

XDC DECEMBER 2009 MONTHLY REPORT

3. LOOKING AHEAD

XDC:

WEBSERVER: Evaluate performance issues with new web design. Need to consider alternate configurations with load-balanced servers and new DB machines with more memory.

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:** *Installed and configured new hardware for LDAP server at BNL. 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. **Update:** *Successfully released into production this month. For feature details see: <http://www.db.arm.gov/DQPR/NewFeatures.html>*

TDMA: Optical properties and CCN VAPs ready to be released. Optical properties and CCN VAPs ready to be released. **Update:** *Review completed, to be released in January 2010.*

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 organizing data for the RHUBC-2 Experiment
<http://iop.archive.arm.gov/arm-iop/2009/cjc/rhubc-ii/>

SGP DATA- Updated the documentation for all Fischer PGS Validation Field

Campaigns.

NSA DATA- Reprocessed data arrived for ISDAC Field Campaign

http://iop.archive.arm.gov/arm-iop/2008/nsa/isdac/strapp-convair_bulk/

<http://iop.archive.arm.gov/arm-iop/2008/nsa/isdac/strapp-fssp096/>

6. ACCOMPLISHMENTS

DQPR/PIFCARDQR: The merged DQPR and PIFCARDQR system (DQPR2) was smoothly released this month. Its primary features are the ability to enter DQPRs for multiple sites and instruments, and the ability to upload images and pdf files.

8. ISSUES

XDC:

ASR STM: Address labels and invitation letters were completed this month. Finished the poster submission system and administration tools, which needed modifications to scripts and database codes due to the new acronym.

NEWDESIGN WEBSITE: Work continued on the php template for the XDC pages, the Publications Database Application, Conference Proceedings and the Research Highlights.

CSPHOT & SUOMINET MENTORSHIP: Continue to monitor Cimel issues. Updating ingest for level 2 data. Updated ingest to fix minor problem with principle planes DOD. Resolved Nauru problem (DQPR 2304). Entered BCR-01623 with instructions for the installation of new collection software. The BCR is currently under review. Arranging the swap and calibration of instruments #98, #168, and #252. Checking on missing Darwin data. Responded to user questions regarding data during ARCPAC campaign. Details on individual Cimel issues are available in the IMMS report <http://www.db.arm.gov/IMMS/>.

GFS GRIB: Updating the ingest to work with GRIB2 files and changes in variables. Reviewing DOD header.

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.

Eighty-three 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. The Aerosol Translator has signed off on it; still awaiting additional feedback.

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 (hygroscopic ingest will remain the same.) The new TDMA-APS data stream ingest is in development, and is undergoing error testing. An error was found with duplicate time entries in the new TDMA-APS sample data, which is being addressed by Don Collins. Waiting for new data (size distribution, hygroscopic, CNN and new TDMA/APS). Work on the collection script is on hold. See ECO-00587, BCR-01491.

DQPR/PIFCARDQR: The system (ECO-0045/BCR-01615) was released this month, with an additional sign-on feature to be developed after the completion of a unified authentication session management system currently under development (see ECO-563, ECO-612, and EWO-13162).

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 10,913 files with a volume of ~356 GB this month.