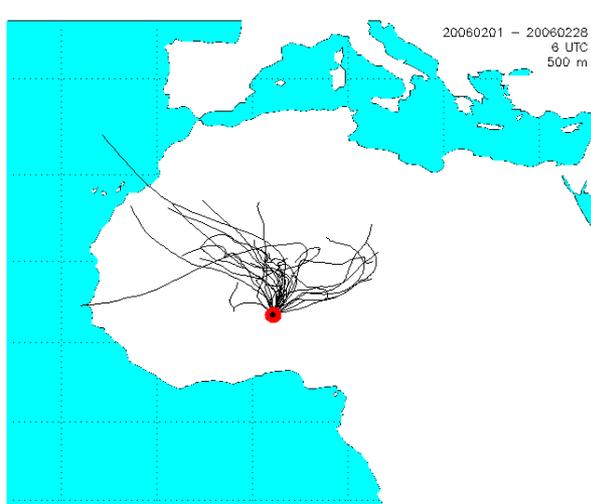


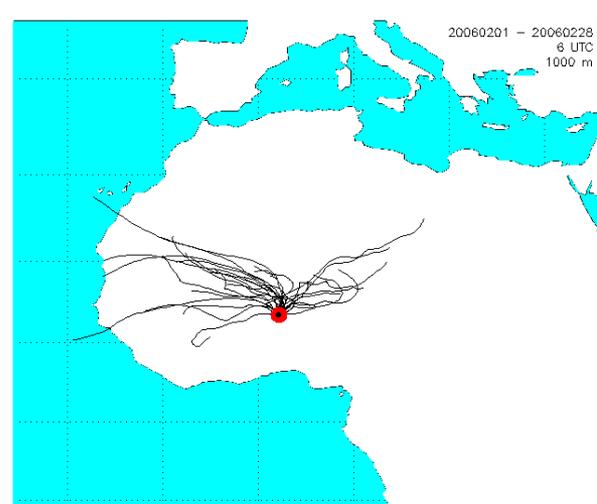
Routine Back-Trajectories

Joint A/RPWG Meeting
Madison, WI

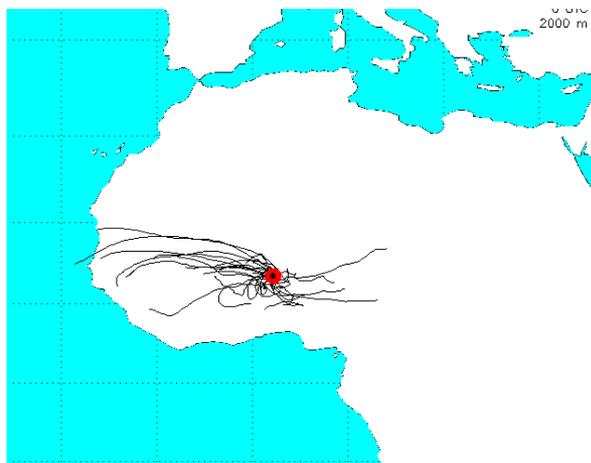
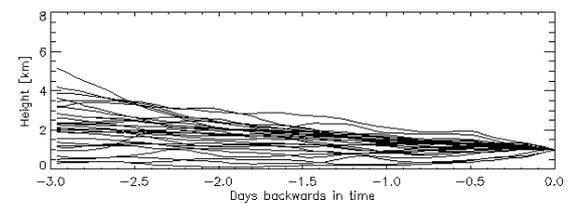
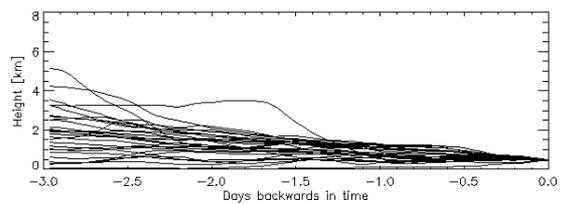
- Met-data input:
 - since Dec. 2004 GDAS (global, 1x1deg, 23 pressure levels)
 - since 1948 reanalysis (global, 2.5x2.5, 17 pressure levels)
- 5 altitudes (10, 500, 1000, 2000, 4000 m)
- 4 runs/day (0Z, 6Z, 12Z, 18Z)
- 10 day long
- Vars: RH, theta, temp, rain, mixdepth, terrain, solar
- takes 0.9 hr for 1 site (NIM) on SunFire 240 (XDC development server)
per site, but running multiple (6) sites once increases only to 1.5 hr
- NIM for all of 2006-01-01/2007-01-31 ready by end of the week.



