

# XDC JANUARY 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 to be installed early in the new year, requires coordination with ECR/BCR system. Start development of single sign-on capability. Identify management improvements in February.*

PROBLEM REPORTING: Focusing attention on ECO-545 to consolidate DQPR and PIF/CAR problem reporting forms. *Update: Will provide current status of required features and remaining items to develop in Feb.*

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 HFE near completion.*

TDMA: Hygroscopicity and size distribution released! Optical properties and CCN VAPs to follow in early 2009.

## 5. NEW INSTRUMENTS AND DATA STREAMS

### XDC:

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

SGP DATA- The following datasets were added to the IRSI field campaign:

<http://iop.archive.arm.gov/arm-iop/2007/sgp/irsi/berger-cir/>

<http://iop.archive.arm.gov/arm-iop/2007/sgp/irsi/long-lwflux/>

<http://iop.archive.arm.gov/arm-iop/2007/sgp/irsi/moeller-nubi/>

<http://iop.archive.arm.gov/arm-iop/2007/sgp/irsi/morris-astic/>

<http://iop.archive.arm.gov/arm-iop/2007/sgp/irsi/steele-asiva/>

## **6. ACCOMPLISHMENTS**

### **XDC:**

SWAWT: Completed installation of SWAWT on production Linux system in anticipation of the Linux based Terascan software for satellite data ingests.

IOP METADATA: Completed metadata for the IRSI Field Campaign.

## **8. ISSUES**

### **XDC:**

XDC SATELLITE DATA (MTSAT, GOES): Preparing to move satellite processing to Linux. Moved over XDC web data viewers and tested all satellite ingests and scripts. Expected to be in production in February. A BCR will be submitted.

MTSAT (HFE): The data for hfemtsat have been processed and archived. The quicklook images are generated and available. Still need to update the XDC quicklook page. See ECO-00665 and BCR-01517.

WEB SYSTEM: Solving issues with freetds upgrade. Built and installed sqsh with freetds. Modifying dbscheme.pl to use DBI since Sybperl library is no longer supported.

Web usage statistics for other web servers (Education already completed) and all years are upcoming.

PEOPLEDDB: This month added a new email list for PeopleDB registration form.

CSPHOT & SUOMINET MENTORSHIP: Continue to monitor Cimel issues.

Reviewing China HFE data. HFE data have been sent to Aeronet for processing. HFE Cimel data and plots will be available at Aeronet's website in February. The Azores AMF and Barrow Cimeles have been calibrated at Aeronet and are ready for deployment. Details on individual Cimel issues are available in the IMMS report <http://www.db.arm.gov/IMMS/>.

PUBLICATION DB: Updated keywords to include the "In progress" and "Completed; awaiting data" field campaigns, since "Past" doesn't cover the user needs.

LDAP: Built the latest stable version of openLDAP with the new Berkeley DB version included, which many applications rely upon.

IOP METADATA: Continued metadata entries for the CLASIC Field Campaign.

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

TDMA: The CCN data have also arrived for 2005 – 2007 and the ingest is undergoing final testing, but still needs a review(s) before moving into production. See ECO-00587, BCR-01491.

GOES12: GOES12 malfunctioned from 12/14/2008 through 01/05/2009. GOES13 was ingested in its place without a problem and data processed in hdf format and sent to the Archive to fill in the GOES12 gap. A DQR was submitted to inform the users. We contacted Brian Soden for retrieval coefficients for GOES13 so it can be added to the GOES UTH ingest, but no response yet.

DQPR/PIFCARDQR: Progress continued this month on ECO-00545: Simplify and Streamline the Problem Reporting Forms. (This is a long term project.)

FILE TRANSFER STATS: The XDC sent 9,483 files with a volume of ~266 GB this month. (Note: The total volume decreased due to a new compression format used by Seospace and NCEP.)