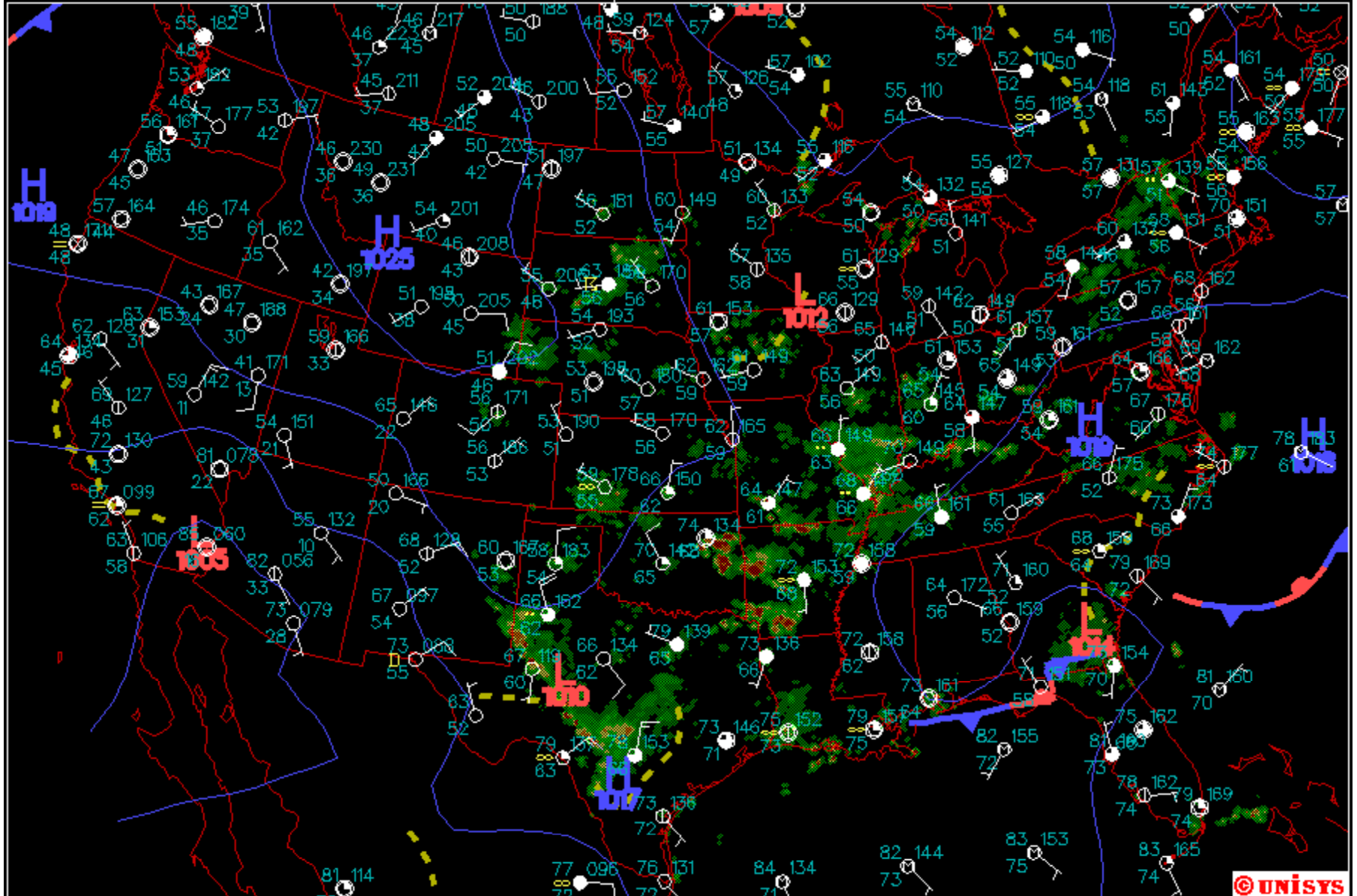
Surface data plot for 12Z 19 JUN 08



Intensities (Dbz): 20 30 40 45 50 55

