

XDC MAY 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.

IT MEETIN: Laurie and Rick will attend the IT meeting at the SGP July 24 – 26 to prepare for taking on CSPHOT and SuomiNet responsibilities.

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-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/

<http://iop.archive.arm.gov/arm-iop/2006/twp/twp-ice/beringer-sfcflux/>

http://iop.archive.arm.gov/arm-iop/2006/twp/twp-ice/liu-ice_water_data/

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

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

http://iop.archive.arm.gov/arm-iop/sgpcloud/liu-ice_water_data/

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

<http://iop.archive.arm.gov/arm-iop/2004/nsa/mpace/mcfarquhar-microphysics/>

<http://iop.archive.arm.gov/arm-iop/2004/nsa/mpace/turner-mwrret/>

SPECIAL-DATA- Updated the following datasets:

<http://iop.archive.arm.gov/arm-iop/0special-data/asrc-rss/rss105/langley/2007/>

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

DMF:

4. ACCOMPLISHMENTS

NSA:

SGP:

TWP:

XDC:

ICRCCM: ICRCCM was announcement to the ARM news page, <http://www.arm.gov/about/news.stm>, and as Featured Data on the Data home page, <http://www.arm.gov/data/>.

ACRF METRICS: Added ACRF global map to the ARM Image library:
<http://images.arm.gov/ARMImages.nsf/All/734R4B?opendocument>

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

AOS CMDL: Completed reprocessing AOS data per BCR-1293 (name change suggestion replacing cmdl with noaa).

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. Upgraded version of gec30sumoigpsX1.c1 and sgp30suomigpsX1.c1 data streams are now available. We are still waiting for back-processed data.

RESEARCH HIGHLIGHTS: The Research Highlights application is completed on development. A new submittal form, new index pages and admin tools were added. Once the existing highlights are updated it will be published to the production server. 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. Data stream is ready to be released pending BCR-1390.

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

WEB SERVER: (No additional work this month.)

PEOPLE DATABASE: (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 when web servers are installed on new production machine.)

INSTRUMENT MAPS: Finalized the Central Facility instrument map in the ACRF GIS database.

GOOGLE MAPS: Began work on adding the Germany AMF instrument locations as a custom map using Google API scripting language.

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. (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.

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

GOOGLE BOX: The new Google Search Appliance is in the process of being installed, configured and tested. This will replace our existing software and hardware.

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: Continued work in support of ECO-00599 "Handling of PI Data Products" creating a preliminary set of metadata assignment/viewing/modifying tools.

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.

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. Once installed on production, the NSA data from Aug 2002 through Dec 2006 will be processed and made available. The ingest

now contains two additional stations for Stillwater, OK and has been released for testing on development (See ECO-296).

NWS SOUNDINGS: (No new soundings this month.)

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

XDC DOCUMENTATION: Updated the BoM C-Band polarimetric radar (CPOL) data documentation with published journal article:

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

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

FILE TRANSFER: The XDC sent 15,323 files with a volume of ~496 GB this month.

DMF:

SDS:

EOP:

GENERAL:

NSA:

SGP:

TWP:

7. SPENDING REPORT:

(Report sent under separate cover.)