



A U T O P O P
AUTOMATIC POLAR
ORBITER PROCESSOR

Source	Status	Last Update
JPSS-1 (NOAA-20)	●	2026-02-20 12:05:41
Suomi NPP	●	2026-02-20 12:05:41
JPSS-2 (NOAA-21)	●	2026-02-20 12:05:41
Aqua	●	2026-02-20 12:05:41
JPSS-1 (NOAA-20)	●	2026-02-20 12:05:41
Suomi NPP	●	2026-02-20 12:05:41
JPSS-2 (NOAA-21)	●	2026-02-20 12:05:41
JPSS-1 (NOAA-20)	●	2026-02-20 12:05:41
Suomi NPP	●	2026-02-20 12:05:41
JPSS-2 (NOAA-21)	●	2026-02-20 12:05:41

Refresh Close

SOFTWARE USER GUIDE

Dartcom AutoPOP

Automatic Polar Orbiter Processor

Software user guide

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Contents

1 Overview

Introduction	1-1
--------------------	-----

2 Control

Introduction	2-1
Automatic ingest and processing.....	2-1
Starting the AutoPOP daemon	2-1
Restarting the AutoPOP daemon	2-1
Stopping the AutoPOP daemon.....	2-2
Checking the AutoPOP daemon status.....	2-2
Manual reprocessing	2-2
Manual archive management	2-2
Manual ancillary data management.....	2-3

3 Status

Introduction	3-1
Starting Node-RED.....	3-1
Stopping Node-RED	3-1
Opening the AutoPOP dashboard.....	3-2

4 Configuration

Introduction	4-1
Configuration file format.....	4-1
/global.config.....	4-2
/ancillary.config.....	4-4
/archive.config	4-5
/process.config.....	4-6
/autopopd.config	4-7
/process/cspp.config	4-8
/process/cspp/level1.config	4-9
/process/cspp/level1/atms.config	4-10
/process/cspp/level1/cris.config	4-12
/process/cspp/level1/omps.config	4-14
/process/cspp/level1/viirs.config.....	4-16
/process/cspp/level2.config	4-19
/process/cspp/level2/heap.config	4-20
/process/cspp/level2/hsrtv.config	4-22
/process/cspp/level2/mirs.config.....	4-23
/process/cspp/level2/viirs_acspo.config	4-25
/process/cspp/level2/viirs_active_fire.config	4-27
/process/cspp/level2/viirs_asci.config	4-29
/process/cspp/level2/viirs_atmos.config.....	4-31
/process/cspp/level2/viirs_clavrx.config.....	4-33
/process/cspp/level2/viirs_cryo.config.....	4-35
/process/cspp/level2/viirs_flood_detection.config.....	4-36
/process/cspp/level2/viirs_lsr.config.....	4-37
/process/imapp.config	4-39

/process/imapp/level1.config	4-40
/process/imapp/level1/modis.config.....	4-41
/process/imapp/level2.config	4-43
/process/imapp/level2/modis.config.....	4-44
/process/imapp/level2/modis_clavrx.config.....	4-48

Figures

1.1 Folder structure used by Dartcom AutoPOP1-2

1.2 Folder structure used for an archived dataset1-3

3.1 The AutoPOP dashboard.....3-2

Tables

3.1	Status icons in the AutoPOP dashboard	3-2
-----	---	-----

1

Overview

Introduction

Direct broadcast data received from polar-orbiting earth observation satellites requires processing before it can be used to create images and other products. This includes extraction of sensor data, geolocation and calibration.

For L-Band data this processing is relatively straightforward, with simple, well-documented transmission formats and no external ancillary data requirements.

However, X-Band satellites such as Terra, Aqua, Suomi NPP and the JPSS series have extra sensors, many more spectral bands and higher spatial resolution. This greatly increases data processing complexity and requires external ancillary data.

Scientifically validated algorithms and processing software were therefore developed and made available to direct broadcast users, supported by internet servers providing the required ancillary data.

One such software package was IPOPP (International Planetary Observation Processing Package) developed by the NASA DRL (Direct Readout Laboratory). This packaged all the processing algorithms into an automated system with archive management, graphical dashboard and log analysis. However, IPOPP was abruptly “archived” by NASA when the Terra and Aqua missions began to approach their conclusions and funding was no longer available to maintain it.

The suggested replacements for IPOPP were CSPP (Community Satellite Processing Package) and IMAPP (International MODIS/AIRS Processing Package), both developed by CIMSS (Cooperative Institute for Meteorological Satellite Studies) at the University of Wisconsin, USA. However, neither package is automated, data is not archived and there are no dashboards, so they are far from being a drop-in replacement for IPOPP.

Some attempts have been made to automate CSPP, the most prominent being the Pytroll project. However, large parts of that are not production ready and development appears to have stalled in recent years. So Dartcom made the decision to develop its own simple

automation wrapper for polar-orbiter processing packages such as CSPP and IMAPP, providing a viable path to transition away from IPOPP.

Dartcom AutoPOP is the result. It is a collection of shell scripts and associated configuration files which perform the following tasks:

- Watches the output folder of the RT-STPS software for new files.
- Automatically ingests complete level 0 RDR (Raw Data Record) datasets from RT-STPS and moves them to a slot in the data archive, together with a record of the current station position and a snapshot of the current processing configuration.
- Automatically starts processing of each ingested dataset using the appropriate package (CSPP or IMAPP).
- Automatically creates GeoTIFF versions of products using a projection centred on the station position. These can be automatically imported into the Dartcom iDAP/MacroPro visualisation and processing software.
- Automatically manages the data archive, deleting datasets which have exceeded the configured age.
- Automatically downloads required ancillary data and manages the ancillary data cache.
- Provides a simple dashboard showing the datasets in the archive and the status of the relevant processing modules for each dataset.

AutoPOP has been designed to allow processing of multiple datasets simultaneously, taking advantage of multiple processor cores to minimise latency. The entire processing chain is started immediately, with modules waiting for completion of processing by other modules on which they depend. A simple file-based signalling system is used.

Each dataset can be manually reprocessed if required, for example if an error occurs during processing, or changes to the processing settings are needed.

Figure 1.1 shows the overall folder structure used by AutoPOP, and figure 1.2 the folder structure used for an archived dataset.

