

The Regional East Atmospheric Lidar Mesonet (REALM)

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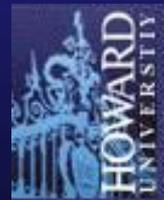
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CCNY



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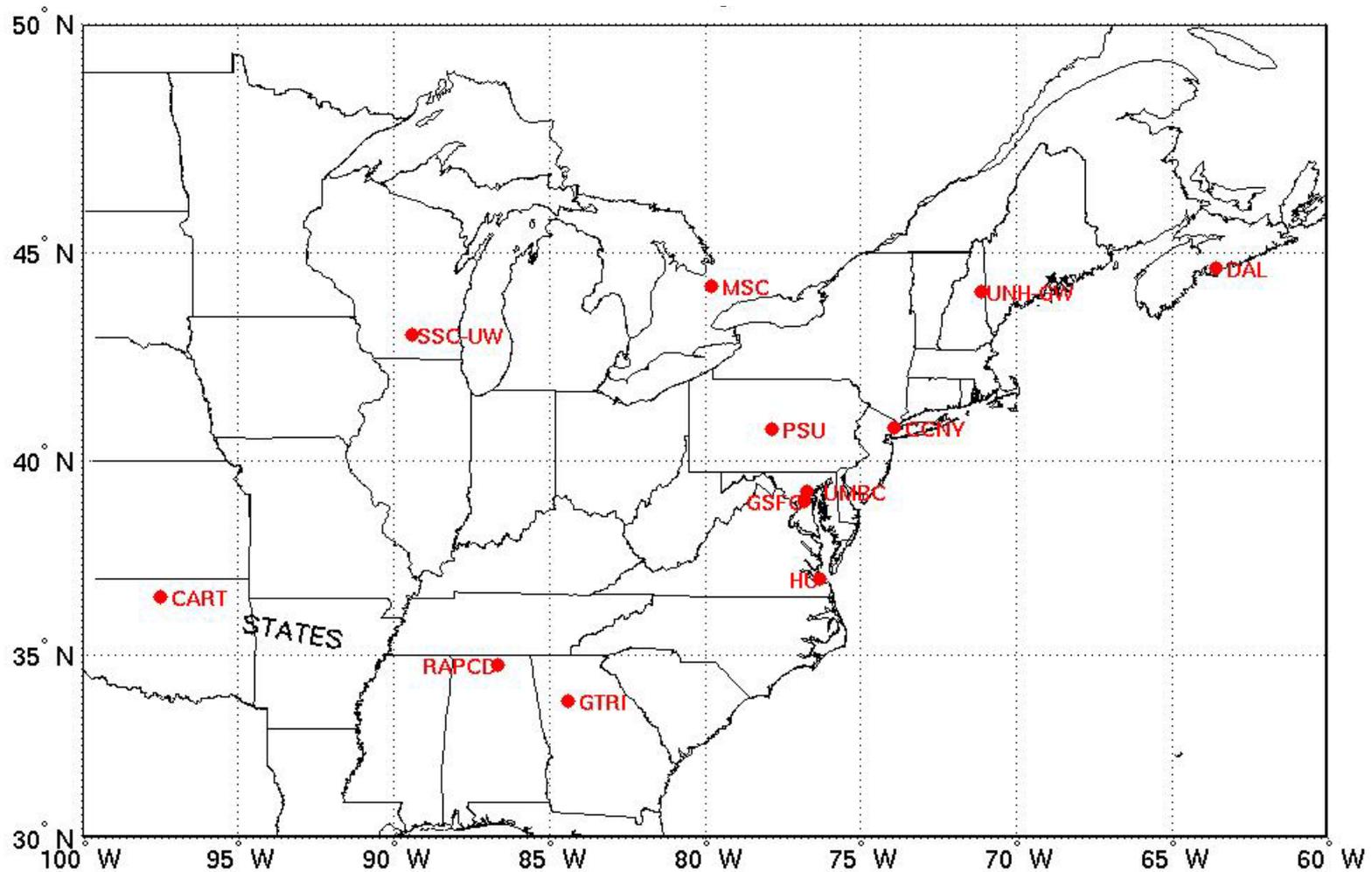


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<http://alg.umbc.edu/REALM/>

- REALM is lidar mesonet designed to monitor air quality in the vertical from multiple locations
- REALM can provide better information about regional air pollution events and transport than individual lidar systems
- Lidar data combined with satellite sensor and ground-based data can provide detailed understanding of air quality in all dimensions

