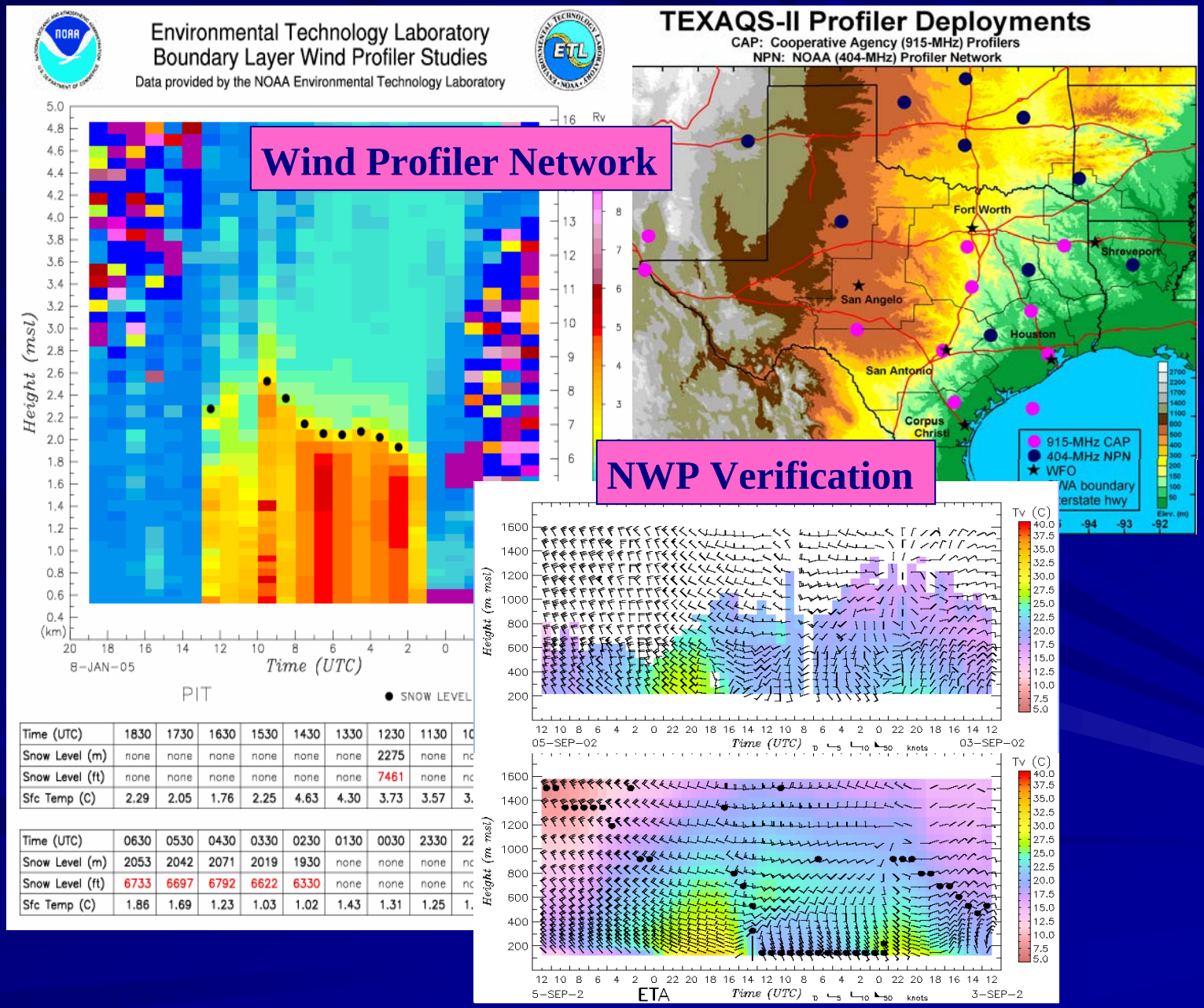
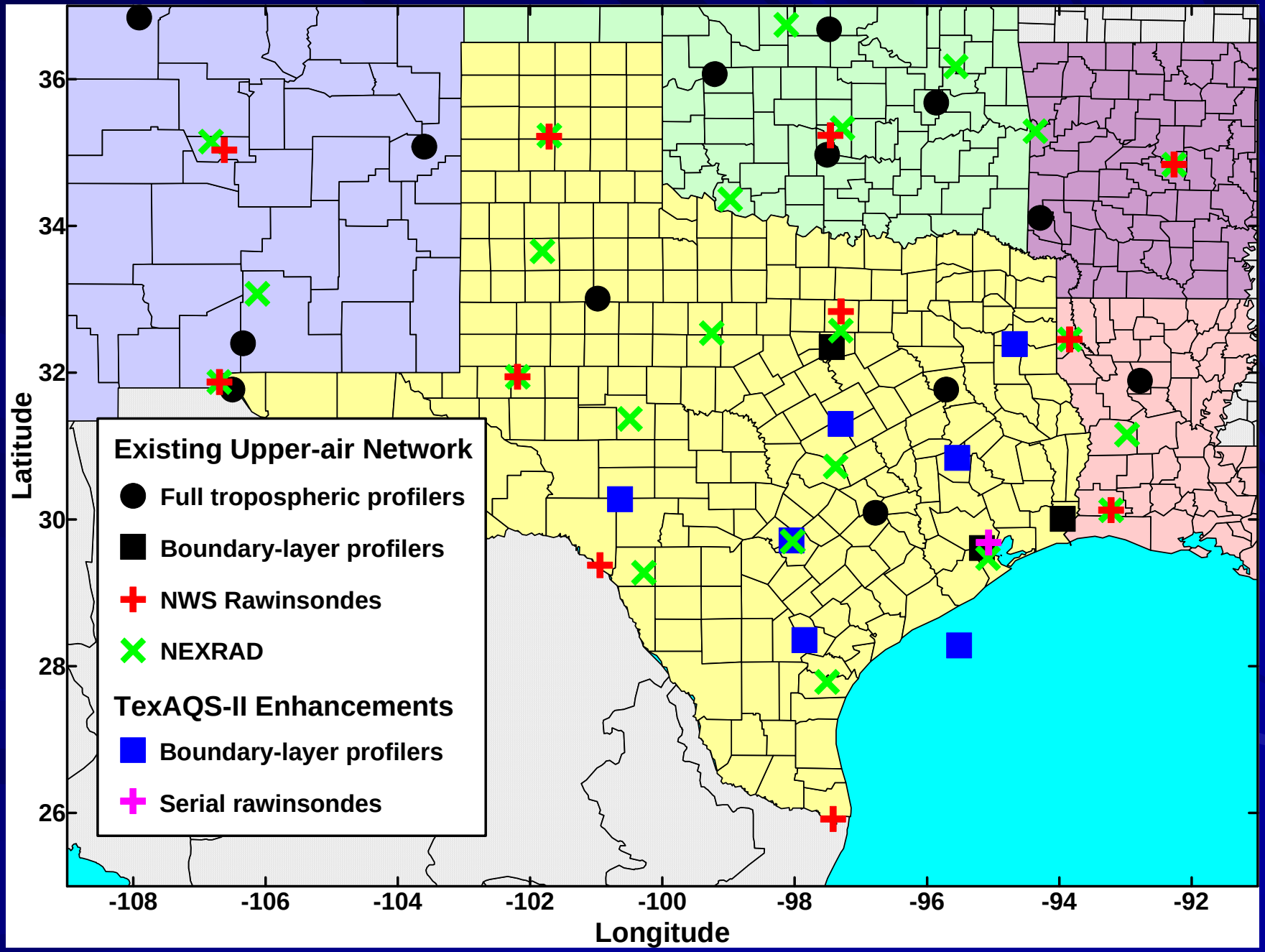
TEXAQS-II Wind Profiler Network Update