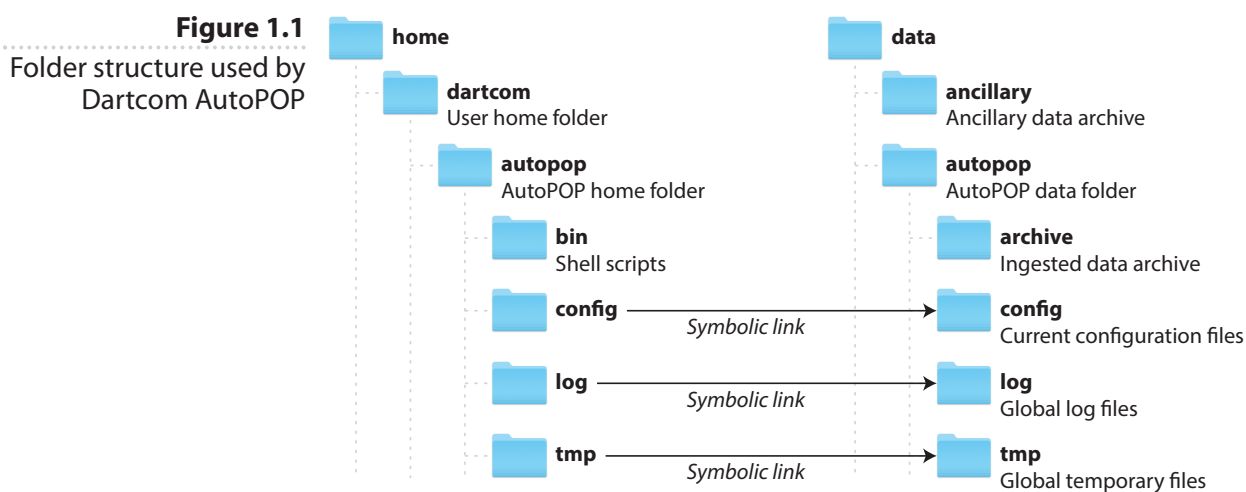
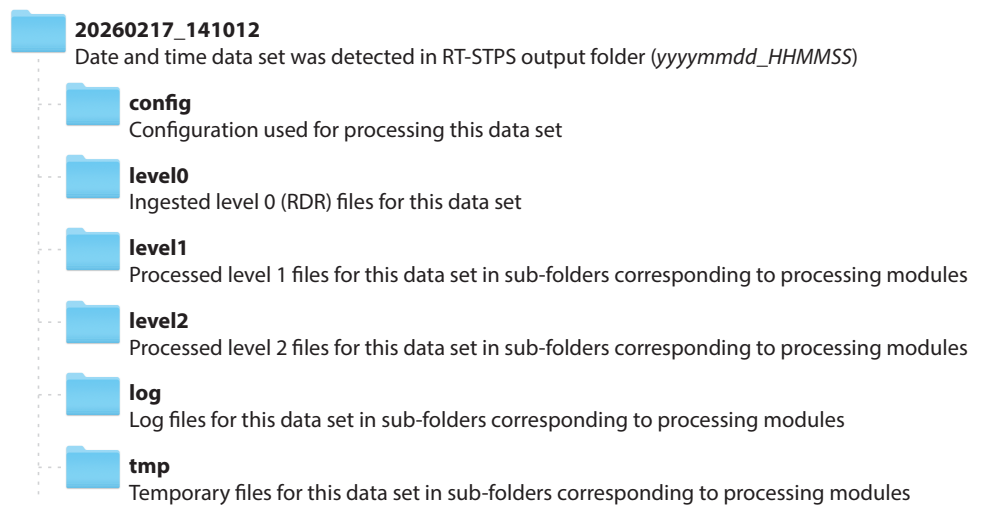


Figure 1.2
Folder structure used for
an archived dataset



The /home/dartcom/autopop/bin folder needs to be added to the PATH environment variable to allow the scripts it contains to be run from anywhere.

2

Control

Introduction

This section describes how to start, restart and stop automatic ingesting, archiving and processing of datasets by AutoPOP, and also how to manually invoke reprocessing of archived datasets, data archive management and ancillary data downloading and management.

Automatic ingest and processing

Automatic ingest and processing is performed by the AutoPOP daemon. This is a script that runs all the time in a continuous loop, checking for new datasets output by the RT-SPS software, then ingesting, archiving and processing them.

The AutoPOP daemon is normally configured to run automatically on startup, but it can be manually started, restarted and stopped if required.

Starting the AutoPOP daemon

To start the AutoPOP daemon so new datasets are ingested, archived and processed automatically, run the following command:

```
autopopd_start.sh <config>
```

Replace <config> with the path to the folder containing the AutoPOP configuration to use, or omit it to use the default which is the **config** folder in the AutoPOP home folder (see figure 1.1).

Restarting the AutoPOP daemon

If changes are made to the AutoPOP configuration (see section 4) the AutoPOP daemon must be restarted to use the new configuration. To restart it, run the following command:

```
autopopd_restart.sh <config>
```

Replace `<config>` with the path to the folder containing the AutoPOP configuration to use, or omit it to use the default which is the **config** folder in the AutoPOP home folder (see figure 1.1).



If the AutoPOP daemon is restarted, any processing in progress will continue to completion.

Stopping the AutoPOP daemon

To cease automatic dataset ingestion, archiving and processing, run the following command to stop the AutoPOP daemon:

```
autopopd_stop.sh
```



If the AutoPOP daemon is stopped, any processing in progress will continue to completion.

Checking the AutoPOP daemon status

To check if the AutoPOP daemon is started or stopped, run the following command:

```
autopopd_status.sh -v
```

This will return a human readable (verbose) message describing the daemon status. If the `-v` option is omitted, a machine readable status (single word) is returned.

Manual reprocessing

To reprocess an archived dataset, either because an error occurred during the previous processing run, or a different or updated configuration is required, run the following command:

```
autopop_process.sh <config> <dataset>
```

Replace `<config>` with the path to the folder containing the AutoPOP configuration to use, or `-` to use the default which is the **config** folder in the AutoPOP home folder (see figure 1.1).

Replace `<dataset>` with the name of the dataset's folder within the data archive (see figure 1.2).

For example, to reprocess the dataset ingested at 12:30:59 on February 18th, 2026 using the default configuration, run the following command:

```
autopop_process.sh - 20260218_123059
```

Manual archive management

Archive management is normally performed automatically at midnight each day via a cron job. However, to reduce the size of the data archive (due to available storage being depleted, for example), after altering the value of the **archiveMaximumAge** setting in `/global.config` (see section 4) run the following command:

```
autopop_archive.sh <config>
```

Replace *<config>* with the path to the folder containing the AutoPOP configuration to use, or omit it to use the default which is the **config** folder in the AutoPOP home folder (see figure 1.1).

Manual ancillary data management

Ancillary data downloading and cache management is normally performed automatically at 01:00, 07:00, 13:00 and 19:00 each day via a cron job, but it can also be performed manually by running the following command:

```
autopop_ancillary.sh <config>
```

Replace *<config>* with the path to the folder containing the AutoPOP configuration to use, or omit it to use the default which is the **config** folder in the AutoPOP home folder (see figure 1.1).

3

Status

Introduction

This section describes the AutoPOP dashboard which allows the daemon status to be checked, the archive contents examined and the status and log for each processing module viewed during and after processing.

Starting Node-RED

The AutoPOP dashboard is hosted on Node-RED which is normally configured to run as a service automatically on startup.



The `AUTOPOP_HOME` environment variable needs to be added to `/home/dartcom/.node-red/environment` and set to `/home/dartcom/autopop` so the AutoPOP dashboard can locate its configuration file (`dashboard.json`).

If for some reason Node-RED is not currently running, run the following command to start it:

```
node-red-start
```

Stopping Node-RED

To stop Node-RED for any reason, run the following command:

```
node-red-stop
```



If Node-RED is not running, the AutoPOP dashboard will be inaccessible.

Opening the AutoPOP dashboard

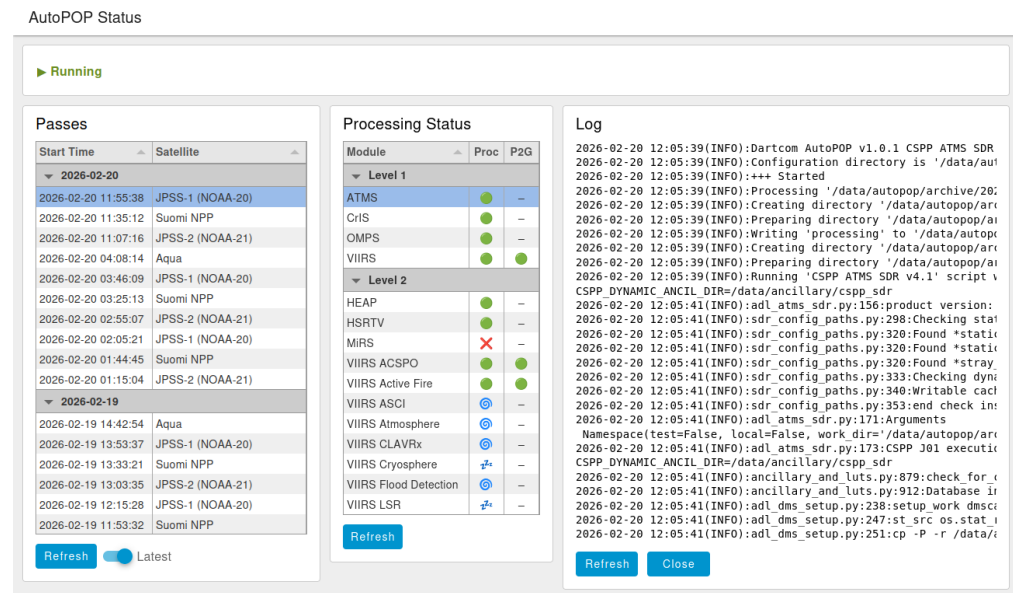
The AutoPOP dashboard is web-based and accessible in any web browser via the following URL, noting the use of **http** rather than **https**:

http://localhost:1880/dashboard

The dashboard should resemble that shown in figure 3.1.

