ACRF Ingest Software Status:
New, Current, and Future

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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 Program Climate Research Facility (ACRF). The report is divided into 4 sections: (1) for news about ingests currently under development, (2) for current production ingests, (3) for future ingest development plans, and (4) for information on retired ingests.


Another useful utility 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](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](http://science.arm.gov/tool/dod/showdod.php).
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1 Ingests in Development

1.1 isssonde_ingest

Mentor: 
Lead Developer: Barry Lesht
Backup Developer: Brian Ermold
Version: 
Status: Retired ingest being revised for historical data processing
Recent BCRs: 

Description:

The isssonde_ingest was used to process sonde data in the past. It is being revised for use with the new databases for the purpose of reprocessing historical data.

1.2 mwrhf_ingest

Mentor: Maria Cadeddu
Lead Developer: Sutanay Choudhury
Backup Developer: Brian Ermold
Version: 1.0-0, 2007/10/29
Status: Running
Recent BCRs: 

Description:

The mwrhf_ingest will process 90/150-GHz Microwave Radiometer - high frequency (MWRHF) data. This instrument has been installed for a limited time at the Southern Great Plains (SGP) Central Facility (C1).

1.3 nfov2ch_ingest

Mentor: Gary Hodges
Lead Developer: Sutanay Choudhury
Backup Developer: 
Version: 10.0-2, 2005/06/08
Status: Offline
Recent BCRs: 

Description:

This ingest is being modified to use new databases. A new release of the nfov2ch_ingest will be ready by the start of the ARM Mobile Facility (AMF) deployment in Germany.
1.4  **smor_ingest**

Mentor:
Lead Developer:  Brian Ermold
Backup Developer:  Annette Koontz
Version:  Status:  Retired ingest being revised for reprocessing historical Sky Radiometers on Stand for Downwelling Radiation (SKYRAD) and Ground Radiometers on Stand for Upwelling Radiation (GNDRAD) data

Recent BCRs:

**Description:**

This ingest has been taken out of retirement. It will be used for reprocessing of historical SKYRAD and GNDRAD data, but with the addition of logic to use new databases to improve performance and to 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 value-added products (VAPs).

1.5  **wacr_spectra_filter**

Mentor:
Lead Developer:  Karen Johnson
Backup Developer:  Version:  Status:

Recent BCRs:

**Description:**

Similar to the mmcr_spectra_filter, work has begun on software to filter huge spectra files generated by the W-Band (95 GHz) ARM Cloud Radar (WACR). The software will be used to generate spectra files that will be shipped directly to the ARM Archive. The algorithms are being developed by Karen Johnson, Brookhaven National Laboratory (BNL). The work at PNNL is to make the software compatible with the production environment.

1.6  **mmcr_spec_filter**

Mentor:  Karen Johnson
Lead Developer:  Annette Koontz
Backup Developer:  Brian Ermold
Version:  Status:

Recently BCRs:
Description:

The mmcr_spec_filter is a process used to reduce the size of spectra files so that they can be transmitted to the ARM Archive. This software will be released soon to the SGP C1 system for rigorous testing before installation at other sites. We are making final changes to the software. Some additional hardware needs to be installed and configured at the SGP before we can proceed.

2 Production Ingests

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/).

Please note that ingests beginning in “xxx” indicate cases where ingests are ran at multiple ACRF sites, which results in a datastream for each location.

2.1 aeri_ingest

Mentor: Dave Turner  
Ralph Dedecker  
Lead Developer: Brian Ermold  
Backup Developer: Sutanay Choudhury  
Current Version: 8.0-0, 2006/10/31  
Status: Running  
Recent BCRs:

Description:

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

sgpaerich1C1.b1, channel 1 data  
sgpaerich2C1.b1, channel 2 data  
sgpaeriengineerC1.b1, contains engineering data  
sgpaerisummaryC1.b1, summary data

2.2 amfmet_ingest

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

xxxmetM1.b1

### 2.3 aos_ingest

**Mentor:** John Ogren  
**Lead Developer:** Annette Koontz  
**Backup Developer:** Brian Ermold  
**Current Version:** 8.0-0, 2006/08/14  
**Status:** Running  
**Recent BCRs:**

The aos_ingest is used to read data generated by the Aerosol Observing Station (AOS) at SGP C1. It generates the following netCDF datastreams:

sgpaosC1.a1  
sgpaosauxC1.a0

Sometime in FY2007, the SGP C1 raw data format will be modified to be identical to other AOS instrumentation. At that time, the aos_ingest will be retired and replaced by the noaaaos_ingest.

