ACRF Ingest Software Status:
New, Current, and Future

Revision 5

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Introduction

The purpose of this report is to provide status of the ingest software used to process instrument data for the Atmospheric Radiation Measurement (ARM) Climate Research Facility (ACRF). The report is divided into four sections: (1) news about ingests currently under development, (2) current production ingests, (3) future ingest development plans, and (4) information on retired ingests. Please note that datastreams beginning in “xxx” indicate cases where ingests run at multiple ACRF sites, which results in a datastream(s) for each location.

Readers of this status report may want to consult our current list of instrument mentors at http://www.arm.gov/instruments/mentors.php or our list of software developers at http://engineering.arm.gov/engr/task/developercontacts.stm.

Also useful is the current datastream status, presented from the ARM Data Management Facility (DMF) perspective, which can be found at http://c1.dmf.arm.gov/ds/dsview/gui/datastream.php.

**Hint:** Select the “Login as Guest Account” option. Depending on the speed of your internet connection, it may take a few minutes for the complete display to generate. Datastream status for the current calendar month will be displayed. The legend (visible in the upper right hand area) will help you understand the display. In addition, the number (ideally 24.0) indicates the number of hours of data for the day in question.

For those who are interested in the contents of datastreams generated by ARM software, refer to the data object design files at http://science.arm.gov/tool/dod/showdod.php.
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1. **Ingest News**

1.1 **In Development**

We are currently working on the following ingests:

- mwrhf\_ingest
- sws\_ingest
- gvrp\_ingest
- smos\_ingest
- tps\_ingest

1.2 **In Production**

- aeri\_ingest
- amfmet\_ingest
- aos\_ingest
- disdrometer\_ingest
- ebbr\_ingest
- ecor\_ingest
- gyv\_ingest
- iapmfr\_ingest
- jrt\_ingest
- irthr\_ingest
- met\_ingest
- metrad\_ingest
- mettwr\_ingest
- mfrcdl\_ingest
- mfr\_ingest
- mmcrmom\_ingest
- mmcr\_spec\_filter
- mplpol\_ingest
- mwr\_ingest
- mwprp\_ingest
- nfov2ch\_ing
- org\_ingest
- rain\_ingest
- rss\_ingest
- rwp\_ingest
- sirs\_ingest
- smet\_ingest
- smor\_ingest
- smos\_ingest
- sonde\_ingest
- surthref\_ingest
- swats\_ingest
- ssws\_ingest
- thwaps\_ingest
- tps\_ingest
- tsi\_ingest
- twr\_ingest
- vceil\_ingest
- waer\_ingest
- waer\_spectra\_filter

1.3 **Reprocessing Tasks**

The purpose of this section is to present active reprocessing tasks. In some cases, significant software development is required and research into historical calibration records. Reprocessing tasks are identified by a Reprocessing Identification (RID) number.

**RID-4 SGP.C1 MPL**

Mentor: Rich Coulter, ANL  
Developer: Annette Koontz, PNNL  
Reprocessor: Bill Jackson, ORNL  
Status: Review  
Date range: TBD
Description:

The SGP_C1 MPL data for 2000/02/29-2000/03/06 were ingested out of sequence resulting in multiple
data files per day. These data were reprocessed by Annette Koontz in October 2007 and she determined
for the original processing too many files at one time had been thrown at the ingest. She reprocessed all
of 2000 and made those data available to Chaomei Lo (per special request). The data were not archived.

RID-179 SSS.Fn SIRS/GNDRAD/SKYRAD

Mentor: Tom Stoffel, NREL
Developer: Brian Ermold, PNNL
Reprocessor: Bill Jackson, ORNL
Status: On hold pending calibration record review
Date range: 2002-2006

Description:

The longwave calibration procedures were changed in SIRS/GNDRAD/SKYRAD data loggers as early as
July 2003. This calibration method change resulted in an error in the longwave data. The previous
calibration method was put back into place at all sites by February 2006.

The Solar and Infrared Station (SIRS) data reprocessing is complete. The ARM Mobile Facility (AMF)
GNDRAD and SKYRAD reprocessing is complete. The Tropical Western Pacific (TWP) and North
Slope of Alaska (NSA) GNDRAD and SKYRAD reprocessing are on hold pending review of calibration
records and modification of the old smor_ingest to process the data.

RID-203 SSS.Fn MWR

Developer: Annette Koontz, PNNL
Reprocessor: Annette Koontz, PNNL, and Bill Jackson, ORNL
Status: Complete: TWP.C1, TWP.C2, NSA.C2, PYE.M1
In process: NSA C1, SGP B1, SGP B4, SGP B5, SGP B6, SGP C1
Date range: end-to-end (through 2005/2006)

Description:

The MWR retrieval algorithm was modified (most recently) in June 2005. This end-to-end reprocessing
of all MWR data will apply the latest retrieval algorithm to all MWR data through time and result in a
consistent DOD through time.

The mwr_retrieval software is used to apply a new retrieval to a specific set of days for a specified
instrument, as determined by the mentor.

The recalib_mwrlos software is used to apply correct calibrations to the MWRLOS data. It is executed,
over a specific set of days for a specified instrument, as determined by the mentor.

In addition, several special purpose scripts are used to reformat the historical MWRLOS data into the
current DOD format. These scripts are needed to handle the MWRLOS data for time periods for which
the raw data are in an old format, not compatible with the current ingest software.
RID-307  TWP.Cn/PYE.M1 SMET

Developer: Brian Ermold, PNNL
Reprocessor: Bill Jackson, ORNL
Status: PYE complete; TWP.Cn data 2004-2006 pending review
Date range: 1996-2006/07/13

Description:

On 2006/07/13, the units of Barometric pressure data changed from hPa to kPa to standardize the measurement units among ACRF sites and to conform to accepted standard units determined by the scientific community. Data reprocessing is required to make historical data conform to new units.

NOTE: Reprocessing of old format data (TWP.Cn 1996-2004) will require an ingest update.

