

XDC APRIL 2007 MONTHLY REPORT

1. LOOKING AHEAD

NSA:

SGP:

TWP:

XDC:

TDMA: Provide the Texas A & M Tandem Differential Mobility Analyzer aerosol data in netCDF.

DEVELOPER'S MEETING: The XDC will host the ARM Developer's meeting at BNL July 10 – 12, 2007.

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:

PI-DATASETS- (No new datasets added this month by the XDC.)

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

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

<http://iop.archive.arm.gov/arm-iop/2005/pye/masrad/coulter-mpl/>

<http://iop.archive.arm.gov/arm-iop/2005/pye/masrad-nfov/wiscombe-nfov/>

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

http://iop.archive.arm.gov/arm-iop/2006/twp/twp-ice/schultz-surveyor_met/

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

<http://iop.archive.arm.gov/arm-iop/2007/sgp/iasi/>

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

<http://iop.archive.arm.gov/arm-iop/2003/sgp/cic/genkova-nephelo/>

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

<http://iop.archive.arm.gov/arm-iop/2007/nsa/rhubc/turner-aeri/>

SPECIAL-DATA- Linked the ICRCM-1 Web site to the main ARM web page:

<http://www.arm.gov/about/history.stm/>

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

DMF:

4. ACCOMPLISHMENTS

NSA:

SGP:

TWP:

XDC:

ECMWF ASCII AMF: Completed changes to ingest for ECMWR diagnostic data for Germany AMF (FKB). Data is being sent to the Archive.

DMF:

SDS:

EOP:

5. MEETINGS

NSA:

SGP:

TWP:

XDC: (No meetings this month.)

EOP:

DMF:

SDS:

6. ISSUES

NSA:

SGP:

TWP:

GENERAL:

MANUS:

NAURU:

DARWIN:

XDC:

SUOMINET: Suominet is in the process of upgrading their Bernese software to 5.0. New GEC and sgp30suomigpsX1.c1 data are being processed.

RESEARCH HIGHLIGHTS: The Research Highlights application will be moved into Sybase and have a new submission form and admin tools. It is under construction. See EWO-12055.

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

ABRFC: Merging ABRFC data into daily files. They are currently individual hourly files. Merged data stream is in review. (No additional work this month.)

ARM POSTER SUBMISSION AND ADMINISTRATION: (No work this month.)

ACRF METRICS: Derived the percentage of funded users for Apr. 1, 2006 through Mar. 31, 2007 and the percentage of funded Archive users for the same time period. Created a table that matches the Archive user id with the People Database id.

WEB SERVER: The web development server was moved from xplor to rexplore (except dev.www.db.arm.gov). Developed a new publish script based on restricted rsync and ssh, which provides a more efficient and secure way to publish web files. Also developed a new unpublish script to remove a file or directory from the web production server. (See EWO-12010.)

PEOPLE DATABASE: (No additional work this month.)

MTSAT WEB APPLICATION: MTSAT composite images are available through (http://www.xdc.arm.gov/data_viewers/twpmtsatsat_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 when web servers are installed on new production machine.)

INSTRUMENT MAPS: Modified some hyperlinks to ARM instrument pages in the pop up windows for each instrument based on updated information from Jim Liljegren.

GOOGLE MAPS: Added the Taihu, China AMF site marker to the ARM sites page and modified the location of the Barrow site and Niger site, based on more accurate Google lat/lon data:

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

ACRF GIS DATA: Created an Eddy Flux Tower Location Map for the upcoming CLASIC Field Campaign.

CIMEL SUNPHOTOMETER (CSPHOT): See Instrument Status report for updates on communication and operating mode modifications. Several users requested netCDF data prior to STM. Doing yearly ingests still makes sense for archiving reasons, but work is still on hold. Aeronet processing status uncertain.

GLOBAL FORECAST SYSTEM (GFS) NCEP DATA: Visualizations are on hold due to higher priority work. Modifications were made to some variable names and the data were reprocessed to use the new names. GFS data headers were updated this month.

ETA AND GFS MODEL DATA: GFS data are in review. Continuing to revise ingest as per suggestions from reviewers. See ECR-00476 and EC0-00532 for details.

CGI WEB SERVICES: Looking into providing more security for remote database connections through Web Services. (No additional work this month.)

DQPR, DQA: Continued work on DQPR statistics summary web page as requested by Ken Kehoe (DQ Office). (No new work this month.)

IOP METADATA TOOL: Began work on integrating new Archive db tables into existing IOP metadata tool code. (No additional work this month.)

SARS: (No new work this month.)

PI DATA PRODUCTS: Began work in support of ECO-00599 "Handling of PI Data Products". Created PI Products metadata database on development system and created a preliminary set of metadata assignment/viewing/modifying tools.

ARM METADATA: Began 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.

AMERIFLUX: (ECO-00288). Began process to download near real time data for the Alaskan sites through automated ftp. Working with Joe Verfaillie to provide algorithms for UCSD processed data. Dave Cook reviewed the algorithms. Joe has reworked the equations incorporating Dave's suggestions. He is working on organizing the data and documentation. (No additional work this month.)

NSA CRN RAINGAUGE: The ingest and collection script have been written to handle the smaller subset of data available to us via ftp. Both scripts have been installed to production and data is available for NSA for Jan 1, 2007 to present. Data from 2002 through 2006 has been reprocessed in late February by NOAA/CRN, but is now in a different format on their ftp server. The collection script has been modified to handle this new format and is complete for the NSA site. The two Stillwater, OK stations have been added to the collection script (as one data stream). The collection script has been released for testing on the development system. Once installed on production, the NSA data from Aug 2002 through Dec 2006 will be processed and made available. The ingest is being modified to handle the two OK stations as one data stream (See ECO-296).

NWS SOUNDINGS: (No new soundings this month.)

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

XDC DOCUMENTATION: Modified documentation for Landsat TM inventory:

http://www.arm.gov/data_viewers/sgp_surfchar/Landsat_TM.html

SERVER HARDWARE UPGRADES: (No new upgrades this month.)

TWP KWAJ AVHRR: Death certificate written for all AVHRR data streams.

FILE TRANSFER: The XDC sent 12,250 files with a volume of ~416 GB this month.

DMF:

SDS:

EOP:

GENERAL:

NSA:

SGP:

TWP:

7. SPENDING REPORT:

(Report sent under separate cover.)