### 2.4 disdrometer_ingest

**Mentor:** Mary Jane Bartholomew  
**Lead Developer:** Sutanay Choudhury  
**Backup Developer:** Brian Ermold  
**Current Version:** 2.0-0, 2006/09/07  
**Status:** Running  
**Recent BCRs:**

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:

xxxdisdrometerC1.b1
2.5 ebbr_ingest

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

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

2.6 ecor_ingest

Mentor: David Cook  
Lead Developer: Sutanay Choudhury  
Backup Developer: Brian Ermold  
Current Version: 8.0, 2006/10/25  
Status: Running  
Recent BCRs:

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

2.7 gvr_ingest

Mentor: Maria Cadeddu  
Lead Developer: Annette Koontz  
Backup Developer: Brian Ermold  
Current Version: 1.230, 2007/02/20  
Status: Running  
Recent BCRs: 1344
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 North Slope of Alaska (NSA) C1 (Barrow, Alaska) site. Datastreams generated include the following:

nsagvrC1.a0
nsagvrC1.b1

2.8 irthr_ingest

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

Description:

The irthr_ingest reads data from the high-resolution infrared thermometer (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

2.9 irt_ingest

Mentor: Victor Morris  
Lead Developer: Annette Koontz  
Backup Developer: Brian Ermold  
Current Version: 9.2-0, 2006/10/27  
Status: Running  
Recent BCRs:

Description:

The irt_ingest, similar to the irthr_ingest, reads data from the IRT. 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:
sgpirt10mC1.b1, 10-meter tower data
sgpirt25m20sC1.a0, 25-meter tower data, 20-second interval
sgpirt25mC1.b1, 25-meter tower data, 1-minute averages

### 2.10 met_ingest

**Mentor:**
- **Lead Developer:** Sutanay Choudhury
- **Backup Developer:** Brian Ermold
- **Current Version:** 7.8-0
- **Status:** Running
- **Recent BCRs:**

**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:

nimmetM1.b1

### 2.11 metrad_ingest

**Mentor:**
- **Lead Developer:** Sutanay Choudhury
- **Backup Developer:** Brian Ermold
- **Current Version:** 2.0-0, 2006/10/31
- **Status:** Offline
- **Recent BCRs:**

**Description:**

The metrad_ingest processes raw METRAD data to produce netCDF files. The datastreams generated include the following:

xxxmetradFn.b1

### 2.12 mettwr_ingest

**Mentor:**
- **Lead Developer:** Brian Ermold
- **Backup Developer:** Sutanay Choudhury
- **Current Version:** 2.1-0, 2006/09/08
- **Status:** Running
- **Recent BCRs:**
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 NSA from surface and tower meteorological instrumentation. Datastreams generated include the following:

nsamettwr2hC2.b1
nsamettwr4hC2.b1
nsamettwrC1.b1

2.13 mfrcdl_ingest

Mentor:
Lead Developer: Annette Koontz
Backup Developer: Brian Ermold
Current Version: 9.2-0, 2006/10/17
Status: Running
Recent BCRs:

Description:

The mfrcdl_ingest processes data collected by Multifilter Rotating Shadowband Radiometer (MFRSR) instruments. The datastreams generated include the following:

xxxmfrsrFn.a0
xxxmfrsrFn.b1, processed data

Recently, the MFRSR at the SGP Extended Facility 13 (E13) was converted to the Campbell Data Logger. Raw data are being collected. Ingest via mfrcdl_ingest will resume as soon as the necessary calibration files are generated by the mentor.