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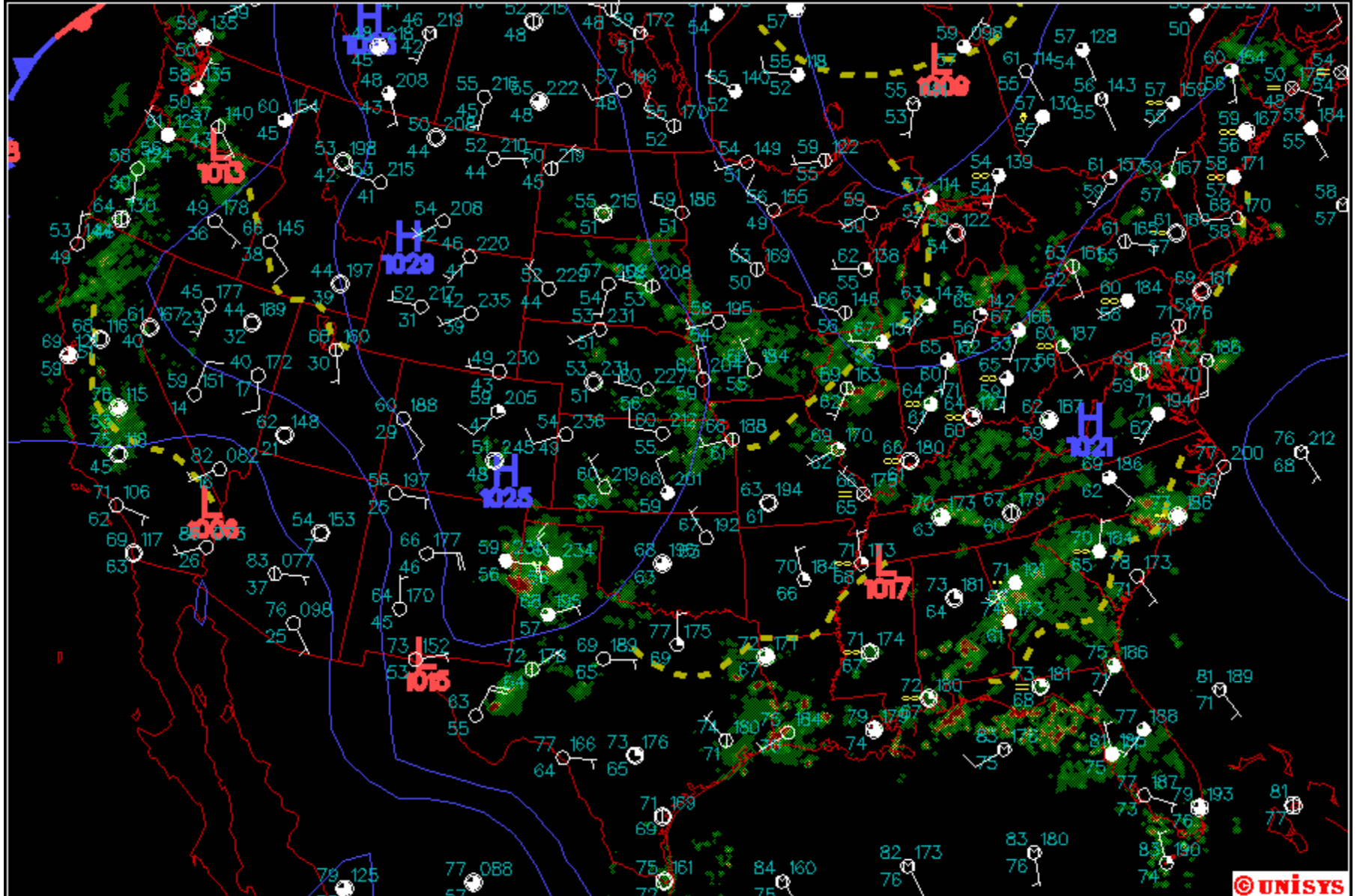
Surface data plot for 12Z 20 JUN 08