RID-312  SSS.Fn MWR-TIP

Developer: Annette Koontz, PNNL
Reprocessor: Annette Koontz, PNNL, and Bill Jackson, ORNL
Status: Waiting for final DOD review by Robin
Date range: end-to-end (through March 2007)

Description:

The MWRTIP DOD was modified effective 2007/04/01 to add a tip angle dimension in addition to the time dimension to correct a problem with tip angles being reported out of sequence. This end-to-end reprocessing of all MWRTIP data will result in a consistent DOD through time.

mwrtip retrieval 1.0-0 2008/02/04 per Baseline Change Request (BCR) 1450

The mwrtip_retrieval software is used to apply new retrievals per BCR 984 to MWRTIP data. Most of the historical MWR data requires reprocessing because it has been determined that the retrievals used on the instrument computer were in error. This software applies new retrievals to the MWRTIP data to correct the affected fields. The software has been released into production, but has not been executed yet, pending a final review of the results.

reformat mwrtip 1.0-0 2008/02/04 per BCR 1450

The reformat_mwrtip software is used to reformat the MWRTIP data per BCR 1385. The historical MWRTIP data are reconstructed to conform to the new DOD structure. After this step is complete, the data may need to be further processed via the mwrtip_retrieval software. The software has been released into production, but has not been executed pending a final review of the results.

RID-352  SSS.Fn MFRSR/MFR10m/MFR25m

Developer: Annette Koontz, PNNL
Reprocessor: Annette Koontz, PNNL
Status: On hold pending calibration records from mentor
Date range: end-to-end (through 2007/08/31)
Description:

A new method of Multifilter Rotating Shadowband Radiometer (MFRSR) calibration adopted/finalized October 2007 resulted in a new DOD. DMF reprocessed all MFRSR data for all sites beginning 2007/09/01 and all FKB MFRSR data. Historical reprocessing is proceeding (slowly) as the mentor makes available the required calibration records. Complete: NSA.C1, NSA.C2, FKB.M1, SGP.C1, SGP.E13, SGPMFR10m, SGPMFR25m.

Active reprocessing: TWP C1, TWP C2, TWP C3

NOTE: mfr10m and mfr25m processing is done using prior calibration methods. There has been some talk of converting this processing to the new calibration method, but no work has been done toward that end.

RID-358  SSS.Fn LANGLEY

Developer: Annette Koontz, PNNL
Reprocessor: Bill Jackson, ORNL
Status: Follow-on task to RID-352
Date range: end-to-end

Description:

This reprocessing task is to run the Langley Value-added Product (VAP) using new MFRSR and Normal Incidence Multifilter Radiometer (NIMFR) input following RID-352 completion.

Active reprocessing: SGP C1, SGP E13 completed, in review

TWP C1 and TWP C2 being processed

RID-359  SSS.Fn MFRSR-OD

Developer: Annette Koontz, PNNL
Reprocessor: Bill Jackson, ORNL
Status: Follow-on task to RID-358
Date range: end-to-end

Description:

This reprocessing task is to run the mfrod1barnmich VAP new Langley and MFRSR/NIMFR input following RID-358 completion.

Active reprocessing: SGP C1, SGP E13 completed, in review

RID-360  SGP.C1 MWRHF

Developer: Sutanay Choudhury, PNNL
Reprocessor: TBD
Status: On hold pending resolution of duplicate sample times
Date range: 2006/11/03-2007/04/02
Description:

The DOD says pressure is measured in kPa, but data are in hPa. The ingest is being modified to convert the data to kPa. New quality check (QC) limits are also being applied.

RID-365 SSS.Fn QCRad1Long

Developer: Yan Shi, PNNL
Reprocessor: Yan Shi, PNNL
Status: Recently archived TWP C1, TWP C2, TWP C3, NSA C1, NSA C2
Date range: end-to-end

Description:

Originally, processed data had frequent NaNs. The VAP is being modified to remove the NaN values.

RID-388 SSS.Fn AOS

Developer: Annette Koontz, PNNL
Reprocessor: Robin Perez, PNNL (coordinator)
Status: Metadata cleanup
Date range: end-to-end

Description:

End-to-end reprocessing to result in consistent DOD and datastream naming through time.

RID-402 SSS.Fn NIMFR

Developer: Annette Koontz, PNNL
Reprocessor: Annette Koontz, PNNL
Status: SGP NIMFR C1 Archived, NSA NIMFR C1 and NSA NIMFR C2 not started
Date range: end-to-end (through 20070831)

Description:

A new method of Multifilter Radiometer (MFR) calibration adopted/finalized October 2007 resulted in a new DOD. DMF reprocessed all NIMFR data beginning 2007/09/01. SGP.C1 historical reprocessing is complete on reprocl but is waiting for mentor review before archival.

RID-433 NSA.X1 AOS CCN

Developer: Annette Koontz, PNNL
Reprocessor: Annette Koontz, PNNL
Status: Completed 2008/01/30
Date range: 2007/09/08

Description:

Corrupt NSA Aerosol Observing System (AOS) cloud condensation nuclei (CCN) raw data were corrected by the mentor and reprocessed.
**RID-435  FKB.M1 MWRP**

Developer: Annette Koontz, PNNL  
Reprocessor: Annette Koontz, PNNL  
Status: Completed 2008/01/16  
Date range: 20070917-20071009

**Description:**

Recalibration.

Software, `recal_mwrp`, has been written to recalibrate the MWRP data. This software requires occasional modification depending upon the nature of a specific recalibration task.

**RID-440  SSS.Fn AOS CCN**

Developer: Annette Koontz, PNNL  
Reprocessor: Annette Koontz, PNNL  
Status: Completed 2008/01/24  
Date range: end-to-end

**Description:**

End-to-end reprocessing is required to correct invalid missing data values in AOS CCN data. Complete: FKB.M1, NIM.M1, PYE.M1, SGP.C1.

**RID-445  PYE.M1 AOS NOAA-FitRH**

Developer: Annette Koontz, PNNL  
Reprocessor: Bill Jackson, ORNL  
Status: Pending review  
Date range: 2005/03/09-2005/09/15

**Description:**

Correct error in AOS NOAA-FitRH ingest. Data were processed in January 2008.

