

GOME ERS-2 Level 1 Product User Manual

ER-PS-DLR-GO-0016

Issue 6

Revision D

2018-01-26

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Change Record

Issue	Rev.	Date	Page	Description of Change
1.0 draft	A	29/07/14	all	Completely new
1.0 draft	B	23/09/14	all	Harmonisation to Sentinel 5p product
1.0 draft	C	19/12/14	all	PMDs now written into own BAND group similar to detector bands. First test products generated by operational processing software. Metadata improved.
6.0 draft	A	09/03/15	all	MODE names updated, now using 5 characters for the integration time part. References revised. Attributes for ancillary variables added. Chapter for product filename added. Example for time calculation added (p.36) Description for geo-matching added (p.37).
6.0 draft	B	15/06/15	23	IRRADIANCE now with 2-dimensional array for sun spectrum instead of 4 groups for 4 channels.
6.0 draft	B	15/06/15	23	IRRADIANCE unit fixed (irrad. has no sterad)
6.0 draft	B	15/06/15	25	Groups MODE_x and BAND_x changed in hierarchy.
6.0 draft	B	15/06/15	28	Geolocation at satellite height added in GEODATA
6.0 draft	B	15/06/15	32	CLOUDDATA added
6.0 draft	B	15/06/15	all	typos fixed
6.0 draft	B	06/07/15	25 41	Comment about angles dimension added h5dump added in appendix
6.0 draft	B	16/07/15	27	time variable added to OBSERVATION group
6.0 draft	B	16/07/15	32	Chapter for subgroup PMD added
6.0 draft	B	16/07/15	39	Variables for polarisation and radiance sensitivity added.
6.0 draft	C	23/10/15	17	time_reference explained
6.0 draft	C	23/10/15	26	Removed the comment variable int time as it is redundant
6.0 draft	C	23/10/15	29	Variables for moon geolocation named moon_ : moon_zenith_angle and moon_azimuth_angle
6.0 draft	C	23/10/15	41	time_reference explained as midnight time, not ascending node time any more
6.0	A	20/06/16	14	Text consolidated, redundant information removed
6.0	A	20/06/16	29	Cloud record updated (surface_height replaced by surface_albedo)

Issue	Rev.	Date	Page	Description of Change
6.0	A	20/06/16	42	HDF5 dump updated
6.0	A	07/04/17	30	Record cloud_optical_thickness and cloud_optical_thickness_precision added
6.0	B	22/08/17	43	Metadata revised and consolidated to other similar products
6.0	B	22/08/17	18	Global dimensions added
6.0	B	22/08/17	25	Subsatellite coordinates added in GEODATA
6.0	B	22/08/17	29	Subgroup POLARISATION added
6.0	C	20/10/17	22	Sun PMD min- and max-value removed (they are no LO values but calibrated values (at least divided by BSDF))
6.0	C	20/10/17	25	Maximum integration-time is 60s instead 24s
6.0	C	13/11/17	11	Update of version and filename
6.0	D	26/01/18	6, 24, 41	Update of GDP version and some typo corrections. Table captions added, tables references added.

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1 Introduction

1.1 Purpose and Scope of Document

The GOME sensor launched on-board the ERS-2 satellite provides atmospheric composition data from June 1995 to July 2011. GOME is ultraviolet, visible and near-infrared nadir-viewing spectrometer which in its normal mode scans across-track in three steps. The field of view of each step may be varied in size from 40 km x 40 km to 320 km x 40 km – a total of five options. The default mode with the largest footprint (three steps with a total coverage of 960 km x 40 km) provides global coverage at the equator within 3 days.

This document describes in detail the new GOME Level 1 products in netCDF-4 format generated with GDP level-0-to-1 version 5.1.

1.2 References

- [A1] Earth Observation Ground Segment File Format Standard, ESA, PE-TN-ESA-GS-0001, Issue: 2.0, 2012-05-03
- [A2] INSPIRE Metadata Implementing Rules: Technical Guidelines based on EN ISO 19115 and EN ISO 19119, MD_IR_and_ISO_v1_2_20100616, Issue 1.2, 2010-06-16.
- [A3] Interface Specification Document of the GDP, ER-IS-DLR-GO-0004, Issue 2, 11. 09. 1995
- [A4] netCDF Climate and Forecast (CF) Metadata Conventions, Issue 1.6, 05. 12. 2011
- [A5] Input/output data specification for the TROPOMI L01b data processor, S5P-KNMI-L01B-0012-SD, Issue 4.0.0, 2014-12-09
- [A6] Metadata specification for the TROPOMI L1b products, S5P-KNMI-L01B-0014-SD, Issue 1.0.0, 2014-07-07
- [A7] Geographic Information – Observations and measurements; source: ISO; ref: ISO 19156:2011(E); date: 2011-12-20
- [A8] ISO 8601 Data elements and interchange formats – Information interchange – Representation of dates and time, 2006-09

1.3 Electronic References

- [E1] <http://en.wikipedia.org/wiki/NetCDF>
- [E2] http://en.wikipedia.org/wiki/University_Corporation_for_Atmospheric_Research (UCAR NetCDF maintaining organisation)
- [E3] <http://puma.nerc.ac.uk/cgi-bin/cf-checker.pl>
CF convention compliance checker
- [E4] <http://www.unidata.ucar.edu/software/netcdf/docs/index.html>
netCDF documentation
- [E5] CF conventions webpage: <http://cfconventions.org/>

1.4 Abbreviations and Acronyms

A list of abbreviations and acronyms which are used throughout this document is given below:

BSDF	Bi-directional Scattering Distribution Function
BU	Binary Units
CDL	Common Data Language (used in netCDF-4)
CF	Climate and Forecast
DLR	Deutsches Zentrum für Luft- und Raumfahrt
EO-FFS	Earth Observation Ground Station File Format Standard
EOC	Earth Observation Center
EOP	ESA Earth Observation Programmes
ERS	European Remote Sensing Satellite
ESA	European Space Agency
GDP	GOME Data Processor
GOME	Global Ozone Monitoring Experiment
IMF	Institut für Methodik der Fernerkundung
INSPIRE	Infrastructure for Spatial Information in the European Community
netCDF-4	Network Common Data Form version 4
PMD	Polarisation Measurement Device
PSD	Product Specification Document
SCIAMACHY	Scanning Imaging Absorption Spectrometer for Atmospheric CHartography
S5P	Sentinel-5 Precursor
SPH	Specific Product Header
TOA	Top Of Atmosphere
UTC	Universal Time Coordinated

1.5 Document Overview

The present document provides information about:

- Annotations, explanations and motivations for the proposed format.
- netCDF-4 header dumps of a GOME test product, showing the structure of the product in CDL format.
- Python examples for reading data from the product.

2 Reasons and motivations for the proposed format

Following ideas lead to the current GOME Level 1 product design:

- The product shall be similar to currently developed or planned EO products in netCDF-4 format, especially to those of the Sentinel Missions.
The similarity to other EO products should lead to reusable reading software with little or no adaptations to the various products.
- The product shall be netCDF-4-CF compliant.
- The product shall additionally be compliant to following standards:
 - EOP (ESA)
 - EO-FFS (ESA)
 - INSPIRE (EU based on ISO)
- The measurements will be organised in netCDF-4-groups for modes and bands. Geolocation and other associated data will be incorporated in such a group and match to the measured ground_pixels. This structure facilitates the usage of the product because it will not be necessary to interpolate or co-add geolocation data for certain ground_pixels.

In order to achieve similarity to other level-1 products some measures had to be taken:

- The spectra of the earth measurements shall be organised as a four-dimensional array in order to be compatible to the push-broom sensors like Sentinel 5, Sentinel 4 or Sentinel 5 Precursor, although GOME has just a one-dimensional scanning sensor with 4096 detector pixels.
Therefore the across track scans of GOME shall be used as the second dimension: for example 3 across-track elements in the second dimension are used for the 3 forward scans generated by the scan mirror movement of GOME.
- Additional dimensions will be added for the sequential observations in flight direction in time or "scanlines" and for a global orbit time.
- Forward and backward scans shall be separated into different groups.

3 Product filename

The product filename will be constructed according [A1] as follows:

<MMM>_<CCCC>_<TTTTTTTTTT>_<instance ID>.nc

where:

MMM = Mission ID

CCCC=File Class

TTTTTTTTTT = <FFFF><DDDDDD> = Mission specific file type

where:

FFFF= File category

DDDDDD = Product semantic descriptor

<instance ID> consists of start time, end time, orbit number, packet version, processor version and processing time.

The packet version is a version number which is specific for the combination of processor version, input data (for example calibration data) version and configuration version.

For GOME Level 1 products, the mission ID is ER2 for ERS-2.

The file class can be TEST for test data or RPRO for reprocessing.

The file type field contains an instrument identifier (GOM) as file category and the processing level (L1B_ or L2__ or L0__) as semantic descriptor.

Following this scheme, the result for a test product from 2015, version 5.0 would be:

ER2_TEST_GOM_L1B____20010811T032404_20010811T050712_32981_01_050000_20150311T151024.nc

The filename for a reprocessed product from 2017, version 5.1 packet version 2 would be:

ER2_RPRO_GOM_L1B____20010811T030440_20010811T044514_32981_02_051000_20171109T140535.nc

The current packet version is 2 and the processor version is 5.1. We encode these versions into "02_051000" as the versions part of the "instance ID".

The file extension shall be ".nc". This is typically used for netCDF files.

All time strings in the file-name and product are formatted in ISO 6801 format [A8].

4 Dimensions in GOME and related instruments

Dimension/ instrument	GOME	GOME-2	SCIAMACHY	S5P
time	1	1	1	1
scanline	~500	~500	~400	~3300
ground_pixel	3 + 1	24 + 8	16 + 4	79/316/456/256
channel	4	4	8	-
band	6	6	64	8
spectral_channel	4096	4096	8192	3072

time : corresponds to a time per orbit, for example the midnight time (00.00), the orbit start time or time at ascending node crossing. In Sentinel 4 it will be a time for a complete image of Europe and North-Africa which may be measured several times per day.

scanline: corresponds to one complete sensor image of the 2-dimensional sensor e.g. Sentinel 5p. For GOME it corresponds to one complete scan consisting of 3 forward (3 x 1.5s) and one backward scan (1.5s).

ground_pixel: corresponds to the spatial extent (across track) of a 2-dimensional push-broom sensor (e.g. Sentinel 5p) or to the across-track scans of a scanning spectrometer (GOME, SCIAMACHY, GOME-2) generated by scan mirror movement. GOME has 3 forward and one backward scan (see Illustration 1).

channel: corresponds to the number of detector sensor-chips in the instrument

band: corresponds to the number of spectral windows which can be configured individually with certain pixel-exposure-times, co-adding factor, start- and end-detector-pixels. For GOME we have 6 bands: 2 on detector channels 1 and 2, respectively and 1 on detector channels 3 and 4, respectively. For SCIAMACHY we have a maximum of 64 so-called clusters (maximum 16 per detector channel) which function as programmable spectral bands.

spectral_channel: corresponds to the total number of photo-diodes or transistors of the detectors. Each photo-diode measures light at a certain wavelength.

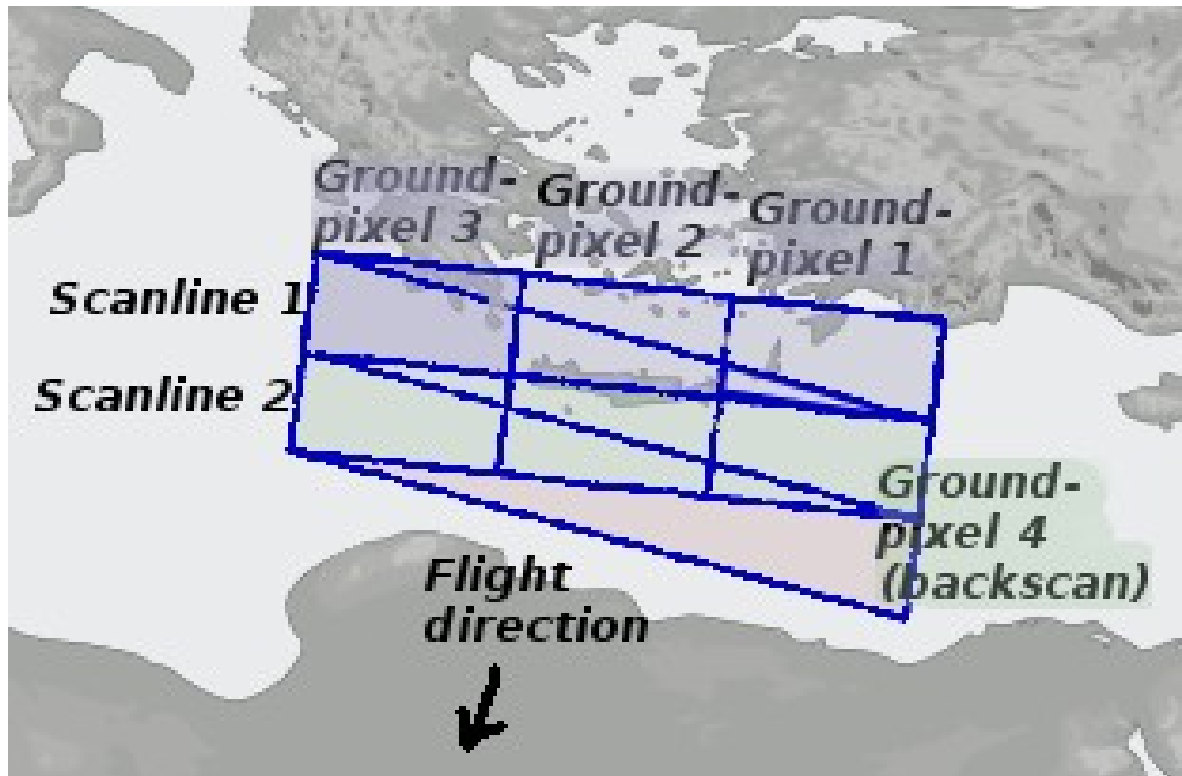


Illustration 1: GOME ground-track showing 3 forward and 1 back-scan ground_pixel per scanline

1

¹Europe map:
By Pethrus (Own work from DEMIS images (public domain)) [GFDL
(<http://www.gnu.org/copyleft/fdl.html>) or CC-BY-SA-3.0-2.5-2.0-1.0
(<http://creativecommons.org/licenses/by-sa/3.0>)], via Wikimedia Commons

5 Product structure and size

The Level 1 product consists of one single file which has the following basic group structure (in this overview only top level groups and not all variables are mentioned):

Main Group	Band group	Sub group	variables
METADATA		ISO_METADATA	
		EOP_METADATA	
		ESA_METADATA	
INSTRUMENT		BAND_CONFIGURATION	
IRRADIANCE			
PMD_IRRADIANCE			
MODE_x	BAND_x	OBSERVATIONS	<i>radiance</i>
			<i>radiance_precision</i>
			<i>delta_time</i>
			...
		...	
		GEODATA	...
		CLOUDDATA	...
		POLARISATION	...
	PMD	OBSERVATIONS	<i>radiance</i>
			<i>radiance_precision</i>
			<i>delta_time</i>
			...
		GEODATA	...
CALIBRATION			

Table 1: Overview of NetCDF groups

examples for BAND_x: BAND_3, BAND_2B, ...

examples for MODE_x: MODE_NADIR, MODE_SUN, ...

Following modes are currently defined :

MODE_NADIR
MODE_STATIC_VIEW
MODE_NARROW_SWATH
MODE_NORTHPOLAR_VIEW
MODE_SOUTHPOLAR_VIEW

MODE_NADIR_BACKSCAN
MODE_STATIC_VIEW_BACKSCAN
MODE_NARROW_SWATH_BACKSCAN
MODE_NORTHPOlar_VIEW_BACKSCAN
MODE_SOUTHPOlar_VIEW_BACKSCAN
MODE_SUN
MODE_MOON

All groups in the overview table above contain several variables and attributes which are listed in detail in chapter 7 Detailed Product Content.

The GOME spectrum is structured in 4 channels with 1024 detector pixels, each. Channel 1 and 2 are divided in 2 parts which are called band a and b, whereas channels 3 and 4 are identical with band 3 and 4, respectively. A band is a part of a channel which can have its own integration time. Thus in total we have 6 bands. Each band can be configured with a specific integration time. The most common integration pattern is 6s for band 1a and 1.5s for the other bands. There are several blind and stray-light regions which are unused or used only for stray-light measurements because they are not illuminated by the incoming light. Because these are not copied to the product, the total number of detector pixels is less than 1024 in channels 1 and 2.

Additionally in GOME we have three polarisation sensors (PMDs), which are read out with a fix rate of 16 samples per 1.5 seconds. They cover three wavelength regions.

In the netCDF-4 product we have a top level group for each MODE and inside of the MODE group there are groups for each BAND (6 bands for GOME) and for the PMDs.

As PMDs are detectors sensitive to a certain spectral range, we treat them as bands.

All subgroups and variables in the band group match to that mode and band.

This ensures that geolocation data (see sub-group GEODATA) of a band matches always the integration-time of those measurements. So angles are given for the start, middle and end-position of the individual integration period of this band and coordinates are given at the corners and the center of the ground-track defined by the integration time. It is not any more necessary to assemble these data by sub-pixels of the smallest integration time as it was required by the former product format.

As PMD data are measured with a fix sample rate of 16 samples per 1.5 second, we have always 64 PMD values per scanline, 48 during the forward scans and 16 during back-scan.

The PMD readouts are used mainly for the polarisation correction of the band spectrum and for cloud detection.

Co-located values of different bands or PMDs can be found using the scanline and ground_pixel indices.

A scanline is defined by the scan-mirror-movement. The scanline comprises all data, measured across-track, so across the flight direction of the satellite. Usually GOME scans three times 1.5s from left to right (i.e. forward) and one time 1.5s backward.

Backscan pixels are written into their own groups, for example MODE_NADIR_BACKSCAN.

If an integration time covers several scanlines, the highest one is written into the scanline index array, so the one at the completion of the integration period.

For example an integration time of 12s covers two scanlines, let's say scanline 4 and 5. Then the measurement will be written at scanline index 5 (see chapter 9 Geographical matching of different band records with different integration patterns for an example).

Group OBSERVATIONS contains sub-groups for RADIANCE and GEODATA.

OBSERVATIONS in MODE_NADIR contains additionally CLOUDDATA and POLARISATION.

These sub-groups have identical dimensions. Thus corresponding values can be easily accessed using the same indices.

The integration time of a band may change during an orbit. Usually in polar regions, higher integration times are used. In order to copy the data into a netCDF array, the areas with higher integration times need to be filled with fill-values in all scanlines where the integration has not completed. The areas with fill-values will be compressed very effectively by the netCDF library.

The following table shows examples of scanline and ground_pixel dimensions for some measurement modes in a full orbit product:

Mode	band	integration-time	scanline	ground_pixel
MODE_NADIR	BAND_3	1.5s	564	3
MODE_NADIR	BAND_1A	12s	281	1
MODE_NADIR_BACKSCAN	BAND_2B	1.5s	563	1
MODE_SUN	BAND_2B	0.75s	86	1
MODE_MOON	BAND_3	12s	196	1
MODE_NADIR	PMD	0.09375s	564	48
MODE_NADIR_BACKSCAN	PMD	0.09375s	563	16

Table 2: Examples of modes and bands

5.1 Product size

The product size is varying depending on the various combinations of scanning and integration modes.

