

XDC DECEMBER 2007 MONTHLY REPORT

1. LOOKING AHEAD

NSA:

SGP:

TWP

XDC:

TDMA INGEST: Alison Tilp to return from maternity leave in January. We'll expect to make progress, pending Don Collins' cooperation.

ACRF SECURITY: Improve security at ACRF Web sites containing sensitive information.

PUBLIST: Convert PubList in text format to php database Web application.

MANUS:

NAURU:

DARWIN:

DMF:

SDS:

EOP:

2. IOPS AND CAMPAIGNS

3. NEW INSTRUMENTS AND DATA STREAMS

NSA:

SGP:

TWP:

XDC:

DATASETS SUBMITTED TO THE IOP BROWSER THROUGH THE XDC:

BETA-DATA- (No new datasets added this month.)

AMF IOP-DATA- (No new datasets added/modified this month.)

TWP IOP DATA- Added or updated the following IOP datasets:

http://iop.archive.arm.gov/arm-iop/2006/twp/twp-ice/mcfarquhar-proteus_micro/

SGP IOP DATA- Added or updated the following IOP datasets:

<http://iop.archive.arm.gov/arm-iop/2006/sgp/mwr/cadeddu-mwr/>

NSA IOP DATA- (No new datasets added/modified this month.)

SPECIAL-DATA: (No new datasets added this month.)

SGP IAP 2006: (No new datasets added this month.)

DMF:

4. ACCOMPLISHMENTS

NSA:

SGP:

TWP:

XDC:

ACRF WEB SERVER UPGRADE: Successfully completed moving the ACRF Web server(s) to a better supported and more secure linux environment this month. Database tool, MySQL and MySQL administration tool, phpMyadmin, are also now in place.

ABRFC: The Arkansas-Red Basin River Forecast Center (ABRFC) hourly precipitation data files have been converted to daily files using the ARM DOD conventions. All daily ABRFC data files from June 1994 to the present are available at the ACRF Archive.

<http://www.arm.gov/xds/static/abrfc.stm>

DMF:

SDS:

EOP:

5. MEETINGS

NSA:

SGP:

TWP:

XDC:

EOP:

DMF:

SDS:

6. ISSUES

NSA:

SGP:

TWP:

GENERAL:

MANUS:

NAURU:

DARWIN:

XDC:

NCEP GFS: Updating the GFS netCDF ingest to include AMF site Heselbach, Germany (FKB).

XDC DATA SYSTEMS: Continued installing SWAWT on XDC data systems.

CSPHOT & SUOMINET MENTORSHIP: Continued to monitor Cimel issues. Unit #168 has been calibrated and shipped out to the China AMF. Unit #98 is being shipped back for calibration from the FKB AMF. There were networking problems with the Nauru Cimel. (DQPR-1871) More details on individual Cimel issues available in the IMMS report <http://www.db.arm.gov/IMMS/>.

RUC/NCEP GRIB2: Continued to determine what is needed to convert ingest for GRIB2. NCEP will be discontinuing the dissemination of GRIB1 datasets effective Jan 28, 2008.

RESEARCH HIGHLIGHTS: Submitted cost estimate for major modifications to the Research Highlights application. (No additional work this month.)

TDMA: A preliminary netCDF file containing size distributions has been created. The ingest is being updated to handle multiple input and output data sets. Data for 2005 should be forthcoming. See ECO-00587 for additional details. (Work on hold while Alison on maternity leave.)

WEBSERVICES: SOAP Services was set up for providing mail list information. Sherman at PNNL confirmed he could get the data through the test scripts. (No additional work this month.)

OPENLDAP: LDAP will replace the current Apache/mod_perl authentication and authorization and provide better performance, reliability and scalability. It will also help when we move to Single Sign-On (SSO) plan. Currently configured Kerberos for securing LDAP. Need to figure out a way to solve the problem of one machine with multiple host names. Probably need to re-configure DNS. (No additional work this month.)

SSL CERTIFICATE: Rick inquired about getting a SSL certificate issued from ESnet; they recommended going with a commercial provider. BNL uses Geotrust and has a wildcard certificate that is only good for *.bnl.gov hosts. ARM needs to buy separate certificate, depending on type from 250\$/a. to 800\$/a. UPDATE: Obtained permission from Jim Mather to register *.arm.gov with Geotrust, and ordered a wildcard certificate for 1079\$ including 1 year support.

XDC METRICS: Looking into installing ARM system metrics at the XDC. (No additional work this month.)

MTSAT WEB APPLICATION: MTSAT composite images are available through (http://www.xdc.arm.gov/data_viewers/twpmatsat_composite). Currently working on new web application to handle all the composite images for NSA, SGP, TWP GOES and TWP MTSAT. The application has been modified to run more quickly and efficiently. (It will go into production after web servers are installed on new production machine.)

GOOGLE MAPS: Major improvements were completed in the development area to the "Sites" web page, based on feedback from the ARM Chief Scientist, including adding building icons to the SGP CF instrument map. (Await updated instrument map for NSA Atqasuk site so it can be added to map.) Javascript works as expected for Firefox and Safari but troublesome for IE 6 and 7. Have a separate version for IE.

<http://dev.www.arm.gov/sites>

<http://dev.www.arm.gov/sites/indexIE.stm/>

ACRF GIS: The ESRI software was updated with the latest version, 9.2.

ERDAS IMAGINE: The image processing software, IMAGINE, was updated with the latest version, 9.1.

SITE DRIVING DIRECTIONS: (No new directions this month.)

GLOBAL FORECAST SYSTEM (GFS) NCEP DATA: Visualizations are on hold due to higher priority work. (No additional work this month.)

ETA AND GFS MODEL DATA: Updated ECO-00532 with requested changes to header. Data stream is still being reviewed. See ECR-00476 and ECO-00532 for further details. (No additional work this month.)

FIELD CAMPAIGN DATA: Continued working on EWO-11875- Link to past Field Campaign web pages for each site. Updated production Field Campaign database new primary measurement type updates. Working on modifications to layout of past field campaign web page.

DQPR, DQA: (No current tasks.)

SARS: (No current tasks.)

IMMS: (No current tasks.)

PI DATA PRODUCTS: Continued work in support of ECO-00599 “Handling of PI Data Products”. Awaiting input on current development efforts.

ARM METADATA: Continued work on an application similar to the current IOP metadata system and the PI Products system being built, to potentially be used to support general ARM data stream metadata assignments and modifications. (No additional work this month.)

AMERIFLUX: (No new data this month.)

<http://iop.archive.arm.gov/arm-iop/0special-data/ameriflux/>

NWS SOUNDINGS: (No new soundings arrived this month.)

BIRTH OF A DATA STREAM (BODS): (No new BODS this month.)

XDC DOCUMENTATION: Updated documentation for the NCEP GFS data set for new data availability:

<http://www.arm.gov/xds/static/gfs.stm>

FILE TRANSFER: The XDC sent 8,908 files with a volume of ~369 GB this month.

DMF:

SDS:

EOP:

GENERAL:

NSA:

SGP:

TWP:

7. SPENDING REPORT:

(Report sent under separate cover.)