

XDC SEPTEMBER 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: in final review stage before release to production. For feature details see:*
<http://www.db.arm.gov/DQPR/NewFeatures.html>

TDMA: Hygroscopicity and size distribution released! Optical properties and CCN VAPs to follow in early 2009. *Update: Don Collins produced new sample files that include size distribution from APS. Ingest modification is underway.*

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

5. NEW INSTRUMENTS AND DATA STREAMS

XDC:

DATASETS SUBMITTED TO THE FIELD CAMPAIGN BROWSER THROUGH THE XDC:

HFE DATA- Received reprocessed data for the Zhangye site and new data for the Zianghe site:

<http://iop.archive.arm.gov/arm-iop/2008/hfe/aie-china/li-aaf/>

SGP DATA- Began collecting final data for the RHUBICII Experiment

<http://iop.archive.arm.gov/arm-iop/2009/cjc/rhubicII/>

And RACORO Data began to come in:

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

CLASIC precipitation dataset arrived:

<http://iop.archive.arm.gov/arm-iop/2007/sgp/clasic/matrosov-precip/>

NSA DATA- An additional dataset for the ISDAC field campaign arrived:

<http://iop.archive.arm.gov/arm-iop/2008/nsa/isdac/dubey-pass/>

5. TRAVEL

XDC: Alice Cialella traveled to Boulder, CO to attend the Cloud Properties and Radiation Working Group Sept. 14 – 18, 2009. Laurie Gregory and Rick Wagener attended the Cloud Modeling WG and Aerosol WG joint meeting, Sept. 29 – Oct. 2, 2009 in Boulder, CO.

6. ACCOMPLISHMENTS

XDC:

8. ISSUES

XDC:

NEWDESIGN WEBSITE: Work began on the php template for the XDC pages and the Publications Database Application.

CSPHOT & SUOMINET MENTORSHIP: Continue to monitor Cimel issues. Updating ingest for level 2 data. Updated ingest to fix minor problem with principle planes DOD. Problem with Darwin data resolved. Working on swapping out Nauru instrument, which is due for calibration. Barrow instrument is due for calibration. Reviewing possible ARRA purchases. Details on individual Cimel issues are available in the IMMS report <http://www.db.arm.gov/IMMS/>.

PeopleDB: Work began on cleanup to the database and data in the web applications.

PUBLIST: Finished cleaning up dead publication links. Other problem links are being reviewed.

LDAP: The connection issue between ANL and BNL has been fixed. Now the two LDAP servers sync well. Updated the php scripts to sync PeopleDB and LDAP. See documentation at http://wiki.arm.gov/bin/view/Engineering/LdapResources#LDAP_Schema

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

TDMA: The size distribution and hygroscopic ingests are complete. We are awaiting documentation (waiting on TDMA-APS file integration processing, in addition to some quality flag issues) before they are officially announced. The CCN data ingest is being modified to handle additional QC information and is ready to be released for testing on development. The dataset needs a final review before being released to production.

Don has provided new sample integrated TDMA-APS data for the size distribution measurements. This will require an update to the size distribution ingest, which is underway. (Hydroscopic ingest will remain the same.) Work on the collection script is on hold. See ECO-00587, BCR-01491.

NWS SOUNDINGS: Received quality controlled high resolution sounding data for May, June, and July 2009. The Topeka site changed recently from 6 second resolution to 1 second resolution. The following data streams are available through the ARM Archive:

nsa06snwsupabrwX1.00, nsa06snwsupabrwX1.b1

sgp06snwsupaddcX1.00, sgp06snwsupaddcX1.b1

sgp01snwsupaounX1.00, sgp01snwsupaounX1.b1

sgp01snwsupatopX1.00, sgp01snwsupatopX1.b1

DQPR/PIFCARDQR: More progress this month on ECO-00545: Simplify and Streamline the Problem Reporting Forms. The system is pending final review, and development of production release plan. Additional details about the progress can be found at <http://www.db.arm.gov/DQPR/NewFeatures.html>

SARS: Received request to add additional reviewer for virtual accounts; work in progress.

DQA: Troubleshooting problem with web page that provides DQA Report search

capability.

FC DATABASE: As part of ECO-13125, added new tables to FC database. Kathy D. assisted Sherman B with queries and provided expertise on current FC web page content and procedures.

WEB SYSTEM: Web usage statistics for all years are upcoming. Currently configuring and writing scripts to use webalizer to generate the usage statistics.

FILE TRANSFER STATS: The XDC sent 9,673 files with a volume of ~294 GB this month.