

XDC NOVEMBER 2009 MONTHLY REPORT

3. LOOKING AHEAD

XDC:

WEBSERVER: Evaluate performance issues with new web design. Prepare for additional virtual host for asr.science.energy.gov.

ACRF SECURITY: Improve security at ACRF Web sites containing sensitive information (See ECO-612 and ECO-563). 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. **Update:** Received new hardware for LDAP server at BNL. **Next:** Install and configure LDAP server on new hardware, assign permanent dedicated hostname. 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. **Update:** *BCR submitted to be released into production on Dec.8/9. For feature details see:* <http://www.db.arm.gov/DQPR/NewFeatures.html>

TDMA: Optical properties and CCN VAPs ready to be released. *Update: Don Collins produced new sample files that include size distribution from APS. Ingest modification are completed and in final review stages.*

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:

CJC DATA- Continued collecting final data for the RHUBC-2 Experiment
<http://iop.archive.arm.gov/arm-iop/2009/cjc/rhubicII/>

The SPARTICUS preliminary data area was created.

6. ACCOMPLISHMENTS

ASR: Set up the new web virtual host for ASR. Note: inserting the asr.science.energy.gov hostname on the same physical server as www.arm.gov has so far not caused any problems with DNS.

7. MEETINGS

Richard Wagener, Laurie Gregory, Lynn Ma, Kathy Doty, Min Liang, and Alice Cialella attended the InterLab 2009 Conference at BNL November 16 – 18, 2009.

Richard Wagener, Laurie Gregory, Lynn Ma, Min Liang, and Alice Cialella attended the FASTER Project Kickoff Meeting at BNL November 23 – 24, 2009.

8. ISSUES

XDC:

NEWDESIGN WEBSITE: Work continued on the php template for the XDC pages, the Publications Database Application, Conference Proceedings and the Research Highlights. The XDC webpages moved into Wordpress this month. MySQL was set up to backup WordPress.

CSPHOT & SUOMINET MENTORSHIP: Continue to monitor Cimel issues. Updating ingest for level 2 data. Updated ingest to fix minor problem with principle planes DOD. Working on Nauru problem (DQPR 2304). Help continued with ARRA purchases. Drafting a BCR and instructions for the installation of new collection software. Details on individual Cimel issues are available in the IMMS report <http://www.db.arm.gov/IMMS/>.

PeopleDB: Work continued with cleanup to the database and data in the web applications.

PUBLIST: Problem links are being reviewed.

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

Seventy-five percent of the datasets are completed.

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. Discussions are underway before releasing for final testing on development.

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 will also result in a new data stream (hydroscopic ingest will remain the same.) The new TDMA-APS data stream ingest is in development. Work on the collection script is on hold. See ECO-00587, BCR-01491.

GLOBAL ACRF MAP: A new ACRF sites map was created, including the India and Greenland sites.

NWS SOUNDINGS: Received quality controlled high resolution sounding data for September 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 release in December. 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.

FC DATABASE: As part of ECO-13125, added new tables to FC database. Kathy D. continued assisting Sherman Beus 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 9,769 files with a volume of ~296 GB this month.