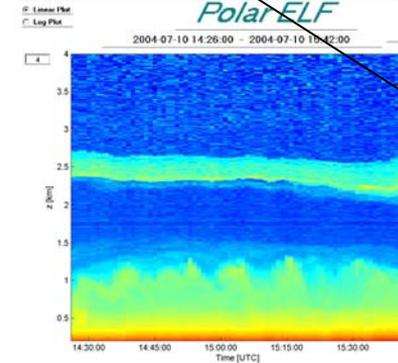
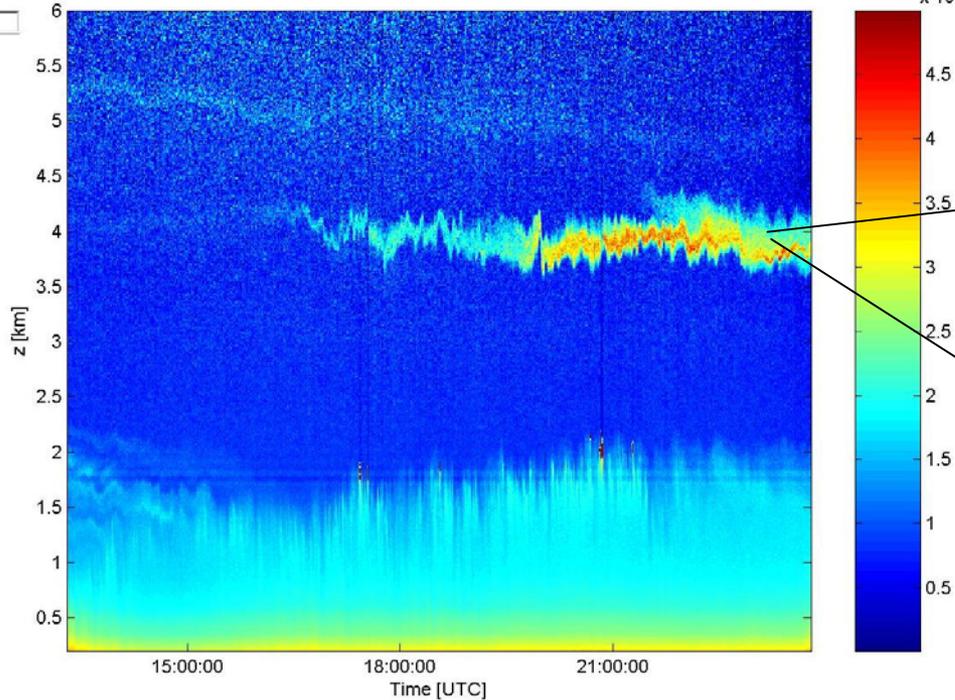
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Locations of the REALM Lidar Mesonet are shown in red

