

XDC MAY 2009 MONTHLY REPORT

3. LOOKING AHEAD

XDC:

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 web servers at BNL are next. *Update: Certificate for google.arm.gov installed along with a major Google Search Appliance update, which required coordination with ECR/BCR system. LDAP data synched with PeopleDB. Replicated LDAP servers expected in June before Developers meeting. Discuss Login Application developments at meeting.*

PROBLEM REPORTING: Focusing attention on ECO-545 to consolidate DQPR and PIF/CAR problem reporting forms. Mostly complete, reviewing flow of information through different problem states and various roles, responsibilities, and email distribution lists. *Update: Tentative release expected at the end of July. Release is pending a training session, mainly with Instrument Mentors. For feature details see: <http://www.db.arm.gov/DQPR/NewFeatures.html>*

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). *Update: ECMWF DIAG for Azores began arriving.*

TDMA: Hygroscopicity and size distribution released! Optical properties and CCN VAPs to follow in early 2009. *Update: Implementing QC recommendation for CCN VAP.*

AMF Ancillary Facility Data for China: Make data available before STM. *Update: Completed the data for the first deployment site (Zhangye, Western China), waiting for the data for the second deployment to be delivered to the XDC.*

5. NEW INSTRUMENTS AND DATA STREAMS

XDC:

ECMWF GRW: Diagnostic Analysis data (grwecmwfX1.00) in ASCII format derived from ECMWF model data for Graciosa Island, Azores from 20090501 to the present are available. The netCDF data will be coming soon.

DATASETS SUBMITTED TO THE FIELD CAMPAIGN BROWSER THROUGH THE XDC:

AAF DATA- The ISDAC datasets continued this month, including korolev cloud extinction probe data:

<http://www.db.arm.gov/cgi-bin/IOP2/selectAftIOP.pl?iopName=aaf2008isdac>

SGP DATA- CLASIC field campaign datasets continued this month:

<http://www.db.arm.gov/cgi-bin/IOP2/selectAftIOP.pl?iopName=aaf2007clasic>

NSA DATA- The following dataset was added to the current 2009 Barrow MMCR field campaign:

<http://iop.archive.arm.gov/arm-iop/2009/nsa/mmcr/cherry-tps/>

6. ACCOMPLISHMENTS

XDC:

ECMWF GRW: Diagnostic Analysis data in ASCII format derived from ECMWF model data for Graciosa Island now available through the ARM Archive.

GOOGLE SSL: The SSL certificate was successfully installed (See BCR-01561).

8. ISSUES

XDC:

ACRF GOOGLE MAP: Map changes this month included adding the Graciosa Azores close up map for the Azores site page, adding a scale bar to the maps, and making all site location formats consistent across site pages and on the google map.

www.arm.gov/sites

GOOGLE SEARCH: The second step of the Google Search Appliance software upgrade (latest software version) failed the testing process due to inadequate monitoring tools, which Google will fix in a future release. (Note that the first step of the upgrade did result in a successful software upgrade.)

WEB SYSTEM: Web usage statistics for all years are upcoming.

CSPHOT & SUOMINET MENTORSHIP: Continue to monitor Cimel issues. Updating ingest to process HFE and GRW data. AMF GRW available on Aeronet's site

under site name 'Graciosa'. Obtained information for request for additional Cimel instruments for Boundary Layer Cloud System (ECR-00765). Details on individual Cimel issues are available in the IMMS report

<http://www.db.arm.gov/IMMS/>.

WEB SERVER: Upgraded freeTDS on production web server. Also upgraded or updated perl DBD:Sybase and php packages. See BCR-01562.

LDAP: Added a new table (country_code) in the PeopleDB. Cleaned up the country data entries in the database. Finished the scripts to load the people and group data from the PeopleDB and LDAP server. Set up a new LDAP server with the production data. Opened the ports to ANL and will continue testing the replication service. See documentation at

http://wiki.arm.gov/bin/view/Engineering/LdapResources#LDAP_Schema

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

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

TDMA: The size distribution and hygroscopic ingests are complete. We are awaiting documentation before they are officially announced. The CCN data have also arrived for 2005 – 2007 and the ingest has been successfully installed and tested on development. D. Collins and A. Cialella finalized the outstanding qc issue at the Science Team Meeting. Code modifications are necessary. Work on the collection script has resumed, although we still need to get a formal data delivery schedule. Don Collins put processing on hold pending release of a new procedure that will require reprocessing of entire archive of TDMA data. See ECO-00587, BCR-01491.

NWS SOUNDINGS: Received quality controlled high resolution sounding data for March 2009. 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

DQPR/PIFCARDQR: Good progress was made this month on ECO-00545: Simplify and Streamline the Problem Reporting Forms. The DQ Office has provided feedback. Tentative release date is 6/30/2009. Additional details about the progress can be found at <http://www.db.arm.gov/DQPR/NewFeatures.html>

SARS: As part of ECO-00701, work has begun on upgrading the SARS system to include both AFM1 and AMF2.

FC DATABASE: As part of ECO-00701, work has begun on upgrading the field campaign system to include both AMF1 and AMF2.

FILE TRANSFER STATS: The XDC sent 10,827 files with a volume of ~296 GB this month.