2.14 mfr_ingest

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

The mfr_ingest is used to process Normal Incidence Multifilter Radiometer (NIMFR), Multifilter Radiometer (MFR) 10-meter and 25-meter data. The datastreams generated include the following:

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

2.15 mmcrmom_ingest

Mentor:    Kevin Widener
           Karen Johnson
Lead Developer:    Annette Koontz
Backup Developer:  Brian Ermold
Current Version:  8.4-0, 2006/09/18
Status:    Running
Recent BCRs:

Description:

The mmcrmom_ingest is used to process data from the Millimeter Wavelength Cloud Radar (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 actually happen, but the Engineering Change Request (ECR) has been approved.

2.16 mplpol_ingest

Mentor:    Richard Coulter
Lead Developer:    Annette Koontz
Backup Developer:  Brian Ermold
Current Version:  9.1-0, 2007/02/22
Status:    Running
Recent BCRs:  1342 (?)

Description:

The mplpol_ingest processes data from the Micropulse Lidar. Datastreams generated include the following:
Since this 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

Note: Updated to handle some NSA data that was collected during October 2006 and to handle some other rare situations in the raw data. Some SGP, NSA, and Tropical Western Pacific (TWP) C2 data will be reprocessed as a result of enhancements made to the ingest.

### 2.17 mwr_ingest

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<th>Maria Cadeddu</th>
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**Description:**

The mwr_ingest processes data from the Microwave Radiometer (MWR). Datastreams generated include the following:

xxxmwrlosFn.b1, line-of-sight data
xxxmwrlosFn.a1, TIP data

### 2.18 mwrp_ingest

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<td>Sutanay Choudhury</td>
</tr>
<tr>
<td>Current Version:</td>
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<tr>
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**Description:**

The mwrp_ingest processes data collected from the Microwave Radiometer Profiler (MWR). Datastreams generated include the following:

xxxmwrpFn.b1
2.19 nfov2ch_ingest

Mentor: Gary Hodges, NOAA
Lead Developer: Sutanay Choudhury, PNNL,
Backup Developer: 
Current Version: 10.0-2, 2006/06/08
Status: Offline
Recent BCRs:

Description:

The nfov2ch_ingest processes data collected from the Narrow Field of View, 2-channel radiometer (NFOV2). The following datastream is generated:

sgpnfov2chC1.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. Also, the nfov2ch_ingest is being modified to use new databases and a new version will be released prior to the AMF deployment in Germany.

2.20 noaaaos_ingest

Mentor: John Ogren
Lead Developer: Annette Koontz
Backup Developer: Brian Ermold
Current Version: 2.1-0, 2006/09/26
Status: Running
Recent BCRs

Description:

The noaaaos_ingest processed raw (not mentor reviewed) data collected from NSA and AMF AOS instruments. Datastreams generated include the following:

xxxaosFn.a0
xxxaosauxFn.a0
xxxaosccnFn.a0

2.21 rain_ingest

Mentor: Mary Jane Bartholomew
Lead Developer: Sutanay Choudhury
Backup Developer: Brian Ermold
Current Version: 2.0-0, 2006/09/07
Status: Running
Recent BCRs:
Description:

The rain_ingest is used to process tipping bucket rain gauge data. Datastreams generated include the following:

xxxrainFn.b1

2.22 rss_ingest

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

Description:

The rss_ingest is used to process data collected from Rotating Shadowband Spectroradiometer (RSS) instruments. The datastreams generated include the following:

xxxrssFn.b1

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

2.23 rwp_ingest

Mentor: Richard Coulter
Lead Developer: Brian Ermold
Backup Developer: Sutanay Choudhury
Current Version: 8.0-0, 2006/10/25
Status: Running
Recent BCRs:

Description:

The rwp_ingest processes data collected from Radar Wind Profilers (RWP). The datastreams generated include the following:

xxx50rwptempFn.a2
xxx50rwptempconFn.a1
xxx50rwptempmomFn.a0
xxx50rwptempspecFn.a0
xxx50rwpwindconFn.a1
xxx50rwpwindmomFn.a0
xxx50rwpwindspecFn.a0
For the next AMF installation, the rwp_ingest will require modification to handle the new flavor of RWP data.