Figure 3.1

The AutoPOP dashboard



The status of the AutoPOP daemon is shown in the box at the top. Normally this should be **Running**, but if AutoPOP was not started automatically or has stopped for some reason it will be **Stopped**.

The satellite pass datasets in the AutoPOP archive are shown in the **Passes** box, grouped by day. The start time is when the dataset was detected by AutoPOP, so will be slightly later than the acquisition of signal time for the pass.

The status of the selected pass dataset is shown in the **Processing Status** box. Select a different dataset to view its status. The **Proc** column shows the processing status and the **P2G** (Polar2Grid) column shows the GeoTIFF creation status. Table 3.1 shows a key to the status icons.

Table 3.1

Status icons in the AutoPOP dashboard

Icon	Status
—	Unknown or not applicable
⊘	Disabled
⌘	Waiting for other modules to complete
⌘	Processing in progress
●	Processing completed successfully
✗	Processing failed

Select a processing module to view its corresponding log in the **Log** box. The log can be scrolled horizontally and vertically. To hide it, click **Close**.

The contents of the **Passes**, **Processing Status** and **Log** boxes are updated automatically every minute. To update any of them manually, use the corresponding **Refresh** buttons.

To automatically show the status of the latest pass dataset at all times, switch on **Latest** in the **Passes** box.



The AutoPOP dashboard can also be accessed on other PCs on the same LAN by replacing localhost with the virtual machine hostname. However, due to issues with Node-RED's handling of multiple simultaneous clients, multiple client functionality is currently disabled. Changes to the dashboard view (such as selecting a different pass dataset) will therefore be reflected in all clients viewing the dashboard.

4

Configuration

Introduction

This section lists the various files that comprise the AutoPOP configuration and describes their format and the settings available within them.

Configuration file format

The files that can be used to configure AutoPOP are listed below. Their paths are relative to the configuration folder (see figure 1.1). Their syntax is the same as a shell script, but they have file extension **.config** instead of **.sh**. A shebang is not needed as they are included within other scripts.

The format of a setting follows the syntax for a variable assignment in a shell script, as follows:

<setting>=<value>

For example:

```
exampleDir1="$HOME/example"  
exampleDir2='/folder/example'  
exampleSwitch=1  
exampleNumber=14
```

To use the internal default value for a setting, simply comment it out using the hash character (#), for example:

```
# exampleSwitch=1
```

/global.config

Contains settings that apply globally to all components of AutoPOP.

inputDir

Specifies the path to the folder in which RT-STPS is outputting datasets.

Normal value

"\$HOME/data"

dataDir

Specifies the path to the folder in which datasets should be archived by AutoPOP.

Normal value

' /data/autopop/archive '

logDir

Specifies the path to the folder in which global log files should be created.

Normal value

' /data/autopop/log '

tmpDir

Specifies the path to the folder in which global temporary files should be created.

Normal value

' /data/autopop/tmp '

debugMode

Enables or disables debug mode throughout AutoPOP.

Possible values

0=Normal mode (normal logging, temporary files are deleted).

1=Debug mode (additional logging, temporary files are retained).

Default value

0

downloadAncillaryData

Enables or disables downloading of ancillary data throughout AutoPOP.

Possible values

0=Do not download ancillary data from the internet.

1=Download ancillary data from the internet when needed.

Default value

1

ancillaryDataMaximumAge

Specifies the maximum age, in days, of files in the ancillary data cache. Beyond this, files may be deleted from the cache.

Default value

14

archiveMaximumAge

Specifies the maximum age, in days, of files in the pass dataset archive. Beyond this, datasets may be deleted from the archive.

Default value

14

p2gWorkerThreads

Specifies the number of worker threads to be used by Polar2Grid when creating GeoTIFF versions of products.

Possible values

0=Use the Polar2Grid internal default number of worker threads (4).

1=Use a single worker thread.

2=Use two worker threads.

...

Default value

0

p2gNoAlpha

Enables or disables inclusion of an alpha channel in GeoTIFF files created by Polar2Grid. The alpha channel causes areas not covered by data to appear transparent in software that supports it. iDAP/MacroPro does not support alpha channels.

Possible values

0=Include an alpha channel in GeoTIFF files.

1=Do not include an alpha channel in GeoTIFF files.

Default value

1

p2gProjection

Specifies the PROJ.4 projection to be used by Polar2Grid when creating GeoTIFF files.

Possible values

' ' =Select a projection automatically based on the station position.

'lcc' =Lambert Conformal Conic, 1 Standard Parallel (EPSG 9801).

'merc' =Mercator, Variant C (EPSG 1044).

'stere' =Polar Stereographic, Variant B (EPSG 9829).

'sterea' =Oblique Stereographic (EPSG 9809).

Normal value

'lcc'

/ancillary.config

Contains settings that apply to downloading and management of ancillary data.

enable

Enables or disables downloading and management of ancillary data by AutoPOP.

Possible values

0=Downloading and management of ancillary data disabled.

1=Downloading and management of ancillary data enabled.

Default value

1

/archive.config

Contains settings that apply to management of the pass dataset archive.

enable

Enables or disables management of the pass dataset archive by AutoPOP.

Possible values

0=No datasets will be deleted from the archive.

1=Datasets will be deleted from the archive when they exceed the maximum age.

Default value

1

/process.config

Contains settings that apply globally to the AutoPOP processing chain.

enable

Enables or disables processing of datasets.

Possible values

0=Processing of datasets disabled.

1=Processing of datasets enabled.

Default value

1

/autopopd.config

Contains settings that apply to the AutoPOP daemon.

sleepTime

Specifies the time to sleep between iterations of the daemon loop, in seconds.

Default value

5

gnssFile

Specifies the path to the GNSS file from which to obtain the current station position.

Normal value

' /data/autopop/gnss/gnss.txt '

The Dartcom Polar Orbiter Ingestor software on the ingestor PC writes the current station position to a file (normally named **GNSS.txt**) shared via SMB. The file above is normally updated every 10 minutes from that using the **smbclient** command in a cron job.

The file format is as follows:

<latitude>, <longitude>, [N/S], [E/W]

Where *<latitude>* is the latitude, in degrees, *<longitude>* is the longitude, in degrees, *[N/S]* indicates if the latitude has been specified in degrees North or South of the equator, and *[E/W]* indicates if the longitude has been specified in degrees East or West of the Greenwich meridian.

For example:

50.5761, 3.9385, N, W

The above corresponds to a station latitude of 50.5761 degrees North and longitude of 3.9385 degrees West.

/process/cspp.config

Contains settings that apply to all CSPP processing modules.

enable

Enables or disables processing of datasets by CSPP.

Possible values

0=Processing of datasets by CSPP disabled.

1=Processing of datasets by CSPP enabled.

