

XDC FEBRUARY 2006 MONTHLY REPORT

1. LOOKING AHEAD

NSA:

SGP:

TWP:

XDC:

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

PROBLEM REPORTING FORMS: Need to develop detailed requirements (ECO-545).

GFS: Ingest gridded NCEP GFS data for Niamey, Niger.

XDC QUICKLOOKS: Provide variables and data range or plotting code to the Archive to produce quicklooks for the external data streams.

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- Updated cpm forcing data for the MPACE period

http://iop.archive.arm.gov/arm-iop/0pi-data/yio/cpm-forcing/iop_at_nsa/200410/

BETA-DATA- Tandem Differential Mobility Analyzer (TDMA) data from Texas A & M University

<http://iop.archive.arm.gov/arm-iop/0beta-data/tdma/>

SPECIAL-DATA- Continued to add data from the updated (hardware and software) AERI instrument. Needs to be compared to C1 system for several months.

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

Updated fourth quarter AOS data for the NSA and AMF

<http://iop.archive.arm.gov/arm-iop/0special-data/ogren-aos-nsa/>

<http://iop.archive.arm.gov/arm-iop/0special-data/ogren-aos-amf/>

Added Langley data to the RSS105 data from Albany

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

NSA MPACE 2004:

Updated Tooman's proteus documentation to provide a listing of files available offline from the Archive.

http://iop.archive.arm.gov/arm-iop/2004/nsa/mpace/tooman-proteus/request_other_data/

NSA AIRS VALIDATION 2006: Transferred February b1 data to the IOP area.

SGP IAP 2005: (No new data this month).

SGP AIRS VALIDATION 2006: Transferred February b1 data to the IOP area.

TWP AIRS VALIDATION 2005: Transferred February b1 data to the IOP area.

DMF:

4. ACCOMPLISHMENTS

NSA:

SGP:

TWP:

XDC:

SEEM 3: Upgraded development server to use SEEM 3 environment.

GOOGLE: The Google Search Appliance underwent two software upgrades (both systems and applications software) to solve a crawling problem. The Google box is now running the latest software release.

POSTER SUBMISSION: The work for the poster submission was officially completed this month and the EWO-11565 closed out.

DMF:

SDS:

EOP:

5. MEETINGS

NSA:

SGP:

TWP:

XDC:

EOP:

DMF:

SDS:

6. ISSUES

NSA:

SGP:

TWP:

GENERAL:

MANUS:

NAURU:

DARWIN:

XDC:

TOMS/OMI INGEST: The TOMS (Total Ozone Mapping Spectrometer) datastream has been replaced with OMI (Ozone Monitoring Instrument) data. The ingest and collection script have been modified. Data will start being processed soon (ECO 00553).

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.

MTSAT INGEST: The MTSAT data stream data are in the Archive. A user reported the data may not be consistent with the VISST data from NASA Langley (Minnis). After investigating both data, it was determined that the calibration equation was being used improperly to extract the HDF data. Both data are written in correct order and the mean TB differences are within 2k.

PHP VULNERABILITY: Work has begun on reducing the vulnerability in ARM PHP applications. The Research Highlights and People DB PHP Web applications have been updated. Data, Instruments, Measurements, and Education/Ask a Scientist are in review. Updated the IMMS and DQA systems to remove the “register_globals” vulnerability (EWO-11609).

ICRCCM-1 DATA: Continued locating shortwave and longwave ICRCCM modeled output data and standard atmospheric profiles in anticipation of making them available

through the IOP Browse Tool Web site. Bob Ellingson has agreed to unearth what he has and provide them to us.

INSTRUMENT MAPS: Continued to retrieve new and updated datasets for the SGP site, i.e. digital elevation model data, satellite data, aerial photographs.

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). See ECO-00555 for additional details. (No additional work this month.)

GLOBAL FORECAST SYSTEM (GFS) NCEP DATA: Work began on the visualizations for the GFS data stream. Working with the Archive to provide GFS quicklooks. Awaiting data from NCEP. (No new work this month.)

RAMAN LIDAR: Updating RL ingest to accommodate recent upgrade (EWO-00479). Brian Ermold continues to work on ingest, though Laurie Gregory is back.