The overall product size will be small enough to put all measurements into one single netCDF-4 file. Instruments like Sentinel 5p use several files for different spectral regions or modes from one level 1 product.

A typical GOME Level 1 product with 2000 spectra (500 scanlines times 4 ground_pixels) would have a total product size of about 68 MB. Product sizes may vary between 60 and 75 MB for full orbits. Products which are measured after the ERS tape recorder problem from July 2003 are typically smaller because they don't cover a complete orbit.

The old proprietary format was much smaller (14 MB per orbit) because spectra were not stored as calibrated float values (four bytes) but as raw values with two bytes (level-0 binary units). Error values, now stored in the variable radiance_precision were not stored in the old product. These values and calibrated radiances as float values had to be calculated by the users with time consuming and somewhat cumbersome software (the extraction tool **gdp01_ex**).

6 Differences between GOME and related atmospheric level 1 products

- viewing information like zenith and azimuth angles have three values (for start-, middle- and end-position of an integrated measurement) instead of one single value in instruments with higher spatial resolution like Sentinel 5p.
- GOME, SCIAMACHY and GOME-2 have many different measurement modes defined by integration times, viewing modes and light paths. Nevertheless the overall product size will be small enough to put all measurements into one netCDF-4 file. Instruments like Sentinel 5p use several files for different spectral regions or modes from one level 1 product.
- GOME, SCIAMACHY and GOME-2 don't have a 2-dimensional sensor (as the atmospheric Sentinel missions) with spatial extent across track, but a scan mirror which scans across track. Therefore we define the ground_pixel dimension by the forward and backward scans across-track. For GOME this would be 3 forward scans and 1 backward scan with an integration time of 1.5s, which yields a ground_pixel size of 3 for forward scans and 1 for backward scans.
- In GOME we have only a few (in the order of 10) different wave-length grids per orbit depending on the instrument temperature. For SCIAMACHY we have 12, one per orbit-phase. Therefore we store the wavelength grids in the CALIBRATION group and assign an index to each spectrum in the radiance groups which refers to the applicable wavelength grid.
- The GOME and SCIAMACHY instruments have two different types of sensors: high resolution detector arrays and PMDs (polarisation measurement devices). Thus additional arrays for the PMDs are required in the product.

7 Detailed Product Content

7.1 Global attributes:

In netCDF-4, meta-data can be implemented using netCDF attributes. Attributes are text entries consisting of a title and text content. There are global attributes, group attributes and variable attributes. Variable attributes are used for meta-data like comments, full names, units. Many of these attributes are recommended by the netCDF-4 CF standard. The GOME level 1b product starts with these global attributes:

```
// global attributes:
:Conventions = "CF-1.6" ;
:filename =
"ER2_RPRO_GOM_L1B____19990101T190232_19990101T204306
_19349_02_051000_20170821T113311.nc" ;
:product_type = "GOM_L1B____" ;
:orbit = "19349" ;
:time_coverage_start = "1999-01-01T19:02:32.658Z" ;
:time_coverage_end = "1999-01-01T20:43:06.262Z" ;
:time_reference = "1999-01-01T00:00:00.000Z" ;
:date_created = "2017-08-21T11:33:11" ;
:history = "Processed by GDP_L01_Processing" ;
:institution = "Deutsches Zentrum fuer Luft- und Raumfahrt (DLR)" ;
:title = "GOME Level 1B product" ;
:source = "satellite observations" ;
:platform = "ERS-2" ;
:sensor = "GOME" ;
:level = "L1B" ;
:processor = "DLR GDP L01 processor v5.1" ;
:temporal = "orbital" ;
:version = "5.1" ;
:reference_document = "ER-PS-DLR-GO-0016" ;
:references =
"https://earth.esa.int/web/guest/missions/esa-operational-eo-
missions/ers/instruments/gome
https://atmos.eoc.dlr.de/gome" ;
:comment = "GOME Evolution reprocessing" ;
```

UTC times are expressed in the ISO 8601 format [A8] (i.e. YYYY-MM-DDThh:mm:ssZ) for example "2001-08-11T03:24:04.606Z". Times may be truncated to integer seconds or to the day part.

An important global attribute is `time_reference` as it is used for the calculation of measurement times: the OBSERVATION groups contain only the `delta_time` variable

which is the time delta between the time_reference and the measurement time. So the delta_time has to be added to the reference time. Chapter 8 contains an example of that calculation in Python language. The smallest integration time can be 1/16s, so 0.0625s which is the readout time of the PMDs.

If we assume 2 days as the maximum possible delta-time, the maximum delta-time in seconds would be 172800. These are 6 digits and together with 4 decimal places this would exceed the reliable number of digits for a single precision float number. Therefore we define delta_time as seconds from time_reference with type double precision float.

In the following variable descriptions, all indices like start- and stop-indices start at 0.

7.2 Global dimensions:

Some repeatedly used dimensions are located directly in the top level group of the NetCDF file:

global dimensions	
detector_channel	4
time	1
pmd	3
angle	3
corner	4
overlap_region	3
angle_pmd	1

7.3 Metadata:

The metadata are structured in a group hierarchy. The metadata groups contain group attributes with the metadata titles and content. We have three top groups of meta-data:

ISO Metadata	A2 INSPIRE Metadata Implementing Rules, Technical Guidelines based on EN ISO 19115 and EN ISO 19119
ESA Metadata	A1 Earth Observation Ground Segment File Format Standard, ESA, PE-TN-ESA-GS-0001, Issue 2.0, 2012-05-03
EOP Metadata	A6 Geographic Information – Observations and measurements.

Table 3: Groups for metadata

For a more detailed description of the metadata please refer to the corresponding reference documentation.

Following group hierarchy is implemented:

```
group: METADATA {
  group: ISO_METADATA {
    group: gmd:language {
      group: gmd:characterSet {
        group: gmd:hierarchyLevel {
          group: gmd:contact {
            group: gmd:contactInfo {
              group: gmd:address {
                group: gmd:role {
```



```

group: om:phenomenonTime {
group: om:resultTime {
group: om:procedure {
  group: eop:platform {
  group: eop:instrument {
  group: eop:sensor {
  group: eop:acquisitionParameters {
group: om:observedProperty {
group: om:featureOfInterest {
  group: eop:multiExtentOf {
    group: gml:surfaceMembers {
      group: gml:exterior {
group: om:result {
  group: eop:product {
    group: eop:fileName {
group: eop:metaDataProperty {
  group: eop:downlinkedTo {
  group: eop:archivedIn {
  group: eop:processing {
group: ESA_METADATA {
  group: earth_explorer_header {
    group: fixed_header {
      group: validity_period {
        group: source {
  
```

7.4 Group: INSTRUMENT

The instrument group contains information about detectors and bands:

dimensions	
band	6

7.4.1 Subgroup: BAND_CONFIGURATION

variable	attributes
short band_detector_array(band)	long_name = "Band detector array"
	units = "1"
	min_val = 0s
	max_val = 3s
	comment = "the detector to which the band belongs"
short band_start_pixel(band)	long_name = "Band start pixel"
	units = "1"
	min_val = 0s
	max_val = 1023s

variable	attributes
	comment = "the start pixel of the band in the detector array"
short band_end_pixel(band)	long_name = "Band end pixel"
	units = "1"
	min_val = 0s
	max_val = 1023s
	comment = "the end pixel of the band in the detector array"

7.5 Group: IRRADIANCE

This group contains the irradiance (mean-sun-reference) spectrum used as reference sun spectrum for DOAS fits.

dimensions	
spectral_channel	1024

group attributes	
measurement_time_of_irradiance	"2001-08-11T03:24:04.606Z"
comment	"GOME has 4 detector-channels with 1024 detector pixels (spectral_channel)"

variables	attributes
short spectral_index	long_name = "the index of the spectral wavelength grid"
	units = "1"
	min_val = 0s
	comment = "index in the group of available wavelength grids: see in group /CALIBRATION/wavelength"
float irradiance(detector_channel, spectral_channel)	long_name = "irradiance"
	units = "ph/s.cm2.1e-09m"
	ancillary_variables = "irradiance_precision"
float irradiance_precision(detector_cha nnel, spectral_channel)	long_name = "relative irradiance precision"
	units = "1"

7.6 Group: PMD_IRRADIANCE

This group contains the mean sun reference PMD values, their wavelengths and the Q-factors. There are 3 values per array according to the 3 PMD sensors (see global dimension "pmd").

Variables	attributes
float mean_sun_pmd_wavelength(pmd)	long_name = "Sun PMD wavelength" units = "1e-09m" min_val = 200.f max_val = 800.f comment = "Wavelength of mean PMD values of sun measurements"
float mean_sun_pmd(pmd)	long_name = "Mean sun reference PMDs" units = "BU" comment = "Mean PMD values of sun measurements"
float mean_sun_q_values(pmd)	long_name = "Q-Factors" units = "1" min_val = -1.f max_val = 1.f comment = "Q-factors are a ratio, actually (1 - 1/ratio) of mean sun PMDs and a virtual sum over detector values in the PMD band"

7.7 Group: MODE_x

This group contains measurements with a certain measurement mode defined by the viewing target. Modes may differ in GEODATA and other fields, for example MODE_MOON and MODE_SUN where no scanning ground-track latitude and longitude is present.

The following modes are defined:

MODE_NADIR, MODE_STATIC_VIEW, MODE_NARROW_SWATH, MODE_NORTHPOLAR_VIEW, MODE_SOUTHPOLAR_VIEW, MODE_NADIR_BACKSCAN, MODE_STATIC_VIEW_BACKSCAN, MODE_NARROW_SWATH_BACKSCAN, MODE_NORTHPOLAR_VIEW_BACKSCAN, MODE_SOUTHPOLAR_VIEW_BACKSCAN, MODE_SUN, MODE_MOON

7.7.1 Subgroup: BAND_n

This group contains radiance measurements plus associated data like geolocation data. BAND_n stands for BAND_1A, BAND_2B, BAND_3, BAND_4 or PMD.

GOME has 7 measurement devices: 4 detector channels with 1024 photo diodes and 3 polarisation measurement devices (PMDs) with one photo diode each but a broader wavelength sensitivity which covers a whole detector channel or even more.

The table below gives an overview over all scientific GOME sensors and the PMDs (polarisation measurement devices):

Band/PMD	device	detector pixel	wavelength range [nm]
BAND_1A	channel 1	256 – 655	237 - 282
BAND_1B	channel 1	656 - 950	282 - 314
BAND_2A	channel 2	183 - 191	311 - 312
BAND_2B	channel 2	192 - 1023	312 - 405
BAND_3	channel 3	0 - 1023	394 - 610
BAND_4	channel 4	0 - 1023	578 - 794
PMD 1	PMD 1	1	280 - 400
PMD 2	PMD 2	1	400 - 600
PMD 3	PMD 3	1	580 - 850

Table 4: Band dimensions and spectral ranges

Channel 1 is divided into BAND_1A and BAND_1B and channel 2 is divided into BAND_2A and BAND_2B. BAND_3 is identical with channel 3 and BAND_4 is identical with channel 4. The band-separation between A and B is programmable and has been changed during GOME lifetime: Since orbit 16311 on June 03, 1998: the boundary pixel between band 1A and 1B was changed from pixel 880 to pixel 655.

Typical integration times for nadir measurements are 0.375s, 1.5s, 6s, 12s, 30s or 60s.

The group for the PMD bands will have nearly the same structure just with other dimensions: instead of for example 1024 spectral_channels there will be only 3 for the 3 PMD devices at different wavelengths. More details can be found in chapter 7.7.1.

dimensions	
scanline	564
spectral_channel	295
ground_pixel	3

group attributes	
comment	the dimension angle is 3: start- middle- and end of integrated measurement

variables	attributes
short start_pixel	long_name = "start-index in detector array"
	units = "1"
	min_val = 0s
	max_val = 1023s
	comment = "start-index of this band in detector array"
short end_pixel	long_name = "end-index in detector array"
	units = "1"
	min_val = 0s
	max_val = 1023s

variables	attributes
short detector	comment = "end-index of this band in detector array"
	long_name = "detector channel"
	units = "1"
	min_val = 0s
	max_val = 3s
	comment = "index of this detector array 0, 1, 2 or 3"

7.7.1.1 Subgroup: OBSERVATIONS

This group contains the scientific spectra and ancillary variables which shall be used for trace gas retrieval in level-2 processing.

variables	attributes
int scanline(time, scanline)	long_name = "along track dimension index"
	units = "1"
double delta_time(time, scanline, ground_pixel)	long_name = "offset from the reference start time of measurement"
	units = "s"
	comment = "offset from the reference start time of measurement"
short spectral_index(time, scanline, ground_pixel)	long_name = "the index of the spectral wavelength grid"
	units = "1"
	min_val = 0s
	comment = "the index of the spectral wavelength grid which corresponds to the temperature of the predisperser prism"
	ancillary_variables = "temperature"
float temperature(time, scanline, ground_pixel)	long_name = "the temperature of the predisperser prism"
	units = "K"
	min_val = 0.f
	max_val = 1000.f
	ancillary_variables = "spectral_index"

variables	attributes
float integration_time(time, scanline)	long_name = "integration time"
	units = "s"
	min_val = 0.f
	max_val = 60.f
	comment = "the integration time of this band"
float radiance(time, scanline, ground_pixel, spectral_channel)	long_name = "radiance"
	units = "ph/s.sr.cm2.1e-9m"
	coordinates = "longitude latitude"
	ancillary_variables = "radiance_precision radiance_flags"
float radiance_precision(time, scanline, ground_pixel, spectral_channel)	long_name = "relative radiance precision"
	units = "1"
byte radiance_flags(time, scanline, ground_pixel, spectral_channel)	long_name = "quality flags"
	units = "1"
	flag_meanings = "no_error, dead, hot, saturated, other (mostly negative radiances)"
	flag_values = 0b, 1b, 2b, 3b, 9b
int time(time)	standard_name = "time"
	long_name = "reference start time of measurement"
	units = "seconds since 1990-01-01 00:00:00"
	min_val = 0
	max_val = 2147483647
	comment = "the number of seconds between 1990-01-01 and time_reference (midnight 00:00h of the orbit day)"

7.7.1.2 Subgroup: GEODATA

variables	attributes
float latitude(time, scanline, ground_pixel)	standard_name = "latitude"

variables	attributes
	long_name = "center latitude"
	units = "degrees_north"
	min_val = -90.f
	max_val = 90.f
	comment = "the center latitude of each observation"
float longitude(time, scanline, ground_pixel)	standard_name = "longitude"
	long_name = "center longitude"
	units = "degrees_east"
	min_val = -180.f
	max_val = 180.f
	comment = "the center longitude of each observation"
float latitude_bounds(time, scanline, ground_pixel, corner)	long_name = "latitude_bounds"
	units = "degrees_north"
	min_val = -90.f
	max_val = 90.f
	comment = "the corner coordinate latitudes of each observation"
float longitude_bounds(time, scanline, ground_pixel, corner)	long_name = "longitude_bounds"
	units = "degrees_east"
	min_val = -180.f
	max_val = 180.f
	comment = "the corner coordinate longitudes of each observation"
float sub_satellite_latitude(time, scanline, ground_pixel)	long_name = "sub satellite longitude"
	units = "degrees north"
	min_val = -90.f
	max_val = 90.f
	comment = "the center latitude of the sub-satellite track"
float sub_satellite_longitude(time, scanline, ground_pixel)	long_name = "sub satellite latitude"
	units = "degrees_east"
	min_val = -180.f
	max_val = 180.f
	comment = "the center longitude of the sub-satellite track"
float solar_zenith_angle(time, scanline, ground_pixel, angle)	long_name = "solar zenith angle"

variables	attributes
	units = "degree"
	min_val = 0.f
	max_val = 180.f
	comment = "at bottom of atmosphere"
float solar_azimuth_angle(time, scanline, ground_pixel, angle)	long_name = "solar azimuth angle with respect to north"
	units = "degree"
	min_val = 0.f
	max_val = 360.f
	comment = "at bottom of atmosphere"
float viewing_zenith_angle(time, scanline, ground_pixel, angle)	long_name = "viewing zenith angle"
	units = "degree"
	min_val = 0.f
	max_val = 180.f
	comment = "at bottom of atmosphere"
float viewing_azimuth_angle(time, scanline, ground_pixel, angle)	long_name = "viewing azimuth angle with respect to north"
	units = "degree"
	min_val = 0.f
	max_val = 360.f
	comment = "at bottom of atmosphere"
float solar_zenith_angle_sat(time, scanline, ground_pixel, angle)	long_name = "solar zenith angle at satellite"
	units = "degree"
	min_val = 0.f
	max_val = 180.f
	comment = "at satellite height"
float solar_azimuth_angle_sat(time, scanline, ground_pixel, angle)	long_name = "solar azimuth angle at satellite with respect to north"
	units = "degree"
	min_val = 0.f
	max_val = 360.f
	comment = "at satellite height"
float viewing_zenith_angle_sat(time, scanline, ground_pixel, angle)	long_name = "viewing zenith angle at satellite"
	units = "degree"
	min_val = 0.f
	max_val = 180.f
	comment = "at satellite height"

variables	attributes
float viewing_azimuth_angle_sat(time, scanline, ground_pixel, angle)	long_name = "viewing azimuth angle at satellite with respect to north"
	units = "degree"
	min_val = 0.f
	max_val = 360.f
	comment = "at satellite height"
float satellite_altitude(time, scanline, ground_pixel)	long_name = "satellite altitude"
	units = "km"
	max_val = 1000.f
float earth_radius(time, scanline, ground_pixel)	long_name = "earth radius"
	units = "km"
	min_val = 0.f
	max_val = 10000.f

7.7.1.3 Subgroup: GEODATA for MODE_MOON

If the mode is MODE_MOON instead of MODE_NADIR_nnnnn we will have following geolocation data. The dimension "angle" is not needed here as we have only one angle per ground_pixel:

variables	attributes
float solar_zenith_angle(time, scanline, ground_pixel)	long_name = "solar zenith angle"
	units = "degree"
	min_val = 0.f
	max_val = 180.f
float solar_azimuth_angle(time, scanline, ground_pixel)	long_name = "solar azimuth angle with respect to north"
	units = "degree"
	min_val = 0.f
	max_val = 360.f
float moon_zenith_angle(time, scanline, ground_pixel)	long_name = "moon zenith angle"
	units = "degree"
	min_val = 0.f
	max_val = 180.f

variables	attributes
float moon_azimuth_angle(time, scanline, ground_pixel)	long_name = "moon azimuth angle with respect to north"
	units = "degree"
	min_val = 0.f
	max_val = 360.f
float illuminated_fraction(time, scanline, ground_pixel)	long_name = "the fraction of the moon disk which is illuminated"
	units = "1"
	min_val = 0.f
	max_val = 1.f