Default value

1

/process/cspp/level1.config

Contains settings that apply to all level 1 CSPP processing modules.

enable

Enables or disables processing of datasets to level 1 by CSPP.

Possible values

0=Processing of datasets to level 1 by CSPP disabled.

1=Processing of datasets to level 1 by CSPP enabled.

Default value

1

/process/cspp/level1/atms.config

Contains settings that apply to the CSPP Advanced Technology Microwave Sounder (ATMS) Sensor Data Record (SDR) level 1 processing module.

enable

Enables or disables processing of ATMS data to level 1.

Possible values

0=Processing of ATMS data to level 1 disabled.

1=Processing of ATMS data to level 1 enabled.

Default value

1

debugMode

Enables or disables debug mode when processing ATMS data to level 1.

Possible values

0=Normal mode (normal logging, temporary files are deleted).

1=Debug mode (additional logging, temporary files are retained).

Default value

debugMode in /global.config.

processorCores

Specifies the number of processor cores to use when processing ATMS data to level 1.

Possible values

0=Use the internal default number of processor cores (1).

1=Use a single processor core.

2=Use two processor cores.

...

Default value

0

Normal value

4

aggregateOutput

Enables or disables aggregation of ATMS level 1 data.

Possible values

0=Output aggregation disabled.

1=Output aggregation enabled.

Default value

0

compressHDF5Output

Enables or disables transparent internal compression of ATMS level 1 HDF5 files.

Possible values

0=HDF5 compression disabled.
1=HDF5 compression enabled.

Default value

0

trimGranules

Enables or disables trimming of ATMS granules from the beginning and end of a pass.

Possible values

0=Granule trimming disabled.
1=Granule trimming enabled.

Default value

0

trimGranulesBegin

Specifies the number of ATMS granules to trim from the beginning of a pass if granule trimming is enabled.

Default value

0

trimGranulesEnd

Specifies the number of ATMS granules to trim from the end of a pass if granule trimming is enabled.

Default value

0

disableScienceFiltering

Enables or disables ATMS science RDR filtering. If disabled, the ATMS calibration may not match NOAA operational products.

Possible values

0=Science RDR filtering enabled.
1=Science RDR filtering disabled.

Default value

0

/process/cspp/level1/cris.config

Contains settings that apply to the CSPP Cross-track Infra-red Sounder (CrIS) Sensor Data Record (SDR) level 1 processing module.

enable

Enables or disables processing of CrIS data to level 1.

Possible values

0=Processing of CrIS data to level 1 disabled.

1=Processing of CrIS data to level 1 enabled.

Default value

1

debugMode

Enables or disables debug mode when processing CrIS data to level 1.

Possible values

0=Normal mode (normal logging, temporary files are deleted).

1=Debug mode (additional logging, temporary files are retained).

Default value

debugMode in /global.config.

processorCores

Specifies the number of processor cores to use when processing CrIS data to level 1.

Possible values

0=Use the internal default number of processor cores (1).

1=Use a single processor core.

2=Use two processor cores.

...

Default value

0

Normal value

4

aggregateOutput

Enables or disables aggregation of CrIS level 1 data.

Possible values

0=Output aggregation disabled.

1=Output aggregation enabled.

Default value

0

compressHDF5Output

Enables or disables compression of CrIS level 1 HDF5 files with transparent internal gzip compression.

Possible values

0=HDF5 compression disabled.
1=HDF5 compression enabled.

Default value

0

trimGranules

Enables or disables trimming of CrIS granules from the beginning and end of a pass.

Possible values

0=Granule trimming disabled.
1=Granule trimming enabled.

Default value

0

trimGranulesBegin

Specifies the number of CrIS granules to trim from the beginning of a pass if granule trimming is enabled.

Default value

0

trimGranulesEnd

Specifies the number of CrIS granules to trim from the end of a pass if granule trimming is enabled.

Default value

0

disableScienceFiltering

Enables or disables CrIS science RDR filtering. If disabled, the CrIS calibration may not match NOAA operational products.

Possible values

0=Science RDR filtering enabled.
1=Science RDR filtering disabled.

Default value

0

/process/cspp/level1/omps.config

Contains settings that apply to the CSPP Ozone Mapping and Profiler Suite (OMPS) Sensor Data Record (SDR) level 1 processing module.

enable

Enables or disables processing of OMPS data to level 1.

Possible values

0=Processing of OMPS data to level 1 disabled.

1=Processing of OMPS data to level 1 enabled.

Default value

1

debugMode

Enables or disables debug mode when processing OMPS data to level 1.

Possible values

0=Normal mode (normal logging, temporary files are deleted).

1=Debug mode (additional logging, temporary files are retained).

Default value

debugMode in /global.config.

processorCores

Specifies the number of processor cores to use when processing OMPS data to level 1.

Possible values

0=Use the internal default number of processor cores (1).

1=Use a single processor core.

2=Use two processor cores.

...

Default value

0

Normal value

4

aggregateOutput

Enables or disables aggregation of OMPS level 1 data.

Possible values

0=Output aggregation disabled.

1=Output aggregation enabled.

Default value

0

compressHDF5Output

Enables or disables compression of OMPS level 1 HDF5 files with transparent internal gzip compression.

Possible values

0=HDF5 compression disabled.
1=HDF5 compression enabled.

Default value

0

trimGranules

Enables or disables trimming of OMPS granules from the beginning and end of a pass.

Possible values

0=Granule trimming disabled.
1=Granule trimming enabled.

Default value

0

trimGranulesBegin

Specifies the number of OMPS granules to trim from the beginning of a pass if granule trimming is enabled.

Default value

0

trimGranulesEnd

Specifies the number of OMPS granules to trim from the end of a pass if granule trimming is enabled.

Default value

0

/process/cspp/level1/viirs.config

Contains settings that apply to the CSPP Visible and Infra-red Imaging Radiometer Suite (VIIRS) Sensor Data Record (SDR) level 1 processing module.

enable

Enables or disables processing of VIIRS data to level 1.

Possible values

0=Processing of VIIRS data to level 1 disabled.

1=Processing of VIIRS data to level 1 enabled.

Default value

1

debugMode

Enables or disables debug mode when processing VIIRS data to level 1.

Possible values

0=Normal mode (normal logging, temporary files are deleted).

1=Debug mode (additional logging, temporary files are retained).

Default value

debugMode in /global.config.

processorCores

Specifies the number of processor cores to use when processing VIIRS data to level 1.

Possible values

0=Use the internal default number of processor cores (1).

1=Use a single processor core.

2=Use two processor cores.

...

Default value

0

Normal value

4

aggregateOutput

Enables or disables aggregation of VIIRS level 1 data.

Possible values

0=Output aggregation disabled.

1=Output aggregation enabled.

Default value

0

compressHDF5Output

Enables or disables compression of VIIRS level 1 HDF5 files with transparent internal gzip compression.

Possible values

0=HDF5 compression disabled.
1=HDF5 compression enabled.

Default value

0

trimGranules

Enables or disables trimming of VIIRS granules from the beginning and end of a pass.

Possible values

0=Granule trimming disabled.
1=Granule trimming enabled.

Default value

0

trimGranulesBegin

Specifies the number of VIIRS granules to trim from the beginning of a pass if granule trimming is enabled.

Default value

0

trimGranulesEnd

Specifies the number of VIIRS granules to trim from the end of a pass if granule trimming is enabled.

Default value

0

retainEllipsoidGeolocationProducts

Enables or disables retention of the ellipsoid geolocation products (GIMGO and GMOD0) after processing. Normally only the terrain corrected products (GITCO and GMTCO) are retained.

Possible values

0=Ellipsoid geolocation products are deleted after processing.
1=Ellipsoid geolocation products are retained after processing.