CIMEL SUNPHOTOMETER: There have been problems and updates to the Cimel Sun-Photometer data. There was a satellite transmitter problem at the SGP Cimel from 5/7/05 – 9/14/05 (P050920.1). Also Aeronet has implemented a new algorithm on all sites. Data will need to be reprocessed. Some changes in processing have been proposed (P050923.1). A BCR will follow.

RSS105: A BCR was submitted for the ingest installation (BCR-01143). Data was ready to send to the Archive, but the DMF was having difficulty collecting the proper input data from the Albany ftp site. The DMF now has what it needs and rss-105 C1 data should be flowing to the Archive shortly. (Old rss-102 and rss-103 data will remain on the IOP Browse Tool, since the file format is different from rss-105.)

ETA MODEL DATA: Looking into archiving an ETA analysis dataset for the NSA to replace the data we have been collecting, which is large and in GRIB format. We have picked up new sample data from NCEP and are currently comparing the files to those files collected at Penn State to see if they will be suitable. See ECR-00476 for details. (Nothing new this month.)

TWP RAIN GAUGE DATA: An hourly global precipitation dataset (TD3505) provided through the National Climatic Data Center includes two stations each for Manus and Nauru. A BCR was submitted (BCR-00522) to track the discussion and determine whether this dataset is what is needed. NCDC has provided the ascii data back to 2003 free of charge via their Web interface. Currently matching the data with the NCDC documentation, with difficulty. NCDC has been contacted for assistance. (This work is on hold until after the ARM STM.)

IOP SPECIAL DATA: Moved “dummy” IOP entries in development into production for data under the special-data area of the IOP so they can be included in data searches. Next step is to add pi-instruments and metadata for each.

WEB PAGE DESIGNS: Began work on implementation of new/improved Field Campaign web page designs.

SAR (SITE ACCESS REQUEST) SYSTEM: Finished work on EWO-11451: Review Policy for Foreign National Cyber Access to ACRF systems. Waiting for Richard Eagan to submit BCR for moving updated SAR system to production.

SGP IAP: Lynn is working with Annette Koontz to install the CMDL IAP ingest and review data (BCR-00989). New fieldnames have been generated, and sample output files have been sent to for review. (No response this month.)

AMERIFLUX: Received flux data for Barrow (Atqasuk already received) for the period of the MPACE field campaign and delivered to the IOP Browse Tool. There was only rudimentary quality control on the data, though (during this time of year it is difficult for accurate eddy flux measurements) and it was suggested by the data deliverer that the data be additionally QC'd. Currently no one is available to do that QC (ECR-00288). No response from ECR request to re-evaluate the need for collecting AMERIFLUX data.

NSA CRN RAINGAUGE: An issue arose with automatically pulling the data from the NCDC Web site. Now ftp is not expected to be available until May to work this out. Awaiting feedback from NOAA/CRN on availability of public ftp site. Meanwhile the CRN code is in the standard ARM ingest format. It has been released for testing (ECO-00296).

NWS SOUNDINGS: QC'd high resolution soundings were received for December 2005 from NCAR. Both the netCDF and raw data have been sent to the ARM Archive (nsa06snwsupabrwX1, sgp06snwsupaddcX1, sgp06snwsupaounX1, sgp06snwsupatopX1).

IOP DOCUMENTATION: Joyce Tichler continues to enter metadata for IOPs. This month entered metadata for all the SCM IOPs.

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

XDC DOCUMENTATION: Entered XDC documentation for the new NOAA Climate Reference Network (NOAACRN).

SERVER HARDWARE UPGRADES: Migration of LINUX systems to the new backup server and client software upgrades were completed. The Legato backup system is now

fully operational and the old backup system removed from service. A new tape library is on order.

TWP MANUS PROCESSED AVHRR: Continued processing NOAA-16 2005 data.

TWP NAURU PROCESSED AVHRR: Continued processing NOAA-16 2005 data.

TWP KWAJ AVHRR: Processed data for 20060101 – 20060131.

DMF:

SDS:

EOP:

GENERAL:

NSA:

SGP:

TWP:

7. ONGOING XDC ENGINEERING TASKS