

# XDC MAY 2008 MONTHLY REPORT

## 3. LOOKING AHEAD

### XDC:

ACARS: The regular provider of the ACARS data has discontinued data transfer. We are in the process of switching to a new provider (MADIS). The netCDF files are in a different format, however. An EWO is forthcoming.

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.

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: Cleaned up ECMWF metadata. 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.

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 June.*

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, ECMWFDIAG, a Geostationary Satellite Data (if available). Currently preparing those subsets for China.

## 5. NEW INSTRUMENTS AND DATA STREAMS

### XDC:

ECMWF: European Centre for Medium Range Weather Forecasts (ECMWF) data (hfeecmwfX1.00 ) in ASCII format covering the geographical domains of AMF in China became available starting 20080501.

DATASETS SUBMITTED TO THE FIELD CAMPAIGN BROWSER THROUGH THE XDC:

SGP FIELD CAMPAIGN DATA- Added the following datasets:

[http://iop.archive.arm.gov/arm-iop/2007/nsa/rhubc/exner-mp\\_183/](http://iop.archive.arm.gov/arm-iop/2007/nsa/rhubc/exner-mp_183/)

[http://iop.archive.arm.gov/arm-iop/2007/sgp/clasic/ogren-cirpas\\_aerosol/](http://iop.archive.arm.gov/arm-iop/2007/sgp/clasic/ogren-cirpas_aerosol/)

## **6. ACCOMPLISHMENTS**

### **XDC:**

RESEARCH HIGHLIGHTS: All new features and updates to the Research Highlights section of the ARM Web page are completed and published to production (www.arm.gov/science/research).

SSM/I: Remote Sensing Systems (RSS) has reprocessed the entire SSM/I dataset. SSM/I Version 5 data have been updated to Version 6. The ingest has been modified and reprocessed data have been sent to the Archive (BCR-01471).

## **8. ISSUES**

### **XDC:**

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

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: Work continued on the Publist submission form with the capability to upload data into database, including journal, publisher for journal, author, conference and keyword. Administrator tools to manage these data are also provided. (See EWO-12409.)

GOOGLE SITE MAP: Individual facility maps are now available through the pop-up windows for the SGP site. (See ECO-00523.)

CSPHOT & SUOMINET MENTORSHIP: Continued to monitor Cimel issues. Filed DQPRs for both NSA Cimel and China AMF Cimel (DQPR 1959, DQPR 1966). Troubleshooting is in progress. 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: The DODs for the four separate datastreams are complete and have been attached to ECR-00587 for comments. Issues with the Oct 2005 data have been resolved with Don Collins. The size distribution ingest is almost complete; the collection script needs some documentation; and the hygroscopicity ingest is almost complete.

DQPR/PIFCARDQR: Continued to work on ECO-00545: Simplify and Streamline the Problem Reporting Forms.

NWS SOUNDINGS: Received quality controlled high resolution sounding data for the month of March 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 34,887 files with a volume of ~986 GB this month, thanks to SSM/I data.