7.7.1.4 Subgroup: GEODATA for MODE_SUN

If the mode is MODE_SUN instead of MODE_NADIR_nnnnn we will have following geolocation data. The dimension "angle" is not needed here as we have only one angle per ground_pixel:

variables	attributes
float solar_zenith_angle(time, scanline, ground_pixel)	long_name = "solar zenith angle"
	units = "degree"
	min_val = 0.f
	max_val = 180.f
float solar_azimuth_angle(time, scanline, ground_pixel)	long_name = "solar azimuth angle with respect to north"
	units = "degree"
	min_val = 0.f
	max_val = 360.f
float bsdf_zenith_angle(time, scanline, ground_pixel)	long_name = "zenith angle on the diffuser"
	units = "degree"
	min_val = 0.f
	max_val = 180.f
float bsdf_azimuth_angle(time, scanline, ground_pixel)	long_name = "azimuth angle on the diffuser"
	units = "degree"

variables	attributes
	min_val = 0.f
	max_val = 360.f

7.7.1.5 Subgroup: POLARISATION

This subgroup of the OBSERVATIONS group contains fractional polarisation values derived using PMD measurements, overlap regions and one fractional polarization in the UV part, calculated according to the Raleigh single scattering model. It also contains errors and wavelength values for the polarisation values.

variables	attributes
float polarisation_q_pmd(time, scanline, ground_pixel, pmd)	long_name = "fractional polarisation q of the PMD"
	units = "1"
	min_val = 0.f
	max_val = 1.f
float polarisation_q_pmd_error(time, scanline, ground_pixel, pmd)	long_name = "error on fractional polarisation q of the PMD"
	units = "1"
float polarisation_q_pmd_wavelength(time, scanline, ground_pixel, pmd)	long_name = "wavelength of fractional polarisation q of the PMD"
	units = "1e-09m"
	min_val = 0.f
	max_val = 800.f
float polarisation_q_overlap(time, scanline, ground_pixel, overlap_region)	long_name = "fractional polarisation q of the overlap region"
	units = "1"
	min_val = 0.f
	max_val = 1.f
float polarisation_q_overlap_error(time, scanline, ground_pixel, overlap_region)	long_name = "error on the fractional polarisation q of the overlap region"
	units = "1"
float polarisation_q_overlap_wavelength(time, scanline, ground_pixel, overlap_region)	long_name = "wavelength of the fractional polarisation q of the overlap region"
	Units = "1e-09m"
	min_val = 0.f
	max_val = 800.f
float polarisation_q_theoretic(time,	

scanline, ground_pixel)	long_name = "fractional polarization in the UV part, calculated according Raleigh single scattering model"
	units = "1"
	min_val = 0.f
	max_val = 1.f
float polarisation_q_theoretic_error(time, scanline, ground_pixel)	long_name = "error on the fractional polarization in the UV part"
	units = "1"
float polarisation_q_theoretic_wavelength(time, scanline, ground_pixel)	long_name = "wavelength of the fractional polarization in the UV part"
	units = "1e-09m"
	min_val = 0.f
	max_val = 800.f
float polarisation_chi(time, scanline, ground_pixel)	long_name = "plane of the polarization angle"
	units = "degree"
	min_val = 0.f
	max_val = 1.f
	comment = "the plane of the polarization angle at center of the scanned region"

7.7.1.6 Subgroup: CLOUDDATA

This subgroup of the OBSERVATIONS group contains cloud-fraction, cloud-albedo, cloud-height and other cloud information parameters:

variables	attributes
float cloud_fraction(time, scanline, ground_pixel)	long_name = "cloud fraction"
	units = "1"
	min_val = 0.f
	max_val = 1.f
float cloud_fraction_precision(time, scanline, ground_pixel)	long_name = "cloud fraction precision"
	units = "1"
	min_val = 0.f
	max_val = 1.f
float cloud_albedo(time, scanline, ground_pixel)	long_name = "cloud albedo"
	units = "1"
	min_val = 0.f

variables	attributes
	max_val = 1.f
float cloud_albedo_precision(time, scanline, ground_pixel)	long_name = "cloud albedo precision"
	units = "1"
	min_val = 0.f
	max_val = 1.f
float cloud_height(time, scanline, ground_pixel)	long_name = "cloud height"
	units = "km"
	min_val = 0.f
	max_val = 1000.f
float cloud_height_precision(time, scanline, ground_pixel)	long_name = "cloud height precision"
	units = "km"
	min_val = 0.f
	max_val = 1000.f
float cloud_optical_thickness(time, scanline, ground_pixel)	long_name = "cloud optical thickness"
	units = "1"
	min_val = 0.f
	max_val = 1.f
float cloud_optical_thickness_precision(time, scanline, ground_pixel)	long_name = "cloud optical thickness precision"
	units = "1"
	min_val = 0.f
	max_val = 1.f
float cloud_pressure(time, scanline, ground_pixel)	long_name = "cloud pressure"
	units = "hPa"
	min_val = 0.f
	max_val = 10000.f
float cloud_pressure_precision(time, scanline, ground_pixel)	long_name = "cloud pressure precision"
	units = "hPa"
	min_val = 0.f
	max_val = 10000.f
float surface_albedo(time, scanline, ground_pixel)	long_name = "surface albedo"
	units = "1"
	min_val = 0.f
	max_val = 1.f
byte sun_glint(time, scanline, ground_pixel)	

variables	attributes
	long_name = "sun glint flag"
	units = "1"
	comment = "Possible Sun-glint derived by a geometrical calculation using viewing angles (0 = no, 1 = yes)"

7.7.2 Subgroup PMD

This group contains radiance measurements plus associated data like geolocation data for PMD. The group for the PMD bands will have nearly the same structure just with other dimensions: instead for example 1024 spectral_channels there will be only 3 for the 3 PMD devices at different wavelengths. For the wavelength assigned to the PMD we take a mean value because actually the PMDs are sensitive to a broad wavelength range (see table Table 4). The differences between BAND_n and PMD groups are explained in the following. The number of scanlines per orbit may vary depending on the composition of measurement modes in the orbit.

dimensions	
scanline	564
spectral_channel	3
ground_pixel	48

For PMD measurements the dimension angle is 1 for angle values at centre position of the measurement (for example solar_zenith_angle):

group attributes	
comment	the dimension angle is 1: only one angle at centre of measurement

Instead of an integration time, PMDs have a sampling_time because the values are not integrated as the band radiances but continuously sampled with a frequency of 1/16s.

variables	attributes
float sampling_time	
	long_name = "sampling time"
	units = "s"
	min_val = 0.09375f
	max_val = 0.09375f
	comment = "the time after PMD samples (or readouts) are measured"

7.7.2.1 Subgroup: OBSERVATIONS for PMD

The OBSERVATIONS group has following differences to the OBSERVATIONS group of the BAND groups:

- PMD has a wavelength variable containing the wavelength values themselves and not just an index to a wavelength grid in the CALIBRATION group. The PMD wavelengths are

mean values of the PMD spectral range, which covers between 120 and 270 nm. These mean values are calculated using PMD specific on-ground calibration data.

- There is no radiance_precision calculated and written in the PMD group.

variables	attributes
int scanline(time, scanline)	long_name = "along track dimension index"
	units = "1"
	min_val = 0
	max_val = 999
double delta_time(time, scanline, ground_pixel)	long_name = "offset from the reference start time of measurement"
	units = "s"
	comment = "offset in seconds from reference start time"
float radiance(time, scanline, ground_pixel, spectral_channel)	long_name = "spectral photon radiance"
	units = "ph/s.sr.cm2.1e-09m"
	coordinates = "longitude latitude"
	ancillary_variables = "wavelength radiance_flags"
float wavelength(time, scanline, ground_pixel, spectral_channel)	standard_name = "radiation_wavelength"
	long_name = "spectral channel wavelength"
	units = "1e-09 m"
	min_val = 200.f
	max_val = 800.f
byte radiance_flags(time, scanline, ground_pixel, spectral_channel)	long_name = "quality flags"
	units = "1"
	flag_meanings = "no_error, calibration_error"
	flag_values = 0b, 1b

7.7.2.2 GEODATA and CLOUDDATA for PMD

The GEODATA group is the same as in the BAND_n groups. The differences for MODE_SUN and MODE_MOON apply as well. The CLOUDDATA group is not generated for PMD groups.

7.8 Group: CALIBRATION

This group contains applied calibration and correction data for example dark-signal, fixed pattern noise, stray-light data, coefficients for spectral calibration, etc. It also contains key-data (preflight-calibration) error values.

dimensions:	
channel_pixels	1024
total_detector_pixels	4096
err_budget_element	8
bsdf_fitt_order	8
straylight_ghosts	2
straylight_ghost_characteristica	4
detector_temperature	8
leakage_record	6
sensitivity_record	20
integration_pattern	7

group attributes	
pre_flight_calibration_data_version	"8.40 "
measurement_time_of_spectral_calibration	"2001-08-11T01,44,14.506Z"
measurement_time_of_ppg	"2001-07-28T19,17,01.984Z"
measurement_time_of_leakage	"2001-08-11T01,44,14.506Z"

variables	attributes
float error_bsdf(err_budget_element)	long_name = "error on BSDF key-data"
	units = "1 "
	comment = "two error values per channel"
float error_response(err_budget_element)	long_name = "error on instrument response"
	units = "1 "
	comment = "two error values per channel"
float error_f2(err_budget_element)	long_name = "error on radiance overlap correction function f2"
	units = "1 "
	comment = "two error values per channel"
float	

variables	attributes
error_scanmirror_dependency(err_budget_element)	long_name = "error on radiance scan-mirror dependency"
	units = "1"
	comment = "two error values per channel"
float error_chi(err_budget_element)	long_name = "error on polarization sensitivity CHI"
	units = "1"
	comment = "two error values per channel"
float error_eta(err_budget_element)	long_name = "error on nadir polarization sensitivity ETA"
	units = "1"
	comment = "two error values per channel"
float error_ksi(err_budget_element)	long_name = "error on nadir/PMD polarization sensitivity KSI"
	units = "1"
	comment = "two error values per channel"
float error_response_f2_smdep(total_detector_pixels)	long_name = "error on F2 scan-mirror dependency"
	units = "1"
	comment = "complete spectrum (1024 values per channel)"
float bsdf_0	long_name = "BSDF_0"
	units = "1"
	comment = "offset of the BSDF function"
float bsdf_azimuth	long_name = "Azimuth"
	units = "1"
	comment = "azimuth dependent part of the BSDF function"
float bsdf_elevation	long_name = "Elevation"
	units = "1"
	comment = "elevation dependent part of the BSDF function"
float bsdf_coefficients(bsdf_fitt_order)	long_name = "BSDF Coefficients"
	units = "1"
	comment = "wavelength dependent part of the BSDF function"
float straylight_uniform(optical_channels)	long_name = "uniform stray light"
	units = "BU"

variables	attributes
	comment = "uniform stray light level per channel"
float straylight_ghosts(optical_channels, straylight_ghosts, straylight_ghost_characteristica)	long_name = "ghost stray light characteristica" units = "1" 1. Pixel of Symmetry, 2. centre wavelength light source, 3. defocusing Info, 4. energy"
float temperature(detector_temperature)	long_name = "temperature" units = "K" min_val = 0.f max_val = 1000.f comment = "the temperature of the predisperser prism of the corresponding wavelength grid" ancillary_variables = "wavelength"
float wavelength(detector_temperature, optical_channels, channel_pixels)	long_name = "wavelength grids" units = "1e-09m" min_val = 0.f max_val = 1000.f comment = "wavelength grid per detector temperature"
float ppg(optical_channels, channel_pixels)	long_name = "PPG" units = "1" min_val = 0.f comment = "pixel to pixel gain correction factor"
float integration_patterns(leakage_record, integration_pattern)	long_name = "integration patterns" units = "1" comment = "the first 6 numbers are integration time of the band the last number is co-adding (0 or 1) - negative values mean, the integration has not yet completed in this readout"
float pmd_offset(leakage_record, pmd)	long_name = "PMD offset" units = "1" min_val = 0.f max_val = 65535.f comment = "PMD dark signal (when no light shines on it)"
float pmd_noise(leakage_record)	long_name = "PMD noise" units = "1" min_val = 0.f

variables	attributes
	comment = "noise on PMD detectors"
float channel_noise(leakage_record)	long_name = "channel noise"
	units = "1"
	min_val = 0.f
	comment = "noise on detector channels"
float dark_signal(leakage_record, optical_channels, channel_pixels)	long_name = "dark signal"
	units = "1"
	max_val = 65535.f
	comment = "dark signal on detector channels (when no light shines on it)"
float scan_angle(sensitivity_record)	long_name = "scan mirror angle"
	units = "degree"
	min_val = -100.f
	max_val = 100.f
	comment = "scan mirror angle of the corresponding (at the same index) radiance response and polarization sensitivity"
	ancillary_variables = "sensitivity_channel sensitivity_temperature radiance_response polarization_sensitivity"
short sensitivity_channel(sensitivity_record)	long_name = "sensitivity channel"
	units = "1"
	min_val = 0s
	max_val = 3s
	comment = "channel of the corresponding (at the same index) radiance response and polarization sensitivity"
	ancillary_variables = "scan_angle sensitivity_temperature radiance_response polarization_sensitivity"
float sensitivity_temperature(sensitivity_record)	long_name = "temperature of the sensitivity"
	units = "K"
	min_val = 0.f
	max_val = 1000.f
	comment = "the temperature of the predisperser prism of the corresponding (at the same index) radiance response and polarization sensitivity"
	ancillary_variables = "scan_angle sensitivity_channel radiance_response polarization_sensitivity"
float radiance_response(sensitivity_record, channel_pixels)	long_name = "radiance response"
	units = "BU.s.sr.cm2.1e-09m/ph"

variables	attributes
	comment = "radiance response for this angle and channel"
	ancillary_variables = "scan_angle sensitivity_channel sensitivity_temperature"
float polarization_sensitivity(sensitivity_record, channel_pixels)	
	long_name = "polarization sensitivity"
	units = "1"
	comment = "polarization sensitivity for this angle and channel"
	ancillary_variables = "scan_angle sensitivity_channel sensitivity_temperature"

8 Calculation of an absolute time from time reference and relative time

The time reference is the time of midnight of the satellite orbit and is given in the global attributes:

```
:time_reference = "2001-08-11T00:00:0.000Z"
```

The `delta_time` of the measurements can be found in the OBSERVATIONS groups. The `delta_time` has just to be added to the time reference. A negative `delta_time` means that time reference comes after the measurement.

Python example for the calculation of a measurement time using the Python `datetime` module:

```
#-----  
# getTimeString  
#-----  
import os, time, datetime, calendar  
from datetime import timedelta  
def getTimeString(time_reference, delta_time):  
  
    #print "time_reference ", time_reference  
    #print "delta_time ", delta_time  
  
    # initialise a datetime object with the reference time  
    reftime = datetime.datetime.strptime(time_reference,  
        "%Y-%m-%dT%H:%M:%S.%fZ")  
  
    # initialise a datetime object with the delta_time  
    delta = datetime.timedelta(seconds=abs(delta_time))  
  
    # subtract or add the delta  
    if delta_time < 0:  
        # time delta holds now only the absolute value of delta_time,  
        # so it has to be subtracted if delta is actually negative  
        curtime = reftime - delta  
    else:  
        curtime = reftime + delta  
    # print the time and return the time  
    # print "getTimeString ", curtime  
    return curtime
```

9 Geographical matching of different band records with different integration patterns

Looking for data of a band which geographically matches to data of another band with a different integration time can be done using the scanline and ground_pixel indices. The following table shows the scanline and ground_pixel indices of a band with 1.5s integration time and a band with 12s integration time and the PMDs with 0.09375s sampling time:

scanline	BAND_2B			BAND_1A	PMD								
0	2	1	0		47	46	45	44	...	3	2	1	0
1	2	1	0	0	47	46	45	44	...	3	2	1	0
2	2	1	0		47	46	45	44	...	3	2	1	0
3	2	1	0	0	47	46	45	44	...	3	2	1	0

Table 5: Example for scanline and ground_pixel indices

In scanline 0 we have BAND_2B with 3 scans of 1.5s. The 3 scans have ground_pixel indices 0, 1 and 2. The back-scan is not contained in that group, so there is no ground_pixel with index 3.

In scanline 0 we have also 48 PMD samples with ground_pixel index 0 to 47.

BAND_1A is not present in scanline 0, because the integration over 12s is not yet finished. The first scanline index in this BAND_1A group is 1.

In scanline 1 we have again 3 ground_pixels in BAND_2B and 48 ground_pixels in the PMD group. Additionally we have 1 ground_pixel of BAND_1A.

In scanline 2 and 3 the cycle is repeated. BAND_1A appears again in scanline 3.

10 Python example for reading radiances

The following example reads the radiance array of BAND_2B, MODE_NADIR:

```
# import necessary modules
import h5py
import numpy as np

# define the product name
pathname =
"ER2_TEST_GOM_L1B____20010811T032404_20010811T050712_32981_01_010000_201503
18T085416.nc"

# open the product
ncfile = h5py.File(pathname, 'r')

# assign the radiance array to a h5py variable
radiance = ncfile["/MODE_NADIR/BAND_2B/OBSERVATIONS/radiance"]

# do something with the data, let's print the shape first
print "radiance.shape: ", radiance.shape

# close the product when finished
ncfile.close()
```



11 Appendix

11.1.1.1 Group hierarchy of an example product

The following listing has been generated using

```
h5dump -n netcdf_file.nc >! netcdf_file.nc.h5dump
```