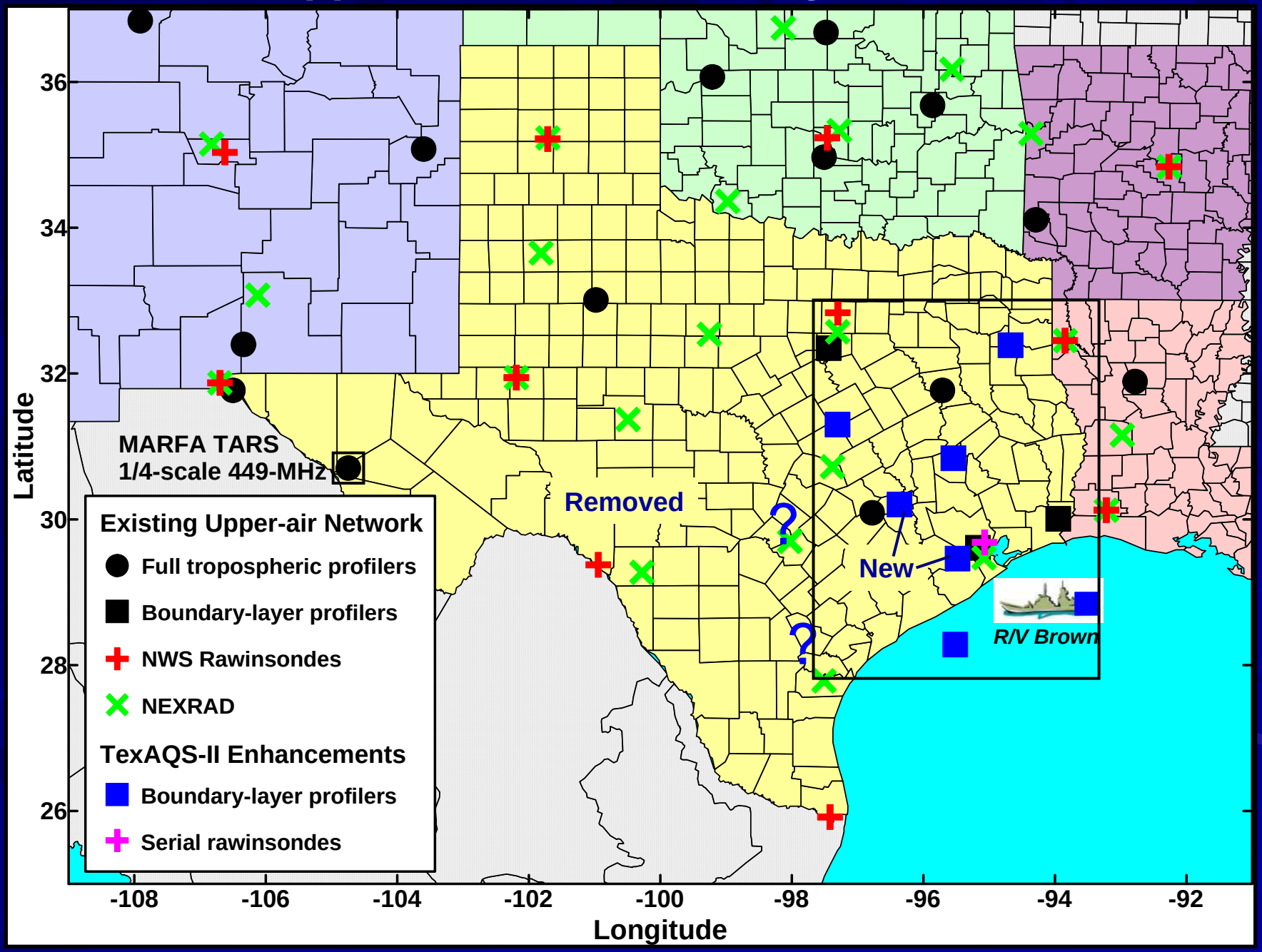
Time (UTC)	1830	1730	1630	1530	1430	1330	1230	1130	10
Snow Level (m)	none	none	none	none	none	none	2275	none	no
Snow Level (ft)	none	none	none	none	none	none	7461	none	no
Sfc Temp (C)	2.29	2.05	1.76	2.25	4.63	4.30	3.73	3.57	3.

Time (UTC)	0630	0530	0430	0330	0230	0130	0030	2330	22
Snow Level (m)	2053	2042	2071	2019	1930	none	none	none	no
Snow Level (ft)	6733	6697	6792	6622	6330	none	none	none	no
Sfc Temp (C)	1.86	1.69	1.23	1.03	1.02	1.43	1.31	1.25	1.

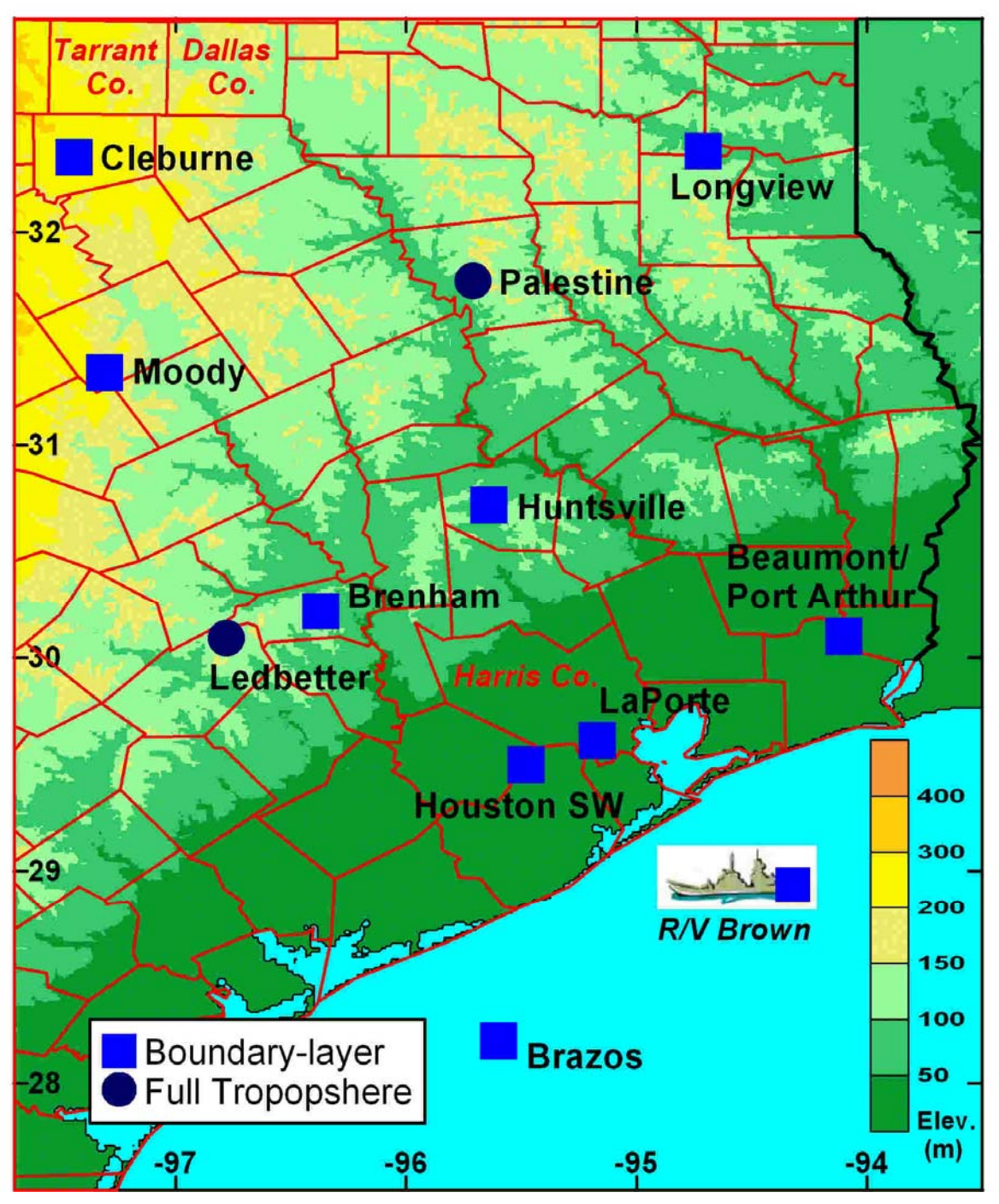
TEXAQS-II Upper Air Network as of Today



TEXAQS-II Upper Air Network during Summer Intensive



TEXAQS-II East Texas Wind Profiler Network



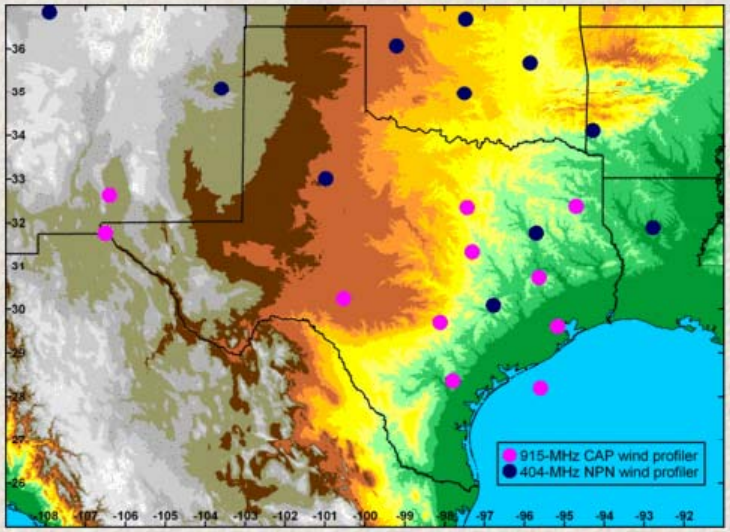
Wind Profiler Data Products
http://www.etl.noaa.gov/et7/data/sitemap/Texas/

ETL Profiler N

File Edit View

South Central US
clickable site map

Click on site location to display images.