Intensities (Dbz): 20 30 40 45 50 55

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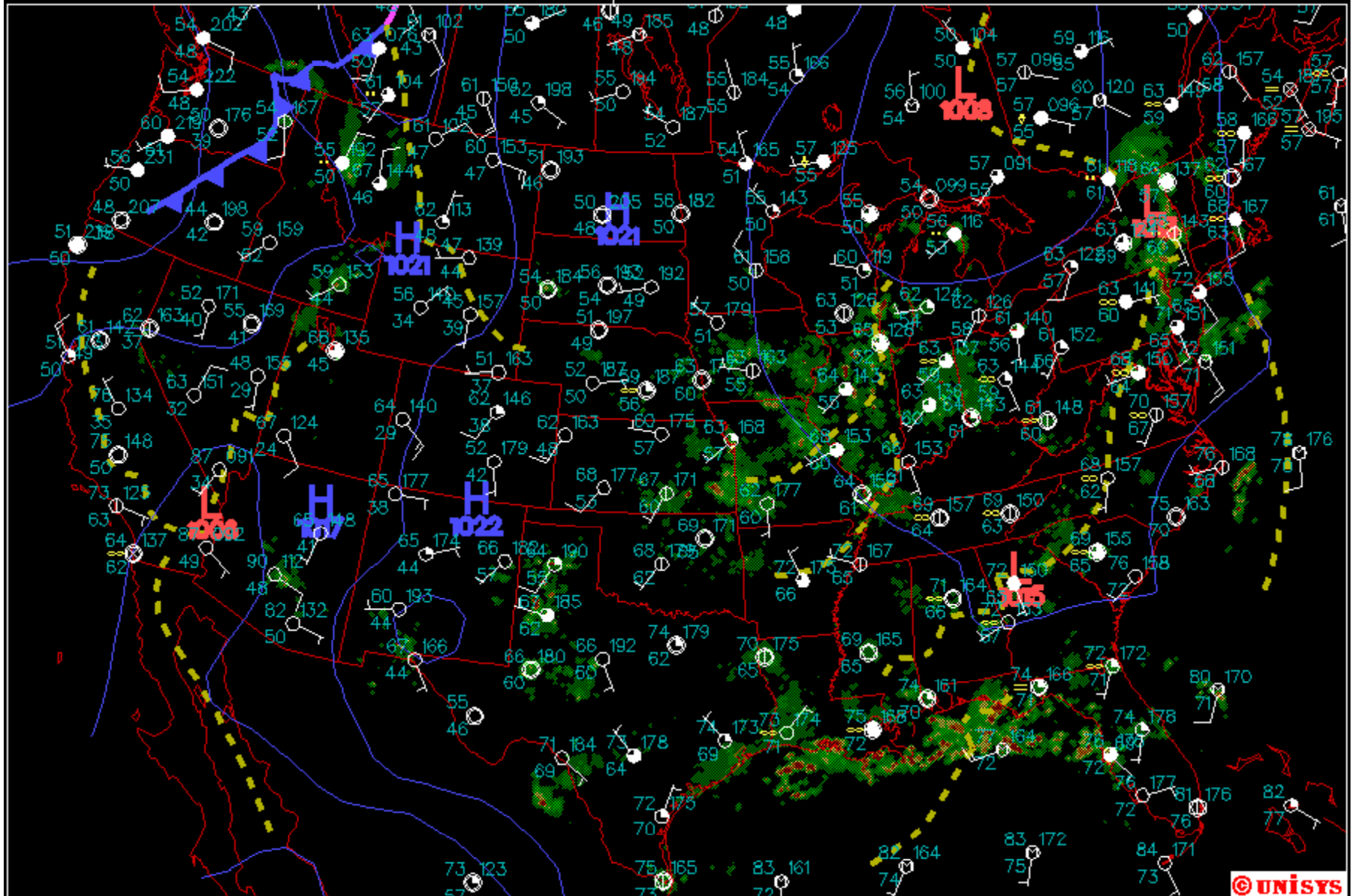
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Intensities (Dbz): 20 30 40 45 50 55