**RID-446  NIM.M1 AOS NOAA-FitRH**

Developer: Annette Koontz, PNNL  
Reprocessor: Bill Jackson, ORNL  
Status: On hold pending RID-445 review  
Date range: 2005/11/19-2006/12/31

**Description:**

Correct error in AOS National Oceanic and Atmospheric Administration (NOAA)-FitRH ingest. Data were reprocessed in December 2007, but another problem was found during data review. Need to re-reprocess.
RID-447  SGP.C1 AOS NOAA-FitRH

Developer: Annette Koontz, PNNL
Reprocessor: Bill Jackson, ORNL
Status: On hold pending RID-445 review
Date range: 2007/05/19-2007/09/30

Description:
Correct error in AOS NOAA-FitRH ingest. Data were reprocessed in December 2007, but another problem was found during data review. Need to re-reprocess.

RID-448  FKB.M1 GNDRAD

Developer: Brian Ermold, PNNL
Reprocessor: Bill Jackson, ORNL
Status: Reprocessed 2008/02/18, pending review
Date range: 2007/05/19-2007/09/30

Description:
Recalibration. This resulted in two additional sensor recalibrations.

RID-450  NSA.C1 SKYRAD

Developer: Brian Ermold, PNNL
Reprocessor: Bill Jackson, ORNL
Status: Reprocessed 2008/02/25, pending review
Date range: 2007/10/03-2007/10/25

Description:
Recalibration.

RID-451  NSA.C1 GNDRAD

Developer: Brian Ermold, PNNL
Reprocessor: Bill Jackson, ORNL
Status: Reprocessed 2008/02/25, pending review
Date range: 2007/10/04-2007/10/25

Description:
Recalibration.

RID-457  TWP.C2 GNDRAD

Developer: Brian Ermold, PNNL
Reprocessor: Bill Jackson, ORNL
Status: Reprocessed 2008/02/25, pending review
Description:

Recalibration.

RID-458  TWP.C2 SKYRAD

Developer: Brian Ermold, PNNL
Reprocessor: Bill Jackson, ORNL
Status: Reprocessed 2008/02/25, pending review

Description:

Recalibration.

RID-459  NSA.C1 AERI

Developer: Brian Ermold, PNNL
Reprocessor: Dave Turner, UWise
Status: Completed 2008/01/09
Date range: 2007/11/01-2007/11/28

Description:

Recalibration.

RID-462  SGP.C1 AOS CCN

Developer: Annette Koontz, PNNL
Reprocessor: Annette Koontz, PNNL
Status: Completed 2008/02/01
Date range: 2007/05/30-2007/06/01

Description:

Corrupt SGP AOS CCN raw data were corrected by the mentor and reprocessed.

RID-465  SSS.Fn SONDE

Developer: Annette Koontz, PNNL
Reprocessor: Nicole Keck, PNNL
Status: Completed 2008/01/24
Date range: 2007/12/17-2008/01/06

Description:

Intermittent reprocessing of sonde data from all sites to correct bad surface measurements of temperature and/or RH.
RID-466 TWP.C3 MPLPOL

Developer: Annette Koontz, PNNL  
Reprocessor: Nicole Keck, PNNL  
Status: Completed 2008/01/11  
Date range: 2007/12/11-2007/12/19

Description:

Reprocessing resulted in some fill values being added so the number of range bins is as expected for the MPLPOLAVG VAP. VAP was post-processed.

RID-467 NSA.C1 AERI

Developer: Brian Ermold, PNNL  
Reprocessor: Dave Turner, UWISC  
Status: Reprocessed 2008/02/19; reviewing, questions for mentor  
Date range: 2007/12/17-2008/02/13

Description:

Recalibration.

RID-468 SSS.Fn SONDE

Developer: Annette Koontz, PNNL  
Reprocessor: Nicole Keck, PNNL  
Status: Completed 2008/02/06  
Date range: 2008/01/11-2008/01/15

Description:

Intermittent reprocessing of sonde data from all sites to correct bad surface measurements of temperature and/or RH.

RID-470 TWP.C1 SONDE

Developer: Annette Koontz, PNNL  
Reprocessor: Nicole Keck, PNNL  
Status: Completed 2008/02/12  
Date range: 2007/12/29-2008/01/15

Description:

Raw TWP.C1 SONDE data were missing wind data. Mentor reprocessed from the binary raw and data were reprocessed.
RID-472  SSS.Fn SONDE

Developer: Annette Koontz, PNNL
Reprocessor: Nicole Keck, PNNL
Status: Completed 2008/02/22
Date range: 2008/01/17-2008/01/23

Description:

Intermittent reprocessing of sonde data from all sites to correct bad surface measurements of temperature and/or RH.

RID-473  SGP.C1 RAIN

Developer: Sutanay Choudhury, PNNL
Reprocessor: Nicole Keck, PNNL
Status: Hold pending additional ingest updates required
Date range: 20071106-current

Description:

Ingest updated to properly handle missed raw data files. Data reprocessed 2008/01/31. Ingest is still missing some raw data files and metadata are not being properly filled in netcdf header.

RID-474  PYE.M1 AOS CCN

Developer: Annette Koontz, PNNL
Reprocessor: Annette Koontz, PNNL
Status: Completed 2008/02/11
Date range: 2005/04/01-2005/04/04

Description:

Corrupt PYE AOS CCN raw data were corrected by the mentor and reprocessed.

RID-475  SSS.Fn SONDE

Developer: Annette Koontz, PNNL
Reprocessor: Nicole Keck, PNNL
Status: Completed 2008/02/22
Date range: 2008/01/24-2008/01/30

Description:

Intermittent reprocessing of sonde data from all sites to correct bad surface measurements of temperature and/or RH.
RID-480  SSS.Fn SONDE

Developer: Annette Koontz, PNNL
Reprocessor: Nicole Keck, PNNL
Status: In Process
Date range: 2008/01/31-2008/02/10

Description:
Intermittent reprocessing of sonde data from all sites to correct bad surface measurements of temperature and/or RH.