Please note that in the following h5dump listing dimensions and groups are all denoted as "dataset".

```
HDF5 "ER2_RPRO_GOM_L1B____19990101T190232_19990101T204306_19349_02_050100_20170822T113439.nc" {  
FILE_CONTENTS {  
  group      /  
  group      /CALIBRATION  
  dataset    /CALIBRATION/PMD_noise  
  dataset    /CALIBRATION/PMD_offset  
  dataset    /CALIBRATION/bsdf_0  
  dataset    /CALIBRATION/bsdf_azimuth  
  dataset    /CALIBRATION/bsdf_coefficients  
  dataset    /CALIBRATION/bsdf_elevation  
  dataset    /CALIBRATION/bsdf_fitt_order  
  dataset    /CALIBRATION/channel_noise  
  dataset    /CALIBRATION/channel_pixels  
  dataset    /CALIBRATION/dark_signal  
  dataset    /CALIBRATION/detector_temperature  
  dataset    /CALIBRATION/err_budget_element  
  dataset    /CALIBRATION/error_bsdf  
  dataset    /CALIBRATION/error_chi
```

dataset	/CALIBRATION/error_eta
dataset	/CALIBRATION/error_f2
dataset	/CALIBRATION/error_ksi
dataset	/CALIBRATION/error_response
dataset	/CALIBRATION/error_response_f2_smdep
dataset	/CALIBRATION/error_scanmirror_dependency
dataset	/CALIBRATION/integration_pattern
dataset	/CALIBRATION/integration_patterns
dataset	/CALIBRATION/leakage_record
dataset	/CALIBRATION/polarization_sensitivity
dataset	/CALIBRATION/ppg
dataset	/CALIBRATION/radiance_response
dataset	/CALIBRATION/scan_angle
dataset	/CALIBRATION/sensitivity_channel
dataset	/CALIBRATION/sensitivity_record
dataset	/CALIBRATION/sensitivity_temperature
dataset	/CALIBRATION/straylight_ghost_characteristica
dataset	/CALIBRATION/straylight_ghosts
dataset	/CALIBRATION/straylight_uniform
dataset	/CALIBRATION/temperature
dataset	/CALIBRATION/total_detector_pixels
dataset	/CALIBRATION/wavelength
group	/INSTRUMENT
group	/INSTRUMENT/BAND_CONFIGURATION
dataset	/INSTRUMENT/BAND_CONFIGURATION/band_detector_array
dataset	/INSTRUMENT/BAND_CONFIGURATION/band_end_pixel
dataset	/INSTRUMENT/BAND_CONFIGURATION/band_start_pixel
dataset	/INSTRUMENT/band
group	/IRRADIANCE
dataset	/IRRADIANCE/irradiance

dataset /IRRADIANCE/irradiance_precision
dataset /IRRADIANCE/spectral_channel
dataset /IRRADIANCE/spectral_index
group /METADATA
group /METADATA/EOP_METADATA
group /METADATA/EOP_METADATA/eop:metaDataProperty
group /METADATA/EOP_METADATA/eop:metaDataProperty/eop:archivedIn
group /METADATA/EOP_METADATA/eop:metaDataProperty/eop:downloadedTo
group /METADATA/EOP_METADATA/eop:metaDataProperty/eop:processing
group /METADATA/EOP_METADATA/om:featureOfInterest
group /METADATA/EOP_METADATA/om:featureOfInterest/eop:multiExtentOf
group /METADATA/EOP_METADATA/om:featureOfInterest/eop:multiExtentOf/gml:surfaceMembers
group /METADATA/EOP_METADATA/om:featureOfInterest/eop:multiExtentOf/gml:surfaceMembers/gml:exterior
group /METADATA/EOP_METADATA/om:observedProperty
group /METADATA/EOP_METADATA/om:phenomenonTime
group /METADATA/EOP_METADATA/om:procedure
group /METADATA/EOP_METADATA/om:procedure/eop:acquisitionParameters
group /METADATA/EOP_METADATA/om:procedure/eop:instrument
group /METADATA/EOP_METADATA/om:procedure/eop:platform
group /METADATA/EOP_METADATA/om:procedure/eop:sensor
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group /METADATA/EOP_METADATA/om:result/eop:product
group /METADATA/EOP_METADATA/om:result/eop:product/eop:fileName
group /METADATA/EOP_METADATA/om:resultTime
group /METADATA/ESA_METADATA
group /METADATA/ESA_METADATA/earth_explorer_header
group /METADATA/ESA_METADATA/earth_explorer_header/fixed_header
group /METADATA/ESA_METADATA/earth_explorer_header/fixed_header/source
group /METADATA/ESA_METADATA/earth_explorer_header/fixed_header/validity_period
group /METADATA/ISO_METADATA

group /METADATA/ISO_METADATA/gmd:characterSet
group /METADATA/ISO_METADATA/gmd:contact
group /METADATA/ISO_METADATA/gmd:contact/gmd:contactInfo
group /METADATA/ISO_METADATA/gmd:contact/gmd:contactInfo/gmd:address
group /METADATA/ISO_METADATA/gmd:contact/gmd:role
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group /METADATA/ISO_METADATA/gmd:dataQualityInfo/gmd:lineage/gmd:processStep/gmd:source
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group /METADATA/ISO_METADATA/gmd:dataQualityInfo/gmd:lineage/gmd:processStep/gmi:output/gmd:sourceCitation/gmd:date
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group /METADATA/ISO_METADATA/gmd:dataQualityInfo/gmd:lineage/gmd:processStep/gmi:output/gmi:processedLevel
group /METADATA/ISO_METADATA/gmd:dataQualityInfo/gmd:lineage/gmd:processStep/gmi:processingInformation
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group /METADATA/ISO_METADATA/gmd:dataQualityInfo/gmd:lineage/gmd:processStep/gmi:processingInformation/gmi:documentation_1/gmd:date/gmd:dateType
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d:date group

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dataset	/MODE_NADIR/BAND_1A/CLOUDDATA/surface_albedo
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dataset	/MODE_NADIR/BAND_1A/GEODATA/longitude
dataset	/MODE_NADIR/BAND_1A/GEODATA/longitude_bounds
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dataset	/MODE_NADIR/BAND_1A/GEODATA/solar_zenith_angle_sat
dataset	/MODE_NADIR/BAND_1A/GEODATA/sub_satellite_latitude
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dataset	/MODE_NADIR/BAND_1A/GEODATA/viewing_azimuth_angle_sat
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dataset	/MODE_NADIR/BAND_1A/GEODATA/viewing_zenith_angle_sat
group	/MODE_NADIR/BAND_1A/OBSERVATIONS
dataset	/MODE_NADIR/BAND_1A/OBSERVATIONS/delta_time
dataset	/MODE_NADIR/BAND_1A/OBSERVATIONS/integration_time
dataset	/MODE_NADIR/BAND_1A/OBSERVATIONS/radiance

dataset	/MODE_NADIR/BAND_1A/OBSERVATIONS/radiance_flags
dataset	/MODE_NADIR/BAND_1A/OBSERVATIONS/radiance_precision
dataset	/MODE_NADIR/BAND_1A/OBSERVATIONS/scanline
dataset	/MODE_NADIR/BAND_1A/OBSERVATIONS/spectral_index
dataset	/MODE_NADIR/BAND_1A/OBSERVATIONS/temperature
dataset	/MODE_NADIR/BAND_1A/OBSERVATIONS/time
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dataset	/MODE_NADIR/BAND_1A/POLARISATION/polarisation_q_overlap
dataset	/MODE_NADIR/BAND_1A/POLARISATION/polarisation_q_overlap_error
dataset	/MODE_NADIR/BAND_1A/POLARISATION/polarisation_q_overlap_wavelength
dataset	/MODE_NADIR/BAND_1A/POLARISATION/polarisation_q_pmd
dataset	/MODE_NADIR/BAND_1A/POLARISATION/polarisation_q_pmd_error
dataset	/MODE_NADIR/BAND_1A/POLARISATION/polarisation_q_pmd_wavelength
dataset	/MODE_NADIR/BAND_1A/POLARISATION/polarisation_q_theoretic
dataset	/MODE_NADIR/BAND_1A/POLARISATION/polarisation_q_theoretic_error
dataset	/MODE_NADIR/BAND_1A/POLARISATION/polarisation_q_theoretic_wavelength
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dataset	/MODE_NADIR/BAND_1A/end_pixel
dataset	/MODE_NADIR/BAND_1A/ground_pixel
dataset	/MODE_NADIR/BAND_1A/scanline
dataset	/MODE_NADIR/BAND_1A/spectral_channel
dataset	/MODE_NADIR/BAND_1A/start_pixel
group	/MODE_NADIR/BAND_1B
group	/MODE_NADIR/BAND_1B/CLOUDDATA
dataset	/MODE_NADIR/BAND_1B/CLOUDDATA/cloud_albedo
dataset	/MODE_NADIR/BAND_1B/CLOUDDATA/cloud_albedo_precision
dataset	/MODE_NADIR/BAND_1B/CLOUDDATA/cloud_fraction
dataset	/MODE_NADIR/BAND_1B/CLOUDDATA/cloud_fraction_precision
dataset	/MODE_NADIR/BAND_1B/CLOUDDATA/cloud_height

dataset	/MODE_NADIR/BAND_1B/CLOUDDATA/cloud_height_precision
dataset	/MODE_NADIR/BAND_1B/CLOUDDATA/cloud_optical_thickness
dataset	/MODE_NADIR/BAND_1B/CLOUDDATA/cloud_optical_thickness_precision
dataset	/MODE_NADIR/BAND_1B/CLOUDDATA/cloud_pressure
dataset	/MODE_NADIR/BAND_1B/CLOUDDATA/cloud_pressure_precision
dataset	/MODE_NADIR/BAND_1B/CLOUDDATA/sun_glint
dataset	/MODE_NADIR/BAND_1B/CLOUDDATA/surface_albedo
group	/MODE_NADIR/BAND_1B/GEODATA
dataset	/MODE_NADIR/BAND_1B/GEODATA/earth_radius
dataset	/MODE_NADIR/BAND_1B/GEODATA/latitude
dataset	/MODE_NADIR/BAND_1B/GEODATA/latitude_bounds
dataset	/MODE_NADIR/BAND_1B/GEODATA/longitude
dataset	/MODE_NADIR/BAND_1B/GEODATA/longitude_bounds
dataset	/MODE_NADIR/BAND_1B/GEODATA/satellite_altitude
dataset	/MODE_NADIR/BAND_1B/GEODATA/solar_azimuth_angle
dataset	/MODE_NADIR/BAND_1B/GEODATA/solar_azimuth_angle_sat
dataset	/MODE_NADIR/BAND_1B/GEODATA/solar_zenith_angle
dataset	/MODE_NADIR/BAND_1B/GEODATA/solar_zenith_angle_sat
dataset	/MODE_NADIR/BAND_1B/GEODATA/sub_satellite_latitude
dataset	/MODE_NADIR/BAND_1B/GEODATA/sub_satellite_longitude
dataset	/MODE_NADIR/BAND_1B/GEODATA/viewing_azimuth_angle
dataset	/MODE_NADIR/BAND_1B/GEODATA/viewing_azimuth_angle_sat
dataset	/MODE_NADIR/BAND_1B/GEODATA/viewing_zenith_angle
dataset	/MODE_NADIR/BAND_1B/GEODATA/viewing_zenith_angle_sat
group	/MODE_NADIR/BAND_1B/OBSERVATIONS
dataset	/MODE_NADIR/BAND_1B/OBSERVATIONS/delta_time
dataset	/MODE_NADIR/BAND_1B/OBSERVATIONS/integration_time
dataset	/MODE_NADIR/BAND_1B/OBSERVATIONS/radiance
dataset	/MODE_NADIR/BAND_1B/OBSERVATIONS/radiance_flags
dataset	/MODE_NADIR/BAND_1B/OBSERVATIONS/radiance_precision

dataset	/MODE_NADIR/BAND_1B/OBSERVATIONS/scanline
dataset	/MODE_NADIR/BAND_1B/OBSERVATIONS/spectral_index
dataset	/MODE_NADIR/BAND_1B/OBSERVATIONS/temperature
dataset	/MODE_NADIR/BAND_1B/OBSERVATIONS/time
group	/MODE_NADIR/BAND_1B/POLARISATION
dataset	/MODE_NADIR/BAND_1B/POLARISATION/polarisation_chi
dataset	/MODE_NADIR/BAND_1B/POLARISATION/polarisation_q_overlap
dataset	/MODE_NADIR/BAND_1B/POLARISATION/polarisation_q_overlap_error
dataset	/MODE_NADIR/BAND_1B/POLARISATION/polarisation_q_overlap_wavelength
dataset	/MODE_NADIR/BAND_1B/POLARISATION/polarisation_q_pmd
dataset	/MODE_NADIR/BAND_1B/POLARISATION/polarisation_q_pmd_error
dataset	/MODE_NADIR/BAND_1B/POLARISATION/polarisation_q_pmd_wavelength
dataset	/MODE_NADIR/BAND_1B/POLARISATION/polarisation_q_theoretic
dataset	/MODE_NADIR/BAND_1B/POLARISATION/polarisation_q_theoretic_error
dataset	/MODE_NADIR/BAND_1B/POLARISATION/polarisation_q_theoretic_wavelength
dataset	/MODE_NADIR/BAND_1B/detector
dataset	/MODE_NADIR/BAND_1B/end_pixel
dataset	/MODE_NADIR/BAND_1B/ground_pixel
dataset	/MODE_NADIR/BAND_1B/scanline
dataset	/MODE_NADIR/BAND_1B/spectral_channel
dataset	/MODE_NADIR/BAND_1B/start_pixel
group	/MODE_NADIR/BAND_2A
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dataset	/MODE_NADIR/BAND_2A/CLOUDDATA/cloud_albedo
dataset	/MODE_NADIR/BAND_2A/CLOUDDATA/cloud_albedo_precision
dataset	/MODE_NADIR/BAND_2A/CLOUDDATA/cloud_fraction
dataset	/MODE_NADIR/BAND_2A/CLOUDDATA/cloud_fraction_precision
dataset	/MODE_NADIR/BAND_2A/CLOUDDATA/cloud_height
dataset	/MODE_NADIR/BAND_2A/CLOUDDATA/cloud_height_precision
dataset	/MODE_NADIR/BAND_2A/CLOUDDATA/cloud_optical_thickness

dataset	/MODE_NADIR/BAND_2A/CLOUDDATA/cloud_optical_thickness_precision
dataset	/MODE_NADIR/BAND_2A/CLOUDDATA/cloud_pressure
dataset	/MODE_NADIR/BAND_2A/CLOUDDATA/cloud_pressure_precision
dataset	/MODE_NADIR/BAND_2A/CLOUDDATA/sun_glint
dataset	/MODE_NADIR/BAND_2A/CLOUDDATA/surface_albedo
group	/MODE_NADIR/BAND_2A/GEODATA
dataset	/MODE_NADIR/BAND_2A/GEODATA/earth_radius
dataset	/MODE_NADIR/BAND_2A/GEODATA/latitude
dataset	/MODE_NADIR/BAND_2A/GEODATA/latitude_bounds
dataset	/MODE_NADIR/BAND_2A/GEODATA/longitude
dataset	/MODE_NADIR/BAND_2A/GEODATA/longitude_bounds
dataset	/MODE_NADIR/BAND_2A/GEODATA/satellite_altitude
dataset	/MODE_NADIR/BAND_2A/GEODATA/solar_azimuth_angle
dataset	/MODE_NADIR/BAND_2A/GEODATA/solar_azimuth_angle_sat
dataset	/MODE_NADIR/BAND_2A/GEODATA/solar_zenith_angle
dataset	/MODE_NADIR/BAND_2A/GEODATA/solar_zenith_angle_sat
dataset	/MODE_NADIR/BAND_2A/GEODATA/sub_satellite_latitude
dataset	/MODE_NADIR/BAND_2A/GEODATA/sub_satellite_longitude
dataset	/MODE_NADIR/BAND_2A/GEODATA/viewing_azimuth_angle
dataset	/MODE_NADIR/BAND_2A/GEODATA/viewing_azimuth_angle_sat
dataset	/MODE_NADIR/BAND_2A/GEODATA/viewing_zenith_angle
dataset	/MODE_NADIR/BAND_2A/GEODATA/viewing_zenith_angle_sat
group	/MODE_NADIR/BAND_2A/OBSERVATIONS
dataset	/MODE_NADIR/BAND_2A/OBSERVATIONS/delta_time
dataset	/MODE_NADIR/BAND_2A/OBSERVATIONS/integration_time
dataset	/MODE_NADIR/BAND_2A/OBSERVATIONS/radiance
dataset	/MODE_NADIR/BAND_2A/OBSERVATIONS/radiance_flags
dataset	/MODE_NADIR/BAND_2A/OBSERVATIONS/radiance_precision
dataset	/MODE_NADIR/BAND_2A/OBSERVATIONS/scanline
dataset	/MODE_NADIR/BAND_2A/OBSERVATIONS/spectral_index

dataset	/MODE_NADIR/BAND_2A/OBSERVATIONS/temperature
dataset	/MODE_NADIR/BAND_2A/OBSERVATIONS/time
group	/MODE_NADIR/BAND_2A/POLARISATION
dataset	/MODE_NADIR/BAND_2A/POLARISATION/polarisation_chi
dataset	/MODE_NADIR/BAND_2A/POLARISATION/polarisation_q_overlap
dataset	/MODE_NADIR/BAND_2A/POLARISATION/polarisation_q_overlap_error
dataset	/MODE_NADIR/BAND_2A/POLARISATION/polarisation_q_overlap_wavelength
dataset	/MODE_NADIR/BAND_2A/POLARISATION/polarisation_q_pmd
dataset	/MODE_NADIR/BAND_2A/POLARISATION/polarisation_q_pmd_error
dataset	/MODE_NADIR/BAND_2A/POLARISATION/polarisation_q_pmd_wavelength
dataset	/MODE_NADIR/BAND_2A/POLARISATION/polarisation_q_theoretic
dataset	/MODE_NADIR/BAND_2A/POLARISATION/polarisation_q_theoretic_error
dataset	/MODE_NADIR/BAND_2A/POLARISATION/polarisation_q_theoretic_wavelength
dataset	/MODE_NADIR/BAND_2A/detector
dataset	/MODE_NADIR/BAND_2A/end_pixel
dataset	/MODE_NADIR/BAND_2A/ground_pixel
dataset	/MODE_NADIR/BAND_2A/scanline
dataset	/MODE_NADIR/BAND_2A/spectral_channel
dataset	/MODE_NADIR/BAND_2A/start_pixel
group	/MODE_NADIR/BAND_2B
group	/MODE_NADIR/BAND_2B/CLOUDDATA
dataset	/MODE_NADIR/BAND_2B/CLOUDDATA/cloud_albedo
dataset	/MODE_NADIR/BAND_2B/CLOUDDATA/cloud_albedo_precision
dataset	/MODE_NADIR/BAND_2B/CLOUDDATA/cloud_fraction
dataset	/MODE_NADIR/BAND_2B/CLOUDDATA/cloud_fraction_precision
dataset	/MODE_NADIR/BAND_2B/CLOUDDATA/cloud_height
dataset	/MODE_NADIR/BAND_2B/CLOUDDATA/cloud_height_precision
dataset	/MODE_NADIR/BAND_2B/CLOUDDATA/cloud_optical_thickness
dataset	/MODE_NADIR/BAND_2B/CLOUDDATA/cloud_optical_thickness_precision
dataset	/MODE_NADIR/BAND_2B/CLOUDDATA/cloud_pressure

dataset	/MODE_NADIR/BAND_2B/CLOUDDATA/cloud_pressure_precision
dataset	/MODE_NADIR/BAND_2B/CLOUDDATA/sun_glint
dataset	/MODE_NADIR/BAND_2B/CLOUDDATA/surface_albedo
group	/MODE_NADIR/BAND_2B/GEODATA
dataset	/MODE_NADIR/BAND_2B/GEODATA/earth_radius
dataset	/MODE_NADIR/BAND_2B/GEODATA/latitude
dataset	/MODE_NADIR/BAND_2B/GEODATA/latitude_bounds
dataset	/MODE_NADIR/BAND_2B/GEODATA/longitude
dataset	/MODE_NADIR/BAND_2B/GEODATA/longitude_bounds
dataset	/MODE_NADIR/BAND_2B/GEODATA/satellite_altitude
dataset	/MODE_NADIR/BAND_2B/GEODATA/solar_azimuth_angle
dataset	/MODE_NADIR/BAND_2B/GEODATA/solar_azimuth_angle_sat
dataset	/MODE_NADIR/BAND_2B/GEODATA/solar_zenith_angle
dataset	/MODE_NADIR/BAND_2B/GEODATA/solar_zenith_angle_sat
dataset	/MODE_NADIR/BAND_2B/GEODATA/sub_satellite_latitude
dataset	/MODE_NADIR/BAND_2B/GEODATA/sub_satellite_longitude
dataset	/MODE_NADIR/BAND_2B/GEODATA/viewing_azimuth_angle
dataset	/MODE_NADIR/BAND_2B/GEODATA/viewing_azimuth_angle_sat
dataset	/MODE_NADIR/BAND_2B/GEODATA/viewing_zenith_angle
dataset	/MODE_NADIR/BAND_2B/GEODATA/viewing_zenith_angle_sat
group	/MODE_NADIR/BAND_2B/OBSERVATIONS
dataset	/MODE_NADIR/BAND_2B/OBSERVATIONS/delta_time
dataset	/MODE_NADIR/BAND_2B/OBSERVATIONS/integration_time
dataset	/MODE_NADIR/BAND_2B/OBSERVATIONS/radiance
dataset	/MODE_NADIR/BAND_2B/OBSERVATIONS/radiance_flags
dataset	/MODE_NADIR/BAND_2B/OBSERVATIONS/radiance_precision
dataset	/MODE_NADIR/BAND_2B/OBSERVATIONS/scanline
dataset	/MODE_NADIR/BAND_2B/OBSERVATIONS/spectral_index
dataset	/MODE_NADIR/BAND_2B/OBSERVATIONS/temperature
dataset	/MODE_NADIR/BAND_2B/OBSERVATIONS/time

