

XDC APRIL 2005 MONTHLY REPORT

1. LOOKING AHEAD

NSA:

SGP:

TWP:

XDC:

ARM WEBPAGE: Will be involved in several tasks in support of the new Archive shopping cart application for ACRF data products.

EXTERNAL DATA STREAMS: Reviewing 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 stored **ONLY** on the IOP Browse Tool.

XDC QUICKLOOKS: Provide variables and 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:

NWS SOUNDINGS: The following NWS high resolution soundings data are available in netCDF from the Archive for Barrow, AK, Dodge City, KS, Topeka, KS and Norman, OK. See XDC Documentation (www.arm.gov/xds/static/nwsupa.stm) for details:

- nsa06snwsupabrwx1.b1
- sgp06snwsupadcx1.b1
- sgp06snwsupatopx1.b1
- sgp06snwsupaounx1.b1

CSPHOT: The following Cimel Sunphotometer data streams are available in netCDF from the Archive for the Barrow and Darwin sites. See XDC Documentation (www.arm.gov/xds/static/csphot.stm) for details:

- nsacsphotalmC1.a1
- nsacsphotalm1duboC1.a1
- nsacsphotaotC1.a1
- nsacsphotaotfiltC1.a1
- nsacsphotaotfiltqaC1.a1
- nsacsphotcoarsepfn1C1.a1
- nsacsphotfinepfn1C1.a1
- nsacsphottotalpfn1C1.a1
- nsacsphotppC1.a1
- nsacsphotosizeC1.a1
- twpcsphotalmC3.a1
- twpcsphotalm1duboC3.a1
- twpcsphotaotC3.a1
- twpcsphotaotfiltC3.a1
- twpcsphotaotfiltqaC3.a1
- twpcsphotcoarsepfn1C3.a1
- twpcsphotfinepfn1C3.a1
- twpcsphottotalpfn1C3.a1
- twpcsphotppC3.a1
- twpcsphotosizeC3.a1

DATASETS SUBMITTED TO THE IOP BROWSER THROUGH THE XDC:

NSA AIRS VALIDATION 2005 – IOP began on April 25 (SGP and TWP expected to begin in July).

NSA MPACE 2004: Managed the following data in the IOP area:

heymfield-cpi – added processed data and sent raw data to Archive

poellot-citation – added final data

zak-sonde – updated documentation

ameriflux-sfcflux- added Atqasuk as auxiliary IOP data (continue to wait for Barrow)

AMF/AOS CMDL – Set up a special data area on the IOP Browse Tool for AOS data from CMDL and loaded the first quarter ascii data and documentation.

0special-data/ogren-aos-amf/

OSC CRYSTAL FACE 2002: (No work this month.)

DMF:

4. ACCOMPLISHMENTS

NSA:

SGP:

TWP:

XDC:

TWP GOES9 SATELLITE COMPOSITES: The new program to generate true color composite images for GOES9, which is similar to SGP GOES8/12, is completed (ECO-00450, BCR-01018).

NSA/SGP 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 and BCR-01020). The ingest is in production (see NEW DATA STREAMS Section above).

OK MESONET 30MIN: Changes to the ingest are completed and all backlog data processed and sent to the Archive (See BCR-01011).

CSPHOT: The ingest and the collection script have been released for CSPHOT data. New data streams for Darwin and NSA are available (BCR-01012, EWO-11214). See NEW DATASTREAMS Section above.

DMF:

SDS:

EOP:

5. MEETINGS

NSA:

SGP:

TWP:

XDC:

Laurie Gregory attended the ACRF Developers Meeting at ORNL April 13 and 14. She presented details about external data streams that cross the line between external and internal data.

EOP:

DMF:

SDS:

6. ISSUES

NSA:

SGP:

TWP:

GENERAL:

MANUS:

NAURU:

DARWIN:

XDC:

GOOGLE.ARM.GOV: Installed and configured arm.gov's google search appliance. Will be in production soon (EWO-00461, BCR-01052).

ETA MODEL DATA: ETA model data is under review. Discussions are underway to determine whether to ingest or terminate the data stream. Currently seeking more information about the dataset to facilitate a solution. See ECR-00476 for details.

SARS: Kathy continues to work on ECR-00475 "Improvements to the Site And Computer Access System". BCR-01013 "SARS-minor textural change" has been closed.

ACRF WEB: Working on modifications to both the DQA and IMMS applications to be able to provide a link on the ACRF Instrument Web pages to these systems. The link will bring the user to the latest report (DQA or IMMS) for the particular instrument of the instrument page being reviewed. Progress continues to be made on development for the Research Highlights. See EWO-11297 for details.

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

PT REYES: The first quarter CMDL AOS data for Pt. Reyes AMF arrived (BCR-01033). An EWO was submitted to provide MOLTS data for Pt. Reyes (EWO – 11306). Work had begun on collecting RUC data for PYE (EWO-11374). Alice continues to collect geographic data for Pt. Reyes.

NSA AVHRR: Picking up and processing the raw data using bbftp. Lynn continues to work on the 2004 backlog data.

AMERIFLUX: Received flux data for Atqasuk (awaiting Barrow) for the period of the MPACE field campaign and delivered to the IOP Browse Tool (see IOP section above). Next step is to set up ongoing data retrieval from AMERIFLUX for the NSA (ECR-00288).

NSA CRN RAINGAGE: The ingest development for collecting the Climate Reference Network (CRN) Rain gage data is on hold (ECO-00296), though critical feedback did arrive regarding netCDF variables to include in ingest.

XDC DOCUMENTATION: Updated documentation (www.xdc.arm.gov/xds) for the following:

NWS Upper Air Soundings- added Ed Westwater's findings on inaccuracies in upper levels for relative humidity data from soundings

IOP DOCUMENTATION: Joyce Tichler continues to review contents of IOP web pages for clarity and completeness. She has begun to add a "key measurements" line to README.html files. She is compiling a list of measurements that are in IOP campaign data but not on "ARM Primary Measurement Term" list compiled by Darcy Short.

SERVER HARDWARE UPGRADES: Configuration of the RAID storage array and terminal server for the new XDC hardware continues. The new development web server is named xpcand.xdc.arm.gov.

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: NOAA-17 2003 Kwajalein Hovmuller diagrams are being reprocessed by RSMAS. Continue processing NOAA-16, 2004.

TWP NAURU PROCESSED AVHRR: NOAA-17 2003 Kwajalein Hovmuller diagrams are being reprocessed by RSMAS. Continue processing NOAA-16, 2004.

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

TWP GRIB ECMWF: Data are now arriving via ftp rather than tape and are managed automatically. As such they will no longer be included in the report.

DMF:

SDS:

EOP:

GENERAL:

NSA:

SGP:

TWP:

7. ONGOING XDC ENGINEERING TASKS