RID-481  SSS.Fn SONDE

Developer: Annette Koontz, PNNL
Reprocessor: Nicole Keck, PNNL
Status: In Process
Date range: 2008/02/15-2008/02/20

Description:
Intermittent reprocessing of sonde data from all sites to correct bad surface measurements of temperature and/or RH.

1.4 Retired Ingests

This section lists ingest software that has been retired from production.

- cm_ingest
- cmh_ingest
- issrwpcons_ingest
- isssonde_ingest
- mfrirt_ingest
- mncr_ingest
- mplps_ingest
- noaaaos_ingest

2. Ingest Details

In the following sections, we will provide very basic information about the ingest software currently running in production. We list the mentor, lead developer, backup developer, basic information about the processing done by the ingest, and the current operational status. Detailed instrument information can be found at [http://www.arm.gov/instruments/](http://www.arm.gov/instruments/).

2.1 aeri_ingest

Mentors: Dave Turner and Ralph Dedecker, UWISC
Lead Developer: Brian Ermold, PNNL
Backup Developer: Sutanay Choudhury, PNNL
Current Version: 8.0-0, 2006/10/31
Status: Running
Recent BCRs: 1241, 1212, 1202
Description:

The aeri_ingest is used to read raw data generated by the Atmospherically Emitted Radiance Interferometer (AERI). The following datastreams are generated:

- xxxaerich1Fn.b1, channel 1 data
- xxxaerich2Fn.b1, channel 2 data
- xxxaeriengineerFn.b1, contains engineering data
- xxxaerisummaryFn.b1, summary data

2.2 amfmet_ingest

Mentor: Mike Ritsche, ANL
Lead Developer: Sutanay Choudhury, PNNL
Backup Developer: Brian Ermold, PNNL
Current Version: 2.0-0, 2006/09/07
Status: Online
Recent BCRs: 1395

Description:

Database entries were updated.

The amfmet_ingest is used to read raw data generated by the AMF surface meteorology measurements. The following netCDF (i.e., network common data format) datastream is generated:

- xxxmetFn.b1
- xxxcmhFn.b1

2.3 aos_ingest

Mentor: John Ogren, NOAA
Lead Developer: Annette Koontz, PNNL
Backup Developer: Brian Ermold, PNNL
Current Version: 9.6-0, 2007/11/19
Status: Running
Recent BCRs: 1430, 1374, 1293, 1282

Description:

A new release of the aos_ingest (BCR 1430) corrects parsing of the missing value codes from NOAA’s datastream, xxxaosccnFn.a1.

The following datastreams are generated:

- xxxaosFn.a1
- xxxaosauxFn.a1
- xxxaosccnFn.a1
2.4 cmdlaos_ingest

Mentor: John Ogren, NOAA
Lead Developer: Annette Koontz, PNNL
Backup Developer: Brian Ermold, PNNL
Current Version: 9.8-0, 2008/01/23
Status: Running

Description:

This ingest is run at the XDC to process AOS data that has been quality-checked by the mentor at NOAA. It is used to generate the following datastreams: The cmdlaos_ingest was recently updated to correct f(RH) logic. The cmdlaos_ingest generates the following datastreams:

- xxxnoaaaosFn.b0
- xxxnoaaaosavgFn.b0
- xxxnoaaaosfithrFn.b0

2.5 cm_ingest

Mentor: TBD
Lead Developer: TBD
Backup Developer: TBD
Current Version: 7.7-0, 2003/10/09
Status: TBD

Description:

The cm_ingest processed data collected from chilled mirror instrumentation at the Southern Great Plains (SGP) site. It produced the following datastreams:

- xxxcmFn.b1
- xxxcm25mFn.b1
- xxxcm60mFn.b1

2.6 cmh_ingest

Mentor: TBD
Lead Developer: TBD
Backup Developer: TBD
Current Version: 7.5-0, 2003/05/28
Status: TBD

Description:

The cmh_ingest processed data collected from chilled mirror hygrometer instrumentation at the NSA Barrow (C1) and Atqasuk (C2) facilities. It produced the following datastreams:

- xxxcmhFn.b1
2.7 disdrometer_ingest

Mentor: Mary Jane Bartholomew, Brookhaven National Laboratory (BNL)
Lead Developer: Sutanay Choudhury, PNNL
Backup Developer: Brian Ermold, PNNL
Current Version: 2.1-0, 2007/04/23
Status: Running
Recent BCRs: 1362, 1346, 1251, 1156

Description:

This ingest was upgraded to handle large files. The disdrometer_ingest is used to read data from disdrometer instruments. Disdrometers are used to collect data from tipping bucket rain gauges. The following netCDF datastreams are generated:

xxxdisdrometerFn.b1

2.8 ebbr_ingest

Mentor: David Cook, ANL
Lead Developer: Sutanay Choudhury, PNNL
Backup Developer: Brian Ermold, PNNL
Current Version: 8.1-0, 2006/09/05
Status: Running
Recent BCRs: 1036, 674

Description:

The ebbr_ingest reads data from the Energy Balance Bowen Ratio (EBBR) system. The following datastreams are generated:

xxx5ebbrFn.b1, 5-minute data
xxx15ebbrFn.b1, 15-minute data
xxx30ebbrFn.b1, 30-minute data

2.9 ecor_ingest

Mentor: David Cook, ANL
Lead Developer: Sutanay Choudhury, PNNL
Backup Developer: Brian Ermold, PNNL
Current Version: 8.0-0, 2006/10/25
Status: Running
Recent BCRs: 1352, 1218, 1151, 1039, 1015

Description:

The ecor_ingest reads data from the Eddy Correlation Flux Measurement System (ECOR) and generates netCDF datastreams, which provide in situ, half-hour measurements of the surface turbulent fluxes of momentum, sensible heat, latent heat, and carbon dioxide. Datastreams generated include the following:

xxx30ecorFn.b1
2.10  gvr_ingest

Mentor: Maria Cadeddu, ANL
Lead Developer: Annette Koontz, PNNL
Backup Developer: Brian Ermold, PNNL
Current Version: 1.3-0, 2007/02/20
Status: Running
Recent BCRs: 1344, 1338, 1329, 1287, 1255, 1189

Description:

The gvr_ingest reads data generated by the 183.3 GHz radiometer and generates netCDF datastreams. The G-Band Vapor Radiometer (GVR) is located at the NSA C1 site. Datastreams generated include the following:

xxgvrFn.a0
xxgvrFn.b1

2.11  gvrp_ingest

Mentor: Maria Cadeddu
Lead Developer: Sutanay Choudhury, PNNL
Backup Developer: Brian Ermold, PNNL
Version: N/A
Status: In development
Recent BCRs: 1455

Description: The gvrp_ingest software will process raw data from the MP183 radiometer.

