

# XDC JUNE 2008 MONTHLY REPORT

## 3. LOOKING AHEAD

### XDC:

ACARS: The regular provider of the ACARS data has discontinued data transfer. The PRB has suggested ending collection and directing users to the MADIS archive, which provides these data in a different format. [BCR-1485](#) has been submitted and is in review.

ARM DB SCHEMAS: Plan to add all DB schemas to ARM wiki (e.g. the PeopleDB, <http://wiki.arm.gov/bin/view/Engineering/PeopleDBSchema>) and purchase software to more easily document our database structures and dependencies graphically.  
*Update: Review PeopleDB structure in preparation for LDAP design.*

XDS DOCUMENTATION: Integrate XDC data stream documentation into the main ARM Web page so external data streams are more easily found and format and functionality uniform across ARM web-space. *Update: None. Still to do: GOES metadata.*

PUBLIST: Convert PubList from text format to database PHP/Web application. This is high priority to allow publications to be better categorized and indexed with ARM common key terms like research areas, working groups, instrument classes, and primary measurement types and categories. The completion of this task will also allow a closer linkage to the Research Highlights DB. *Update: Existing publist data loaded into development Publist DB and created administrative tools to edit content.*

ACRF SECURITY: Improve security at ACRF Web sites containing sensitive information (See ECO-612 and ECO-563). LANL is getting and installing ARM SSL certificates for ECR and BCR systems first. The ARM webservers at BNL are next. *Update: 4 certificates for [www.arm.gov](http://www.arm.gov), [stm.arm.gov](http://stm.arm.gov), [www.db.arm.gov](http://www.db.arm.gov), and [google.arm.gov](http://google.arm.gov), received by XDC and ready to be installed in August.*

PROBLEM REPORTING: Focusing attention on ECO-545 to consolidate DQPR and PIF/CAR problem reporting forms.

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). Currently preparing those subsets for China.

## **5. NEW INSTRUMENTS AND DATA STREAMS**

### **XDC:**

ECMWF: The European Centre for Medium Range Weather Forecasts (ECMWF) sent the XDC a special ECMWF dataset in support of the ARM Indirect and Semi-direct Aerosol Campaign (ISDAC). The data are in grib format covering the geographical domain of the NSA site. The following data streams are available at the Archive via special request:

nsaecmwfsuppX1.00, nsaecmwfsurfX1.00, nsaecmwrupaX1.00,  
nsaecmwfmlcloudX1.00

OKM: Thirty minute averaged quality assured soil moisture data (sgp30okmX1.b1) became available on a daily basis instead of the previous quarterly basic starting June 1, 2008.

## **DATASETS SUBMITTED TO THE FIELD CAMPAIGN BROWSER THROUGH THE XDC:**

SGP FIELD CAMPAIGN DATA- Added the following datasets:

<http://www.db.arm.gov/cgi-bin/IOP2/selectAftIOP.pl?iopName-avp2007clasic/>

## **6. ACCOMPLISHMENTS**

### **XDC:**

XDC DATA SYSTEMS: XDC development and production systems have been upgraded to SWAWT 5, but a few issues still remain.

## **8. ISSUES**

### **XDC:**

SITE TRANSFER: Unable to transfer large data files (e.g. ruc20 and eta) to the Archive for first few weeks of June until a network configuration file was reset and the problem solved.

RUC: Modifications have been made to ingest for minor changes in input files.

WEB SERVICES: Set up some test modules for Brad Perkins' OSS. Brad tested it successfully with PHP4 and nusoap on development.

XDC DATA DOCUMENTATION: The external data stream documents have been converted to a DB so it can more easily be integrated into the current Web layout. Administrator tools have also been published. Modification of some XDS pages will be necessary before moving to production. (See BCR-01473.)

PUBLIST: Loaded all the data into the database. Implemented the search tool and submission form. Continued working on administrator tools (See EWO-12409.)

GOOGLE SITE MAP: Work began on development adding google maps to individual facilities under the [www.arm.gov/site](http://www.arm.gov/site) location. (See EWO-12571.)

CSPHOT & SUOMINET MENTORSHIP: Continued to monitor Cimel issues. Filed DQPRs for both NSA Cimel and China AMF Cimel (DQPR 1959, DQPR 1966). Progress has been made in troubleshooting. More details on individual Cimel issues available in the IMMS report <http://www.db.arm.gov/IMMS/>.

CSPHOT DATA: Updated collection and ingest. Data are under review.

TDMA: Size distribution and hygroscopicity data have arrived for 2005-2007. The hygroscopicity and size distribution ingests are getting additional error checking (based on the final data) and going through final testing. The collection script needs some documentation. All three ingests are almost ready to be released for testing on development.

DQPR/PIFCARDQR: Continued to work on ECO-00545: Simplify and Streamline the Problem Reporting Forms. (This is a long term project.)

NWS SOUNDINGS: Received quality controlled high resolution sounding data for the month of April 2008. The following data streams are available through the ARM Archive:

nsa06snwsupabrwx1.00, nsa06snwsupabrwx1.b1

sgp06snwsupatopx1.00, sgp06snwsupatopx1.b1

sgp06snwsupaddcx1.00, sgp06snwsupaddcx1.b1

sgp01snwsupaounx1.00, sgp01snwsupaounx1.b1

FILE TRANSFER STATS: The XDC sent 52,887 files with a volume of ~649 GB this month.