Links

South Central US Trajectory Tool NEW

Data/Image Archive

West Coast US Clickable Map

ETL Data/Image Library

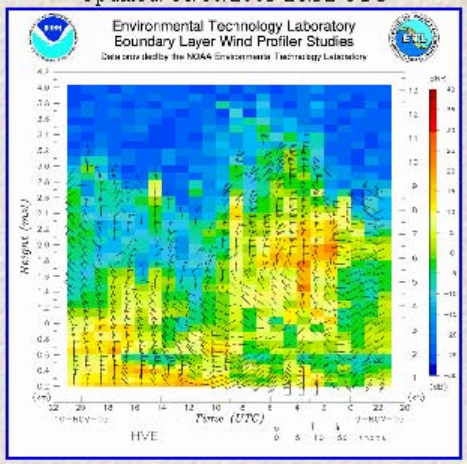
Data questions and/or requests

Huntsville
Images created by the NOAA Environmental Technology Laboratory

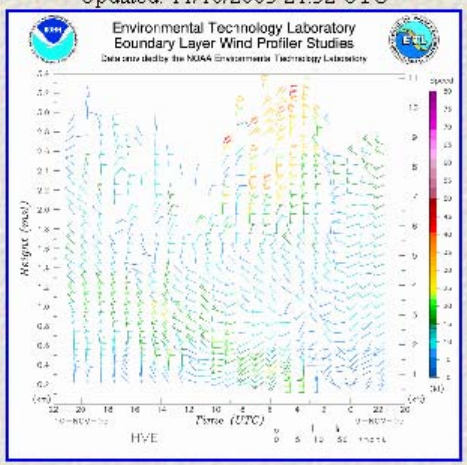
Signal to Noise Ratio | Wind Barb | Virtual Temperature | Virtual Potential Temperature | Surface Meteorology

Click on image to display full size.