2.12  iapmfr_ingest

Mentor: Gary Hodges, NOAA
Lead Developer: Annette Koontz, PNNL
Backup Developer: Brian Ermold, PNNL
Version: 1-2.0, 2008/01/11
Status: Running
Recent BCRs: 1422 – Approved

Description:

The datastreams are in final review by the mentor. As soon as the mentor approves the datastream structure, the iapmfr_ingest will be released. In preparation for this release, the zip2tar utility and the preprocess_IAPMFR utility have been released into production. The iapmfr_ingest requires that only the Global Positioning System (GPS) and MFR data be extracted from the In situ Aerosol Profiles (IAP) data. This is done via a combination of the zip2tar and preprocess_IAPMFR software to merge the GPS and MFR data into a single file for each flight.

We expect to generate the following datastream names:

sgpiapmfrC1.a0
sgpiapmfrC1.b1
Recently updated to trap and correct NaN and Inf values

### 2.13 irt_ingest

**Mentor:** Victor Morris, PNNL  
**Lead Developer:** Brian Ermold, PNNL  
**Backup Developer:** Sutanay Choudhury, PNNL  
**Current Version:** 9.2-0, 2006/10/27  
**Status:** Running  
**Recent BCRs:** 1384, 988, 890, 777, 668  

**Description:**

The irt_ingest, similar to the irthr_ingest, reads data from the Infrared Thermometer (IRT) instruments. However, this ingest is designed for the older IRTs that report data every 20 seconds. There is one IRT located on a tower at 10 meters above the ground and another at 25 meters above the ground. The tower-mounted instruments are pointed downward. Datastreams generated include the following:

- xxxirt10mFn.b1, 10-meter tower data  
- xxxirt25m20sFn.a0, 25-meter tower data, 20-second interval  
- xxxirt25mFn.b1, 25-meter tower data, 1-minute averages

### 2.14 irthr_ingest

**Mentor:** Victor Morris, PNNL  
**Lead Developer:** Sutanay Choudhury, PNNL  
**Backup Developer:** Brian Ermold, PNNL  
**Current Version:** 2.0-0, 2006/08/14  
**Status:** Running  
**Recent BCRs:** 1111  

**Description:**

The irthr_ingest reads data from the high-resolution IRT instruments distributed around the SGP. Datastreams generated are for 200-millisecond, 2-seconds, and 1-minute sample intervals and include the following:

- xxxirt200msFn.a1, 200-millisecond data  
- xxxirt2sFn.b1, 2-second data  
- xxxirtFn.b1, 1-minute data

### 2.15 isssonde_ingest

**Mentor:** Barry Lesht, ANL  
**Lead Developer:** Brian Ermold, PNNL  
**Backup Developer:** TBD  
**Version:** 8.0-0, 2007/03/20  
**Status:** Retired ingest being revised for historical data processing  
**Recent BCRs:** 1337
Description:

The issonde_ingest development work was completed in March 2007. The data were reprocessed and archived in July 2007. This one should be removed from the “ingests in development” section. The ingest has been retired also.

2.16 issrwpcons_ingest

Mentor: TBD
Lead Developer: TBD
Backup Developer: TBD
Current Version: 7.1-0, 2001/02/23
Status: TBD

Description:

The issrwpcons_ingest was used to process data from an external rass wind profiler (RWP) located at the TWP. It produced the following datastreams:

xxx915issrwptempconFn.a1
xxx925issrwpwindconFn.a1

2.17 met_ingest

Mentor: Mike Ritsche, ANL
Lead Developer: Sutanay Choudhury, PNNL
Backup Developer: Brian Ermold, PNNL
Current Version: 7.8-0, 2001/10/20
Status: Running
Recent BCRs: 1335, 1232, 1163, 1059

Description:

The met_ingest processed data collected from conventional in situ sensors measuring meteorological data such as wind speed, barometric pressure, and so on. The following datastream is generated:

xxxmetFn.b1

2.18 metrad_ingest

Mentor: Mike Ritsche, ANL
Lead Developer: Sutanay Choudhury, PNNL
Backup Developer: Brian Ermold, PNNL
Current Version: 2.0-0, 2006/10/31
Status: Offline
Recent BCRs: None.

Description:

The metrad_ingest processes raw radiometer and meteorological data to produce NetCDF files. The following datastreams are generated:
nimmetS1.b1
nimradS1.b1

2.19  mettwr_ingest

Mentor: Mike Ritsche, ANL
Lead Developer: Brian Ermold, PNNL
Backup Developer: Sutanay Choudhury, PNNL
Current Version: 2.1-0, 2006/09/08
Status: Running
Recent BCRs: 1133

Description:
The mettwr_ingest processes data collected from conventional in situ sensors on the ground and on a
tower at 10 meters and 40 meters above the ground. The sensors measure meteorological data such as
wind speed, barometric pressure, and so on. The mettwr_ingest is used to process data collected at the
NSA from surface and tower meteorological instrumentation. Datastreams generated include the
following:

xxxmettwr2hFn.b1
xxxmettwr4hFn.b1
xxxmettwrFn.b1

2.20  mfr_ingest

Mentor: Gary Hodges, NOAA
Lead Developer: Annette Koontz, PNNL
Backup Developer: Brian Ermold, PNNL
Current Version: 7.19-0, 2006/09/18
Status: Running
Recent BCRs: 1297, 1177, 1145

Description:
Soon data from the NIMFR will be processed via mfrcdl_ingest. The mfr_ingest is used to process
NIMFR, MFR10m, and MFR25m data. The datastreams generated include the following:

xxxmfr10mFn.a0
xxxmfr10mFn.b1
xxxmfr25mFn.a0
xxxmfr25mFn.b1
xxxnimfrFn.a0
xxxnimfrFn.b1

2.21  mfrcdl_ingest

Mentor: Gary Hodges, NOAA
Lead Developer: Annette Koontz, PNNL
Backup Developer: Brian Ermold, PNNL
Current Version: 9.9-0, 2007/10/08
Description:

Most recently, changes made to the MFRSR processing logic were retracted. Those changes marked data as "missing" that are non-physical. However, those changes caused difficulties for the Data Quality Office software, so they were retracted. Logic to handle the non-physical MFRSR data will be handled eventually via a VAP.