Smoke over MD from Alaska & British Columbia Canada

2004-07-09 13:18:00 - 2004-07-09 23:48:00



10 July 2004, am

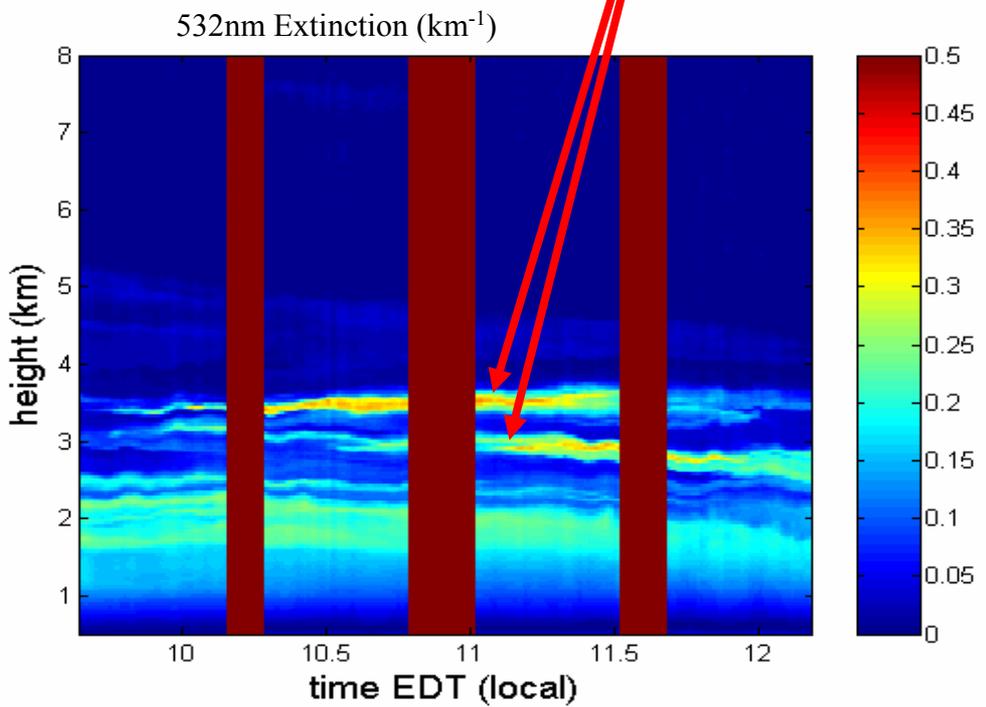
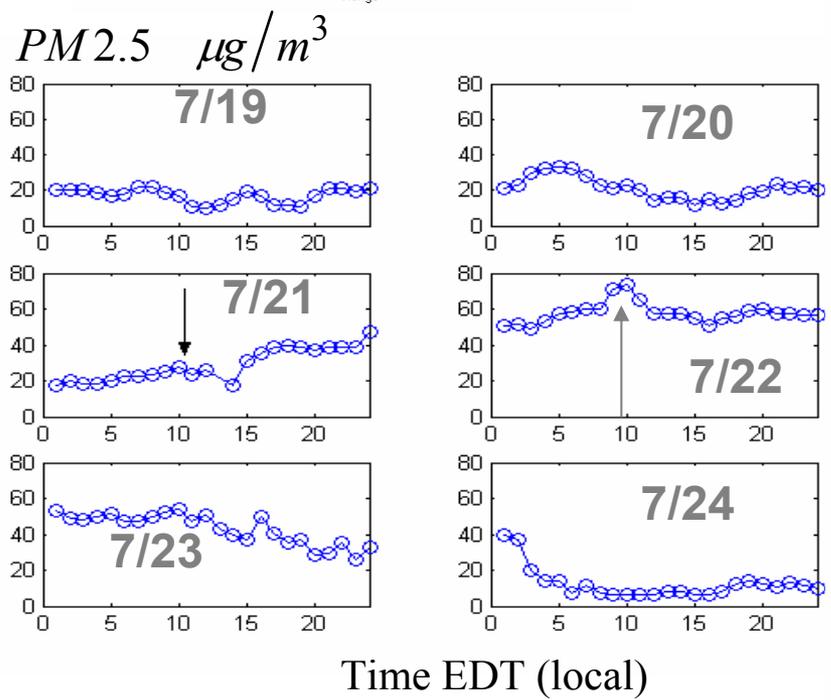
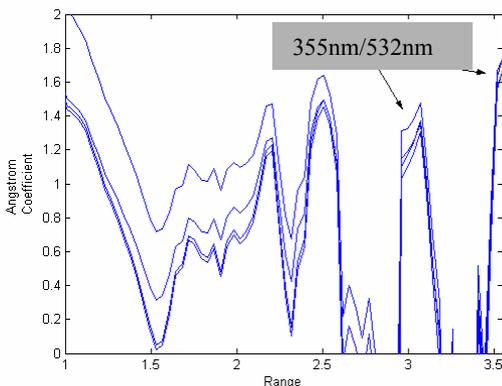
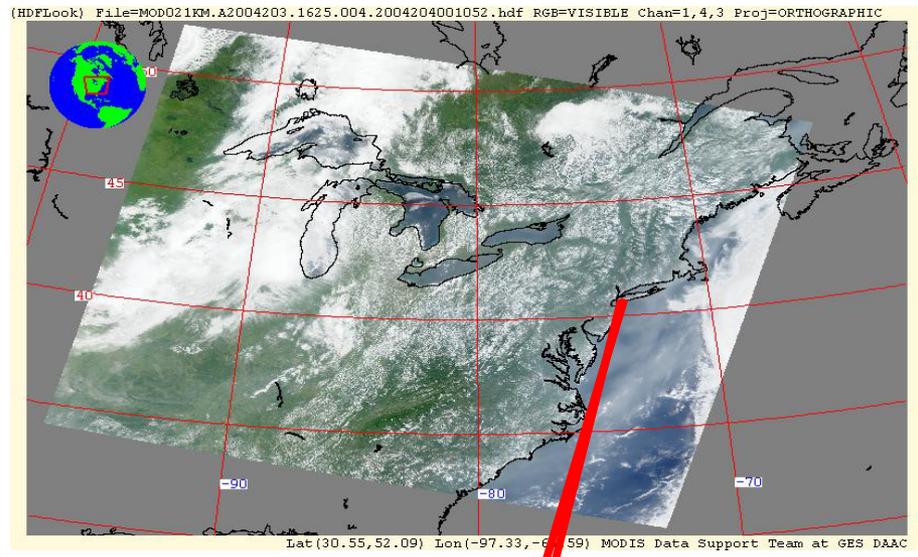
UMBC ELF LIDAR system identified two smoke plumes on July 9, 2004, which arrived around 1630 UTC. First plume is around 3.5-4km and the second is near 5km.