Default value

0

p2gEnable

Enables or disables creation of GeoTIFF versions of VIIRS level 1 products by Polar2Grid.

Possible values

0=VIIRS level 1 GeoTIFF products disabled.
1=VIIRS level 1 GeoTIFF products enabled.

Default value

1

p2gDynamicDNBSaturationCorrection

Enables or disables dynamic VIIRS day/night band saturation correction by Polar2Grid. This is normally only used for aurora scenes.

Possible values

0=Dynamic day/night band saturation correction disabled.
1=Dynamic day/night band saturation correction enabled.

Default value

0

p2gProduct<product>

Enables or disables creation of GeoTIFF versions of specific VIIRS level 1 products by Polar2Grid.

Replace <product> as follows:

I01...05=Imaging bands 1–5, reflectance.

I01...05Rad=Imaging bands 1–5, radiance.

M01...11=Moderate resolution bands 1–11, reflectance.

M12...16=Moderate resolution bands 12–16, brightness temperature.

M01...16Rad=Moderate resolution bands 1–16, radiance.

DNB=Raw day/night band.

HistogramDNB=Histogram equalised day/night band.

AdaptiveDNB=Adaptive histogram equalised day/night band.

DynamicDNB=Dynamic day/night band.

HNCCDNB=Simplified high and near-constant contrast day/night band.

IFog=Temperature difference between imaging bands 5 and 4, highlighting fog.

ISolarZenith=Imaging band solar zenith angle.

ISolarAzimuth=Imaging band solar azimuth angle.

ISatZenith=Imaging band satellite zenith angle.

ISatAzimuth=Imaging band satellite azimuth angle.

MSolarZenith=Moderate resolution band solar zenith angle.

MSolarAzimuth=Moderate resolution band solar azimuth angle.

MSatZenith=Moderate resolution band satellite zenith angle.

MSatAzimuth=Moderate resolution band satellite azimuth angle.

DNBSolarZenith=Day/night band solar zenith angle.

DNBSolarAzimuth=Day/night band solar azimuth angle.

DNBSatZenith=Day/night band satellite zenith angle.

DNBSatAzimuth=Day/night band satellite azimuth angle.

DNBLunarZenith=Day/night band lunar zenith angle.

DNBLunarAzimuth=Day/night band lunar azimuth angle.

TrueColor=Ratio sharpened Rayleigh corrected true colour (R=M5, G=M4, B=M3).

FalseColor=Ratio sharpened Rayleigh corrected false colour (R=M11, G=M7, B=M5).

Possible values

0=Creation of the GeoTIFF product disabled.
1=Creation of the GeoTIFF product enabled.

Default value

0

/process/cspp/level2.config

Contains settings that apply to all level 2 CSPP processing modules.

enable

Enables or disables processing of datasets to level 2 by CSPP.

Possible values

0=Processing of datasets to level 2 by CSPP disabled.

1=Processing of datasets to level 2 by CSPP enabled.

Default value

1

/process/cspp/level2/heap.config

Contains settings that apply to the CSPP Hyper-Spectral Enterprise Algorithm (HEAP) level 2 processing module.

enable

Enables or disables processing of data to level 2 by the CSPP HEAP module.

Possible values

0=HEAP processing disabled.

1=HEAP processing enabled.

Default value

1

debugMode

Enables or disables debug mode when processing data using the CSPP HEAP module.

Possible values

0=Normal mode (normal logging, temporary files are deleted).

1=Debug mode (additional logging, temporary files are retained).

Default value

debugMode in /global.config.

processorCores

Specifies the number of processor cores to be used by the CSPP HEAP module.

Possible values

0=Use the internal default number of processor cores (1).

1=Use a single processor core.

2=Use two processor cores.

...

Default value

0

Normal value

2

processingMode

Specifies the processing mode to be used by the CSPP HEAP module.

Possible values

'HR_IRMW' =Infra-red and microwave (CrIS and ATMS).

'HR_IRO' =Infra-red only (CrIS).

Default value

'HR_IRMW'

outputMode

Specifies the output mode to be used by the CSPP HEAP module.

Possible values

' O ' =Outgoing longwave radiation (OLR) products.
' R ' =Retrieval products (EDR and CCR).
' S ' =Subsetter.

Default value

' R '

aggregateOutput

Enables or disables aggregation of level 2 data by the CSPP HEAP module.

Possible values

0=Output aggregation disabled.
1=Output aggregation enabled.

Default value

0

disaggregateInput

Enables or disables disaggregation of aggregated input data by the CSPP HEAP module.

Possible values

0=Input disaggregation disabled.
1=Input disaggregation enabled.

Default value

0

/process/cspp/level2/hsrtv.config

Contains settings that apply to the CSPP Hyper-Spectral Retrieval (HSRTV) level 2 processing module.

enable

Enables or disables processing of data to level 2 by the CSPP HSRTV module.

Possible values

0=HSRTV processing disabled.

1=HSRTV processing enabled.

Default value

1

debugMode

Enables or disables debug mode when processing data using the CSPP HSRTV module.

Possible values

0=Normal mode (normal logging, temporary files are deleted).

1=Debug mode (additional logging, temporary files are retained).

Default value

debugMode in /global.config.

/process/cspp/level2/mirs.config

Contains settings that apply to the CSPP Microwave integrated Retrieval System (MiRS) level 2 processing module.

enable

Enables or disables processing of data to level 2 by the CSPP MiRS module.

Possible values

0=MiRS processing disabled.

1=MiRS processing enabled.

Default value

1

debugMode

Enables or disables debug mode when processing data using the CSPP MiRS module.

Possible values

0=Normal mode (normal logging, temporary files are deleted).

1=Debug mode (additional logging, temporary files are retained).

Default value

debugMode in /global.config.

processorCores

Specifies the number of processor cores to be used by the CSPP MiRS module.

Possible values

0=Use the internal default number of processor cores (1).

1=Use a single processor core.

2=Use two processor cores.

...

Default value

0

Normal value

2

noSnowfallRate

Enables or disables generation of the snowfall rate product.

Possible values

0=Snowfall rate product generated.

1=Snowfall rate product not generated.

Default value

0

aggregateOutput

Enables or disables aggregation of level 2 data by the CSPP MiRS module.

Possible values

0=Output aggregation disabled.

1=Output aggregation enabled.

Default value

0

p2gEnable

Enables or disables creation of GeoTIFF versions of MiRS products by Polar2Grid.

Possible values

0=MiRS GeoTIFF products disabled.

1=MiRS GeoTIFF products enabled.

Default value

1

p2gLimbCorrection

Enables or disables limb correction on ATMS brightness temperature bands.

Possible values

0=ATMS limb correction disabled.

1=ATMS limb correction enabled.

Default value

1

p2gProduct<product>

Enables or disables creation of GeoTIFF versions of specific MiRS products by Polar2Grid.

Replace <product> as follows:

RainRate=Rain rate.

SeaIce=Sea ice.

SnowCover=Snow cover.

TotalPrecipitableWater=Total precipitable water.

SnowWaterEquivalence=Snow water equivalence.

CloudLiquidWater=Cloud liquid water.

SnowfallRate=Snowfall rate.

SurfaceType=Surface type.

SkinTemperature=Skin temperature.

BrightnessTemps=Brightness temperatures for all available ATMS bands.

Possible values

0=Creation of the GeoTIFF product disabled.

1=Creation of the GeoTIFF product enabled.

Default value

0

/process/cspp/level2/viirs_acspo.config

Contains settings that apply to the CSPP VIIRS Advanced Clear-Sky Processor for Oceans (ACSP0) level 2 processing module.

enable

Enables or disables processing of data to level 2 by the CSPP VIIRS ACSP0 module.