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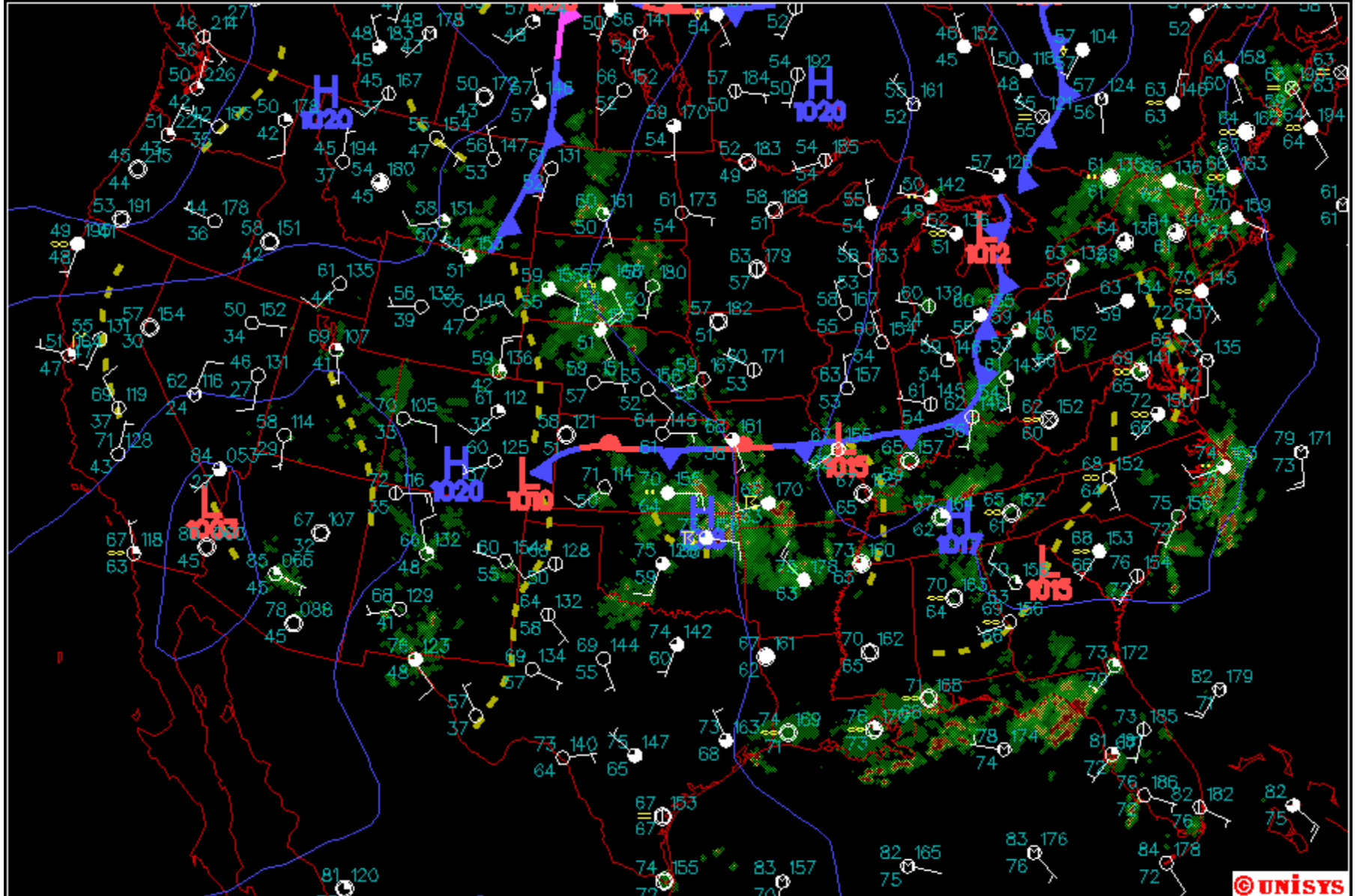
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Intensities (Dbz): 20 30 40 45 50 55