The following datastreams are generated:

xxxmfrsrFn.a0  
xxxmfrsrFn.b1, processed data  
xxxmfrsrAuxFn.a0

Several SGP MFRSRs have been converted to the Campbell Data Logger. Raw data are being collected. We can now process NIMFR data via this ingest.

2.22 mfrirt_ingest

Mentor: N/A  
Lead Developer: Annette Koontz, PNNL  
Backup Developer: N/A  
Current Version: 8.1-0, 2006/03/06  
Status: Offline

Description:

The mfrirt_ingest was used to process data collected from an IRT instrument that was included in an MFR datastream at SGP C1. It produced the following datastreams:

xxxmfrirt10mFn.b1  
xxxmfrirt25mFn.b1

NOTE: These data have all been reprocessed and cloned to look like sgpirt10mC1.b1 and sgpirt25mC1.b1 data.

2.23 mmcr_ingest

Mentor: N/A  
Lead Developer: Annette Koontz, PNNL  
Backup Developer: N/A  
Current Version: 8.0-0, 2006/11/01  
Status: Retired, replaced by mmcrmom_ingest

Description:

The mmcr_ingest has been replaced by the mmcrmom_ingest. The mmcr_ingest was used to process data collected from the first generation of Millimeter Wavelength Cloud Radar (MMCR) instruments. It produced the following datastreams:
2.24 mmcr_spec_filter

Mentor: Karen Johnson, BNL
Lead Developer: Annette Koontz, PNNL
Backup Developer: Brian Ermold, PNNL
Version: 2.8-0, 2007/10/22
Status: Online at SGP C1
Recent BCRs: 1374

Description:

Recent changes were implemented to get the filtered data flowing. Currently, this is happening for SGP C1 data only, with filtered spectra data delivered directly to the ACRF Archive. The mentor may be providing logic adjustments to handle thin clouds more effectively in the future.

2.25 mmcrmom_ingest

Mentor: Kevin Widener, PNNL, and Karen Johnson, BNL
Lead Developer: Annette Koontz, PNNL
Backup Developer: Brian Ermold, PNNL
Current Version: 8.5-1, 2007/06/6
Status: Running
Recent BCRs: 1382, 1203, 918, 899

Description:

The mmcrmom_ingest has been modified recently to better filter out not-a-number and infinity values. The mmcrmom_ingest is used to process data from the MMCR. Datastreams generated include the following:

xxxmmcrmomFn.b1

Per Engineering Change Order (ECO) 610, the raw and processed MMCR data will be undergoing another facelift. There is no news on when this will happen, but the Engineering Change Request (ECR) was approved.

2.26 mplpol_ingest

Mentor: Richard Coulter, ANL
Lead Developer: Annette Koontz, PNNL
Backup Developer: Brian Ermold, PNNL
Current Version: 9.3-1, 2008/01/07
Status: Running
Recent BCRs: 1392, 1315, 1233
Description:

The mplpol_ingest processes data from the Micropulse Lidar (MPL). Datastreams generated include the following:

xxxmplpolFn.b1

Since these data are used by several important “downstream” VAPs, a VAP to average the MPLPOL data has been released and is being run on the DMF. The corresponding averaged datastream names are the following:

xxxmplpolavgFn.c1
xxxmplpolavgFn.s1

The mplpol_ingest has been modified to handle fluctuating range-bins recently.

2.27 mplps_ingest

Mentor: Richard Coulter, ANL
Lead Developer: Annette Koontz, PNNL
Backup Developer: Brian Ermold, PNNL
Current Version: 8.0-0, 2006/10/27
Status: Retired

The mplps_ingest was used to process data collected from a prototype, a polarizing MPL, located at the NSA C1. It produced the following datastream:

xxxmplpsFn.a0

These data were subsequently used as input to the mplavg process, which produced

xxxmplFn.a1

and was used as input to the Active Remotely-Sensed Cloud Locations (ARSCL) VAP. This ingest was retired when the mplpol_ingest was put in production at the NSA C1.

2.28 mwr_ingest

Mentor: Maria Cadeddu, ANL
Lead Developer: Annette Koontz, PNNL
Backup Developer: Brian Ermold, PNNL
Current Version: 10.0-0, 2007/06/26
Status: Running
Recent BCRs: 1385, 1223

Description:

The mwr_ingest processes data from the Microwave Radiometer (MWR). Datastreams generated include the following:
The format of the MWRTIP files changed because of BCR 1385. The data are being reprocessed so that the MWRTIP files will have a consistent format.

2.29 mwrhf_ingest

Mentor: Maria Cadeddu, ANL
Lead Developer: Sutanay Choudhury, PNNL
Backup Developer: Brian Ermold, PNNL
Version: 1.1-0, 2007/06/25
Status: Offline
Recent BCRs: 1358, 1319, 1302

Description:

The mwrhf_ingest processes 90/150-GHz Microwave Radiometer - high frequency (MWRHF) data. This instrument has been installed at the SGP C1 and at the AMF deployment in Germany (FKB M1).

The ingest is being modified to make the file handling logic more robust (EWO 12253).