Updated: 11/10/2005 21:32 UTC

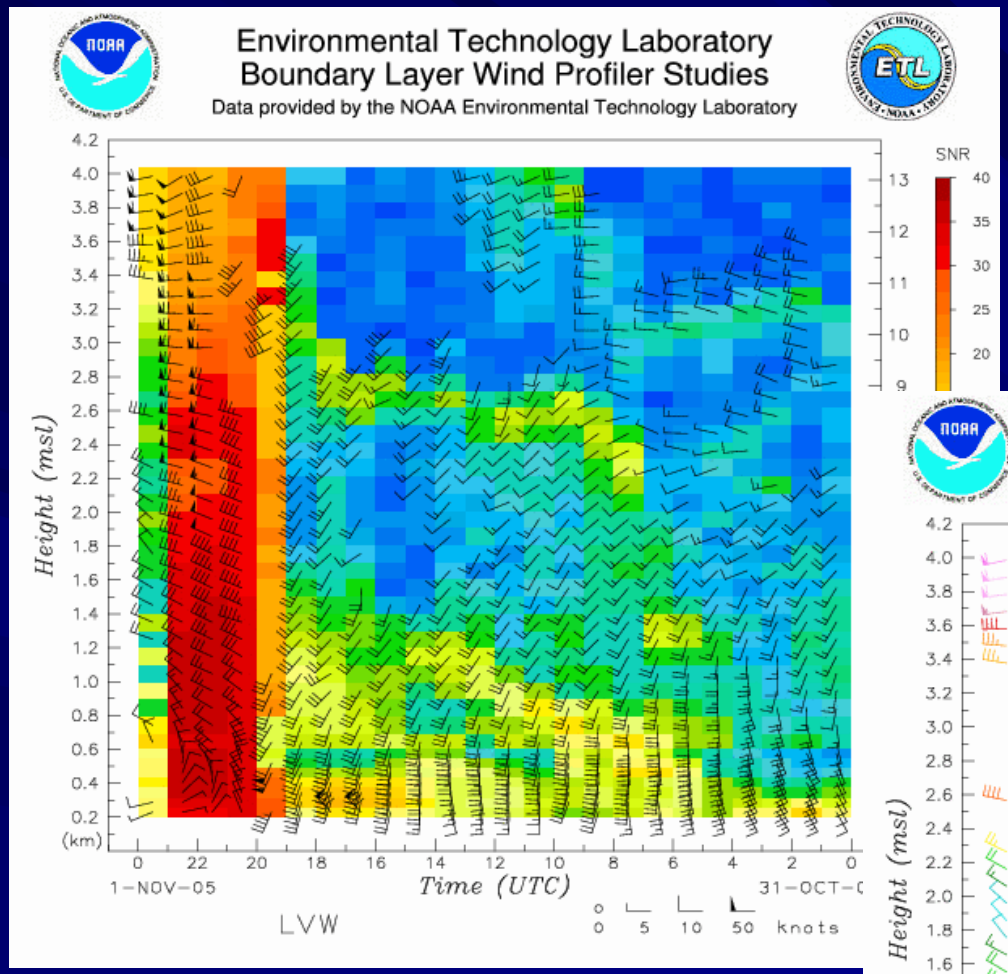


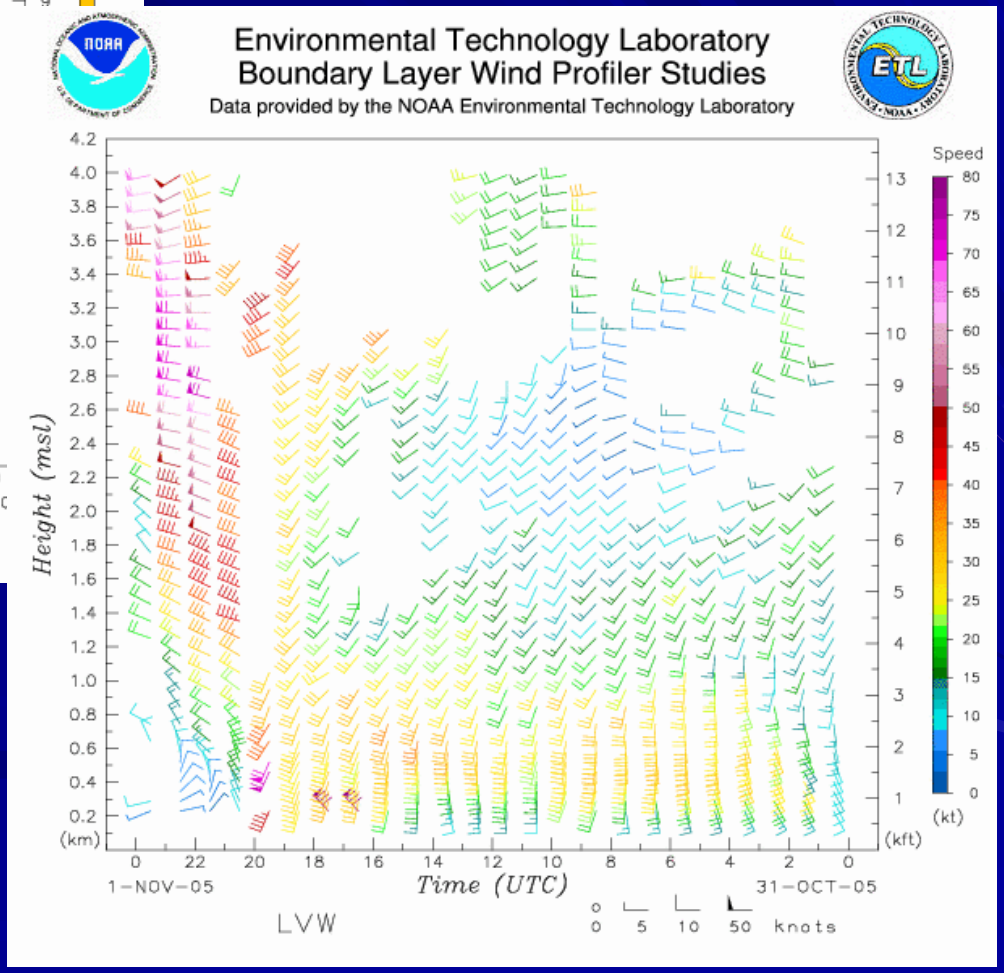
Updated: 11/10/2005 21:32 UTC



Radar Wind Products

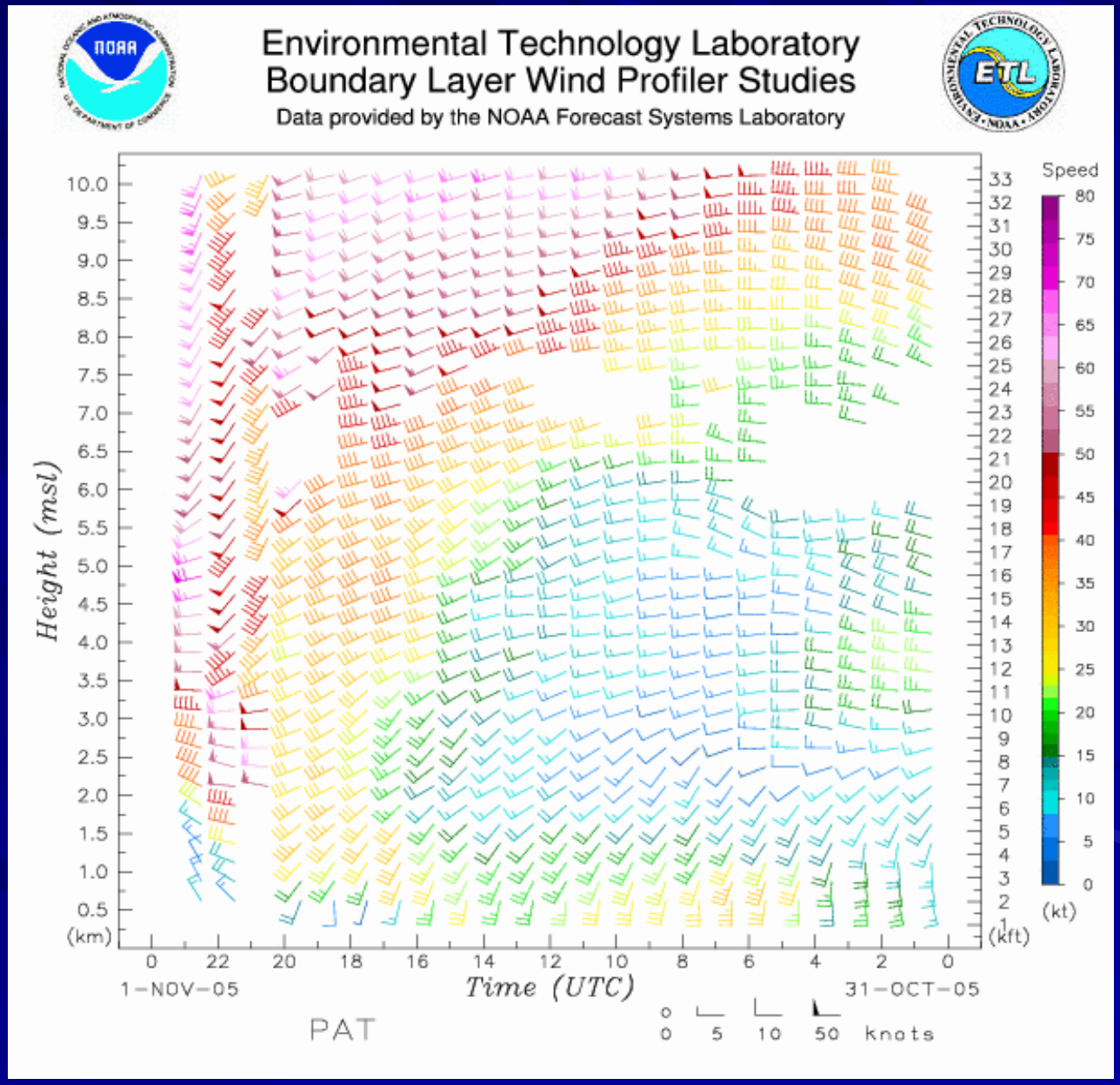
- Updated hourly
- Current profile on left
- 24-h time history





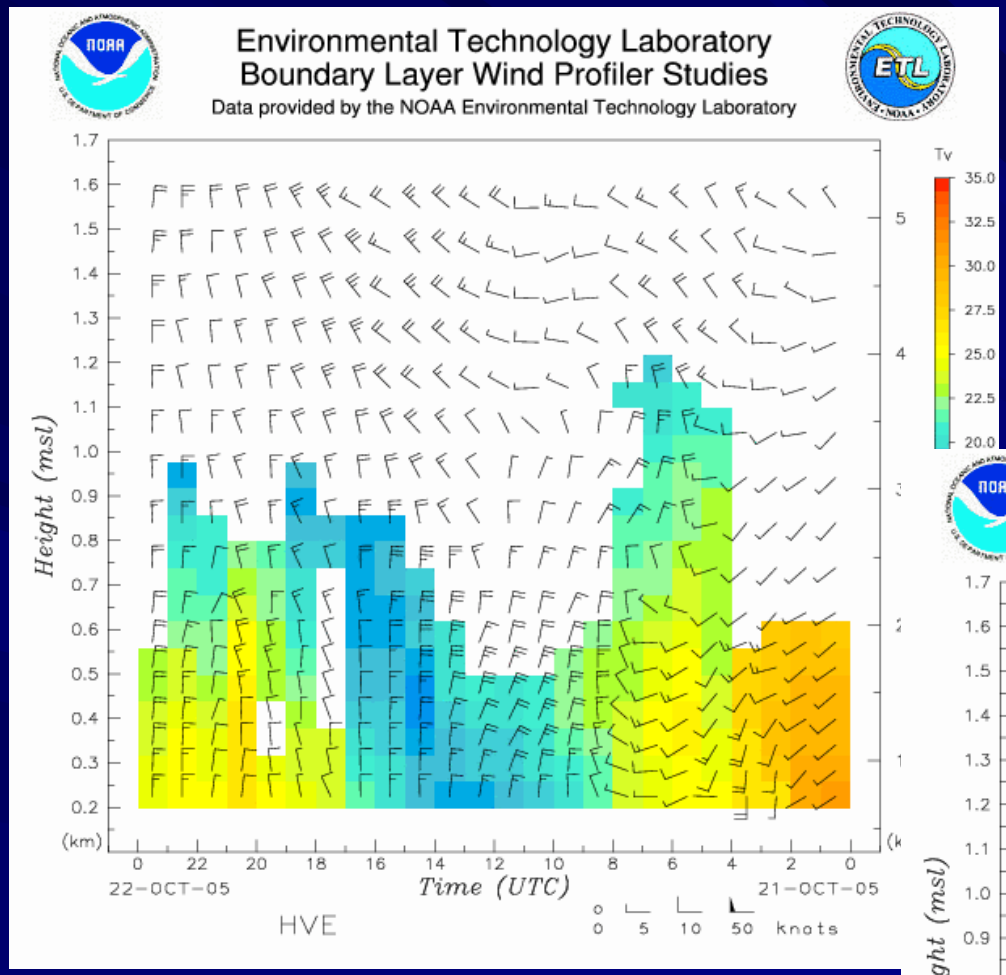
For boundary-layer profilers, two wind displays are available. . .

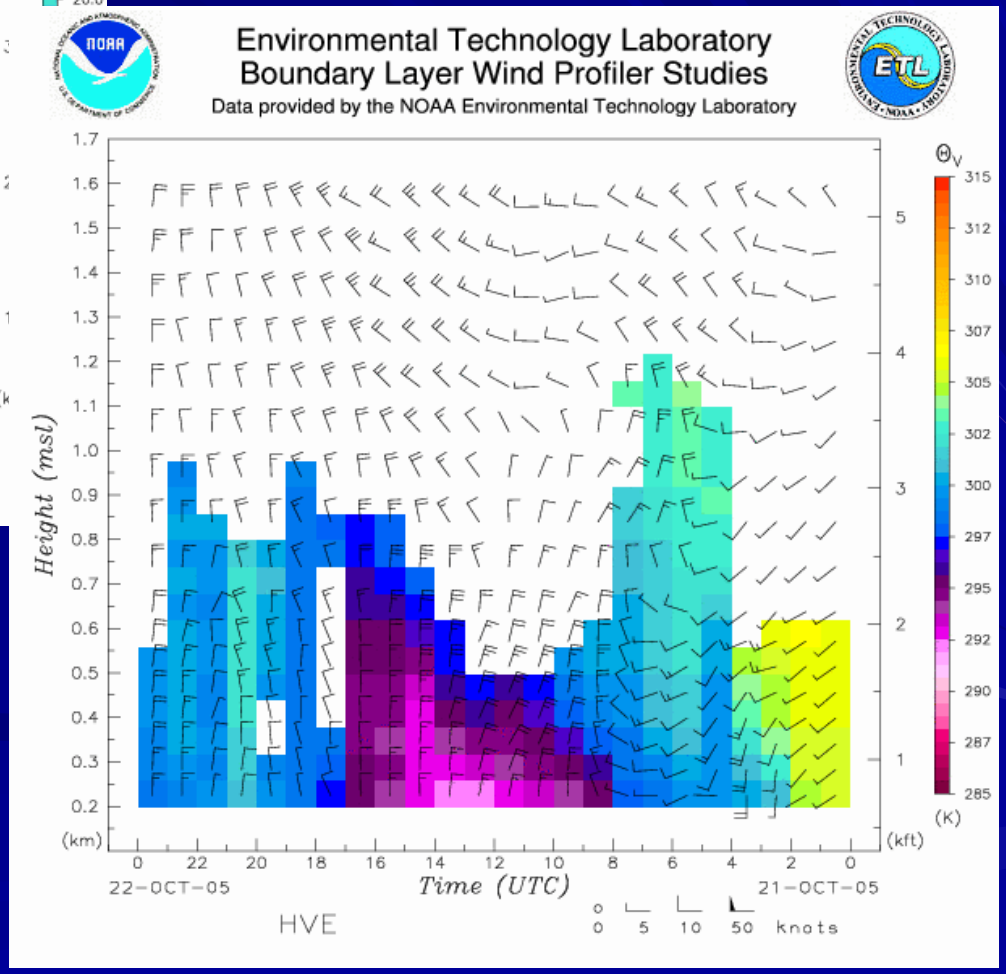
. . . for NPN profilers, only colored barbs are available.