group	/MODE_NADIR/BAND_2B/POLARISATION
dataset	/MODE_NADIR/BAND_2B/POLARISATION/polarisation_chi
dataset	/MODE_NADIR/BAND_2B/POLARISATION/polarisation_q_overlap
dataset	/MODE_NADIR/BAND_2B/POLARISATION/polarisation_q_overlap_error
dataset	/MODE_NADIR/BAND_2B/POLARISATION/polarisation_q_overlap_wavelength
dataset	/MODE_NADIR/BAND_2B/POLARISATION/polarisation_q_pmd
dataset	/MODE_NADIR/BAND_2B/POLARISATION/polarisation_q_pmd_error
dataset	/MODE_NADIR/BAND_2B/POLARISATION/polarisation_q_pmd_wavelength
dataset	/MODE_NADIR/BAND_2B/POLARISATION/polarisation_q_theoretic
dataset	/MODE_NADIR/BAND_2B/POLARISATION/polarisation_q_theoretic_error
dataset	/MODE_NADIR/BAND_2B/POLARISATION/polarisation_q_theoretic_wavelength
dataset	/MODE_NADIR/BAND_2B/detector
dataset	/MODE_NADIR/BAND_2B/end_pixel
dataset	/MODE_NADIR/BAND_2B/ground_pixel
dataset	/MODE_NADIR/BAND_2B/scanline
dataset	/MODE_NADIR/BAND_2B/spectral_channel
dataset	/MODE_NADIR/BAND_2B/start_pixel
group	/MODE_NADIR/BAND_3
group	/MODE_NADIR/BAND_3/CLOUDDATA
dataset	/MODE_NADIR/BAND_3/CLOUDDATA/cloud_albedo
dataset	/MODE_NADIR/BAND_3/CLOUDDATA/cloud_albedo_precision
dataset	/MODE_NADIR/BAND_3/CLOUDDATA/cloud_fraction
dataset	/MODE_NADIR/BAND_3/CLOUDDATA/cloud_fraction_precision
dataset	/MODE_NADIR/BAND_3/CLOUDDATA/cloud_height
dataset	/MODE_NADIR/BAND_3/CLOUDDATA/cloud_height_precision
dataset	/MODE_NADIR/BAND_3/CLOUDDATA/cloud_optical_thickness
dataset	/MODE_NADIR/BAND_3/CLOUDDATA/cloud_optical_thickness_precision
dataset	/MODE_NADIR/BAND_3/CLOUDDATA/cloud_pressure
dataset	/MODE_NADIR/BAND_3/CLOUDDATA/cloud_pressure_precision
dataset	/MODE_NADIR/BAND_3/CLOUDDATA/sun_glint

dataset	/MODE_NADIR/BAND_3/CLOUDDATA/surface_albedo
group	/MODE_NADIR/BAND_3/GEODATA
dataset	/MODE_NADIR/BAND_3/GEODATA/earth_radius
dataset	/MODE_NADIR/BAND_3/GEODATA/latitude
dataset	/MODE_NADIR/BAND_3/GEODATA/latitude_bounds
dataset	/MODE_NADIR/BAND_3/GEODATA/longitude
dataset	/MODE_NADIR/BAND_3/GEODATA/longitude_bounds
dataset	/MODE_NADIR/BAND_3/GEODATA/satellite_altitude
dataset	/MODE_NADIR/BAND_3/GEODATA/solar_azimuth_angle
dataset	/MODE_NADIR/BAND_3/GEODATA/solar_azimuth_angle_sat
dataset	/MODE_NADIR/BAND_3/GEODATA/solar_zenith_angle
dataset	/MODE_NADIR/BAND_3/GEODATA/solar_zenith_angle_sat
dataset	/MODE_NADIR/BAND_3/GEODATA/sub_satellite_latitude
dataset	/MODE_NADIR/BAND_3/GEODATA/sub_satellite_longitude
dataset	/MODE_NADIR/BAND_3/GEODATA/viewing_azimuth_angle
dataset	/MODE_NADIR/BAND_3/GEODATA/viewing_azimuth_angle_sat
dataset	/MODE_NADIR/BAND_3/GEODATA/viewing_zenith_angle
dataset	/MODE_NADIR/BAND_3/GEODATA/viewing_zenith_angle_sat
group	/MODE_NADIR/BAND_3/OBSERVATIONS
dataset	/MODE_NADIR/BAND_3/OBSERVATIONS/delta_time
dataset	/MODE_NADIR/BAND_3/OBSERVATIONS/integration_time
dataset	/MODE_NADIR/BAND_3/OBSERVATIONS/radiance
dataset	/MODE_NADIR/BAND_3/OBSERVATIONS/radiance_flags
dataset	/MODE_NADIR/BAND_3/OBSERVATIONS/radiance_precision
dataset	/MODE_NADIR/BAND_3/OBSERVATIONS/scanline
dataset	/MODE_NADIR/BAND_3/OBSERVATIONS/spectral_index
dataset	/MODE_NADIR/BAND_3/OBSERVATIONS/temperature
dataset	/MODE_NADIR/BAND_3/OBSERVATIONS/time
group	/MODE_NADIR/BAND_3/POLARISATION
dataset	/MODE_NADIR/BAND_3/POLARISATION/polarisation_chi

dataset	/MODE_NADIR/BAND_3/POLARISATION/polarisation_q_overlap
dataset	/MODE_NADIR/BAND_3/POLARISATION/polarisation_q_overlap_error
dataset	/MODE_NADIR/BAND_3/POLARISATION/polarisation_q_overlap_wavelength
dataset	/MODE_NADIR/BAND_3/POLARISATION/polarisation_q_pmd
dataset	/MODE_NADIR/BAND_3/POLARISATION/polarisation_q_pmd_error
dataset	/MODE_NADIR/BAND_3/POLARISATION/polarisation_q_pmd_wavelength
dataset	/MODE_NADIR/BAND_3/POLARISATION/polarisation_q_theoretic
dataset	/MODE_NADIR/BAND_3/POLARISATION/polarisation_q_theoretic_error
dataset	/MODE_NADIR/BAND_3/POLARISATION/polarisation_q_theoretic_wavelength
dataset	/MODE_NADIR/BAND_3/detector
dataset	/MODE_NADIR/BAND_3/end_pixel
dataset	/MODE_NADIR/BAND_3/ground_pixel
dataset	/MODE_NADIR/BAND_3/scanline
dataset	/MODE_NADIR/BAND_3/spectral_channel
dataset	/MODE_NADIR/BAND_3/start_pixel
group	/MODE_NADIR/BAND_4
group	/MODE_NADIR/BAND_4/CLOUDDATA
dataset	/MODE_NADIR/BAND_4/CLOUDDATA/cloud_albedo
dataset	/MODE_NADIR/BAND_4/CLOUDDATA/cloud_albedo_precision
dataset	/MODE_NADIR/BAND_4/CLOUDDATA/cloud_fraction
dataset	/MODE_NADIR/BAND_4/CLOUDDATA/cloud_fraction_precision
dataset	/MODE_NADIR/BAND_4/CLOUDDATA/cloud_height
dataset	/MODE_NADIR/BAND_4/CLOUDDATA/cloud_height_precision
dataset	/MODE_NADIR/BAND_4/CLOUDDATA/cloud_optical_thickness
dataset	/MODE_NADIR/BAND_4/CLOUDDATA/cloud_optical_thickness_precision
dataset	/MODE_NADIR/BAND_4/CLOUDDATA/cloud_pressure
dataset	/MODE_NADIR/BAND_4/CLOUDDATA/cloud_pressure_precision
dataset	/MODE_NADIR/BAND_4/CLOUDDATA/sun_glint
dataset	/MODE_NADIR/BAND_4/CLOUDDATA/surface_albedo
group	/MODE_NADIR/BAND_4/GEODATA

dataset /MODE_NADIR/BAND_4/GEODATA/earth_radius
dataset /MODE_NADIR/BAND_4/GEODATA/latitude
dataset /MODE_NADIR/BAND_4/GEODATA/latitude_bounds
dataset /MODE_NADIR/BAND_4/GEODATA/longitude
dataset /MODE_NADIR/BAND_4/GEODATA/longitude_bounds
dataset /MODE_NADIR/BAND_4/GEODATA/satellite_altitude
dataset /MODE_NADIR/BAND_4/GEODATA/solar_azimuth_angle
dataset /MODE_NADIR/BAND_4/GEODATA/solar_azimuth_angle_sat
dataset /MODE_NADIR/BAND_4/GEODATA/solar_zenith_angle
dataset /MODE_NADIR/BAND_4/GEODATA/solar_zenith_angle_sat
dataset /MODE_NADIR/BAND_4/GEODATA/sub_satellite_latitude
dataset /MODE_NADIR/BAND_4/GEODATA/sub_satellite_longitude
dataset /MODE_NADIR/BAND_4/GEODATA/viewing_azimuth_angle
dataset /MODE_NADIR/BAND_4/GEODATA/viewing_azimuth_angle_sat
dataset /MODE_NADIR/BAND_4/GEODATA/viewing_zenith_angle
dataset /MODE_NADIR/BAND_4/GEODATA/viewing_zenith_angle_sat
group /MODE_NADIR/BAND_4/OBSERVATIONS
dataset /MODE_NADIR/BAND_4/OBSERVATIONS/delta_time
dataset /MODE_NADIR/BAND_4/OBSERVATIONS/integration_time
dataset /MODE_NADIR/BAND_4/OBSERVATIONS/radiance
dataset /MODE_NADIR/BAND_4/OBSERVATIONS/radiance_flags
dataset /MODE_NADIR/BAND_4/OBSERVATIONS/radiance_precision
dataset /MODE_NADIR/BAND_4/OBSERVATIONS/scanline
dataset /MODE_NADIR/BAND_4/OBSERVATIONS/spectral_index
dataset /MODE_NADIR/BAND_4/OBSERVATIONS/temperature
dataset /MODE_NADIR/BAND_4/OBSERVATIONS/time
group /MODE_NADIR/BAND_4/POLARISATION
dataset /MODE_NADIR/BAND_4/POLARISATION/polarisation_chi
dataset /MODE_NADIR/BAND_4/POLARISATION/polarisation_q_overlap
dataset /MODE_NADIR/BAND_4/POLARISATION/polarisation_q_overlap_error

dataset	/MODE_NADIR/BAND_4/POLARISATION/polarisation_q_overlap_wavelength
dataset	/MODE_NADIR/BAND_4/POLARISATION/polarisation_q_pmd
dataset	/MODE_NADIR/BAND_4/POLARISATION/polarisation_q_pmd_error
dataset	/MODE_NADIR/BAND_4/POLARISATION/polarisation_q_pmd_wavelength
dataset	/MODE_NADIR/BAND_4/POLARISATION/polarisation_q_theoretic
dataset	/MODE_NADIR/BAND_4/POLARISATION/polarisation_q_theoretic_error
dataset	/MODE_NADIR/BAND_4/POLARISATION/polarisation_q_theoretic_wavelength
dataset	/MODE_NADIR/BAND_4/detector
dataset	/MODE_NADIR/BAND_4/end_pixel
dataset	/MODE_NADIR/BAND_4/ground_pixel
dataset	/MODE_NADIR/BAND_4/scanline
dataset	/MODE_NADIR/BAND_4/spectral_channel
dataset	/MODE_NADIR/BAND_4/start_pixel
group	/MODE_NADIR/PMD
group	/MODE_NADIR/PMD/GEODATA
dataset	/MODE_NADIR/PMD/GEODATA/earth_radius
dataset	/MODE_NADIR/PMD/GEODATA/latitude
dataset	/MODE_NADIR/PMD/GEODATA/latitude_bounds
dataset	/MODE_NADIR/PMD/GEODATA/longitude
dataset	/MODE_NADIR/PMD/GEODATA/longitude_bounds
dataset	/MODE_NADIR/PMD/GEODATA/satellite_altitude
dataset	/MODE_NADIR/PMD/GEODATA/solar_azimuth_angle
dataset	/MODE_NADIR/PMD/GEODATA/solar_azimuth_angle_sat
dataset	/MODE_NADIR/PMD/GEODATA/solar_zenith_angle
dataset	/MODE_NADIR/PMD/GEODATA/solar_zenith_angle_sat
dataset	/MODE_NADIR/PMD/GEODATA/sub_satellite_latitude
dataset	/MODE_NADIR/PMD/GEODATA/sub_satellite_longitude
dataset	/MODE_NADIR/PMD/GEODATA/viewing_azimuth_angle
dataset	/MODE_NADIR/PMD/GEODATA/viewing_azimuth_angle_sat
dataset	/MODE_NADIR/PMD/GEODATA/viewing_zenith_angle

dataset	/MODE_NADIR/PMD/GEODATA/viewing_zenith_angle_sat
group	/MODE_NADIR/PMD/OBSERVATIONS
dataset	/MODE_NADIR/PMD/OBSERVATIONS/delta_time
dataset	/MODE_NADIR/PMD/OBSERVATIONS/radiance
dataset	/MODE_NADIR/PMD/OBSERVATIONS/radiance_flags
dataset	/MODE_NADIR/PMD/OBSERVATIONS/scanline
dataset	/MODE_NADIR/PMD/OBSERVATIONS/wavelength
dataset	/MODE_NADIR/PMD/ground_pixel
dataset	/MODE_NADIR/PMD/sampling_time
dataset	/MODE_NADIR/PMD/scanline
dataset	/MODE_NADIR/PMD/spectral_channel
group	/MODE_NADIR_BACKSCAN
group	/MODE_NADIR_BACKSCAN/BAND_1B
group	/MODE_NADIR_BACKSCAN/BAND_1B/CLOUDDATA
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/CLOUDDATA/cloud_albedo
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/CLOUDDATA/cloud_albedo_precision
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/CLOUDDATA/cloud_fraction
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/CLOUDDATA/cloud_fraction_precision
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/CLOUDDATA/cloud_height
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/CLOUDDATA/cloud_height_precision
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/CLOUDDATA/cloud_optical_thickness
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/CLOUDDATA/cloud_optical_thickness_precision
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/CLOUDDATA/cloud_pressure
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/CLOUDDATA/cloud_pressure_precision
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/CLOUDDATA/sun_glint
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/CLOUDDATA/surface_albedo
group	/MODE_NADIR_BACKSCAN/BAND_1B/GEODATA
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/GEODATA/earth_radius
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/GEODATA/latitude
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/GEODATA/latitude_bounds

dataset	/MODE_NADIR_BACKSCAN/BAND_1B/GEODATA/longitude
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/GEODATA/longitude_bounds
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/GEODATA/satellite_altitude
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/GEODATA/solar_azimuth_angle
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/GEODATA/solar_azimuth_angle_sat
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/GEODATA/solar_zenith_angle
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/GEODATA/solar_zenith_angle_sat
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/GEODATA/sub_satellite_latitude
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/GEODATA/sub_satellite_longitude
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/GEODATA/viewing_azimuth_angle
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/GEODATA/viewing_azimuth_angle_sat
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/GEODATA/viewing_zenith_angle
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/GEODATA/viewing_zenith_angle_sat
group	/MODE_NADIR_BACKSCAN/BAND_1B/OBSERVATIONS
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/OBSERVATIONS/delta_time
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/OBSERVATIONS/integration_time
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/OBSERVATIONS/radiance
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/OBSERVATIONS/radiance_flags
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/OBSERVATIONS/radiance_precision
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/OBSERVATIONS/scanline
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/OBSERVATIONS/spectral_index
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/OBSERVATIONS/temperature
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/OBSERVATIONS/time
group	/MODE_NADIR_BACKSCAN/BAND_1B/POLARISATION
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/POLARISATION/polarisation_chi
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/POLARISATION/polarisation_q_overlap
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/POLARISATION/polarisation_q_overlap_error
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/POLARISATION/polarisation_q_overlap_wavelength
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/POLARISATION/polarisation_q_pmd
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/POLARISATION/polarisation_q_pmd_error

dataset	/MODE_NADIR_BACKSCAN/BAND_1B/POLARISATION/polarisation_q_pmd_wavelength
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/POLARISATION/polarisation_q_theoretic
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/POLARISATION/polarisation_q_theoretic_error
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/POLARISATION/polarisation_q_theoretic_wavelength
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/detector
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/end_pixel
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/ground_pixel
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/scanline
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/spectral_channel
dataset	/MODE_NADIR_BACKSCAN/BAND_1B/start_pixel
group	/MODE_NADIR_BACKSCAN/BAND_2A
group	/MODE_NADIR_BACKSCAN/BAND_2A/CLOUDDATA
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/CLOUDDATA/cloud_albedo
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/CLOUDDATA/cloud_albedo_precision
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/CLOUDDATA/cloud_fraction
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/CLOUDDATA/cloud_fraction_precision
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/CLOUDDATA/cloud_height
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/CLOUDDATA/cloud_height_precision
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/CLOUDDATA/cloud_optical_thickness
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/CLOUDDATA/cloud_optical_thickness_precision
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/CLOUDDATA/cloud_pressure
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/CLOUDDATA/cloud_pressure_precision
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/CLOUDDATA/sun_glint
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/CLOUDDATA/surface_albedo
group	/MODE_NADIR_BACKSCAN/BAND_2A/GEODATA
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/GEODATA/earth_radius
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/GEODATA/latitude
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/GEODATA/latitude_bounds
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/GEODATA/longitude
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/GEODATA/longitude_bounds

dataset	/MODE_NADIR_BACKSCAN/BAND_2A/GEODATA/satellite_altitude
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/GEODATA/solar_azimuth_angle
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/GEODATA/solar_azimuth_angle_sat
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/GEODATA/solar_zenith_angle
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/GEODATA/solar_zenith_angle_sat
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/GEODATA/sub_satellite_latitude
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/GEODATA/sub_satellite_longitude
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/GEODATA/viewing_azimuth_angle
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/GEODATA/viewing_azimuth_angle_sat
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/GEODATA/viewing_zenith_angle
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/GEODATA/viewing_zenith_angle_sat
group	/MODE_NADIR_BACKSCAN/BAND_2A/OBSERVATIONS
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/OBSERVATIONS/delta_time
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/OBSERVATIONS/integration_time
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/OBSERVATIONS/radiance
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/OBSERVATIONS/radiance_flags
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/OBSERVATIONS/radiance_precision
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/OBSERVATIONS/scanline
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/OBSERVATIONS/spectral_index
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/OBSERVATIONS/temperature
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/OBSERVATIONS/time
group	/MODE_NADIR_BACKSCAN/BAND_2A/POLARISATION
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/POLARISATION/polarisation_chi
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/POLARISATION/polarisation_q_overlap
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/POLARISATION/polarisation_q_overlap_error
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/POLARISATION/polarisation_q_overlap_wavelength
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/POLARISATION/polarisation_q_pmd
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/POLARISATION/polarisation_q_pmd_error
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/POLARISATION/polarisation_q_pmd_wavelength
dataset	/MODE_NADIR_BACKSCAN/BAND_2A/POLARISATION/polarisation_q_theoretic