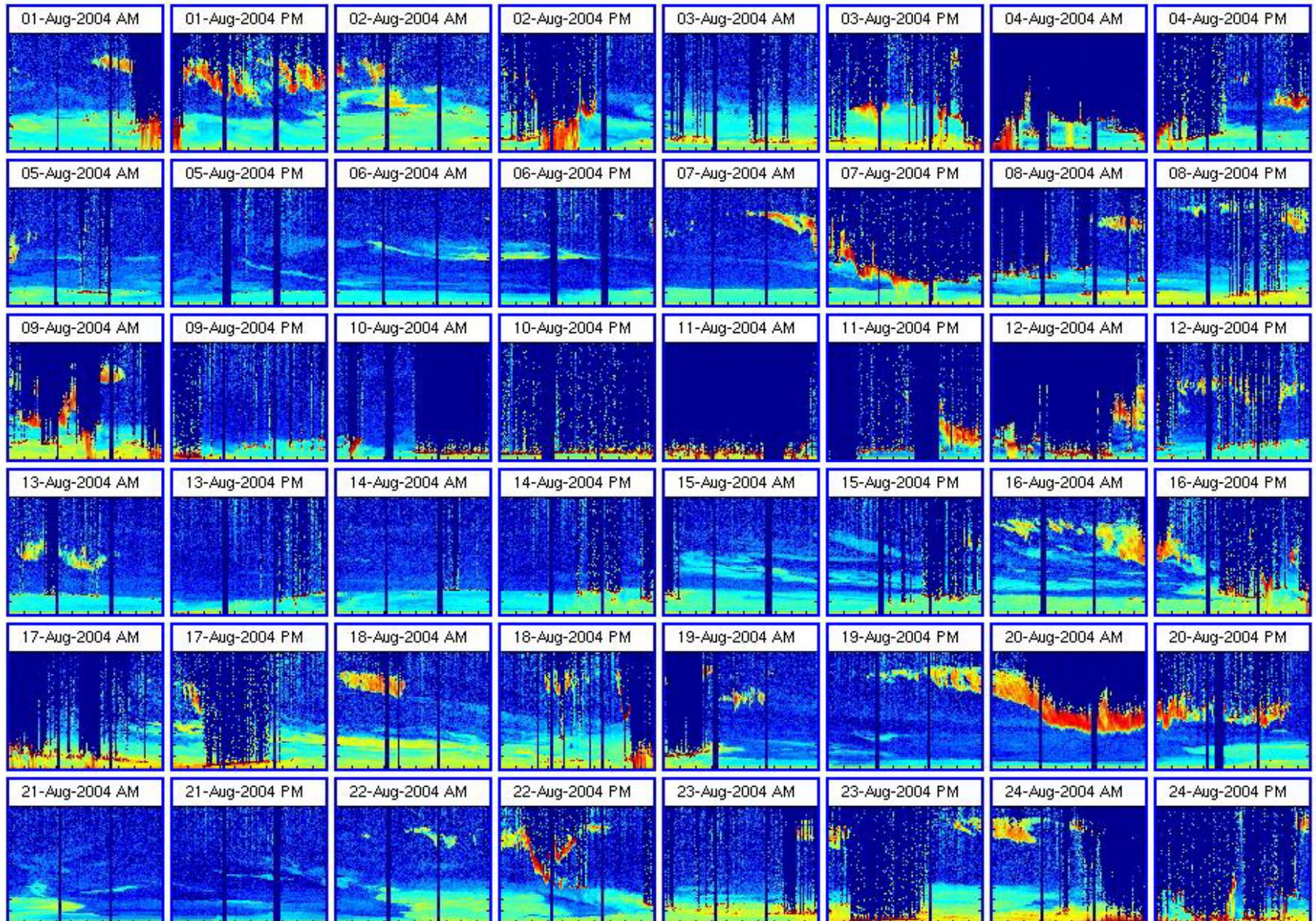
December 3, 2004

AEROCOM WORKSHOP

Smoke Over NYC from Alaska & British Columbia July 21, 2004



University of Wisconsin Arctic HSRL



