

XDC APRIL 2008 MONTHLY REPORT

3. LOOKING AHEAD

XDC:

XDC DATA SYSTEMS: Upgrading XDC development and production systems to SWAWT in May.

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.

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:** ECR, BCR are done. Matt (PNNL) issued 4 certificates for www.arm.gov, stm.arm.gov, www.db.arm.gov, and google.arm.gov. Received by XDC and ready to be installed in May.

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:

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/sgp/clasic/orr-sonde/>

<http://iop.archive.arm.gov/arm-iop/2007/sgp/clasic/gasiewski-psr/>

<http://iop.archive.arm.gov/arm-iop/2005/sgp/alive/slusser-uvufrst/>

6. ACCOMPLISHMENTS

XDC:

PI DATA PRODUCTS: A new web application and underlying database were developed to produce a dynamic web page display and search feature for PI and Evaluation Data Products. An additional web application was also developed which will be used to assign metadata to these data sets. This will enable the data products to be searchable through the ARM Web pages as well. (see ECO-00599).

OMI: The OMI (Ozone Monitoring Instrument) data have recently been changed and reprocessed by the TOMS Ozone Processing Team. The ingest has been released and data were sent to the Archive. Reprocessed data go back to October, 2004. (BCR 01466)

8. ISSUES

XDC:

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.)

RESEARCH HIGHLIGHTS: Research Highlight submittal form has been updated to include the list of contributors and a new area of Research. It is ready for review. Sherman is working on finding a way to convert xml to PDF. We have the basic formatting translation code ready, using XSL transformation language, and will make some additional improvements. Min is working on including the pdf convert function into the Research Highlights application.

PUBLIST: Work continued on the Publist submission form with the ability to chose or add a journal and publisher. Also working on administrator tools for journal and publisher management (See EWO-12409).

GOOGLE SITE MAP: The latest AMF/AAF sites in China were added to the google map under the ARM Sites tab in production. More improvements are coming for May, with individual facility maps available through the pop-up windows for the SGP site. (See ECO-523.)

CSPHOT & SUOMINET MENTORSHIP: Continued to monitor Cimel issues. Nauru Cimel was replaced with #98 during the April tech visit and is now working. Unit #252 has been reinstalled at Barrow in a new location (BCR-01462). Data collection monitoring for DSView was set up for Barrow (BCR-01417). 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 are being ironed out with Don Collins. The size distribution ingest is almost complete; the collection script needs some documentation; and the hygroscopicity ingest is now underway.

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 February 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

XDC DOCUMENTATION: Updated Reprocessing History documentation for the OMI data stream:

<http://www.arm.gov/xds/static/omi.stm> (See Accomplishments section above.)

FILE TRANSFER STATS: The XDC sent 9,068 files with a volume of ~345 GB this month.