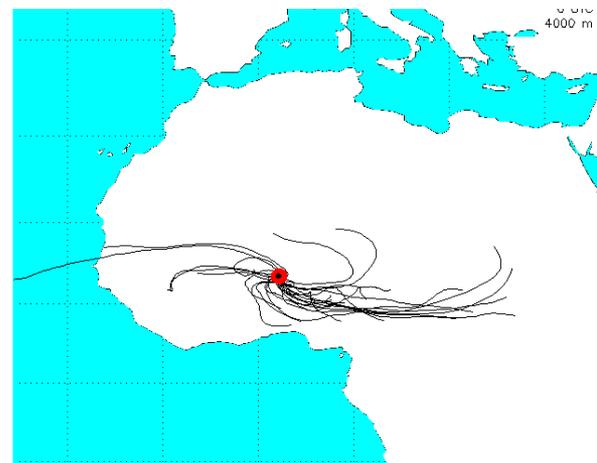
500 m



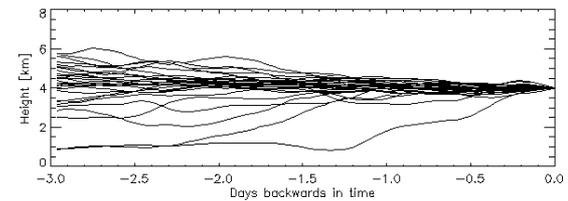
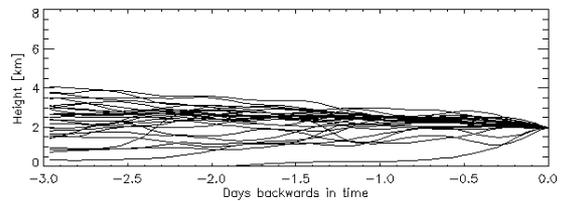
1000 m



2000 m

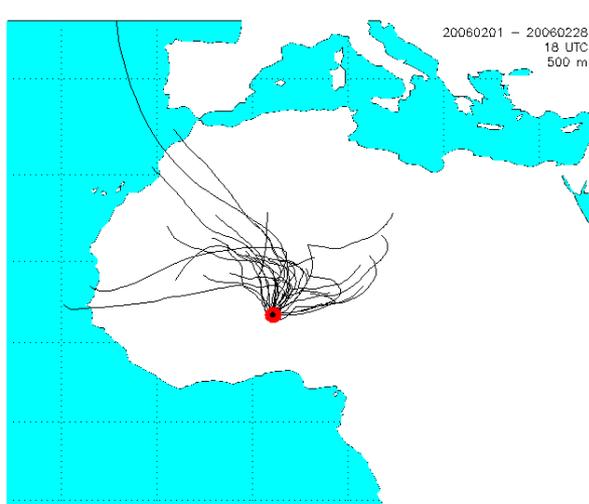


4000 m

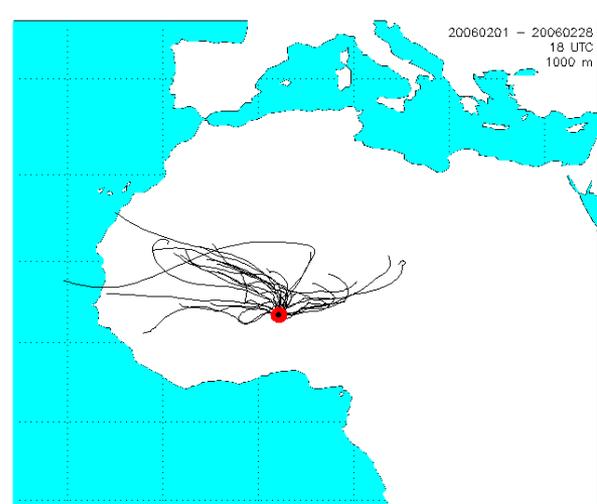


06 UTC

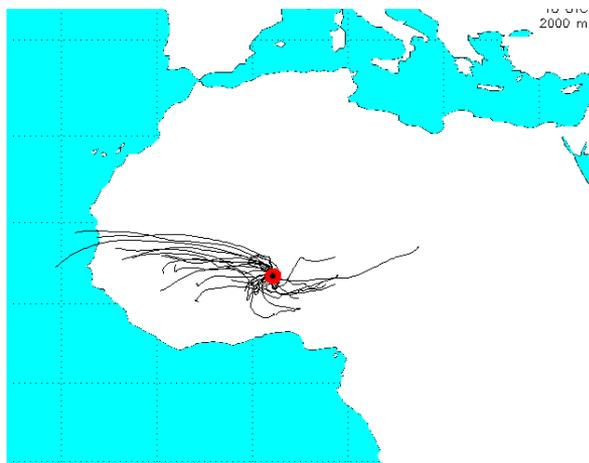
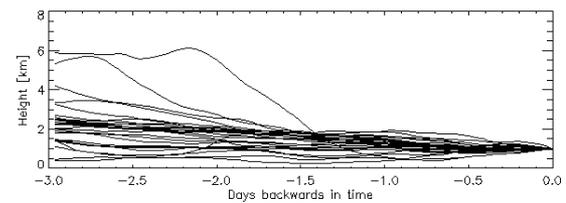
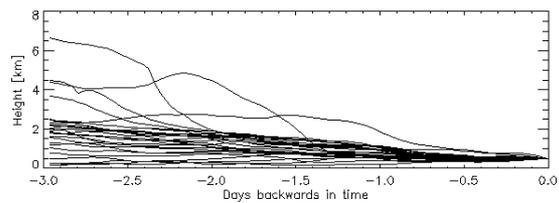
Dave Turner
Sample Plots
NIM 2006-02