The following datastreams are generated:

xxxmwrhfFn.b1

2.30 mwrp_ingest

Mentor: Annette Koontz, PNNL
Lead Developer: Annette Koontz, PNNL
Backup Developer: Sutanay Choudhury, PNNL
Current Version: 8.3-0, 2007/09/06
Status: Running
Recent BCRs: 1320, 1314, 1250, 1249, 1234

Description:

Recent changes were made to remove not-a-number and infinity values. The mwrp_ingest processes data collected from the Microwave Radiometer Profiler (MWRP). Datastreams generated include the following:

xxxmwrpFn.b1

2.31 nfov2ch_ingest

Mentor: Gary Hodges, NOAA
Lead Developer: Sutanay Choudhury, PNNL
Backup Developer: TBD
Current Version: 11.0-1, 2007/05/01
Status: Running
Recent BCRs: 1286, 1028, 1006
Description:

This ingest has been ported to the new database and is currently running for AMF deployment in Germany. The nfov2ch_ingest processes data collected from the Narrow Field of View, 2-channel radiometer (NFOV2).

The following datastream is generated:

xxxnfov2chFn.b1

The mentor indicates that the instrument is out for calibration and/or repair. No estimate is available at this time for its return to production. In addition, the nfov2ch_ingest is being modified to use new databases and a new version will be released prior to the AMF deployment in Germany.

2.32 noaaaos_ingest

Mentor: John Ogren, NOAA
Lead Developer: Annette Koontz, PNNL
Backup Developer: N/A
Current Version: 2.2-0, 2006/12/22
Recent BCRs: 1374
Status: Retired, became aos_ingest

Description:

The noaaaos_ingest processed raw (not mentor reviewed) data collected from the NSA and the AMF AOS instruments. It produced the following datastreams:

xxxaosFn.a0
xxxaosauxFn.a0
xxxaosccnFn.a0

2.33 org_ingest

Mentor: Michael Ritsche, ANL
Lead Developer: Sutanay Choudhury, PNNL
Backup Developer: Brian Ermold, PNNL
Current Version: 1.0-0 1007/10/25
Status: Released, Instrument
Recent BCRs: 1389

Description:

The org_ingest processes optical rain gauge measurements. The first version of the org_ingest has been released into production.

Datastreams generated include the following:

xxxorgFn.b1
2.34 rain_ingest

Mentor: Mary Jane Bartholomew, BNL
Lead Developer: Sutanay Choudhury, PNNL
Backup Developer: Brian Ermold, PNNL
Current Version: 3.1-0, 2008/01/30
Status: Running
Recent BCRs: 1395, 1156

Description:

The rain_ingest processes tipping bucket measurements. The rain ingest was upgraded to implement a new interpolation algorithm and support a new optical rain gauge instrument (EWO 12168). The upgraded version was released to production.

Datastreams generated include the following:

xxxrainFn.b1

2.35 rss_ingest

Mentor: Piotr Kiedron, NOAA
Lead Developer: Brian Ermold, PNNL
Backup Developer: Sutanay Choudhury, PNNL
Current Version: 2.0-0, 2006/10/31
Status: Running
Recent BCRs: 1143, 1104

Description:

The rss_ingest is used to process data collected from Rotating Shadowband Spectroradiometers (RSSs). The datastreams generated included the following:

xxxrssFn.b1

NOTE: Data are processed every couple of months, when the required inputs arrive.

2.36 rwp_ingest

Mentor: Richard Coulter, ANL
Lead Developer: Brian Ermold, PNNL
Backup Developer: Sutanay Choudhury, PNNL
Status: Running
Recent BCRs: 1353, 1246, 1186, 974

Description:

The rwp_ingest processes data collected from RWPs. The datastreams generated include the following:
For the next AMF installation, the rwp_ingest will require modification to handle the new configuration of RWP data.

### 2.37 sirs_ingest

Mentor: Tom Stoffel, NREL  
Lead Developer: Brian Ermold, PNNL  
Backup Developer: Sutanay Choudhury, PNNL  
Current Version: 10.0-0, 2006/08/31  
Status: Running  
Recent BCRs: 1080, 1040

**Description:**

The sirs_ingest processes data collected from SIRS instruments. Datastreams generated include the following:

- xxxsirsFn.b1
- xxxsirs20sFn.a0
- xxxskyrad60sFn.b1
- xxxskyrad20sFn.a0
- xxxgndrad60sFn.b1
- xxxgndrad20sFn.a0

### 2.38 smet_ingest

Mentor: Michael Ritsche, ANL  
Lead Developer: Brian Ermold, PNNL  
Backup Developer: Sutanay Choudhury, PNNL  
Current Version: 8.1-0, 2006/10/04  
Status: Running  
Recent BCRs: 1213, 1048, 738
Description:

The smet_ingest processes data collected from Surface Meteorological Instruments for TWP (SMET). Datastreams generated include the following:

xxxsmet60sFn.b1

2.39 smor_ingest

Mentor: TBD
Lead Developer: Brian Ermold, PNNL
Backup Developer: Annette Koontz, PNNL
Version: 7.11-0, 2003/10/09
Status: Retired ingest being revised for reprocessing historical data from Sky Radiometers on Stand for Downwelling Radiation (SKYRAD) and Ground Radiometers on Stand for Upwelling Radiation (GNDRAD)
Recent BCRs: 738, 623, 522, 413, 397, 385

Description:

This ingest has been taken out of retirement. It will be used for reprocessing historical SKYRAD, GNDRAD, and SMET data, but with the addition of logic to use new databases to improve performance and generate new datastreams comparable to those currently being generated by the sirs_ingest. This reprocessing is needed, at least in part, for subsequent processing by one or more VAPs.

