

XDC FEBRUARY 2007 MONTHLY REPORT

1. LOOKING AHEAD

NSA:

SGP:

TWP:

XDC:

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

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.)

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

AMF IOP-DATA- Added data and/or documentation to the following:

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

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

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

http://iop.archive.arm.gov/arm-iop/2006/twp/twp-ice/austin-otter_radar/

<http://iop.archive.arm.gov/arm-iop/2006/twp/twp-ice/hacker-dimona/>

<http://iop.archive.arm.gov/arm-iop/2006/twp/twp-ice/hoeller-linet/>

<http://iop.archive.arm.gov/arm-iop/2006/twp/twp-ice/jakob-sonde/>

http://iop.archive.arm.gov/arm-iop/2006/twp/twp-ice/mech-microwave_profiler/

<http://iop.archive.arm.gov/arm-iop/2006/twp/twp-ice/reynolds-shipflux/>

<http://iop.archive.arm.gov/arm-iop/2006/twp/twp-ice/tooman-proteus/>

<http://iop.archive.arm.gov/arm-iop/2006/twp/twp-ice/whiteway-lidar/>

http://iop.archive.arm.gov/arm-iop/2006/twp/twp-ice/wofsy-proteus_co2/

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

(No new datasets added this month.)

SPECIAL-DATA- Albany's Rotating Shadowband Radiometer Data update:

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

SGP IAP 2006: Data were updated:

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

DMF:

4. ACCOMPLISHMENTS

NSA:

SGP:

TWP:

XDC:

DMF:

SDS:

EOP:

5. MEETINGS

NSA:

SGP:

TWP:

XDC: (No travel this month.)

EOP:

DMF:

SDS:

6. ISSUES

NSA:

SGP:

TWP:

GENERAL:

MANUS:

NAURU:

DARWIN:

XDC:

ARM POSTER SUBMISSION: A web form needed for a user upload to poster pdf files is undergoing testing (see EWO-12076). New admin tools will be added to approve, modify or delete poster pdf files.

RESEARCH HIGHLIGHTS: The Research Highlights application will be moved into DB to improve sorting and searching. A new web page layout is also needed. Min will design a draft plan before the ARM STM. See EWO-12055.

XDC METRICS: Looking into installing ARM system metrics.

ABRFC: Began work on merging ABRFC data into daily files and adding standard ARM time.

ARM POSTER SUBMISSION AND ADMINISTRATION: Added registration status page. See EWO-12038 for additional details.

ACRF USERS MAP: Documentation for producing the geographical distribution maps of the ACRF users for 2006 was added to EWO-12012.

WEB SERVER: Upgrading the ARM Web/database servers to prepare for the RSS newsfeed. Continued testing Apache for database connections to improve speed of web applications. The older perl scripts will need to be modified to work with the new server. Testing began on automating the perl script change process. Completed modifications to the Authentication and Authorization package. The Publish script has been updated to work with new development server.

ECMWF ASCII AMF: Submitted request for ECMWF diagnostic data for the AMF. Sent ECMWF information on coordinates for COPS sites across a transect from France to Germany. Waiting for feedback from ECMWF.

PEOPLE DATABASE: Modifications and improvements continue on the People DB (ECO-563). 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.)

ICRCCM-1 DATA: Waiting on final documentation of a sample set of model results (ATRAD) to be added to the Web site.

INSTRUMENT MAPS: Added the georectified aerial photograph to ARM Google site interface and created markers for the instruments (lat/lon locations exported from the ACRF GIS). Currently having difficulty getting the aerial photo in the correct location within the google tile and therefore aligning the markers properly. More next month.

GOOGLE MAPS: (See above.)

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

CIMEL DATA TRANSFER: Work began on using the Internet for Cimel data transfer rather than the GOES satellite uplink due to undetected transmitter failures (at SGP) and low sun angle (at NSA). SGP Cimel moved to the optical trailer near SWS. Both the SGP and Nauru Cimels are now installed and transferring data via the internet. The NSA Cimel is back at Aeronet and will also be reconfigured for internet data transfer when deployed again. Barrow is anticipating the return of the Cimel- the sun angle is rising again, modified for internet data transfer. See ECO-00555 for additional details.

CIMEL SUNPHOTOMETER: SGP CSPHOT was reconfigured to observed zenith radiance. However, instrument is “dropping” data now and is being sent back to Aeronet for diagnostics and repair. This also affects the return of a Cimel to NSA and FKB. Aeronet is taking this down time as an opportunity to add a new NIR channel to each Cimel being repaired and refurbished (see BCR-01333).

GLOBAL FORECAST SYSTEM (GFS) NCEP DATA: Visualizations are on hold due to higher priority work. Made modifications to some variable names. The data will be reprocessed to use new names.

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: Prepared DQPR and DQA databases for Germany AMF deployment. Continued work on DQPR statistics web page.

IOP METADATA TOOL: Began work on integrating new Archive db tables into existing IOP metadata tool code.

SARS: Worked on web page requested by Dick Eagan that displays remote access requests summary. Code development may be used for future access request summaries.

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.

NSA CRN RAINGAUGE: The datastream review has been completed. The ingest and collection script have been written to handle the subset of data available to us via ftp. Both scripts have been released to development for testing. Originally, data from mid-August 2006 on were valid but now data from Jan 2007 on are valid. Data from 2002 – 2006 have been reprocessed in late February by NOAA/CRN in a different format on

their ftp server. The collection script is being modified to handle the new format. In addition, two stations from Stillwater, OK will be added (See ECO-296).

NWS SOUNDINGS: (No new soundings this month.)

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

IOP DOCUMENTATION: (No new documentation this month.)

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

TWP KWAJ AVHRR: Processed data for 20070101 – 20010131.

FILE TRANSFER: The XDC sent 13,062 files with a volume of ~500 GB this month.

DMF:

SDS:

EOP:

GENERAL:

NSA:

SGP:

TWP:

7. SPENDING REPORT:
(Rick will send separately.)