dataset /MODE_NADIR_BACKSCAN/BAND_2A/POLARISATION/polarisation_q_theoretic_error
dataset /MODE_NADIR_BACKSCAN/BAND_2A/POLARISATION/polarisation_q_theoretic_wavelength
dataset /MODE_NADIR_BACKSCAN/BAND_2A/detector
dataset /MODE_NADIR_BACKSCAN/BAND_2A/end_pixel
dataset /MODE_NADIR_BACKSCAN/BAND_2A/ground_pixel
dataset /MODE_NADIR_BACKSCAN/BAND_2A/scanline
dataset /MODE_NADIR_BACKSCAN/BAND_2A/spectral_channel
dataset /MODE_NADIR_BACKSCAN/BAND_2A/start_pixel
group /MODE_NADIR_BACKSCAN/BAND_2B
group /MODE_NADIR_BACKSCAN/BAND_2B/CLOUDDATA
dataset /MODE_NADIR_BACKSCAN/BAND_2B/CLOUDDATA/cloud_albedo
dataset /MODE_NADIR_BACKSCAN/BAND_2B/CLOUDDATA/cloud_albedo_precision
dataset /MODE_NADIR_BACKSCAN/BAND_2B/CLOUDDATA/cloud_fraction
dataset /MODE_NADIR_BACKSCAN/BAND_2B/CLOUDDATA/cloud_fraction_precision
dataset /MODE_NADIR_BACKSCAN/BAND_2B/CLOUDDATA/cloud_height
dataset /MODE_NADIR_BACKSCAN/BAND_2B/CLOUDDATA/cloud_height_precision
dataset /MODE_NADIR_BACKSCAN/BAND_2B/CLOUDDATA/cloud_optical_thickness
dataset /MODE_NADIR_BACKSCAN/BAND_2B/CLOUDDATA/cloud_optical_thickness_precision
dataset /MODE_NADIR_BACKSCAN/BAND_2B/CLOUDDATA/cloud_pressure
dataset /MODE_NADIR_BACKSCAN/BAND_2B/CLOUDDATA/cloud_pressure_precision
dataset /MODE_NADIR_BACKSCAN/BAND_2B/CLOUDDATA/sun_glint
dataset /MODE_NADIR_BACKSCAN/BAND_2B/CLOUDDATA/surface_albedo
group /MODE_NADIR_BACKSCAN/BAND_2B/GEODATA
dataset /MODE_NADIR_BACKSCAN/BAND_2B/GEODATA/earth_radius
dataset /MODE_NADIR_BACKSCAN/BAND_2B/GEODATA/latitude
dataset /MODE_NADIR_BACKSCAN/BAND_2B/GEODATA/latitude_bounds
dataset /MODE_NADIR_BACKSCAN/BAND_2B/GEODATA/longitude
dataset /MODE_NADIR_BACKSCAN/BAND_2B/GEODATA/longitude_bounds
dataset /MODE_NADIR_BACKSCAN/BAND_2B/GEODATA/satellite_altitude
dataset /MODE_NADIR_BACKSCAN/BAND_2B/GEODATA/solar_azimuth_angle

dataset /MODE_NADIR_BACKSCAN/BAND_2B/GEODATA/solar_azimuth_angle_sat
dataset /MODE_NADIR_BACKSCAN/BAND_2B/GEODATA/solar_zenith_angle
dataset /MODE_NADIR_BACKSCAN/BAND_2B/GEODATA/solar_zenith_angle_sat
dataset /MODE_NADIR_BACKSCAN/BAND_2B/GEODATA/sub_satellite_latitude
dataset /MODE_NADIR_BACKSCAN/BAND_2B/GEODATA/sub_satellite_longitude
dataset /MODE_NADIR_BACKSCAN/BAND_2B/GEODATA/viewing_azimuth_angle
dataset /MODE_NADIR_BACKSCAN/BAND_2B/GEODATA/viewing_azimuth_angle_sat
dataset /MODE_NADIR_BACKSCAN/BAND_2B/GEODATA/viewing_zenith_angle
dataset /MODE_NADIR_BACKSCAN/BAND_2B/GEODATA/viewing_zenith_angle_sat
group /MODE_NADIR_BACKSCAN/BAND_2B/OBSERVATIONS
dataset /MODE_NADIR_BACKSCAN/BAND_2B/OBSERVATIONS/delta_time
dataset /MODE_NADIR_BACKSCAN/BAND_2B/OBSERVATIONS/integration_time
dataset /MODE_NADIR_BACKSCAN/BAND_2B/OBSERVATIONS/radiance
dataset /MODE_NADIR_BACKSCAN/BAND_2B/OBSERVATIONS/radiance_flags
dataset /MODE_NADIR_BACKSCAN/BAND_2B/OBSERVATIONS/radiance_precision
dataset /MODE_NADIR_BACKSCAN/BAND_2B/OBSERVATIONS/scanline
dataset /MODE_NADIR_BACKSCAN/BAND_2B/OBSERVATIONS/spectral_index
dataset /MODE_NADIR_BACKSCAN/BAND_2B/OBSERVATIONS/temperature
dataset /MODE_NADIR_BACKSCAN/BAND_2B/OBSERVATIONS/time
group /MODE_NADIR_BACKSCAN/BAND_2B/POLARISATION
dataset /MODE_NADIR_BACKSCAN/BAND_2B/POLARISATION/polarisation_chi
dataset /MODE_NADIR_BACKSCAN/BAND_2B/POLARISATION/polarisation_q_overlap
dataset /MODE_NADIR_BACKSCAN/BAND_2B/POLARISATION/polarisation_q_overlap_error
dataset /MODE_NADIR_BACKSCAN/BAND_2B/POLARISATION/polarisation_q_overlap_wavelength
dataset /MODE_NADIR_BACKSCAN/BAND_2B/POLARISATION/polarisation_q_pmd
dataset /MODE_NADIR_BACKSCAN/BAND_2B/POLARISATION/polarisation_q_pmd_error
dataset /MODE_NADIR_BACKSCAN/BAND_2B/POLARISATION/polarisation_q_pmd_wavelength
dataset /MODE_NADIR_BACKSCAN/BAND_2B/POLARISATION/polarisation_q_theoretic
dataset /MODE_NADIR_BACKSCAN/BAND_2B/POLARISATION/polarisation_q_theoretic_error
dataset /MODE_NADIR_BACKSCAN/BAND_2B/POLARISATION/polarisation_q_theoretic_wavelength

dataset	/MODE_NADIR_BACKSCAN/BAND_2B/detector
dataset	/MODE_NADIR_BACKSCAN/BAND_2B/end_pixel
dataset	/MODE_NADIR_BACKSCAN/BAND_2B/ground_pixel
dataset	/MODE_NADIR_BACKSCAN/BAND_2B/scanline
dataset	/MODE_NADIR_BACKSCAN/BAND_2B/spectral_channel
dataset	/MODE_NADIR_BACKSCAN/BAND_2B/start_pixel
group	/MODE_NADIR_BACKSCAN/BAND_3
group	/MODE_NADIR_BACKSCAN/BAND_3/CLOUDDATA
dataset	/MODE_NADIR_BACKSCAN/BAND_3/CLOUDDATA/cloud_albedo
dataset	/MODE_NADIR_BACKSCAN/BAND_3/CLOUDDATA/cloud_albedo_precision
dataset	/MODE_NADIR_BACKSCAN/BAND_3/CLOUDDATA/cloud_fraction
dataset	/MODE_NADIR_BACKSCAN/BAND_3/CLOUDDATA/cloud_fraction_precision
dataset	/MODE_NADIR_BACKSCAN/BAND_3/CLOUDDATA/cloud_height
dataset	/MODE_NADIR_BACKSCAN/BAND_3/CLOUDDATA/cloud_height_precision
dataset	/MODE_NADIR_BACKSCAN/BAND_3/CLOUDDATA/cloud_optical_thickness
dataset	/MODE_NADIR_BACKSCAN/BAND_3/CLOUDDATA/cloud_optical_thickness_precision
dataset	/MODE_NADIR_BACKSCAN/BAND_3/CLOUDDATA/cloud_pressure
dataset	/MODE_NADIR_BACKSCAN/BAND_3/CLOUDDATA/cloud_pressure_precision
dataset	/MODE_NADIR_BACKSCAN/BAND_3/CLOUDDATA/sun_glint
dataset	/MODE_NADIR_BACKSCAN/BAND_3/CLOUDDATA/surface_albedo
group	/MODE_NADIR_BACKSCAN/BAND_3/GEODATA
dataset	/MODE_NADIR_BACKSCAN/BAND_3/GEODATA/earth_radius
dataset	/MODE_NADIR_BACKSCAN/BAND_3/GEODATA/latitude
dataset	/MODE_NADIR_BACKSCAN/BAND_3/GEODATA/latitude_bounds
dataset	/MODE_NADIR_BACKSCAN/BAND_3/GEODATA/longitude
dataset	/MODE_NADIR_BACKSCAN/BAND_3/GEODATA/longitude_bounds
dataset	/MODE_NADIR_BACKSCAN/BAND_3/GEODATA/satellite_altitude
dataset	/MODE_NADIR_BACKSCAN/BAND_3/GEODATA/solar_azimuth_angle
dataset	/MODE_NADIR_BACKSCAN/BAND_3/GEODATA/solar_azimuth_angle_sat
dataset	/MODE_NADIR_BACKSCAN/BAND_3/GEODATA/solar_zenith_angle

dataset /MODE_NADIR_BACKSCAN/BAND_3/GEODATA/solar_zenith_angle_sat
dataset /MODE_NADIR_BACKSCAN/BAND_3/GEODATA/sub_satellite_latitude
dataset /MODE_NADIR_BACKSCAN/BAND_3/GEODATA/sub_satellite_longitude
dataset /MODE_NADIR_BACKSCAN/BAND_3/GEODATA/viewing_azimuth_angle
dataset /MODE_NADIR_BACKSCAN/BAND_3/GEODATA/viewing_azimuth_angle_sat
dataset /MODE_NADIR_BACKSCAN/BAND_3/GEODATA/viewing_zenith_angle
dataset /MODE_NADIR_BACKSCAN/BAND_3/GEODATA/viewing_zenith_angle_sat
group /MODE_NADIR_BACKSCAN/BAND_3/OBSERVATIONS
dataset /MODE_NADIR_BACKSCAN/BAND_3/OBSERVATIONS/delta_time
dataset /MODE_NADIR_BACKSCAN/BAND_3/OBSERVATIONS/integration_time
dataset /MODE_NADIR_BACKSCAN/BAND_3/OBSERVATIONS/radiance
dataset /MODE_NADIR_BACKSCAN/BAND_3/OBSERVATIONS/radiance_flags
dataset /MODE_NADIR_BACKSCAN/BAND_3/OBSERVATIONS/radiance_precision
dataset /MODE_NADIR_BACKSCAN/BAND_3/OBSERVATIONS/scanline
dataset /MODE_NADIR_BACKSCAN/BAND_3/OBSERVATIONS/spectral_index
dataset /MODE_NADIR_BACKSCAN/BAND_3/OBSERVATIONS/temperature
dataset /MODE_NADIR_BACKSCAN/BAND_3/OBSERVATIONS/time
group /MODE_NADIR_BACKSCAN/BAND_3/POLARISATION
dataset /MODE_NADIR_BACKSCAN/BAND_3/POLARISATION/polarisation_chi
dataset /MODE_NADIR_BACKSCAN/BAND_3/POLARISATION/polarisation_q_overlap
dataset /MODE_NADIR_BACKSCAN/BAND_3/POLARISATION/polarisation_q_overlap_error
dataset /MODE_NADIR_BACKSCAN/BAND_3/POLARISATION/polarisation_q_overlap_wavelength
dataset /MODE_NADIR_BACKSCAN/BAND_3/POLARISATION/polarisation_q_pmd
dataset /MODE_NADIR_BACKSCAN/BAND_3/POLARISATION/polarisation_q_pmd_error
dataset /MODE_NADIR_BACKSCAN/BAND_3/POLARISATION/polarisation_q_pmd_wavelength
dataset /MODE_NADIR_BACKSCAN/BAND_3/POLARISATION/polarisation_q_theoretic
dataset /MODE_NADIR_BACKSCAN/BAND_3/POLARISATION/polarisation_q_theoretic_error
dataset /MODE_NADIR_BACKSCAN/BAND_3/POLARISATION/polarisation_q_theoretic_wavelength
dataset /MODE_NADIR_BACKSCAN/BAND_3/detector
dataset /MODE_NADIR_BACKSCAN/BAND_3/end_pixel

dataset	/MODE_NADIR_BACKSCAN/BAND_3/ground_pixel
dataset	/MODE_NADIR_BACKSCAN/BAND_3/scanline
dataset	/MODE_NADIR_BACKSCAN/BAND_3/spectral_channel
dataset	/MODE_NADIR_BACKSCAN/BAND_3/start_pixel
group	/MODE_NADIR_BACKSCAN/BAND_4
group	/MODE_NADIR_BACKSCAN/BAND_4/CLOUDDATA
dataset	/MODE_NADIR_BACKSCAN/BAND_4/CLOUDDATA/cloud_albedo
dataset	/MODE_NADIR_BACKSCAN/BAND_4/CLOUDDATA/cloud_albedo_precision
dataset	/MODE_NADIR_BACKSCAN/BAND_4/CLOUDDATA/cloud_fraction
dataset	/MODE_NADIR_BACKSCAN/BAND_4/CLOUDDATA/cloud_fraction_precision
dataset	/MODE_NADIR_BACKSCAN/BAND_4/CLOUDDATA/cloud_height
dataset	/MODE_NADIR_BACKSCAN/BAND_4/CLOUDDATA/cloud_height_precision
dataset	/MODE_NADIR_BACKSCAN/BAND_4/CLOUDDATA/cloud_optical_thickness
dataset	/MODE_NADIR_BACKSCAN/BAND_4/CLOUDDATA/cloud_optical_thickness_precision
dataset	/MODE_NADIR_BACKSCAN/BAND_4/CLOUDDATA/cloud_pressure
dataset	/MODE_NADIR_BACKSCAN/BAND_4/CLOUDDATA/cloud_pressure_precision
dataset	/MODE_NADIR_BACKSCAN/BAND_4/CLOUDDATA/sun_glint
dataset	/MODE_NADIR_BACKSCAN/BAND_4/CLOUDDATA/surface_albedo
group	/MODE_NADIR_BACKSCAN/BAND_4/GEODATA
dataset	/MODE_NADIR_BACKSCAN/BAND_4/GEODATA/earth_radius
dataset	/MODE_NADIR_BACKSCAN/BAND_4/GEODATA/latitude
dataset	/MODE_NADIR_BACKSCAN/BAND_4/GEODATA/latitude_bounds
dataset	/MODE_NADIR_BACKSCAN/BAND_4/GEODATA/longitude
dataset	/MODE_NADIR_BACKSCAN/BAND_4/GEODATA/longitude_bounds
dataset	/MODE_NADIR_BACKSCAN/BAND_4/GEODATA/satellite_altitude
dataset	/MODE_NADIR_BACKSCAN/BAND_4/GEODATA/solar_azimuth_angle
dataset	/MODE_NADIR_BACKSCAN/BAND_4/GEODATA/solar_azimuth_angle_sat
dataset	/MODE_NADIR_BACKSCAN/BAND_4/GEODATA/solar_zenith_angle
dataset	/MODE_NADIR_BACKSCAN/BAND_4/GEODATA/solar_zenith_angle_sat
dataset	/MODE_NADIR_BACKSCAN/BAND_4/GEODATA/sub_satellite_latitude

dataset	/MODE_NADIR_BACKSCAN/BAND_4/GEODATA/sub_satellite_longitude
dataset	/MODE_NADIR_BACKSCAN/BAND_4/GEODATA/viewing_azimuth_angle
dataset	/MODE_NADIR_BACKSCAN/BAND_4/GEODATA/viewing_azimuth_angle_sat
dataset	/MODE_NADIR_BACKSCAN/BAND_4/GEODATA/viewing_zenith_angle
dataset	/MODE_NADIR_BACKSCAN/BAND_4/GEODATA/viewing_zenith_angle_sat
group	/MODE_NADIR_BACKSCAN/BAND_4/OBSERVATIONS
dataset	/MODE_NADIR_BACKSCAN/BAND_4/OBSERVATIONS/delta_time
dataset	/MODE_NADIR_BACKSCAN/BAND_4/OBSERVATIONS/integration_time
dataset	/MODE_NADIR_BACKSCAN/BAND_4/OBSERVATIONS/radiance
dataset	/MODE_NADIR_BACKSCAN/BAND_4/OBSERVATIONS/radiance_flags
dataset	/MODE_NADIR_BACKSCAN/BAND_4/OBSERVATIONS/radiance_precision
dataset	/MODE_NADIR_BACKSCAN/BAND_4/OBSERVATIONS/scanline
dataset	/MODE_NADIR_BACKSCAN/BAND_4/OBSERVATIONS/spectral_index
dataset	/MODE_NADIR_BACKSCAN/BAND_4/OBSERVATIONS/temperature
dataset	/MODE_NADIR_BACKSCAN/BAND_4/OBSERVATIONS/time
group	/MODE_NADIR_BACKSCAN/BAND_4/POLARISATION
dataset	/MODE_NADIR_BACKSCAN/BAND_4/POLARISATION/polarisation_chi
dataset	/MODE_NADIR_BACKSCAN/BAND_4/POLARISATION/polarisation_q_overlap
dataset	/MODE_NADIR_BACKSCAN/BAND_4/POLARISATION/polarisation_q_overlap_error
dataset	/MODE_NADIR_BACKSCAN/BAND_4/POLARISATION/polarisation_q_overlap_wavelength
dataset	/MODE_NADIR_BACKSCAN/BAND_4/POLARISATION/polarisation_q_pmd
dataset	/MODE_NADIR_BACKSCAN/BAND_4/POLARISATION/polarisation_q_pmd_error
dataset	/MODE_NADIR_BACKSCAN/BAND_4/POLARISATION/polarisation_q_pmd_wavelength
dataset	/MODE_NADIR_BACKSCAN/BAND_4/POLARISATION/polarisation_q_theoretic
dataset	/MODE_NADIR_BACKSCAN/BAND_4/POLARISATION/polarisation_q_theoretic_error
dataset	/MODE_NADIR_BACKSCAN/BAND_4/POLARISATION/polarisation_q_theoretic_wavelength
dataset	/MODE_NADIR_BACKSCAN/BAND_4/detector
dataset	/MODE_NADIR_BACKSCAN/BAND_4/end_pixel
dataset	/MODE_NADIR_BACKSCAN/BAND_4/ground_pixel
dataset	/MODE_NADIR_BACKSCAN/BAND_4/scanline