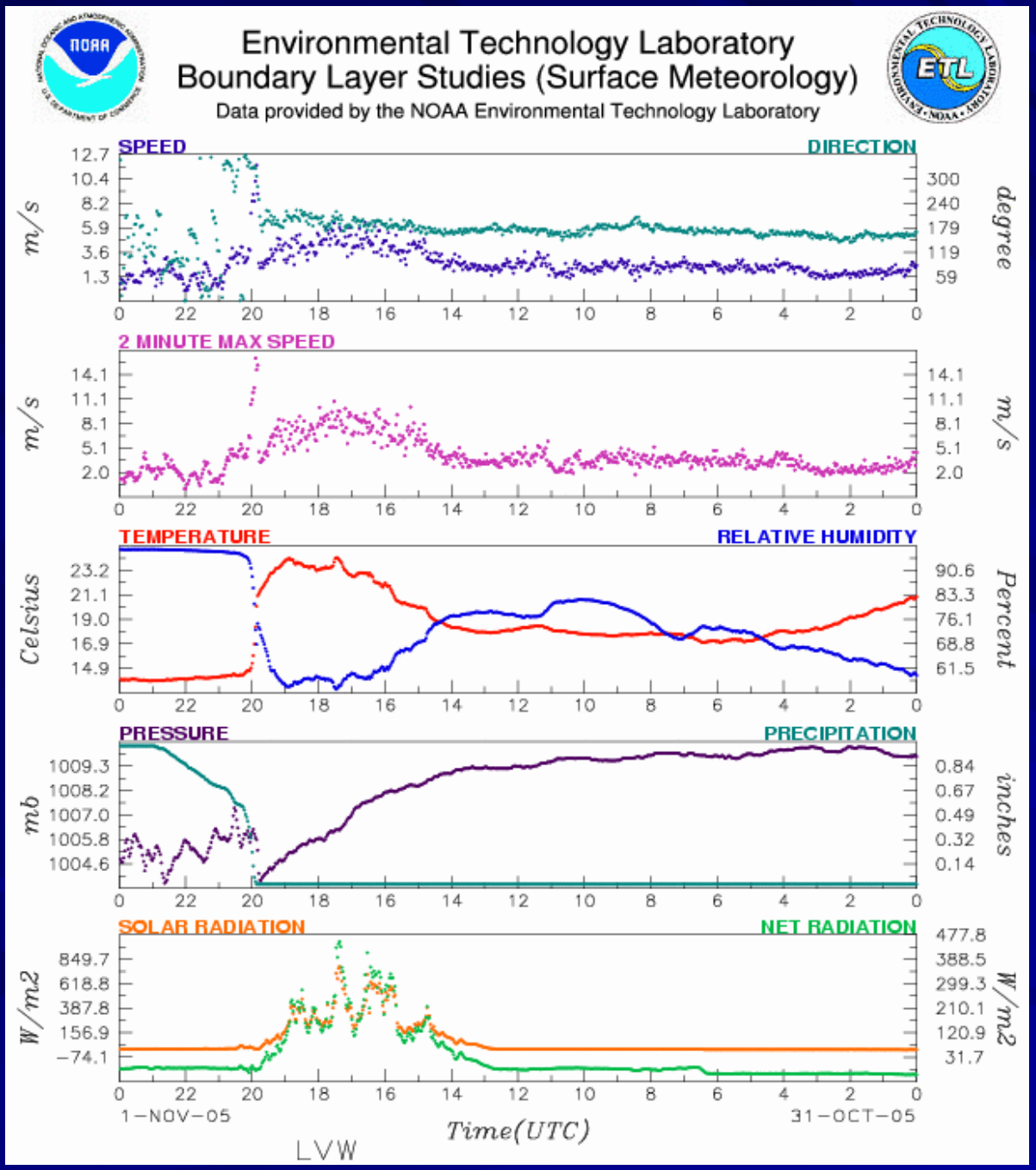
RASS Temperature Products

- 5-min profile every hour
- lower height coverage
- 60-m resolution
- T_v or Θ_v





Surface Meteorology

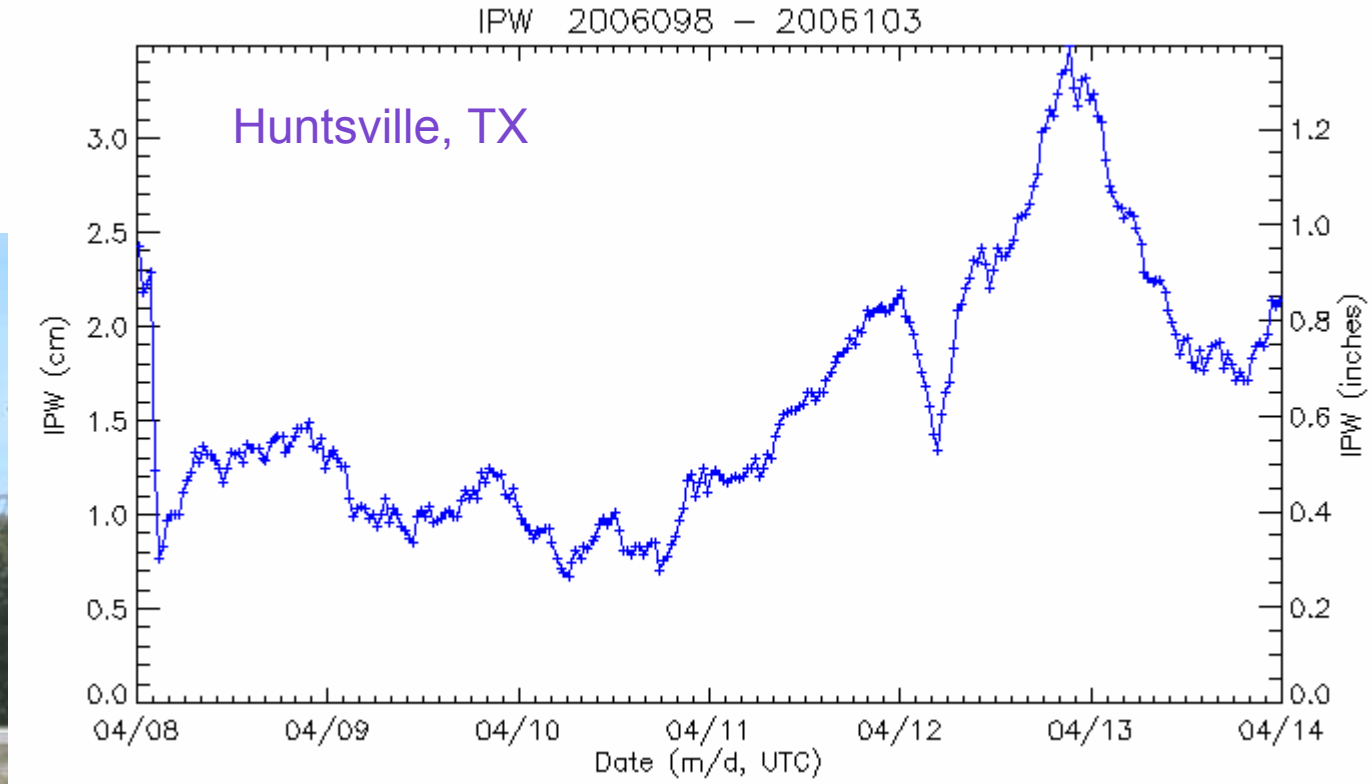


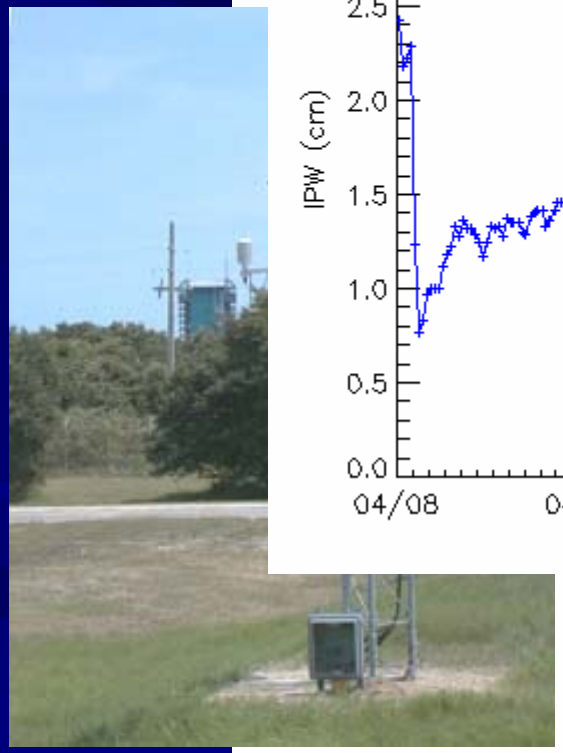
- Updated hourly
- 2-min averages
- Anemometer at 10 m
- P/T/RH sensors at 2 m
- Rain gauge
- Most current obs. at left