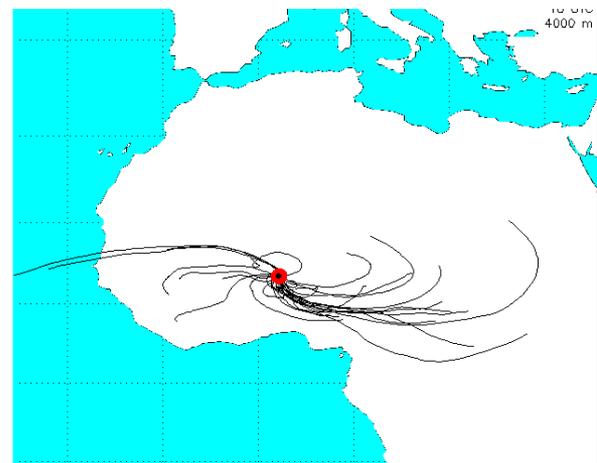
500 m



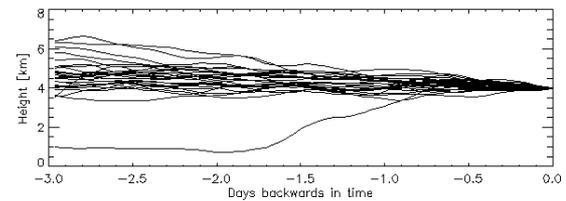
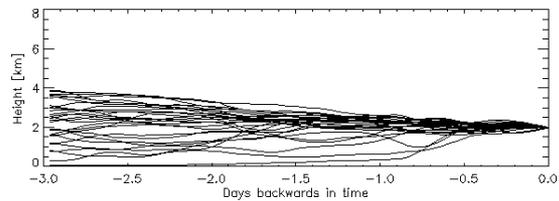
1000 m



2000 m



4000 m



18 UTC

Dave Turner
Sample Plots
NIM 2006-02

- Turn into a “external VAP” product for all sites?
 - need ECR
 - limit back-traj length to 2/3 days?
 - longer traj. would require an “ensemble” approach to be meaningful
 - tune params to least common denominator for all sites? Or, ...
- Operational issues
 - should it be run/generate data continuously?
 - or run tuned for intensive periods, AMF deployments?
- Feedback to me or Dave Turner
 - maybe put discussion on AWG wiki?

CSPHOT Mentoring Status

Laurie Gregory
Richard Wagener

- 2005 mentorship discontinued to save money
 - site operations to deal with Aeronet directly for instrument swaps, maintenance etc.
 - XDC to monitor data flow
- 2006/7: instruments retrofitted
 - for internet data-transfer rather than satellite transmission, resulted in loss of real-time diagnostics
 - added cloud mode, did not work initially, needed EEPROM upgrades
- 2007 July: Laurie Gregory to mentor CSPHOT
 - Site Ops continue to deal directly with Aeronet, but actions will be recorded in common OSS and DQPR DBs

- NSA C1 - Barrow:
 - Last installed: May 2007 with new EPROM - need to confirm.
 - Status : Operating nominally. But need to investigate errors from Aeronet ops page.
- SGP C1 - CART-SITE:
 - Last installed: April 30,2007 with new EPROM and in cloud mode. Confirmed.
 - Status: Operating nominally.
- TWP C2 - Nauru:
 - Last Update: August,2007 with new EPROM in cloud mode. Need Confirmation.
 - Status: Operating nominally.
 - Problems: Missing data from 2007-07-04/08-30 due to serial cable problem

- AMF FKB M1 - Black Forest:
 - Last Install: August 2007 with new EPROM, but no data yet
 - Status: No data received by Aeronet due to alignment and connection problems.
- TWP C3 - Darwin:
 - Note: Not ARM instrument, owned by CSIRO
 - Status: No data since February 2007, waiting for update from Ross Mitchell

- Brian Ermold is adding a raw data collection to SDS so status can be monitored in DSview by operations, and problems are noted sooner
- Laurie will update operations procedures based on recent events, experiences. Need smoother exchange of instruments as they rotate for recalibration at aernet.
- Aernet is working on cloud mode product
- Update yearly ingest to archive Aernet analyses