dataset	/MODE_NADIR_BACKSCAN/BAND_4/spectral_channel
dataset	/MODE_NADIR_BACKSCAN/BAND_4/start_pixel
group	/MODE_NADIR_BACKSCAN/PMD
group	/MODE_NADIR_BACKSCAN/PMD/GEODATA
dataset	/MODE_NADIR_BACKSCAN/PMD/GEODATA/earth_radius
dataset	/MODE_NADIR_BACKSCAN/PMD/GEODATA/latitude
dataset	/MODE_NADIR_BACKSCAN/PMD/GEODATA/latitude_bounds
dataset	/MODE_NADIR_BACKSCAN/PMD/GEODATA/longitude
dataset	/MODE_NADIR_BACKSCAN/PMD/GEODATA/longitude_bounds
dataset	/MODE_NADIR_BACKSCAN/PMD/GEODATA/satellite_altitude
dataset	/MODE_NADIR_BACKSCAN/PMD/GEODATA/solar_azimuth_angle
dataset	/MODE_NADIR_BACKSCAN/PMD/GEODATA/solar_azimuth_angle_sat
dataset	/MODE_NADIR_BACKSCAN/PMD/GEODATA/solar_zenith_angle
dataset	/MODE_NADIR_BACKSCAN/PMD/GEODATA/solar_zenith_angle_sat
dataset	/MODE_NADIR_BACKSCAN/PMD/GEODATA/sub_satellite_latitude
dataset	/MODE_NADIR_BACKSCAN/PMD/GEODATA/sub_satellite_longitude
dataset	/MODE_NADIR_BACKSCAN/PMD/GEODATA/viewing_azimuth_angle
dataset	/MODE_NADIR_BACKSCAN/PMD/GEODATA/viewing_azimuth_angle_sat
dataset	/MODE_NADIR_BACKSCAN/PMD/GEODATA/viewing_zenith_angle
dataset	/MODE_NADIR_BACKSCAN/PMD/GEODATA/viewing_zenith_angle_sat
group	/MODE_NADIR_BACKSCAN/PMD/OBSERVATIONS
dataset	/MODE_NADIR_BACKSCAN/PMD/OBSERVATIONS/delta_time
dataset	/MODE_NADIR_BACKSCAN/PMD/OBSERVATIONS/radiance
dataset	/MODE_NADIR_BACKSCAN/PMD/OBSERVATIONS/radiance_flags
dataset	/MODE_NADIR_BACKSCAN/PMD/OBSERVATIONS/scanline
dataset	/MODE_NADIR_BACKSCAN/PMD/OBSERVATIONS/wavelength
dataset	/MODE_NADIR_BACKSCAN/PMD/ground_pixel
dataset	/MODE_NADIR_BACKSCAN/PMD/sampling_time
dataset	/MODE_NADIR_BACKSCAN/PMD/scanline
dataset	/MODE_NADIR_BACKSCAN/PMD/spectral_channel

group	/MODE_NARROW_SWATH
group	/MODE_NARROW_SWATH_BACKSCAN
group	/MODE_NORTHPOLAR_VIEW
group	/MODE_NORTHPOLAR_VIEW_BACKSCAN
group	/MODE_SOUTHPOLAR_VIEW
group	/MODE_SOUTHPOLAR_VIEW_BACKSCAN
group	/MODE_STATIC_VIEW
group	/MODE_STATIC_VIEW/BAND_1B
group	/MODE_STATIC_VIEW/BAND_1B/CLOUDDATA
dataset	/MODE_STATIC_VIEW/BAND_1B/CLOUDDATA/cloud_albedo
dataset	/MODE_STATIC_VIEW/BAND_1B/CLOUDDATA/cloud_albedo_precision
dataset	/MODE_STATIC_VIEW/BAND_1B/CLOUDDATA/cloud_fraction
dataset	/MODE_STATIC_VIEW/BAND_1B/CLOUDDATA/cloud_fraction_precision
dataset	/MODE_STATIC_VIEW/BAND_1B/CLOUDDATA/cloud_height
dataset	/MODE_STATIC_VIEW/BAND_1B/CLOUDDATA/cloud_height_precision
dataset	/MODE_STATIC_VIEW/BAND_1B/CLOUDDATA/cloud_optical_thickness
dataset	/MODE_STATIC_VIEW/BAND_1B/CLOUDDATA/cloud_optical_thickness_precision
dataset	/MODE_STATIC_VIEW/BAND_1B/CLOUDDATA/cloud_pressure
dataset	/MODE_STATIC_VIEW/BAND_1B/CLOUDDATA/cloud_pressure_precision
dataset	/MODE_STATIC_VIEW/BAND_1B/CLOUDDATA/sun_glint
dataset	/MODE_STATIC_VIEW/BAND_1B/CLOUDDATA/surface_albedo
group	/MODE_STATIC_VIEW/BAND_1B/GEODATA
dataset	/MODE_STATIC_VIEW/BAND_1B/GEODATA/earth_radius
dataset	/MODE_STATIC_VIEW/BAND_1B/GEODATA/latitude
dataset	/MODE_STATIC_VIEW/BAND_1B/GEODATA/latitude_bounds
dataset	/MODE_STATIC_VIEW/BAND_1B/GEODATA/longitude
dataset	/MODE_STATIC_VIEW/BAND_1B/GEODATA/longitude_bounds
dataset	/MODE_STATIC_VIEW/BAND_1B/GEODATA/satellite_altitude
dataset	/MODE_STATIC_VIEW/BAND_1B/GEODATA/solar_azimuth_angle
dataset	/MODE_STATIC_VIEW/BAND_1B/GEODATA/solar_azimuth_angle_sat

dataset	/MODE_STATIC_VIEW/BAND_1B/GEODATA/solar_zenith_angle
dataset	/MODE_STATIC_VIEW/BAND_1B/GEODATA/solar_zenith_angle_sat
dataset	/MODE_STATIC_VIEW/BAND_1B/GEODATA/sub_satellite_latitude
dataset	/MODE_STATIC_VIEW/BAND_1B/GEODATA/sub_satellite_longitude
dataset	/MODE_STATIC_VIEW/BAND_1B/GEODATA/viewing_azimuth_angle
dataset	/MODE_STATIC_VIEW/BAND_1B/GEODATA/viewing_azimuth_angle_sat
dataset	/MODE_STATIC_VIEW/BAND_1B/GEODATA/viewing_zenith_angle
dataset	/MODE_STATIC_VIEW/BAND_1B/GEODATA/viewing_zenith_angle_sat
group	/MODE_STATIC_VIEW/BAND_1B/OBSERVATIONS
dataset	/MODE_STATIC_VIEW/BAND_1B/OBSERVATIONS/delta_time
dataset	/MODE_STATIC_VIEW/BAND_1B/OBSERVATIONS/integration_time
dataset	/MODE_STATIC_VIEW/BAND_1B/OBSERVATIONS/radiance
dataset	/MODE_STATIC_VIEW/BAND_1B/OBSERVATIONS/radiance_flags
dataset	/MODE_STATIC_VIEW/BAND_1B/OBSERVATIONS/radiance_precision
dataset	/MODE_STATIC_VIEW/BAND_1B/OBSERVATIONS/scanline
dataset	/MODE_STATIC_VIEW/BAND_1B/OBSERVATIONS/spectral_index
dataset	/MODE_STATIC_VIEW/BAND_1B/OBSERVATIONS/temperature
dataset	/MODE_STATIC_VIEW/BAND_1B/OBSERVATIONS/time
group	/MODE_STATIC_VIEW/BAND_1B/POLARISATION
dataset	/MODE_STATIC_VIEW/BAND_1B/POLARISATION/polarisation_chi
dataset	/MODE_STATIC_VIEW/BAND_1B/POLARISATION/polarisation_q_overlap
dataset	/MODE_STATIC_VIEW/BAND_1B/POLARISATION/polarisation_q_overlap_error
dataset	/MODE_STATIC_VIEW/BAND_1B/POLARISATION/polarisation_q_overlap_wavelength
dataset	/MODE_STATIC_VIEW/BAND_1B/POLARISATION/polarisation_q_pmd
dataset	/MODE_STATIC_VIEW/BAND_1B/POLARISATION/polarisation_q_pmd_error
dataset	/MODE_STATIC_VIEW/BAND_1B/POLARISATION/polarisation_q_pmd_wavelength
dataset	/MODE_STATIC_VIEW/BAND_1B/POLARISATION/polarisation_q_theoretic
dataset	/MODE_STATIC_VIEW/BAND_1B/POLARISATION/polarisation_q_theoretic_error
dataset	/MODE_STATIC_VIEW/BAND_1B/POLARISATION/polarisation_q_theoretic_wavelength
dataset	/MODE_STATIC_VIEW/BAND_1B/detector

dataset	/MODE_STATIC_VIEW/BAND_1B/end_pixel
dataset	/MODE_STATIC_VIEW/BAND_1B/ground_pixel
dataset	/MODE_STATIC_VIEW/BAND_1B/scanline
dataset	/MODE_STATIC_VIEW/BAND_1B/spectral_channel
dataset	/MODE_STATIC_VIEW/BAND_1B/start_pixel
group	/MODE_STATIC_VIEW/BAND_2A
group	/MODE_STATIC_VIEW/BAND_2A/CLOUDDATA
dataset	/MODE_STATIC_VIEW/BAND_2A/CLOUDDATA/cloud_albedo
dataset	/MODE_STATIC_VIEW/BAND_2A/CLOUDDATA/cloud_albedo_precision
dataset	/MODE_STATIC_VIEW/BAND_2A/CLOUDDATA/cloud_fraction
dataset	/MODE_STATIC_VIEW/BAND_2A/CLOUDDATA/cloud_fraction_precision
dataset	/MODE_STATIC_VIEW/BAND_2A/CLOUDDATA/cloud_height
dataset	/MODE_STATIC_VIEW/BAND_2A/CLOUDDATA/cloud_height_precision
dataset	/MODE_STATIC_VIEW/BAND_2A/CLOUDDATA/cloud_optical_thickness
dataset	/MODE_STATIC_VIEW/BAND_2A/CLOUDDATA/cloud_optical_thickness_precision
dataset	/MODE_STATIC_VIEW/BAND_2A/CLOUDDATA/cloud_pressure
dataset	/MODE_STATIC_VIEW/BAND_2A/CLOUDDATA/cloud_pressure_precision
dataset	/MODE_STATIC_VIEW/BAND_2A/CLOUDDATA/sun_glint
dataset	/MODE_STATIC_VIEW/BAND_2A/CLOUDDATA/surface_albedo
group	/MODE_STATIC_VIEW/BAND_2A/GEODATA
dataset	/MODE_STATIC_VIEW/BAND_2A/GEODATA/earth_radius
dataset	/MODE_STATIC_VIEW/BAND_2A/GEODATA/latitude
dataset	/MODE_STATIC_VIEW/BAND_2A/GEODATA/latitude_bounds
dataset	/MODE_STATIC_VIEW/BAND_2A/GEODATA/longitude
dataset	/MODE_STATIC_VIEW/BAND_2A/GEODATA/longitude_bounds
dataset	/MODE_STATIC_VIEW/BAND_2A/GEODATA/satellite_altitude
dataset	/MODE_STATIC_VIEW/BAND_2A/GEODATA/solar_azimuth_angle
dataset	/MODE_STATIC_VIEW/BAND_2A/GEODATA/solar_azimuth_angle_sat
dataset	/MODE_STATIC_VIEW/BAND_2A/GEODATA/solar_zenith_angle
dataset	/MODE_STATIC_VIEW/BAND_2A/GEODATA/solar_zenith_angle_sat

dataset	/MODE_STATIC_VIEW/BAND_2A/GEODATA/sub_satellite_latitude
dataset	/MODE_STATIC_VIEW/BAND_2A/GEODATA/sub_satellite_longitude
dataset	/MODE_STATIC_VIEW/BAND_2A/GEODATA/viewing_azimuth_angle
dataset	/MODE_STATIC_VIEW/BAND_2A/GEODATA/viewing_azimuth_angle_sat
dataset	/MODE_STATIC_VIEW/BAND_2A/GEODATA/viewing_zenith_angle
dataset	/MODE_STATIC_VIEW/BAND_2A/GEODATA/viewing_zenith_angle_sat
group	/MODE_STATIC_VIEW/BAND_2A/OBSERVATIONS
dataset	/MODE_STATIC_VIEW/BAND_2A/OBSERVATIONS/delta_time
dataset	/MODE_STATIC_VIEW/BAND_2A/OBSERVATIONS/integration_time
dataset	/MODE_STATIC_VIEW/BAND_2A/OBSERVATIONS/radiance
dataset	/MODE_STATIC_VIEW/BAND_2A/OBSERVATIONS/radiance_flags
dataset	/MODE_STATIC_VIEW/BAND_2A/OBSERVATIONS/radiance_precision
dataset	/MODE_STATIC_VIEW/BAND_2A/OBSERVATIONS/scanline
dataset	/MODE_STATIC_VIEW/BAND_2A/OBSERVATIONS/spectral_index
dataset	/MODE_STATIC_VIEW/BAND_2A/OBSERVATIONS/temperature
dataset	/MODE_STATIC_VIEW/BAND_2A/OBSERVATIONS/time
group	/MODE_STATIC_VIEW/BAND_2A/POLARISATION
dataset	/MODE_STATIC_VIEW/BAND_2A/POLARISATION/polarisation_chi
dataset	/MODE_STATIC_VIEW/BAND_2A/POLARISATION/polarisation_q_overlap
dataset	/MODE_STATIC_VIEW/BAND_2A/POLARISATION/polarisation_q_overlap_error
dataset	/MODE_STATIC_VIEW/BAND_2A/POLARISATION/polarisation_q_overlap_wavelength
dataset	/MODE_STATIC_VIEW/BAND_2A/POLARISATION/polarisation_q_pmd
dataset	/MODE_STATIC_VIEW/BAND_2A/POLARISATION/polarisation_q_pmd_error
dataset	/MODE_STATIC_VIEW/BAND_2A/POLARISATION/polarisation_q_pmd_wavelength
dataset	/MODE_STATIC_VIEW/BAND_2A/POLARISATION/polarisation_q_theoretic
dataset	/MODE_STATIC_VIEW/BAND_2A/POLARISATION/polarisation_q_theoretic_error
dataset	/MODE_STATIC_VIEW/BAND_2A/POLARISATION/polarisation_q_theoretic_wavelength
dataset	/MODE_STATIC_VIEW/BAND_2A/detector
dataset	/MODE_STATIC_VIEW/BAND_2A/end_pixel
dataset	/MODE_STATIC_VIEW/BAND_2A/ground_pixel

dataset	/MODE_STATIC_VIEW/BAND_2A/scanline
dataset	/MODE_STATIC_VIEW/BAND_2A/spectral_channel
dataset	/MODE_STATIC_VIEW/BAND_2A/start_pixel
group	/MODE_STATIC_VIEW/BAND_2B
group	/MODE_STATIC_VIEW/BAND_2B/CLOUDDATA
dataset	/MODE_STATIC_VIEW/BAND_2B/CLOUDDATA/cloud_albedo
dataset	/MODE_STATIC_VIEW/BAND_2B/CLOUDDATA/cloud_albedo_precision
dataset	/MODE_STATIC_VIEW/BAND_2B/CLOUDDATA/cloud_fraction
dataset	/MODE_STATIC_VIEW/BAND_2B/CLOUDDATA/cloud_fraction_precision
dataset	/MODE_STATIC_VIEW/BAND_2B/CLOUDDATA/cloud_height
dataset	/MODE_STATIC_VIEW/BAND_2B/CLOUDDATA/cloud_height_precision
dataset	/MODE_STATIC_VIEW/BAND_2B/CLOUDDATA/cloud_optical_thickness
dataset	/MODE_STATIC_VIEW/BAND_2B/CLOUDDATA/cloud_optical_thickness_precision
dataset	/MODE_STATIC_VIEW/BAND_2B/CLOUDDATA/cloud_pressure
dataset	/MODE_STATIC_VIEW/BAND_2B/CLOUDDATA/cloud_pressure_precision
dataset	/MODE_STATIC_VIEW/BAND_2B/CLOUDDATA/sun_glint
dataset	/MODE_STATIC_VIEW/BAND_2B/CLOUDDATA/surface_albedo
group	/MODE_STATIC_VIEW/BAND_2B/GEODATA
dataset	/MODE_STATIC_VIEW/BAND_2B/GEODATA/earth_radius
dataset	/MODE_STATIC_VIEW/BAND_2B/GEODATA/latitude
dataset	/MODE_STATIC_VIEW/BAND_2B/GEODATA/latitude_bounds
dataset	/MODE_STATIC_VIEW/BAND_2B/GEODATA/longitude
dataset	/MODE_STATIC_VIEW/BAND_2B/GEODATA/longitude_bounds
dataset	/MODE_STATIC_VIEW/BAND_2B/GEODATA/satellite_altitude
dataset	/MODE_STATIC_VIEW/BAND_2B/GEODATA/solar_azimuth_angle
dataset	/MODE_STATIC_VIEW/BAND_2B/GEODATA/solar_azimuth_angle_sat
dataset	/MODE_STATIC_VIEW/BAND_2B/GEODATA/solar_zenith_angle
dataset	/MODE_STATIC_VIEW/BAND_2B/GEODATA/solar_zenith_angle_sat
dataset	/MODE_STATIC_VIEW/BAND_2B/GEODATA/sub_satellite_latitude
dataset	/MODE_STATIC_VIEW/BAND_2B/GEODATA/sub_satellite_longitude

```
dataset /MODE_STATIC_VIEW/BAND_2B/GEODATA/viewing_azimuth_angle
dataset /MODE_STATIC_VIEW/BAND_2B/GEODATA/viewing_azimuth_angle_sat
dataset /MODE_STATIC_VIEW/BAND_2B/GEODATA/viewing_zenith_angle
dataset /MODE_STATIC_VIEW/BAND_2B/GEODATA/viewing_zenith_angle_sat
group /MODE_STATIC_VIEW/BAND_2B/OBSERVATIONS
dataset /MODE_STATIC_VIEW/BAND_2B/OBSERVATIONS/delta_time
dataset /MODE_STATIC_VIEW/BAND_2B/OBSERVATIONS/integration_time
dataset /MODE_STATIC_VIEW/BAND_2B/OBSERVATIONS/radiance
dataset /MODE_STATIC_VIEW/BAND_2B/OBSERVATIONS/radiance_flags
dataset /MODE_STATIC_VIEW/BAND_2B/OBSERVATIONS/radiance_precision
dataset /MODE_STATIC_VIEW/BAND_2B/OBSERVATIONS/scanline
dataset /MODE_STATIC_VIEW/BAND_2B/OBSERVATIONS/spectral_index
dataset /MODE_STATIC_VIEW/BAND_2B/OBSERVATIONS/temperature
dataset /MODE_STATIC_VIEW/BAND_2B/OBSERVATIONS/time
group /MODE_STATIC_VIEW/BAND_2B/POLARISATION
dataset /MODE_STATIC_VIEW/BAND_2B/POLARISATION/polarisation_chi
dataset /MODE_STATIC_VIEW/BAND_2B/POLARISATION/polarisation_q_overlap
dataset /MODE_STATIC_VIEW/BAND_2B/POLARISATION/polarisation_q_overlap_error
dataset /MODE_STATIC_VIEW/BAND_2B/POLARISATION/polarisation_q_overlap_wavelength
dataset /MODE_STATIC_VIEW/BAND_2B/POLARISATION/polarisation_q_pmd
dataset /MODE_STATIC_VIEW/BAND_2B/POLARISATION/polarisation_q_pmd_error
dataset /MODE_STATIC_VIEW/BAND_2B/POLARISATION/polarisation_q_pmd_wavelength
dataset /MODE_STATIC_VIEW/BAND_2B/POLARISATION/polarisation_q_theoretic
dataset /MODE_STATIC_VIEW/BAND_2B/POLARISATION/polarisation_q_theoretic_error
dataset /MODE_STATIC_VIEW/BAND_2B/POLARISATION/polarisation_q_theoretic_wavelength
dataset /MODE_STATIC_VIEW/BAND_2B/detector
dataset /MODE_STATIC_VIEW/BAND_2B/end_pixel
dataset /MODE_STATIC_VIEW/BAND_2B/ground_pixel
dataset /MODE_STATIC_VIEW/BAND_2B/scanline
dataset /MODE_STATIC_VIEW/BAND_2B/spectral_channel
```