GLOBAL SYSTEMS DIVISION

NOAA/GSD Ground-Based GPS Meteorology (GPS-MET)
Real Time Water Vapor Interface

Western South Region - Click on a site to view its current data - Main Map





EXPLANATION

- NOAA Site
- USCG/USACE Site
- DOT Site
- SuomiNet Site
- Other Agency or Institution Site

△ Backbone Site
○ Infill Site

} Filled = Operating, Open = Planned

NOAA/ESRL Wind Profiler Trajectory Tool

TEXAQS 2006

User's Guide

Start trajectory from:

CLE

or specify:

lat: 32.35 lon: -97.44

Start Date (UTC)

10 Nov 2005

2005

Start Time (UTC) 0:00

Time Steps: 36 hours

Direction: Backward

Select Profilers

- ☑ APC
- ☑ AZC
- ☑ BRZ
- ☑ BVL
- ☑ CLE
- ☑ DQU
- ☑ EPS
- ☑ HKL
- ☑ HVE
- ☑ JTN
- ☑ LDB
- ☑ LMN
- ☑ LPT
- ☑ LVW
- ☑ MDY
- ☑ NBF
- ☑ PAT
- ☑ PRC
- ☑ SNR
- ☑ TCU
- ☑ VCI
- ☑ WNF

Specify Altitudes

Color	Min Alt (km)	Max Alt (km)
red	100	200
black	200	500
green	500	1000
blue	1000	1500