### 2.24 sirs_ingest

**Mentor:** Tom Stoffel  
**Lead Developer:** Brian Ermold  
**Backup Developer:** Sutanay Choudhury  
**Current Version:** 10.0-0, 2006/08/31  
**Status:** Running  

**Recent BCRs:**

**Description:**

The sirs_ingest processes data collected from Solar Infrared Radiation Station (SIRS) instruments. Datastreams generated include the following:

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

### 2.25 smet_ingest

**Mentor:** Michael Ritsche  
**Lead Developer:** Brian Ermold  
**Backup Developer:** Sutanay Choudhury  
**Current Version:** 8.1-0, 2006/10/04  
**Status:** Running  

**Recent BCRs:**

**Description:**

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

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

Description:
The smos_ingest processes data collected from Surface Meteorological Observation System (SGP version) instruments. Datastreams generated include the following:

xxx1smosFn.b1
xxx30smosFn.b1

The smos_ingest may be updated soon to handle changes being made to the sensors.

2.27 sonde_ingest

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

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

xxxsondewnpnFn.b1

2.28 surthref_ingest

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

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

xxxsurthrefFn.b1

2.29 swats_ingest

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

Description:

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

xxxswwatsFn.b1
xxxswwatsscpFn.b1

2.30 sws_ingest

Mentor: John Pommier
Lead Developer: Sutanay Choudhury
Backup Developer: Brian Ermold
Current Version: 2.0-0, 2006/06/19
Status: Offline
Recent BCRs:

Description:

The sws_ingest processes data collected from the Shortwave Spectroradiometer (SWS). Datastreams generated include the following:

xxxswwsFn.b1
xxxswwsausFn.b1

Note: The sws_ingest is being modified to handle new calibration logic. A new release is expected by the end of February 2007.
2.31 thwaps_ingest

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

Description:

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

xxxthwapsFn.b1

2.32 tps_ingest

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

Description:

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

2.33 tsi_ingest

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

Description:

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

xxxtsicldmaskFn.a1
**2.34 twr_ingest**

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

**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

**2.35 vceil_ingest**

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

**Description:**

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

- xxxvceil25kFn.b1
2.36  **wacr_ingest**

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

**Description:**

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

xxxwacrFn.b1

### 3  Future Ingest Development Needs

In the next few weeks, the underlying libraries used by the ingests will be updated to further standardize the quality check (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.

### 4  Retired Ingests

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

#### 4.1  **cm_ingest**

The cm_ingest processed data collected from chilled mirror instrumentation at SGP. It produced the following datastreams:

sgpcmC1.b1  
sgpcm25mC1.b1  
sgpcm60mC1.b1

#### 4.2  **cmh_ingest**

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

nsacmhC1.b1  
nsacmhC2.b1
4.3 issrwpcons_ingest

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

`twp915issrwptempconX1.a1`
`twp925issrwpwindconX1.a1`

4.4 isssonde_ingest

The isssonde_ingest was used to process data from balloon-borne radiosondes located at NSA C1. It produced the following datastreams:

`nsaiissonde10sC1.a1`
`nsaiissonde10sC1.b1`
`nsaiissondeC1.a1`

4.5 mfrirt_ingest

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:

`sgpmfrirt10mC1.b1`
`sgpmfrirt25mC1.b1`

Note: This data has all been reprocessed and cloned to look like sgpirt10mC1.b1 and sgpirt25mC1.b1 data.

4.6 mmcr_ingest

The mmcr_ingest has been replaced by the mmcrmom_ingest. The mmcr_ingest was used to process data collected from the first generation of MMCR instruments. It produced the following datastreams:

`sssmmcrcalFn.a1`
`sssmmcrmomentsFn.a1`
`sssmmcrmomFn.a1`
`sssmmcrrpowFn.a1`

4.7 mplps_ingest

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

`nsamplpsC1.a0`
This data was subsequently used as input to the mplavg process, which produced nsampIC1.a1. This data was used as input to the ARSCL VAP.

This ingest was retired when the mplpol_ingest was put into production at NSA C1.