

XDC FEBRUARY 2005 MONTHLY REPORT

1. LOOKING AHEAD

NSA:

SGP:

TWP:

XDC:

ARM WEBPAGE: Several tasks in support of the new Archive shopping cart application for ACRF data products.

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

EXTERNAL DATA STREAMS: Reviewing all external data streams with the Science Working Groups in the upcoming months using reports generated by the Archive from BODS. Plan to review measurement descriptions entered in BODs for consistency across data streams. Reorganize links to XDS docs to fit new shopping cart application.

IOP SPECIAL DATA: ARM needs to make a decision on how to store these data permanently at the regular ARM Archive. Currently the special data datasets are only on the IOP Browse Tool.

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:

NSA MPACE: Managed the following data in the IOP area:

verlinde-sonde- removed barrow sounding data and replaced with ucar-sonde
xie-klein-eta (replaced previous dataset)
xie-klein-ecmwf (replaced previous dataset)
ucar-sonde- placed high resolution soundings from UCAR in netCDF format as auxiliary data
sassen-lidar- added final data

CPM-FORCING: Provided documentation in this special data area which contains both continuous data sets for model forcing and data sets for individual ARM IOPs, produced for the CPM WG, using the Constrained Variational Analysis method.

0special-data/cpm-forcing/continuous_at_sgp/
0special-data/cpm-forcing/iop_at_sgp/

ARM-LBNL-CARBON: Populated the arm-noaa subdirectory with the latest flask (at the PGS tower), surface data (60m tower), and aircraft data.

0special-data/arm-lbnl-carbon/arm-noaa/

OSC CRYSTAL FACE 2002: (No data moved this month.)

DMF:

4. ACCOMPLISHMENTS

NSA:

SGP:

TWP:

XD:****

SARS- SITE ACCESS REQUEST SYSTEM: Completed BCR-01013 “Site and Computer Access Request System- minor textual change”

ARM WEB PAGE: Created new Product DB for Cameron’s instruments, facilities, data streams and measurements tables.

FTP PROBLEMS: FTP performance problems in collecting large datasets, such as ruc, has resolved. In the last month, either a new server installation at NCEP or changing the timing of data collection at BNL (or both!) has solved the problem.

DMF:**SDS:****EOP:****5. MEETINGS****NSA:****SGP:****TWP:****XD**:****

Rick Wagener and Kathy Doty traveled to PNNL February 2 – 8, 2005 to discuss ACRF Web interface and Archive data ordering integration.

EOP:**DMF:****SDS:****6. ISSUES**

NSA:

SGP:

TWP:

GENERAL:

MANUS:

NAURU:

DARWIN:

XDC:

SARS: Kathy completed a Site Access Request System frequently asked questions brochure for the STM.

DQPR: Kathy completed updating the frequently asked questions brochure for the STM.

DQA- DATA QUALITY ASSESSMENT REPORT SYSTEM: Continuing work on ECO-00460 “Modify the Data Quality Analysis Report tool e-mail distribution lists”. Completed BCR-01014- DQA Report System- upgrade.

SGP IAP: Laurie is working with Annette Koontz to install the CMDL IAP ingest and review data (BCR-00989).

OK MESONET: The 30 minute soil moisture data ingest was updated by Min Liang to process the sgpokmX1.b1 datastream for 1998-2003. While updating the BODS some inconsistencies were discovered. All data prior to October 2002 was not properly QA'd and will be dropped. In addition the Soil Water Potential variable will be dropped since it can be calculated from the Sensor Temperature Rise variable. See BCR-01001 for complete discussion.

NSA AVHRR: Picking up and processing the raw data using bbftp. Lynn is working on the 2004 backlog data. Currently 200409 – 200412 have been processed.

TWP GOES9 SATELLITE COMPOSITES: The new program to generate true color composite images for GOES9, which is similar to SGP GOES8/12, is completed and under review (ECO-00450). No change this month.

AMERIFLUX: Began looking into retrieving data for the period of the MPACE field campaign, as well as ongoing data for the NSA (ECR-00288). Identified contacts for the Barrow site data. It may be that data for the MPACE period have already been processed.

NSA SONDES: The modifications to the code from Gary Hughes (MRC) for converting high resolution sounding data (from NCAR) in ASCII format to netCDF format to ARM standards are completed (see ECO-00457). The ingest will go into production next month.

CSPHOT: The ingest and the collection script are ready to be released for CSPHOT data. New data streams for Darwin and NSA will soon be available (BCR-01012, EWO-11214).

NSA CRN RAINGAGE: The ingest development for collecting the Climate Reference Network (CRN) Rain gage data is ongoing (ECO-00296). Awaiting feedback regarding netCDF variables to include from interested parties.

BIRTH OF A DATA STREAM (BODs): Updated entries for MOLTS (time_offset) and XDC TAO buoy data (added new measurements) using the web-based interface. Entered the following data streams via spreadsheets:

sgpgoes12minnis-acfX1.c1
sgpgoes7minnis-acfX1.c1
sgpgoes8minnis-acfX1.c1
sgpgoes7minnis-acfX1.c1

XDC DOCUMENTATION: Updated documentation for XDC TAO buoy and Oklahoma Mesonet (soil wetness data).

IOP DOCUMENTATION: Joyce Tichler is reviewing contents of IOP web pages for clarity and completeness.

SERVER HARDWARE UPGRADES: Configuration of the RAID storage array and terminal server for the new XDC hardware continues. Received wrong CISCO Gig E switch. Working with vendor to correct the problem. It may require a \$2k additional cost out of operational funds.

SGP RUC: An ECR was submitted for a RUC 40km Data Sub-setting Utility (software tool) for the ARM SGP CART Site (ECR/ECO-00405). No new progress this month.

TWP MANUS PROCESSED AVHRR: Hovmuller diagrams under review. Processing NOAA-16, 2004.

TWP NAURU PROCESSED AVHRR: Hovmuller diagrams under review. Processing NOAA-16, 2004.

TWP KWAJ AVHRR: (No new data processed this month.)

TWP GRIB ECMWF: Processed data covering 20050101 – 20050131.

DMF:

SDS:

EOP:

GENERAL:

NSA:

SGP:

TWP:

7. ONGOING XDC ENGINEERING TASKS

WEBSERVER UPGRADE: (Nothing new this month.)