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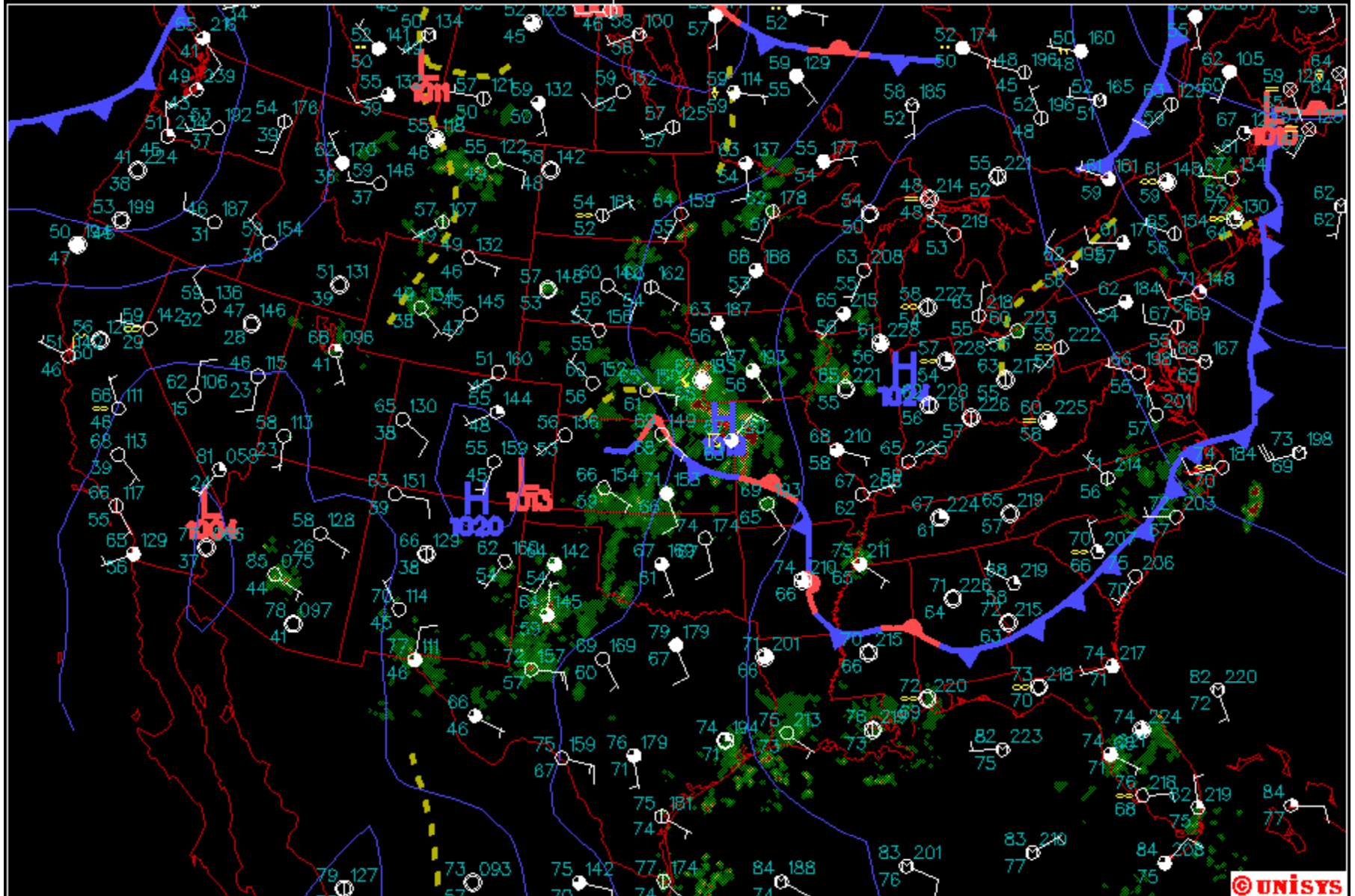
Surface data plot for 12Z 23 JUN 08



Intensities (Dbz): 20 30 40 45 50 55

Fronts at 12Z

Surface data plot for 12Z 24 JUN 08



Intensities (Dbz): 20 30 40 45 50 55

Fronts at 12Z