The following datastreams will be generated:

xxxskyrad20sFn.a0
xxxskyrad60sFn.b1
xxxgndrad20sFn.a0
xxxgndrad60sFn.b1
xxxsmet60sFn.b1

2.40 smos_ingest

Mentor: Michael Ritsche, ANL
Lead Developer: Brian Ermold, PNNL
Backup Developer: Sutanay Choudhury, PNNL
Current Version: 8.2-0, 2008/01/23
Status: Running
Recent BCRs: 1298, 1257, 1178

Description:

The smos_ingest processes data from the Surface Meteorological Observation System (SMOS) instruments. The ingest was updated to support new calibration variables and the changes were released to production. Datastreams generated include the following:

xxx1smosFn.b1
xxx30smosFn.b1
2.41  **sonde_ingest**

Mentor:  Barry Lesht, ANL  
Lead Developer:  Annette Koontz, PNNL  
Backup Developer:  Brian Ermold, PNNL  
Current Version:  8.1-0, 2006/09/28  
Status:  Running  
Recent BCRs:  1245, 1229

**Description:**

The sonde_ingest processes data collected from Balloon-Borne Sounding System (sonde). Datastreams generated include the following:

xxxsondewnpnFn.b1

2.42  **surthref_ingest**

Mentor:  Michael Ritsche, ANL  
Lead Developer:  Sutanay Choudhury, PNNL  
Backup Developer:  Brian Ermold, PNNL  
Current Version:  2.0-0, 2006/11/01  
Status:  Running  
Recent BCRs:  1124, 1106

**Description:**

The surthref_ingest processes data collected from Surface Temperature and Humidity Reference (SURTHREF) system instruments. Datastreams generated include the following:

xxxsurthrefFn.b1

2.43  **swats_ingest**

Mentor:  John Harris, CIMMS  
Lead Developer:  Brian Ermold, PNNL  
Backup Developer:  Sutanay Choudhury, PNNL  
Current Version:  10.0-0, 2006/09/07  
Status:  Running  
Recent BCRs:  1017, 896

**Description:**

The swats_ingest processes data collected from the Soil Water and Temperature System (SWATS). Datastreams generated include the following:

xxxswatsFn.b1  
xxxswatsspcpFn.b1
2.44  sws_ingest

Mentor: Alan Scott Kittelman, CU-Boulder
Lead Developer: Sutanay Choudhury, PNNL
Backup Developer: Brian Ermold, PNNL
Current Version: 3.0-0, 2007/03/06
Status: Running
Recent BCRs: 1406, 1347, 1288, 1216

Description:
The sws_ingest is being modified to handle new calibration logic. More enhancements are expected in November 2007. The sws_ingest processes data collected from the Shortwave Spectroradiometer (SWS). Datastreams generated include the following:

xxxswsFn.b1
xxxswsauxFn.b1

2.45  thwaps_ingest

Mentor: Michael Ritsche, ANL
Lead Developer: Brian Ermold, PNNL
Backup Developer: Sutanay Choudhury, PNNL
Current Version: 8.0-0, 2006/08/14
Status: Running
Recent BCRs: 726

Description:
The thwaps_ingest processes data collected from Temperature, Humidity, Wind, and Pressure Sensors (THWAPS) instruments. Datastreams generated include the following:

xxxthwapsFn.b1

2.46  tps_ingest

Mentor: Mark Ivey, SNL
Lead Developer: Sutanay Choudhury, PNNL
Backup Developer: Brian Ermold, PNNL
Version: 1.0-0, 2006/12/22
Status: Running
Recent BCRs: 1387, 1366

Description:
The Total Precipitation Sensor (TPS) will be deployed soon at both NSA sites in Barrow and Atqasuk. The tps_ingest will process data from the Total Precipitation Sensor (precipitation rate and daily accumulated precipitation).

xxxtpsFn.b1
2.47  tsi_ingest

Mentor:    Victor Morris, PNNL
Lead Developer:  Sutanay Choudhury, PNNL
Backup Developer:  Brian Ermold, PNNL
Current Version:  10.1-0, 2006/11/07
Status:     Running
Recent BCRs:  1294, 1247, 1206, 1107

Description:

The tsi_ingest processes data collected from the Total Sky Imager (TSI). Datastreams generated include the following:

xxxtsicldmaskFn.a1
xxxtsimovieFn.a
xxxtsiskycoverFn.b1
xxxtsiskyimageFn.a1

2.48  twr_ingest

Mentor:    David Cook, ANL
Lead Developer:  Brian Ermold, PNNL
Backup Developer:  Sutanay Choudhury, PNNL
Current Version:  8.0-0, 2006/09/07
Status:     Running
Recent BCRs:  727

Description:

The twr_ingest processes data collected from meteorological instruments located on towers above the ground. The datastreams generated include the following:

xxx1440twr21xFn.b1
xxx1440twr25mFn.b1
xxx1440twr60mFn.b1
xxx1twr10xFn.b1
xxx1twr25mFn.b1
xxx1twr60mC1.b1
xxx30twr10xFn.b1
xxx30twr25mFn.b1
xxx30twr60mFn.b1

2.49  vceil_ingest

Mentor:    Victor Morris, PNNL
Lead Developer:  Brian Ermold, PNNL
Backup Developer:  Annette Koontz, PNNL
Current Version:  8.1-0, 2006/09/08
Status:     Running
Recent BCRs:  1295, 1132
Description:

The vceil_ingest processes data collected from Vaisala Ceilometers (VCEILs). Datastreams generated include the following:

xxxvceil25kFn.b1

2.50  wacr_ingest

Mentor:    Kevin Widener, PNNL
Lead Developer:  Annette Koontz, PNNL
Backup Developer:  Brian Ermold, PNNL
Current Version:  8.1-0, 2006/09/11
Status:  Running
Recent BCRs:  1357, 1263, 1242

Description:

The wacr_ingest processes data collected from W-Band (95-GHz) ARM Cloud Radar (WACR) instruments. Datastreams generated include the following:

xxxwacrFn.b1

2.51  wacr_spectra_filter

Mentor:    Karen Johnson, BNL
Lead Developer:  Annette Koontz, PNNL
Backup Developer:  Brian Ermold, PNNL
Version:  3.5-0, 2007/12/31
Status:  Installed
Recent BCRs:  1349

Description:

This ingest was tested on the AMF while it was operating in Germany and briefly at SGP C1. Hardware issues at SGP and at the AMF have been resolved, at least for now. We will begin shipping spectra data to the ACRF Archive soon. The software will be used to generate spectra files that will be shipped directly to the Archive.

3.  Future Ingest Development Needs

In the next few weeks, the underlying libraries used by the ingests will be updated to further standardize the QC results and make QC attributes more consistent with recent VAP QC standards.

In future months, the latest generation of database software used by the ingest software will continue to be developed.