Possible values

0=VIIRS ACSP0 processing disabled.

1=VIIRS ACSP0 processing enabled.

Default value

1

debugMode

Enables or disables debug mode when processing data using the CSPP VIIRS ACSP0 module.

Possible values

0=Normal mode (normal logging, temporary files are deleted).

1=Debug mode (additional logging, temporary files are retained).

Default value

debugMode in /global.config.

processorCores

Specifies the number of processor cores to be used by the CSPP VIIRS ACSP0 module.

Possible values

0=Use the internal default number of processor cores (1).

1=Use a single processor core.

2=Use two processor cores.

...

Default value

0

Normal value

2

outputMode

Specifies the output mode to be used by the CSPP VIIRS ACSP0 module.

Possible values

'gds' =Archived products output.

'both' =Archived and legacy products output.

Default value

'both'

p2gEnable

Enables or disables creation of GeoTIFF versions of VIIRS ACSP0 products by Polar2Grid.

Possible values

0=VIIRS ACSPO GeoTIFF products disabled.

1=VIIRS ACSPO GeoTIFF products enabled.

Default value

1

p2gProduct<product>

Enables or disables creation of GeoTIFF versions of specific VIIRS ACSPO products by Polar2Grid.

Replace <product> as follows:

SeaSurfaceTemperature=Sea surface temperature.

Possible values

0=Creation of the GeoTIFF product disabled.

1=Creation of the GeoTIFF product enabled.

Default value

0

/process/cspp/level2/viirs_active_fire.config

Contains settings that apply to the CSPP VIIRS Active Fire level 2 processing module.

enable

Enables or disables processing of data to level 2 by the CSPP VIIRS Active Fire module.

Possible values

0=VIIRS Active Fire processing disabled.

1=VIIRS Active Fire processing enabled.

Default value

1

debugMode

Enables or disables debug mode when processing data using the CSPP VIIRS Active Fire module.

Possible values

0=Normal mode (normal logging, temporary files are deleted).

1=Debug mode (additional logging, temporary files are retained).

Default value

debugMode in /global.config.

processorCores

Specifies the number of processor cores to be used by the CSPP VIIRS Active Fire module.

Possible values

0=Use the internal default number of processor cores (1).

1=Use a single processor core.

2=Use two processor cores.

...

Default value

0

Normal value

2

useMBand

Enables or disables the use of moderate resolution band data by the CSPP VIIRS Active Fire module.

Possible values

0=Use imaging band data.

1=Use moderate resolution band data.

Default value

0

outputNOAATextSummary

Enables or disables output of text summary products in NOAA format by the CSPP VIIRS Active Fire module.

Possible values

0=Output text summary products in CSPP format.

1=Output text summary products in NOAA format.

Default value

0

p2gEnable

Enables or disables creation of GeoTIFF versions of VIIRS Active Fire products by Polar2Grid.

Possible values

0=VIIRS Active Fire GeoTIFF products disabled.

1=VIIRS Active Fire GeoTIFF products enabled.

Default value

1

p2gProduct<product>

Enables or disables creation of GeoTIFF versions of specific VIIRS Active Fire products by Polar2Grid.

Replace <product> as follows:

IBandConfidenceCat=Imaging band fire confidence category.

I04Temperature=Imaging band 4 temperature.

RadiativePower=Fire radiative power.

MBandConfidencePC=Moderate resolution band fire confidence (%).

M13Temperature=Moderate resolution band 13 temperature.

Possible values

0=Creation of the GeoTIFF product disabled.

1=Creation of the GeoTIFF product enabled.

Default value

0

/process/cspp/level2/viirs_asci.config

Contains settings that apply to the CSPP VIIRS Aerosol, Snow/Ice, Cloud, Volcanic Ash and Land Surface Temperature (ASCI) level 2 processing module.

enable

Enables or disables processing of data to level 2 by the CSPP VIIRS ASCI module.

Possible values

0=VIIRS ASCI processing disabled.

1=VIIRS ASCI processing enabled.

Default value

1

debugMode

Enables or disables debug mode when processing data using the CSPP VIIRS ASCI module.

Possible values

0=Normal mode (normal logging, temporary files are deleted).

1=Debug mode (additional logging, temporary files are retained).

Default value

debugMode in /global.config.

processorCores

Specifies the number of processor cores to be used by the CSPP VIIRS ASCI module.

Possible values

0=Use the internal default number of processor cores (1).

1=Use a single processor core.

2=Use two processor cores.

...

Default value

0

Normal value

2

productType

Specifies the type of product that should be generated by the CSPP VIIRS ASCI module.

Possible values

'all' =Generate all products.

'cloud1' =Generate cloud mask, height, temperature, phase, type and cover products and gridded NWP fields.

'cloud2' =Generate cloud base, optical depth and effective radius products.

'ice' =Generate ice age, thickness, concentration and surface temperature products.

'volash' =Generate volcanic ash detection, height, temperature, effective radius and optical depth products.

'aodadp' =Generate aerosol optical depth and detection products.

'land' =Generate land surface temperature, emissivity and albedo, and snow mask and fraction products.

Default value

'all'

p2gEnable

Enables or disables creation of GeoTIFF versions of VIIRS ASCI products by Polar2Grid.

Possible values

0=VIIRS ASCI GeoTIFF products disabled.

1=VIIRS ASCI GeoTIFF products enabled.

Default value

1

p2gAerosolOpticalDepthQuality

Specifies the data quality filtering to apply to the aerosol optical depth.

Possible values

0=Include high quality data only.

1=Include high and medium quality data.

2=Include high, medium and low quality data.

3=Exclude all data.

Default value

1

p2gProduct<product>

Enables or disables creation of GeoTIFF versions of specific VIIRS ASCI products by Polar2Grid.

Replace <product> as follows:

CloudTopHeight=Cloud top height.

AerosolOpticalDepth=Aerosol optical depth.

LandSurfaceTemp=Land surface temperature.

Possible values

0=Creation of the GeoTIFF product disabled.

1=Creation of the GeoTIFF product enabled.

Default value

0

/process/cspp/level2/viirs_atmos.config

Contains settings that apply to the CSPP VIIRS Atmosphere level 2 processing module.

enable

Enables or disables processing of data to level 2 by the CSPP VIIRS Atmosphere module.

Possible values

0=VIIRS Atmosphere processing disabled.

1=VIIRS Atmosphere processing enabled.

Default value

1

debugMode

Enables or disables debug mode when processing data using the CSPP VIIRS Atmosphere module.

Possible values

0=Normal mode (normal logging, temporary files are deleted).

1=Debug mode (additional logging, temporary files are retained).

Default value

debugMode in /global.config.

processorCores

Specifies the number of processor cores to be used by the CSPP VIIRS Atmosphere module.

Possible values

0=Use the internal default number of processor cores (1).

1=Use a single processor core.

2=Use two processor cores.

...

Default value

0

Normal value

2

p2gEnable

Enables or disables creation of GeoTIFF versions of VIIRS Atmosphere products by Polar2Grid.

Possible values

0=VIIRS Atmosphere GeoTIFF products disabled.

1=VIIRS Atmosphere GeoTIFF products enabled.

Default value

1

p2gAerosolOpticalDepthQuality

Specifies the data quality filtering to apply to the aerosol optical depth.

Possible values

0=Include high quality data only.

1=Include high and medium quality data.

2=Include high, medium and low quality data.

3=Exclude all data.

Default value

1

p2gProduct<product>

Enables or disables creation of GeoTIFF versions of specific VIIRS Atmosphere products by Polar2Grid.

Replace <product> as follows:

CloudTopTemp=Cloud top temperature.

CloudTopHeight=Cloud top height.

AerosolOpticalDepth=Aerosol optical depth.

Possible values

0=Creation of the GeoTIFF product disabled.