REALM DATA CENTER

REALM HOME

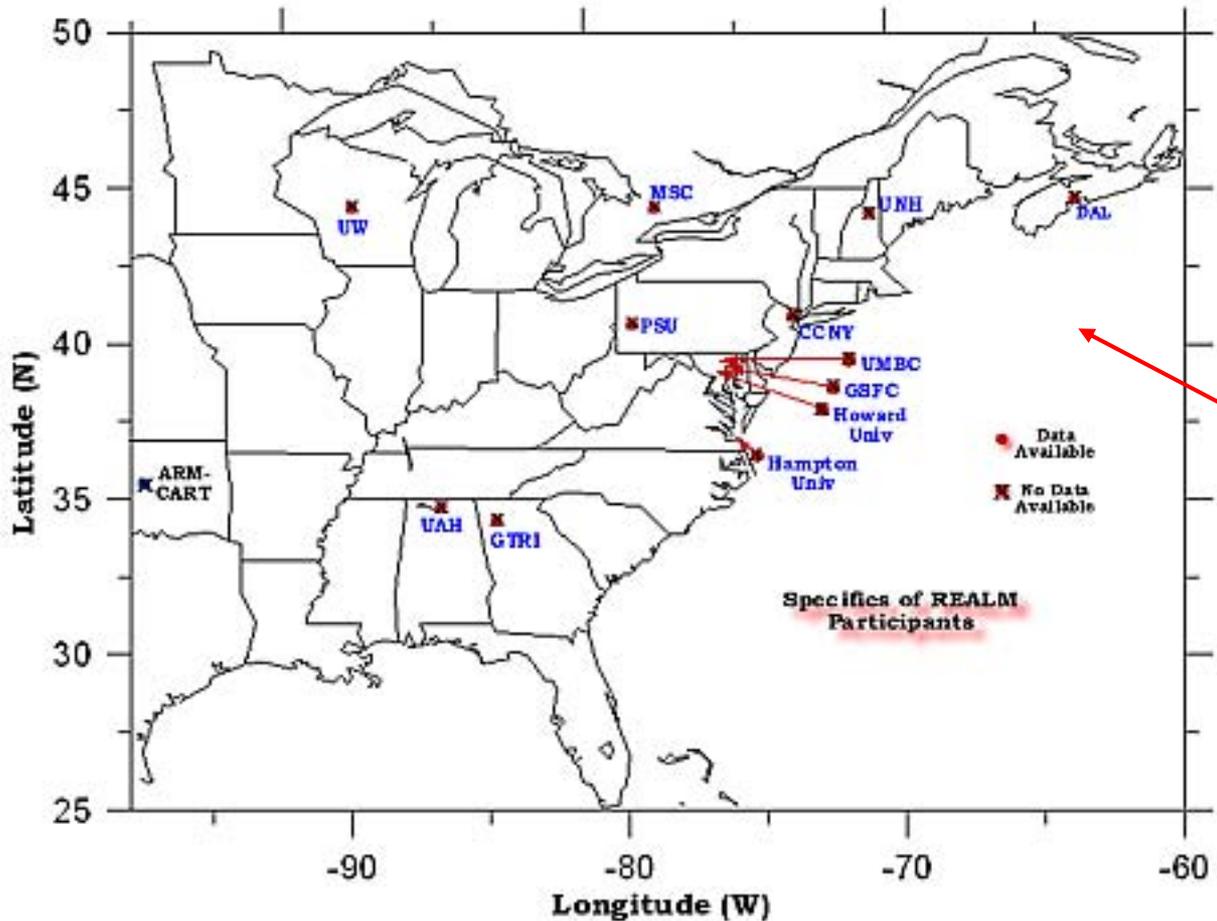


Data for: September 1, 2004

Click on a REALM Participant for their LIDAR data.



