

XDC JULY 2009 MONTHLY REPORT

3. LOOKING AHEAD

XDC:

ACRF SECURITY: Improve security at ACRF Web sites containing sensitive information (See ECO-612 and ECO-563). *Update:* *SSL Certificates are in place. LDAP servers are running at BNL and ANL and the BNL server is getting any updates from the PeopleDB and is replicating those updates to the ANL server. Next: Develop applications, e.g.: PeopleDB profile editor, IT VLAN and examine options for implementing a single sign-on system.*

PROBLEM REPORTING: Focusing attention on ECO-545 to consolidate DQPR and PIF/CAR problem reporting forms. Mostly complete, reviewing flow of information through different problem states and various roles, responsibilities, and email distribution lists. *Update:* *release expected at the end of summer. For feature details see: <http://www.db.arm.gov/DQPR/NewFeatures.html>*

AMF EXTERNAL DATASTREAMS: Establishing a baseline set of external datastreams that are expected to be created with each AMF deployment: GFS, ECMWF DIAG, a Geostationary Satellite Data (if available). *Update:* *NCEP GFS data for Azores completed.*

TDMA: Hygroscopicity and size distribution released! Optical properties and CCN VAPs to follow in early 2009. *Update:* *All hygroscopicity and size distribution data for the first half of 2009 have been reprocessed to include the new QC information.*

AMF Ancillary Facility Data for China: Make data available before STM. *Update:* *Completed the data for the first deployment site (Zhangye, Western China), waiting for the data for the second deployment to be delivered to the XDC.*

5. NEW INSTRUMENTS AND DATA STREAMS

XDC:

NCEP GFS: National Centers for Environmental Prediction Global Forecast System model data (ncepgfs) covering Graciosa Island, Azores from 20090401 – 20090630 are available at the Archive. The data description page has been updated to include the new datastream:

<http://www.arm.gov/xds/xds.php?id=ncepghfs>

DATASETS SUBMITTED TO THE FIELD CAMPAIGN BROWSER THROUGH THE XDC:

SGP DATA- Continued Ground Based Cloud Tomography Experiment and Vertical

Velocity FC: <http://iop.archive.arm.gov/arm-iop/2009/sgp/cloudtom/>

<http://iop.archive.arm.gov/arm-iop/2009/sgp/vertvel/>

Added RACORO data and Braun's slant water vapor paths retrieved from the dense network of GPS receivers:

<http://iop.archive.arm.gov/arm-iop/2009/sgp/racoro/>

<http://iop.archive.arm.gov/arm-iop/2007/sgp/water-vapor/braun-gps/>

NSA DATA- The following dataset continued to be updated for the current 2009 Barrow MMCR field campaign:

<http://iop.archive.arm.gov/arm-iop/2009/nsa/mmcr/cherry-tps/>

6. ACCOMPLISHMENTS

XDC:

NCEP GFS: GFS data for Graciosa Island, Azores are now available through the Archive.

CSPHOT: All Cimel Sunphotometer (CSPHOT) data were reprocessed from 1994 to the present with a new algorithm and made available at the ARM Archive.

7. TRAVEL

Rick Wagener, Kathy Doty, Laurie Gregory, and Alice Cialella traveled to Norman, OK to the ARM Developers Meeting July 6 – July 10, 2009.

8. ISSUES

XDC:

CSPHOT & SUOMINET MENTORSHIP: Continue to monitor Cimel issues. Web metadata has been updated. Updating handbook. Updating ingest for level 2 data. Scanning problem at SGP resolved. Details on individual Cimel issues are available in the IMMS report <http://www.db.arm.gov/IMMS/>.

NCEP GFS: Modified the ingest to accommodate AMF GRW data.

PUBLIST: Cleaning up dead publication links.

LDAP: Continued modifying the PHP codes to update LDAP at the same time as an update to Sybase occurs. See documentation at http://wiki.arm.gov/bin/view/Engineering/LdapResources#LDAP_Schema

IOP METADATA: Continued with metadata for the ISDAC AAF Field Campaign.

ACRF GOOGLE MAP: Added the Google Earth plug-in on development to the API. Still only available on PCs and Macs, but not Linux.

TDMA: The size distribution and hygroscopic ingests are complete. We are awaiting documentation before they are officially announced. The CCN data ingest is being modified to handle additional QC information. This is near completion, and error testing is underway. Don has provided new Jan – May 2009 size distribution and hygroscopic data, which have been processed and shipped to the Archive. June and July 2009 data will be delivered soon, followed by 2005-2008, and new CCN data after that. Work on the collection script is on hold. See ECO-00587, BCR-01491.

DQPR/PIFCARDQR: More progress this month on ECO-00545: Simplify and Streamline the Problem Reporting Forms. The DQ Office has provided feedback. There are some minor delays, still moving forward. Additional details about the progress can be found at <http://www.db.arm.gov/DQPR/NewFeatures.html>

SARS: As part of ECO-00701, Continued upgrading the SARS system to include both AFM1 and AMF2.

FC DATABASE: As part of ECO-00701, work has begun on upgrading the field campaign system to include both AMF1 and AMF2.

WEB SYSTEM: Web usage statistics for all years are upcoming.

FILE TRANSFER STATS: The XDC sent 16,897 files with a volume of ~386 GB this month.