1=Creation of the GeoTIFF product enabled.

Default value

0

/process/cspp/level2/viirs_clavrx.config

Contains settings that apply to the CSPP VIIRS Clouds from AVHRR Extended System (CLAVRx) level 2 processing module.

enable

Enables or disables processing of data to level 2 by the CSPP VIIRS CLAVRx module.

Possible values

0=VIIRS CLAVRx processing disabled.

1=VIIRS CLAVRx processing enabled.

Default value

1

debugMode

Enables or disables debug mode when processing data using the CSPP VIIRS CLAVRx module.

Possible values

0=Normal mode (normal logging, temporary files are deleted).

1=Debug mode (additional logging, temporary files are retained).

Default value

debugMode in /global.config.

disaggregateInput

Enables or disables disaggregation of aggregated input data by the CSPP VIIRS CLAVRx module.

Possible values

0=Input disaggregation disabled.

1=Input disaggregation enabled.

Default value

0

p2gEnable

Enables or disables creation of GeoTIFF versions of VIIRS CLAVRx products by Polar2Grid.

Possible values

0=VIIRS CLAVRx GeoTIFF products disabled.

1=VIIRS CLAVRx GeoTIFF products enabled.

Default value

1

p2gProduct<product>

Enables or disables creation of GeoTIFF versions of specific VIIRS CLAVRx products by Polar2Grid.

Replace <product> as follows:

CloudType=Cloud type.

CloudTopHeight=Cloud top height (m).

CloudTopTemperature=Cloud top temperature (K).

CloudEmissivity=Cloud emissivity.

CloudOpticalDepthDay=Daytime cloud optical depth.

CloudOpticalDepthNight=Nighttime cloud optical depth.

CloudEffectiveRadiusDay=Daytime cloud effective radius (micron).

CloudEffectiveRadiusNight=Nighttime cloud effective radius (micron).

CloudPhase=Cloud phase (5 categories).

RainRate=Rain rate (mm/h).

LunarReflectance=Nighttime lunar reflectance.

Possible values

0=Creation of the GeoTIFF product disabled.

1=Creation of the GeoTIFF product enabled.

Default value

0

/process/cspp/level2/viirs_cryo.config

Contains settings that apply to the CSPP VIIRS Cryosphere level 2 processing module.

enable

Enables or disables processing of data to level 2 by the CSPP VIIRS Cryosphere module.

Possible values

0=VIIRS Cryosphere processing disabled.

1=VIIRS Cryosphere processing enabled.

Default value

1

debugMode

Enables or disables debug mode when processing data using the CSPP VIIRS Cryosphere module.

Possible values

0=Normal mode (normal logging, temporary files are deleted).

1=Debug mode (additional logging, temporary files are retained).

Default value

debugMode in /global.config.

processorCores

Specifies the number of processor cores to be used by the CSPP VIIRS Cryosphere module.

Possible values

0=Use the internal default number of processor cores (1).

1=Use a single processor core.

2=Use two processor cores.

...

Default value

0

Normal value

2

p2gEnable

Enables or disables creation of GeoTIFF versions of VIIRS Cryosphere products by Polar2Grid.

Possible values

0=VIIRS Cryosphere GeoTIFF products disabled.

1=VIIRS Cryosphere GeoTIFF products enabled.

Default value

1

/process/cspp/level2/viirs_flood_detection.config

Contains settings that apply to the CSPP VIIRS Flood Detection level 2 processing module.

enable

Enables or disables processing of data to level 2 by the CSPP VIIRS Flood Detection module.

Possible values

0=VIIRS Flood Detection processing disabled.

1=VIIRS Flood Detection processing enabled.

Default value

1

debugMode

Enables or disables debug mode when processing data using the CSPP VIIRS Flood Detection module.

Possible values

0=Normal mode (normal logging, temporary files are deleted).

1=Debug mode (additional logging, temporary files are retained).

Default value

debugMode in /global.config.

processorCores

Specifies the number of processor cores to be used by the CSPP VIIRS Flood Detection module.

Possible values

0=Use the internal default number of processor cores (1).

1=Use a single processor core.

2=Use two processor cores.

...

Default value

0

Normal value

2

geotiffEnable

Enables or disables creation of GeoTIFF versions of VIIRS Flood Detection products. Note that they use the WGS-84 projection and are created by the Flood Detection software itself, not Polar2Grid, and only if the station latitude is between 65° South and 65° North.

Possible values

0=VIIRS Flood Detection GeoTIFF products disabled.

1=VIIRS Flood Detection GeoTIFF products enabled.

Default value

1

/process/cspp/level2/viirs_lsr.config

Contains settings that apply to the CSPP VIIRS Land Surface Reflectance and Vegetation Index (LSR) level 2 processing module.

enable

Enables or disables processing of data to level 2 by the CSPP VIIRS LSR module.

Possible values

0=VIIRS LSR processing disabled.

1=VIIRS LSR processing enabled.

Default value

1

debugMode

Enables or disables debug mode when processing data using the CSPP VIIRS LSR module.

Possible values

0=Normal mode (normal logging, temporary files are deleted).

1=Debug mode (additional logging, temporary files are retained).

Default value

debugMode in /global.config.

processorCores

Specifies the number of processor cores to be used by the CSPP VIIRS LSR module.

Possible values

0=Use the internal default number of processor cores (1).

1=Use a single processor core.

2=Use two processor cores.

...

Default value

0

Normal value

2

p2gEnable

Enables or disables creation of GeoTIFF versions of VIIRS LSR products by Polar2Grid.

Possible values

0=VIIRS LSR GeoTIFF products disabled.

1=VIIRS LSR GeoTIFF products enabled.

Default value

1

p2gFilterVegetationIndex

Enables or disables filtering of vegetation index using quality flags.

Possible values

0=Vegetation index filtering disabled.

1=Vegetation index filtering enabled.

Default value

1

p2gProduct<product>

Enables or disables creation of GeoTIFF versions of specific VIIRS LSR products by Polar2Grid.

Replace <product> as follows:

SurfaceReflI01...03=Surface reflectance for imaging bands 1–3.

SurfaceReflM01...05=Surface reflectance for moderate resolution bands 1–5.

SurfaceReflM07...11=Surface reflectance for moderate resolution bands 7–11.

SurfaceTrueColor=Ratio sharpened surface true colour (R=M5, G=M4, B=M3).

SurfaceFalseColor=Ratio sharpened surface false colour (R=M11, G=M7, B=M5).

VegetationIndex=Normalised difference vegetation index (NDVI).

EnhancedVegetationIndex=Enhanced vegetation index (EVI).

Possible values

0=Creation of the GeoTIFF product disabled.

1=Creation of the GeoTIFF product enabled.

Default value

0

/process/imapp.config

Contains settings that apply to all IMAPP processing modules.

enable

Enables or disables processing of datasets by IMAPP.

Possible values

0=Processing of datasets by IMAPP disabled.

1=Processing of datasets by IMAPP enabled.

Default value

1

/process/imapp/level1.config

Contains settings that apply to all level 1 IMAPP processing modules.

enable

Enables or disables processing of datasets to level 1 by IMAPP.

Possible values

0=Processing of datasets to level 1 by IMAPP disabled.

1=Processing of datasets to level 1 by IMAPP enabled.

Default value

1

/process/imapp/level1/modis.config

Contains settings that apply to the IMAPP Moderate Resolution Imaging Spectroradiometer (MODIS) level 1 processing module.

enable

Enables or disables processing of MODIS data to level 1.

Possible values

0=Processing of MODIS data to level 1 disabled.

1=Processing of MODIS data to level 1 enabled.

Default value

1

debugMode

Enables or disables debug mode when processing MODIS data to level 1.