Plot Lat/Lon Range

N Lat 37.0

W Lon -108.0 E Lon -92.0

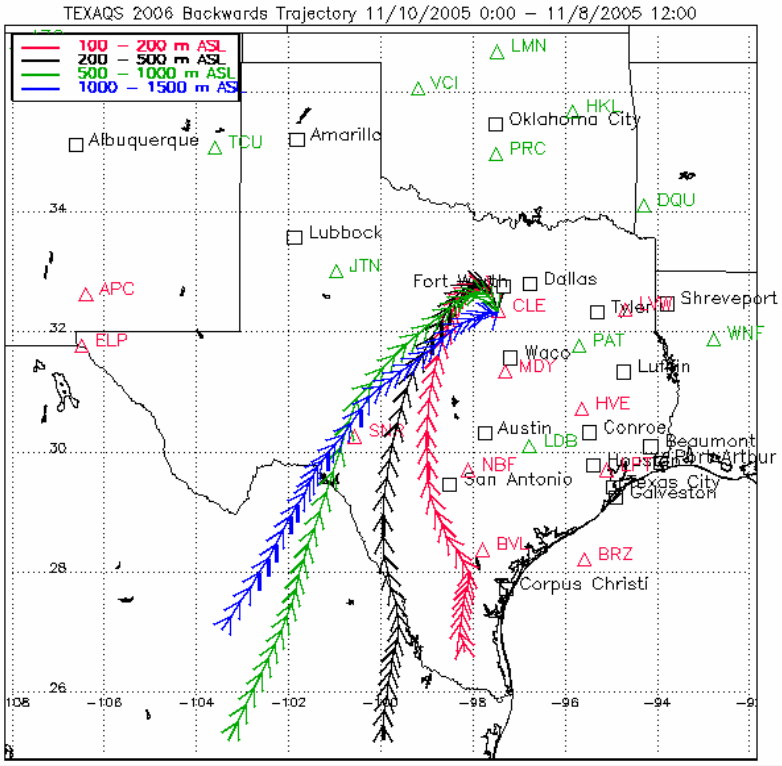
S Lat 25.0

Submit

Contact

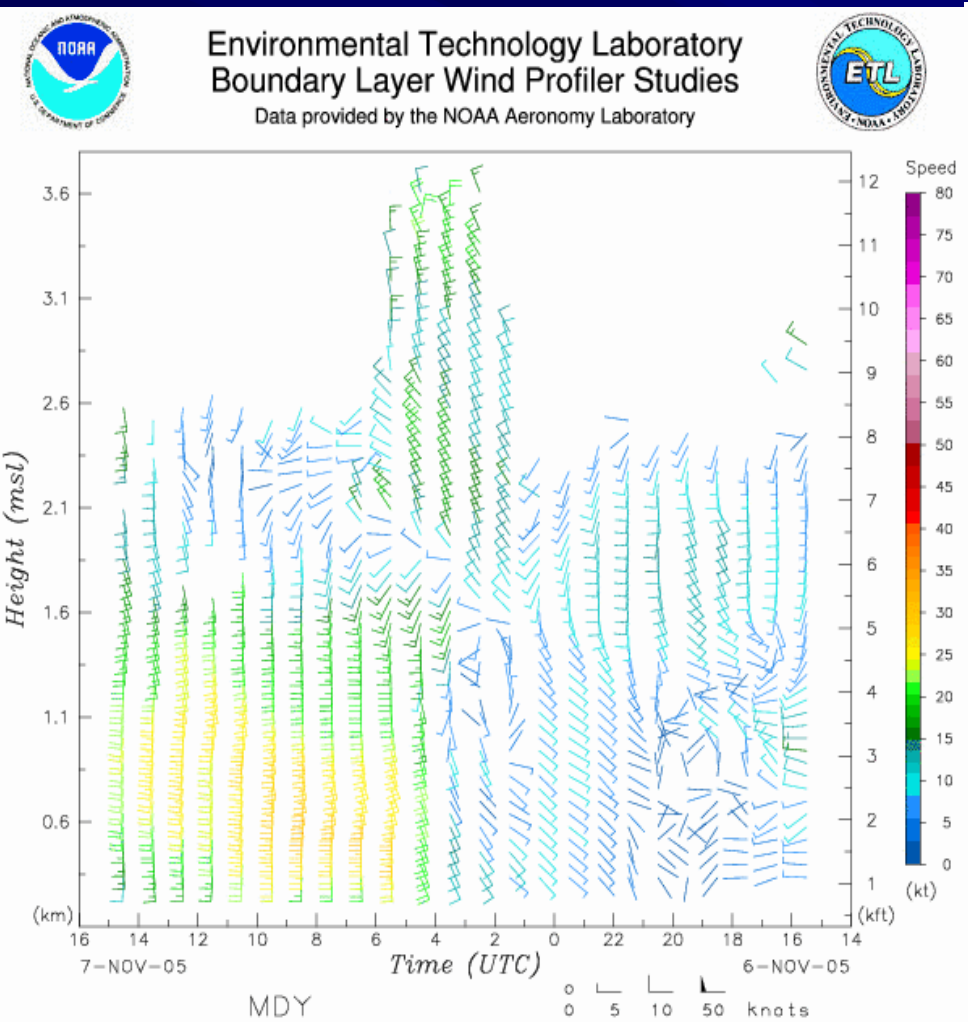
Allen White

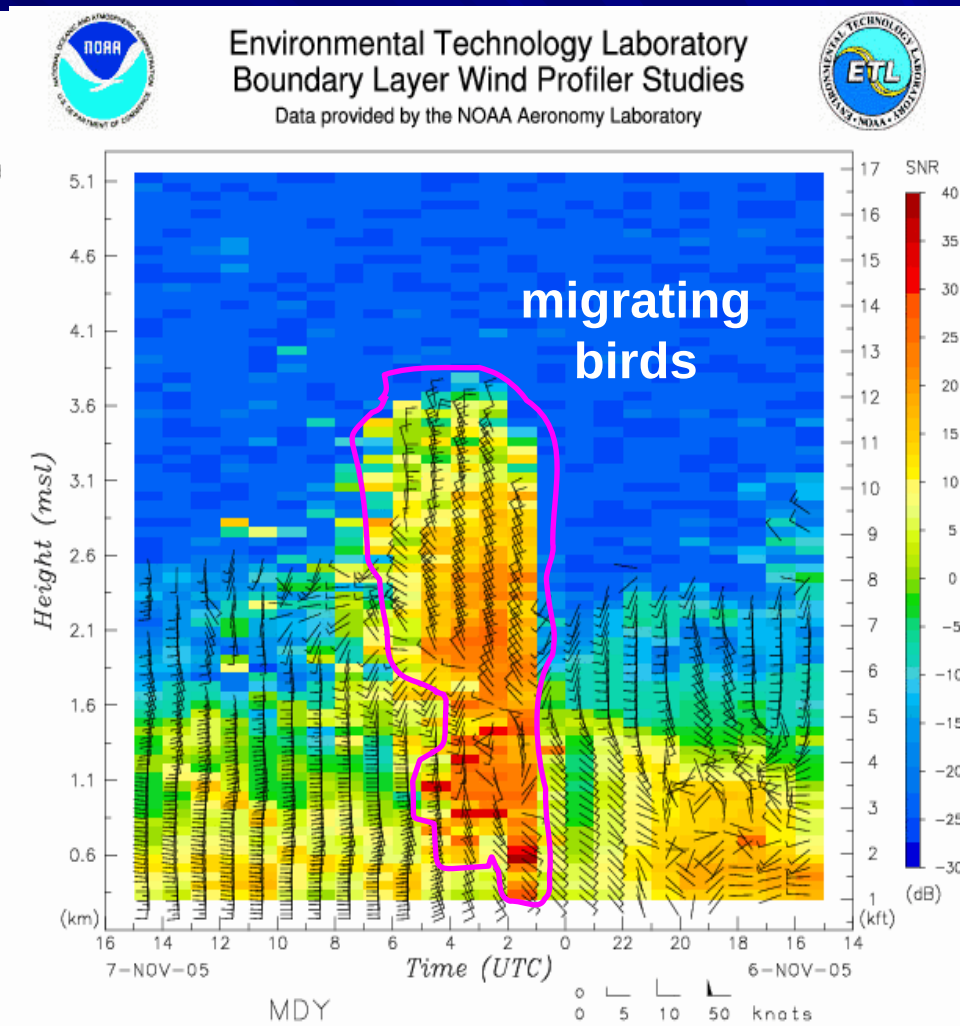
Trajectory Map Plot | Printable Map Plot | Profiler Statistics | ASCII Trajectory Data | Evaluation



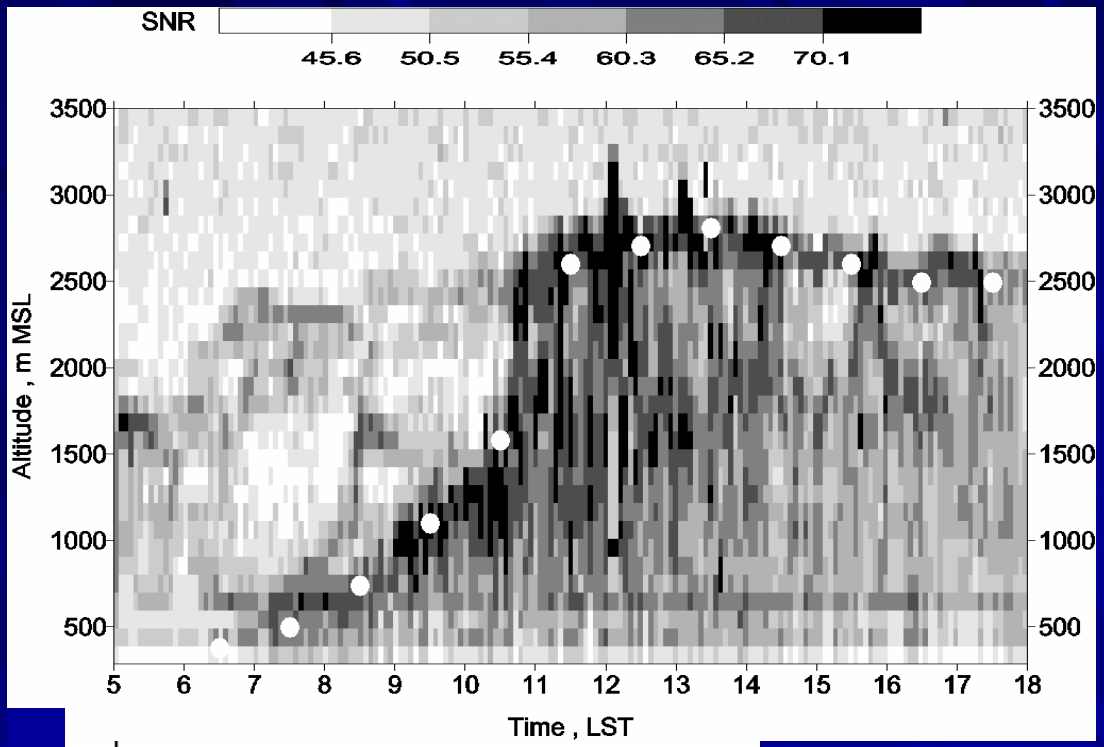
http://www.etl.noaa.gov/programs/2006/texaqs/traj

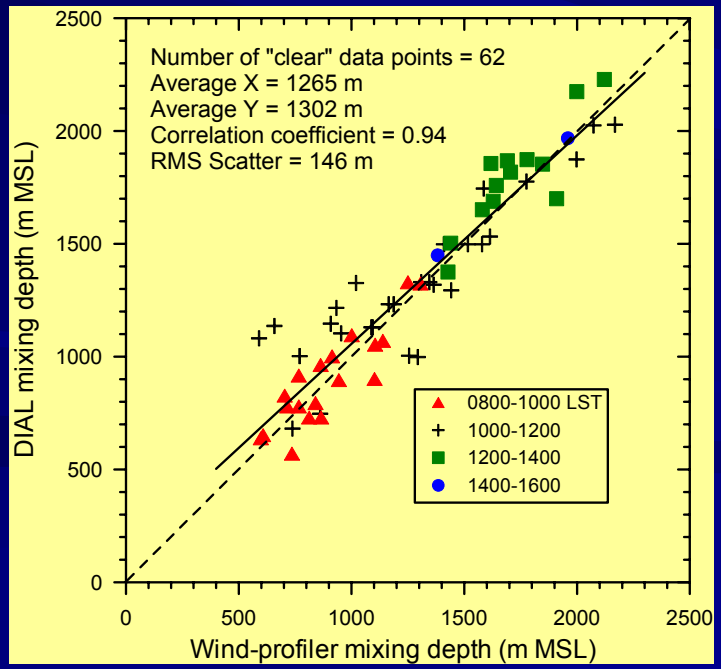
DISCLAIMER: These data have not been edited and should be considered preliminary. These data cannot be published without permission from the Environmental Technology Lab.

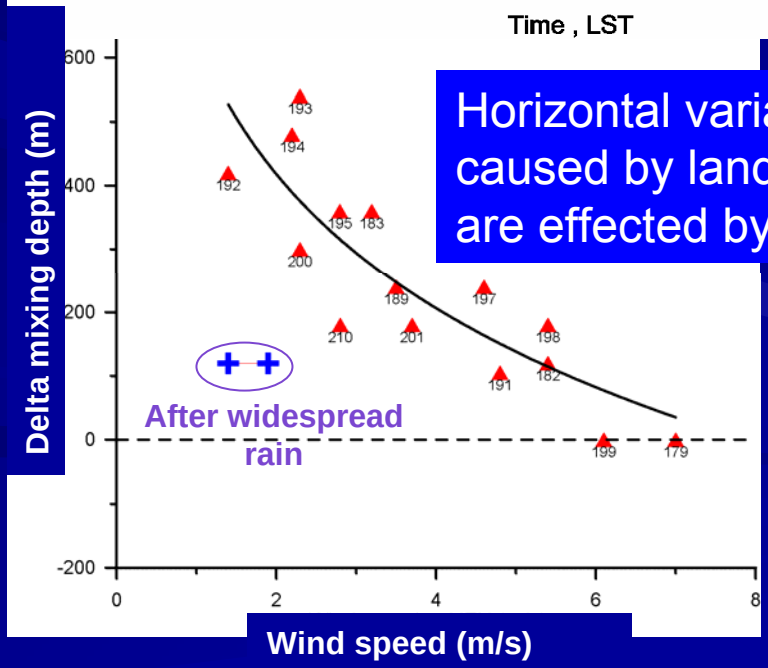




Radar reflectivity measured by wind profilers provides diurnal evolution of convective boundary-layer mixing depth. Also day-to-day, and seasonal variability. Mixing depth estimates based on profiler turbulence and aerosol lidar backscatter are well correlated.







Horizontal variations in mixing caused by land-use differences are effected by wind speed.

ETL Wind Profiler Web-based Feedback Form

South Central Profiler Network

Forecasters please answer these questions regarding profiler data.

Send

Did you find this product useful?