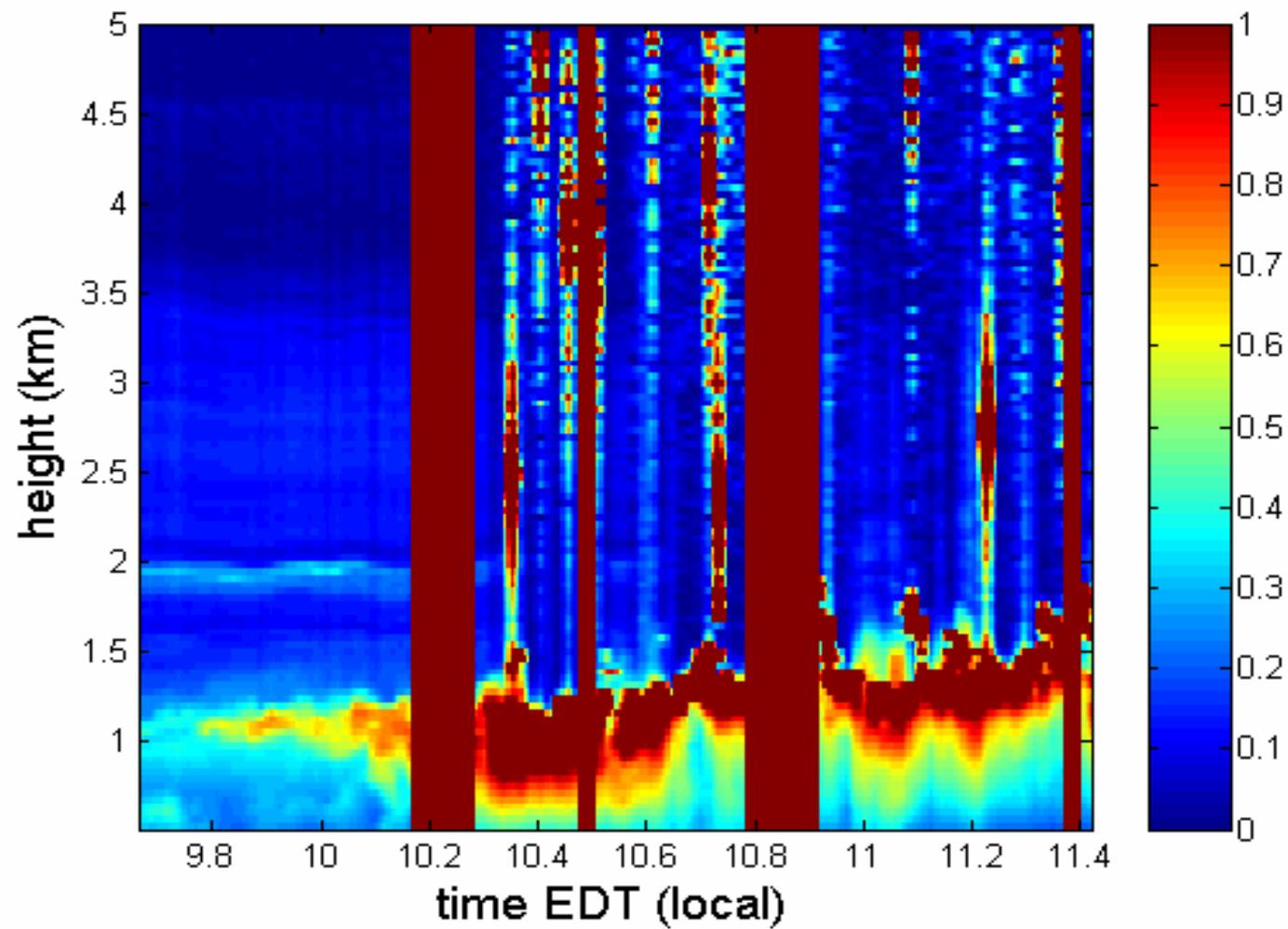
to monitor air quality in the vertical from multiple LM participants are posted and archived on this site.



SEPTEMBER 2004

Sun	Mon	Tue	Wed	Thur	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25

532nm Extinction (km^{-1})



NOAA HYSPLIT MODEL
 Backward trajectories ending at 13 UTC 22 Jul 04
 FNL Meteorological Data