Possible values

0=Normal mode (normal logging, temporary files are deleted).

1=Debug mode (additional logging, temporary files are retained).

Default value

debugMode in /global.config.

p2gEnable

Enables or disables creation of GeoTIFF versions of MODIS level 1 products by Polar2Grid.

Possible values

0=MODIS level 1 GeoTIFF products disabled.

1=MODIS level 1 GeoTIFF products enabled.

Default value

1

p2gProduct<product>

Enables or disables creation of GeoTIFF versions of specific MODIS level 1 products by Polar2Grid.

Replace <product> as follows:

Vis01...07=Bands 1–7, visible.

Vis26=Band 26, visible.

BT20...25=Bands 20–25, brightness temperature.

BT27...36=Bands 27–36, brightness temperature.

IR20...25=Bands 20–25, radiance.

IR27...36=Bands 27–36, radiance.

Fog=Brightness temperature difference between bands 31 and 20, highlighting fog.

TrueColor=Ratio sharpened Rayleigh corrected true colour (R=1, G=4, B=3).

FalseColor=Ratio sharpened Rayleigh corrected false colour (R=7, G=2, B=1).

Possible values

0=Creation of the GeoTIFF product disabled.

1=Creation of the GeoTIFF product enabled.

Default value

0

/process/imap/level2.config

Contains settings that apply to all level 2 IMAPP processing modules.

enable

Enables or disables processing of datasets to level 2 by IMAPP.

Possible values

0=Processing of datasets to level 2 by IMAPP disabled.

1=Processing of datasets to level 2 by IMAPP enabled.

Default value

1

/process/imapp/level2/modis.config

Contains settings that apply to the IMAPP Moderate Resolution Imaging Spectroradiometer (MODIS) level 2 processing module.

enable

Enables or disables processing of MODIS data to level 2.

Possible values

0=Processing of MODIS data to level 2 disabled.

1=Processing of MODIS data to level 2 enabled.

Default value

1

debugMode

Enables or disables debug mode when processing MODIS data to level 2.

Possible values

0=Normal mode (normal logging, temporary files are deleted).

1=Debug mode (additional logging, temporary files are retained).

Default value

debugMode in /global.config.

noCloudMask

Enables or disables output of the MODIS level 2 cloud mask product.

Possible values

0=Cloud mask product enabled.

1=Cloud mask product disabled.

Default value

0

noSeaSurfaceTemp

Enables or disables output of the MODIS level 2 sea surface temperature product.

Possible values

0=Sea surface temperature product enabled.

1=Sea surface temperature product disabled.

Default value

0

noCloudTopProps

Enables or disables output of the MODIS level 2 cloud top properties products.

Possible values

0=Cloud top properties products enabled.

1=Cloud top tproperties products disabled.

Default value

0

noCloudOpticalProps

Enables or disables output of the MODIS level 2 cloud optical properties products.

Possible values

0=Cloud optical properties products enabled.

1=Cloud optical properties products disabled.

Default value

0

noProfiles

Enables or disables output of the MODIS level 2 profile products.

Possible values

0=Profile products enabled.

1=Profile products disabled.

Default value

0

noAerosols

Enables or disables output of the MODIS level 2 aerosol products.

Possible values

0=Aerosol products enabled.

1=Aerosol products disabled.

Default value

0

noWaterVapour

Enables or disables output of the MODIS level 2 water vapour products.

Possible values

0=Water vapour products enabled.

1=Water vapour products disabled.

Default value

0

noIceSurfaceTemp

Enables or disables output of the MODIS level 2 ice surface temperature product.

Possible values

0=Ice surface temperature product enabled.

1=Ice surface temperature product disabled.

Default value

0

noSnowMask

Enables or disables output of the MODIS level 2 snow mask product.

Possible values

0=Snow mask product enabled.

1=Snow mask product disabled.

Default value

0

noIceConcentration

Enables or disables output of the MODIS level 2 ice concentration product.

Possible values

0=Ice concentration product enabled.

1=Ice concentration product disabled.

Default value

0

noTempInversion

Enables or disables output of the MODIS level 2 temperature inversion products.

Possible values

0=Temperature inversion products enabled.

1=Temperature inversion products disabled.

Default value

0

noReAggregate

Enables or disables reaggregation of input data by the IMAPP MODIS level 2 module.

Possible values

0=Input reaggregation enabled.

1=Input reaggregation disabled.

Default value

0

noQuicklooks

Enables or disables output of quicklooks by the IMAPP MODIS level 2 module.

Possible values

0=Quicklooks enabled.

1=Quicklooks disabled.

Default value

0

compressOutput

Enables or disables compression of output from the IMAPP MODIS level 2 module.

Possible values

0=Output compression disabled.
1=Output compression enabled.

Default value

0

p2gEnable

Enables or disables creation of GeoTIFF versions of MODIS level 2 products by Polar2Grid.

Possible values

0=MODIS level 2 GeoTIFF products disabled.
1=MODIS level 2 GeoTIFF products enabled.

Default value

1

p2gProduct<product>

Enables or disables creation of GeoTIFF versions of specific MODIS level 2 products by Polar2Grid.

Replace <product> as follows:

CloudMask=Cloud mask.

LandSeaMask=Land and sea mask.

SnowIceMask=Snow and ice mask.

SeaSurfaceTemp=Sea surface temperature.

LandSurfaceTemp=Land surface temperature.

VegetationIndex=Normalised difference vegetation index (NDVI).

IceSurfaceTemp=Ice surface temperature.

InversionStrength=Inversion strength.

InversionDepth=Inversion depth.

IceConcentration=Ice concentration.

CloudTopTemp=Cloud top temperature.

TotalPrecipWater=Total precipitable water.

Possible values

0=Creation of the GeoTIFF product disabled.
1=Creation of the GeoTIFF product enabled.

Default value

0

/process/imapp/level2/modis_clavrx.config

Contains settings that apply to the CSPP MODIS Clouds from AVHRR Extended System (CLAVRx) level 2 processing module.

enable

Enables or disables processing of data to level 2 by the CSPP MODIS CLAVRx module.

Possible values

0=VIIRS CLAVRx processing disabled.

1=VIIRS CLAVRx processing enabled.

Default value

1

debugMode

Enables or disables debug mode when processing data using the CSPP MODIS CLAVRx module.

Possible values

0=Normal mode (normal logging, temporary files are deleted).

1=Debug mode (additional logging, temporary files are retained).

Default value

debugMode in /global.config.

disaggregateInput

Enables or disables disaggregation of aggregated input data by the CSPP MODIS CLAVRx module.

Possible values

0=Input disaggregation disabled.

1=Input disaggregation enabled.

Default value

0

p2gEnable

Enables or disables creation of GeoTIFF versions of MODIS CLAVRx products by Polar2Grid.

Possible values

0=MODIS CLAVRx GeoTIFF products disabled.

1=MODIS CLAVRx GeoTIFF products enabled.

Default value

1

p2gProduct<product>

Enables or disables creation of GeoTIFF versions of specific MODIS CLAVRx products by Polar2Grid.

Replace <product> as follows:

CloudType=Cloud type.

CloudTopHeight=Cloud top height (m).

CloudTopTemperature=Cloud top temperature (K).

CloudEmissivity=Cloud emissivity.

CloudOpticalDepthDay=Daytime cloud optical depth.

CloudOpticalDepthNight=Nighttime cloud optical depth.

CloudEffectiveRadiusDay=Daytime cloud effective radius (micron).

CloudEffectiveRadiusNight=Nighttime cloud effective radius (micron).

CloudPhase=Cloud phase (5 categories).

RainRate=Rain rate (mm/h).

Possible values

0=Creation of the GeoTIFF product disabled.

1=Creation of the GeoTIFF product enabled.

Default value

0