○ yes ○ no

Indicate the type(s) of application(s) for w you consulted this product:

- ☐ Frontal Passage
- ☐ Air Quality
- ☐ Wind Advisory
- ☐ Aviation weather
- ☐ Nocturnal Low Level Jet
- ☐ Other

If these data played a role in the issuance/cancellation of a(n) advisory/watch/warning, please select the appropriate type(s):

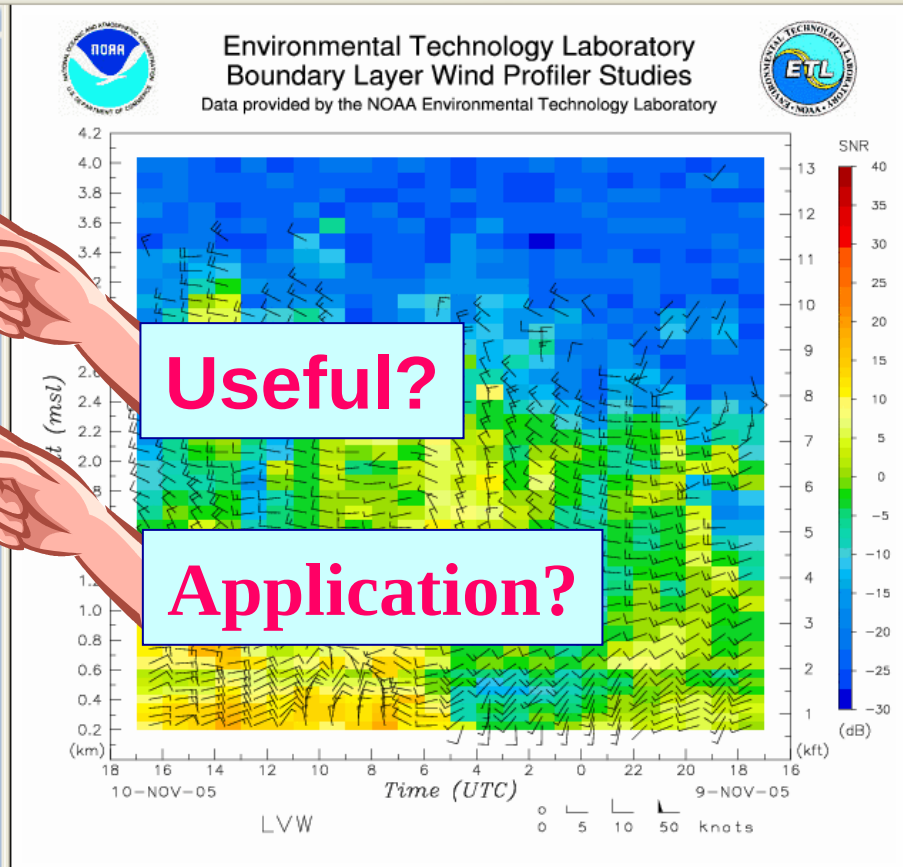
Use <ctrl>click to select multiple

Advisory: Wind, Dense Fog, Urban and Small Stream Flooding

Watch: Severe Thunderstorm, Flood/Flash Flood, Tornado

Warning: Severe Thunderstorm, Flood/Flash Flood, Tornado

Comments?



Useful?

Application?

Did it help issue or cancel an advisory, watch, or warning?

Find: six | Find Next | Find Previous | Highlight | Match case

Done

start | Inbox for Allen.B... | Re: [Ref #3374... | 2 Oracle Calen... | 2 Firefox | 2 Microsoft Of... | Document1 - Mi... | 10:34 AM

http://www.etl.noaa.gov/programs/eval/

Environmental Technology Laboratory

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Public
- 2005
- 2004

Traj Tool
- NEAQS 2004
- TEXAQS 2006

NPS
- 2005
- 2003

IS Net
- 2004

East C

http://www.etl.noaa.gov/programs/eval

April 26, 2005

Office	Time (UTC)	Product	Site	Useful?	Applications	Advisories, Watches, Warnings	Comments
198.206.50.25 (PIT) Pittsburg, PA	22:08	thetav	pit	yes	Other nws wfo pbz received reports of gusty winds. kpit had g43kts 2106z. kpbz wsr88d vwp not available.	**Advisory** **Watch** **Warning**	considered issuing wind advisory based on kpit metar and public reports. however, pit wind profiler showed winds no higher than 25kts thru 6 kft agl. so issued special weather statement, as winds, likely due to downward mixing from nearby pcpn, should subside after rain begins.
198.206.50.25 (PIT) Pittsburg, PA	22:14	cbarb	ccd	yes	Other follow up from previous note about gusty winds in pittsburgh area. consulted this product to observe what winds were up to 8-10kft agl. shows no winds ovr 25-30kts up thru ~10kft agl. will use 0-5 kft agl data again to help with upper air launch, in aligning radiotheodolite to track radiosonde.	**Advisory** **Watch** **Warning**	
198.206.50.25 (PIT) Pittsburg, PA	22:26	thetav	pit	yes	Other checking winds for upper air launch and for continued reports of gusts over 30 kts from nearby airports.	**Advisory** **Watch** **Warning**	profiler data was helpful due to its high resolution. also kpbz 88d vwp unavailable. Lou G.
198.206.50.25 (PIT) Pittsburg, PA	22:31	met	pit		High Winds checked 2 min max speed to compare to kpit asos data.	**Advisory** **Watch** **Warning**	

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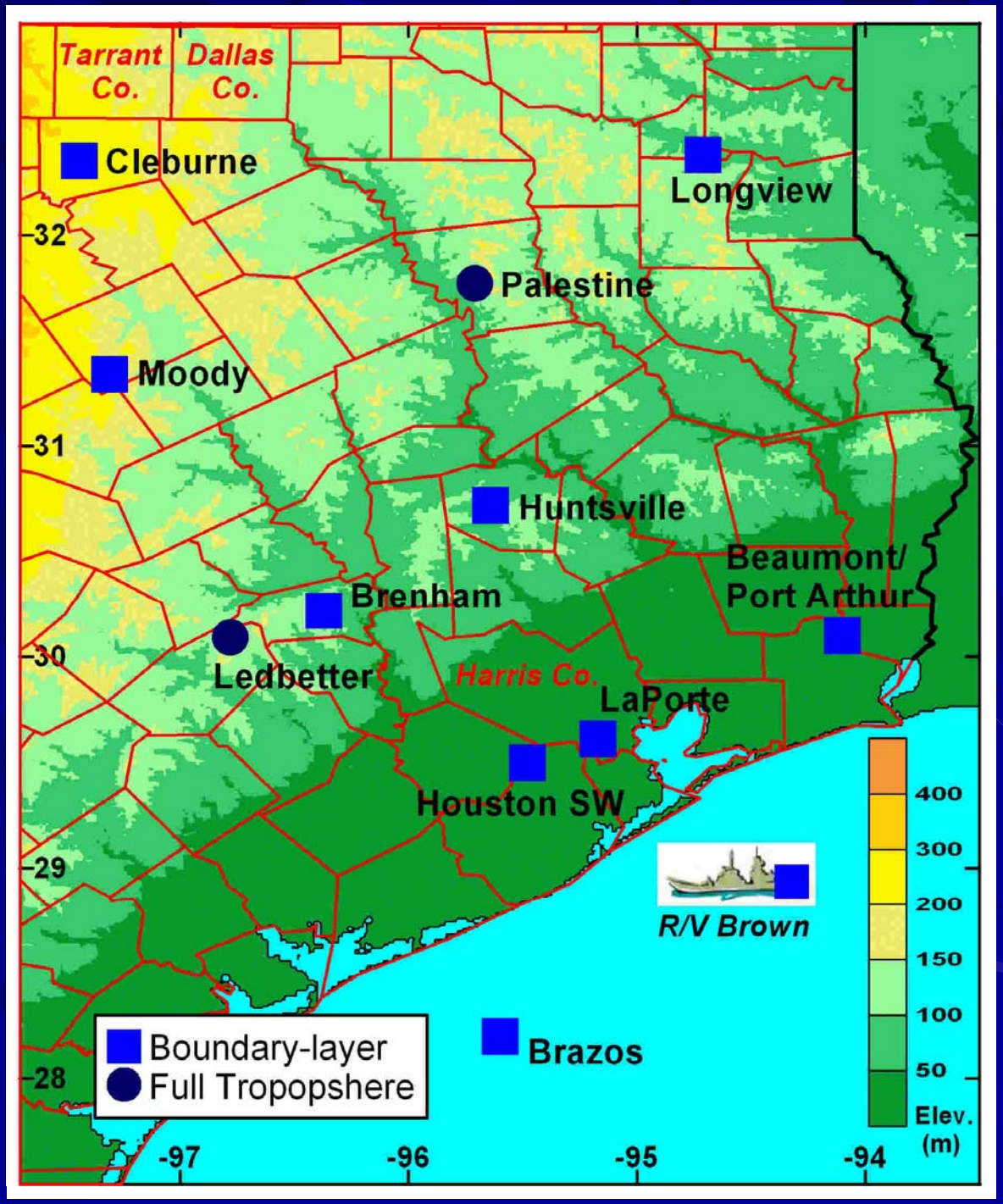
Done

start | 7 Mozil... | 7 Firefox | 8 Win... | Calculator | Microsof... | Budget-... | 2 Orac... | 3 Micr... | Microsof... | 11:24 AM

Thanks to NOAA, TCEQ, and coop-erating agencies for supporting profiler obs. during TEXAQS-II

Questions?