dataset	/MODE_STATIC_VIEW/BAND_2B/start_pixel
group	/MODE_STATIC_VIEW/BAND_3
group	/MODE_STATIC_VIEW/BAND_3/CLOUDDATA
dataset	/MODE_STATIC_VIEW/BAND_3/CLOUDDATA/cloud_albedo
dataset	/MODE_STATIC_VIEW/BAND_3/CLOUDDATA/cloud_albedo_precision
dataset	/MODE_STATIC_VIEW/BAND_3/CLOUDDATA/cloud_fraction
dataset	/MODE_STATIC_VIEW/BAND_3/CLOUDDATA/cloud_fraction_precision
dataset	/MODE_STATIC_VIEW/BAND_3/CLOUDDATA/cloud_height
dataset	/MODE_STATIC_VIEW/BAND_3/CLOUDDATA/cloud_height_precision
dataset	/MODE_STATIC_VIEW/BAND_3/CLOUDDATA/cloud_optical_thickness
dataset	/MODE_STATIC_VIEW/BAND_3/CLOUDDATA/cloud_optical_thickness_precision
dataset	/MODE_STATIC_VIEW/BAND_3/CLOUDDATA/cloud_pressure
dataset	/MODE_STATIC_VIEW/BAND_3/CLOUDDATA/cloud_pressure_precision
dataset	/MODE_STATIC_VIEW/BAND_3/CLOUDDATA/sun_glint
dataset	/MODE_STATIC_VIEW/BAND_3/CLOUDDATA/surface_albedo
group	/MODE_STATIC_VIEW/BAND_3/GEODATA
dataset	/MODE_STATIC_VIEW/BAND_3/GEODATA/earth_radius
dataset	/MODE_STATIC_VIEW/BAND_3/GEODATA/latitude
dataset	/MODE_STATIC_VIEW/BAND_3/GEODATA/latitude_bounds
dataset	/MODE_STATIC_VIEW/BAND_3/GEODATA/longitude
dataset	/MODE_STATIC_VIEW/BAND_3/GEODATA/longitude_bounds
dataset	/MODE_STATIC_VIEW/BAND_3/GEODATA/satellite_altitude
dataset	/MODE_STATIC_VIEW/BAND_3/GEODATA/solar_azimuth_angle
dataset	/MODE_STATIC_VIEW/BAND_3/GEODATA/solar_azimuth_angle_sat
dataset	/MODE_STATIC_VIEW/BAND_3/GEODATA/solar_zenith_angle
dataset	/MODE_STATIC_VIEW/BAND_3/GEODATA/solar_zenith_angle_sat
dataset	/MODE_STATIC_VIEW/BAND_3/GEODATA/sub_satellite_latitude
dataset	/MODE_STATIC_VIEW/BAND_3/GEODATA/sub_satellite_longitude
dataset	/MODE_STATIC_VIEW/BAND_3/GEODATA/viewing_azimuth_angle
dataset	/MODE_STATIC_VIEW/BAND_3/GEODATA/viewing_azimuth_angle_sat

dataset	/MODE_STATIC_VIEW/BAND_3/GEODATA/viewing_zenith_angle
dataset	/MODE_STATIC_VIEW/BAND_3/GEODATA/viewing_zenith_angle_sat
group	/MODE_STATIC_VIEW/BAND_3/OBSERVATIONS
dataset	/MODE_STATIC_VIEW/BAND_3/OBSERVATIONS/delta_time
dataset	/MODE_STATIC_VIEW/BAND_3/OBSERVATIONS/integration_time
dataset	/MODE_STATIC_VIEW/BAND_3/OBSERVATIONS/radiance
dataset	/MODE_STATIC_VIEW/BAND_3/OBSERVATIONS/radiance_flags
dataset	/MODE_STATIC_VIEW/BAND_3/OBSERVATIONS/radiance_precision
dataset	/MODE_STATIC_VIEW/BAND_3/OBSERVATIONS/scanline
dataset	/MODE_STATIC_VIEW/BAND_3/OBSERVATIONS/spectral_index
dataset	/MODE_STATIC_VIEW/BAND_3/OBSERVATIONS/temperature
dataset	/MODE_STATIC_VIEW/BAND_3/OBSERVATIONS/time
group	/MODE_STATIC_VIEW/BAND_3/POLARISATION
dataset	/MODE_STATIC_VIEW/BAND_3/POLARISATION/polarisation_chi
dataset	/MODE_STATIC_VIEW/BAND_3/POLARISATION/polarisation_q_overlap
dataset	/MODE_STATIC_VIEW/BAND_3/POLARISATION/polarisation_q_overlap_error
dataset	/MODE_STATIC_VIEW/BAND_3/POLARISATION/polarisation_q_overlap_wavelength
dataset	/MODE_STATIC_VIEW/BAND_3/POLARISATION/polarisation_q_pmd
dataset	/MODE_STATIC_VIEW/BAND_3/POLARISATION/polarisation_q_pmd_error
dataset	/MODE_STATIC_VIEW/BAND_3/POLARISATION/polarisation_q_pmd_wavelength
dataset	/MODE_STATIC_VIEW/BAND_3/POLARISATION/polarisation_q_theoretic
dataset	/MODE_STATIC_VIEW/BAND_3/POLARISATION/polarisation_q_theoretic_error
dataset	/MODE_STATIC_VIEW/BAND_3/POLARISATION/polarisation_q_theoretic_wavelength
dataset	/MODE_STATIC_VIEW/BAND_3/detector
dataset	/MODE_STATIC_VIEW/BAND_3/end_pixel
dataset	/MODE_STATIC_VIEW/BAND_3/ground_pixel
dataset	/MODE_STATIC_VIEW/BAND_3/scanline
dataset	/MODE_STATIC_VIEW/BAND_3/spectral_channel
dataset	/MODE_STATIC_VIEW/BAND_3/start_pixel
group	/MODE_STATIC_VIEW/BAND_4

group	/MODE_STATIC_VIEW/BAND_4/CLOUDDATA
dataset	/MODE_STATIC_VIEW/BAND_4/CLOUDDATA/cloud_albedo
dataset	/MODE_STATIC_VIEW/BAND_4/CLOUDDATA/cloud_albedo_precision
dataset	/MODE_STATIC_VIEW/BAND_4/CLOUDDATA/cloud_fraction
dataset	/MODE_STATIC_VIEW/BAND_4/CLOUDDATA/cloud_fraction_precision
dataset	/MODE_STATIC_VIEW/BAND_4/CLOUDDATA/cloud_height
dataset	/MODE_STATIC_VIEW/BAND_4/CLOUDDATA/cloud_height_precision
dataset	/MODE_STATIC_VIEW/BAND_4/CLOUDDATA/cloud_optical_thickness
dataset	/MODE_STATIC_VIEW/BAND_4/CLOUDDATA/cloud_optical_thickness_precision
dataset	/MODE_STATIC_VIEW/BAND_4/CLOUDDATA/cloud_pressure
dataset	/MODE_STATIC_VIEW/BAND_4/CLOUDDATA/cloud_pressure_precision
dataset	/MODE_STATIC_VIEW/BAND_4/CLOUDDATA/sun_glint
dataset	/MODE_STATIC_VIEW/BAND_4/CLOUDDATA/surface_albedo
group	/MODE_STATIC_VIEW/BAND_4/GEODATA
dataset	/MODE_STATIC_VIEW/BAND_4/GEODATA/earth_radius
dataset	/MODE_STATIC_VIEW/BAND_4/GEODATA/latitude
dataset	/MODE_STATIC_VIEW/BAND_4/GEODATA/latitude_bounds
dataset	/MODE_STATIC_VIEW/BAND_4/GEODATA/longitude
dataset	/MODE_STATIC_VIEW/BAND_4/GEODATA/longitude_bounds
dataset	/MODE_STATIC_VIEW/BAND_4/GEODATA/satellite_altitude
dataset	/MODE_STATIC_VIEW/BAND_4/GEODATA/solar_azimuth_angle
dataset	/MODE_STATIC_VIEW/BAND_4/GEODATA/solar_azimuth_angle_sat
dataset	/MODE_STATIC_VIEW/BAND_4/GEODATA/solar_zenith_angle
dataset	/MODE_STATIC_VIEW/BAND_4/GEODATA/solar_zenith_angle_sat
dataset	/MODE_STATIC_VIEW/BAND_4/GEODATA/sub_satellite_latitude
dataset	/MODE_STATIC_VIEW/BAND_4/GEODATA/sub_satellite_longitude
dataset	/MODE_STATIC_VIEW/BAND_4/GEODATA/viewing_azimuth_angle
dataset	/MODE_STATIC_VIEW/BAND_4/GEODATA/viewing_azimuth_angle_sat
dataset	/MODE_STATIC_VIEW/BAND_4/GEODATA/viewing_zenith_angle
dataset	/MODE_STATIC_VIEW/BAND_4/GEODATA/viewing_zenith_angle_sat

group	/MODE_STATIC_VIEW/BAND_4/OBSERVATIONS
dataset	/MODE_STATIC_VIEW/BAND_4/OBSERVATIONS/delta_time
dataset	/MODE_STATIC_VIEW/BAND_4/OBSERVATIONS/integration_time
dataset	/MODE_STATIC_VIEW/BAND_4/OBSERVATIONS/radiance
dataset	/MODE_STATIC_VIEW/BAND_4/OBSERVATIONS/radiance_flags
dataset	/MODE_STATIC_VIEW/BAND_4/OBSERVATIONS/radiance_precision
dataset	/MODE_STATIC_VIEW/BAND_4/OBSERVATIONS/scanline
dataset	/MODE_STATIC_VIEW/BAND_4/OBSERVATIONS/spectral_index
dataset	/MODE_STATIC_VIEW/BAND_4/OBSERVATIONS/temperature
dataset	/MODE_STATIC_VIEW/BAND_4/OBSERVATIONS/time
group	/MODE_STATIC_VIEW/BAND_4/POLARISATION
dataset	/MODE_STATIC_VIEW/BAND_4/POLARISATION/polarisation_chi
dataset	/MODE_STATIC_VIEW/BAND_4/POLARISATION/polarisation_q_overlap
dataset	/MODE_STATIC_VIEW/BAND_4/POLARISATION/polarisation_q_overlap_error
dataset	/MODE_STATIC_VIEW/BAND_4/POLARISATION/polarisation_q_overlap_wavelength
dataset	/MODE_STATIC_VIEW/BAND_4/POLARISATION/polarisation_q_pmd
dataset	/MODE_STATIC_VIEW/BAND_4/POLARISATION/polarisation_q_pmd_error
dataset	/MODE_STATIC_VIEW/BAND_4/POLARISATION/polarisation_q_pmd_wavelength
dataset	/MODE_STATIC_VIEW/BAND_4/POLARISATION/polarisation_q_theoretic
dataset	/MODE_STATIC_VIEW/BAND_4/POLARISATION/polarisation_q_theoretic_error
dataset	/MODE_STATIC_VIEW/BAND_4/POLARISATION/polarisation_q_theoretic_wavelength
dataset	/MODE_STATIC_VIEW/BAND_4/detector
dataset	/MODE_STATIC_VIEW/BAND_4/end_pixel
dataset	/MODE_STATIC_VIEW/BAND_4/ground_pixel
dataset	/MODE_STATIC_VIEW/BAND_4/scanline
dataset	/MODE_STATIC_VIEW/BAND_4/spectral_channel
dataset	/MODE_STATIC_VIEW/BAND_4/start_pixel
group	/MODE_STATIC_VIEW/PMD
group	/MODE_STATIC_VIEW/PMD/GEODATA
dataset	/MODE_STATIC_VIEW/PMD/GEODATA/earth_radius

dataset	/MODE_STATIC_VIEW/PMD/GEODATA/latitude
dataset	/MODE_STATIC_VIEW/PMD/GEODATA/latitude_bounds
dataset	/MODE_STATIC_VIEW/PMD/GEODATA/longitude
dataset	/MODE_STATIC_VIEW/PMD/GEODATA/longitude_bounds
dataset	/MODE_STATIC_VIEW/PMD/GEODATA/satellite_altitude
dataset	/MODE_STATIC_VIEW/PMD/GEODATA/solar_azimuth_angle
dataset	/MODE_STATIC_VIEW/PMD/GEODATA/solar_azimuth_angle_sat
dataset	/MODE_STATIC_VIEW/PMD/GEODATA/solar_zenith_angle
dataset	/MODE_STATIC_VIEW/PMD/GEODATA/solar_zenith_angle_sat
dataset	/MODE_STATIC_VIEW/PMD/GEODATA/sub_satellite_latitude
dataset	/MODE_STATIC_VIEW/PMD/GEODATA/sub_satellite_longitude
dataset	/MODE_STATIC_VIEW/PMD/GEODATA/viewing_azimuth_angle
dataset	/MODE_STATIC_VIEW/PMD/GEODATA/viewing_azimuth_angle_sat
dataset	/MODE_STATIC_VIEW/PMD/GEODATA/viewing_zenith_angle
dataset	/MODE_STATIC_VIEW/PMD/GEODATA/viewing_zenith_angle_sat
group	/MODE_STATIC_VIEW/PMD/OBSERVATIONS
dataset	/MODE_STATIC_VIEW/PMD/OBSERVATIONS/delta_time
dataset	/MODE_STATIC_VIEW/PMD/OBSERVATIONS/radiance
dataset	/MODE_STATIC_VIEW/PMD/OBSERVATIONS/radiance_flags
dataset	/MODE_STATIC_VIEW/PMD/OBSERVATIONS/scanline
dataset	/MODE_STATIC_VIEW/PMD/OBSERVATIONS/wavelength
dataset	/MODE_STATIC_VIEW/PMD/ground_pixel
dataset	/MODE_STATIC_VIEW/PMD/sampling_time
dataset	/MODE_STATIC_VIEW/PMD/scanline
dataset	/MODE_STATIC_VIEW/PMD/spectral_channel
group	/MODE_STATIC_VIEW_BACKSCAN
group	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B
group	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/CLOUDDATA
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/CLOUDDATA/cloud_albedo
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/CLOUDDATA/cloud_albedo_precision

dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/CLOUDDATA/cloud_fraction
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/CLOUDDATA/cloud_fraction_precision
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/CLOUDDATA/cloud_height
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/CLOUDDATA/cloud_height_precision
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/CLOUDDATA/cloud_optical_thickness
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/CLOUDDATA/cloud_optical_thickness_precision
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/CLOUDDATA/cloud_pressure
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/CLOUDDATA/cloud_pressure_precision
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/CLOUDDATA/sun_glint
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/CLOUDDATA/surface_albedo
group	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/GEODATA
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/GEODATA/earth_radius
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/GEODATA/latitude
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/GEODATA/latitude_bounds
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/GEODATA/longitude
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/GEODATA/longitude_bounds
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/GEODATA/satellite_altitude
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/GEODATA/solar_azimuth_angle
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/GEODATA/solar_azimuth_angle_sat
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/GEODATA/solar_zenith_angle
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/GEODATA/solar_zenith_angle_sat
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/GEODATA/sub_satellite_latitude
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/GEODATA/sub_satellite_longitude
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/GEODATA/viewing_azimuth_angle
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/GEODATA/viewing_azimuth_angle_sat
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/GEODATA/viewing_zenith_angle
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/GEODATA/viewing_zenith_angle_sat
group	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/OBSERVATIONS
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/OBSERVATIONS/delta_time
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/OBSERVATIONS/integration_time

dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/OBSERVATIONS/radiance
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/OBSERVATIONS/radiance_flags
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/OBSERVATIONS/radiance_precision
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/OBSERVATIONS/scanline
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/OBSERVATIONS/spectral_index
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/OBSERVATIONS/temperature
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/OBSERVATIONS/time
group	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/POLARISATION
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/POLARISATION/polarisation_chi
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/POLARISATION/polarisation_q_overlap
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/POLARISATION/polarisation_q_overlap_error
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/POLARISATION/polarisation_q_overlap_wavelength
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/POLARISATION/polarisation_q_pmd
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/POLARISATION/polarisation_q_pmd_error
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/POLARISATION/polarisation_q_pmd_wavelength
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/POLARISATION/polarisation_q_theoretic
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/POLARISATION/polarisation_q_theoretic_error
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/POLARISATION/polarisation_q_theoretic_wavelength
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/detector
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/end_pixel
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/ground_pixel
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/scanline
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/spectral_channel
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_1B/start_pixel
group	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A
group	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/CLOUDDATA
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/CLOUDDATA/cloud_albedo
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/CLOUDDATA/cloud_albedo_precision
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/CLOUDDATA/cloud_fraction
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/CLOUDDATA/cloud_fraction_precision

dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/CLOUDDATA/cloud_height
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/CLOUDDATA/cloud_height_precision
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/CLOUDDATA/cloud_optical_thickness
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/CLOUDDATA/cloud_optical_thickness_precision
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/CLOUDDATA/cloud_pressure
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/CLOUDDATA/cloud_pressure_precision
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/CLOUDDATA/sun_glint
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/CLOUDDATA/surface_albedo
group	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/GEODATA
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/GEODATA/earth_radius
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/GEODATA/latitude
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/GEODATA/latitude_bounds
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/GEODATA/longitude
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/GEODATA/longitude_bounds
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/GEODATA/satellite_altitude
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/GEODATA/solar_azimuth_angle
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/GEODATA/solar_azimuth_angle_sat
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/GEODATA/solar_zenith_angle
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/GEODATA/solar_zenith_angle_sat
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/GEODATA/sub_satellite_latitude
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/GEODATA/sub_satellite_longitude
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/GEODATA/viewing_azimuth_angle
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/GEODATA/viewing_azimuth_angle_sat
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/GEODATA/viewing_zenith_angle
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/GEODATA/viewing_zenith_angle_sat
group	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/OBSERVATIONS
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/OBSERVATIONS/delta_time
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/OBSERVATIONS/integration_time
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/OBSERVATIONS/radiance
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2A/OBSERVATIONS/radiance_flags

dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2A/OBSERVATIONS/radiance_precision
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2A/OBSERVATIONS/scanline
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2A/OBSERVATIONS/spectral_index
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2A/OBSERVATIONS/temperature
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2A/OBSERVATIONS/time
group /MODE_STATIC_VIEW_BACKSCAN/BAND_2A/POLARISATION
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dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2A/POLARISATION/polarisation_q_overlap
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2A/POLARISATION/polarisation_q_overlap_error
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2A/POLARISATION/polarisation_q_overlap_wavelength
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dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2A/end_pixel
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2A/ground_pixel
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2A/scanline
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2A/spectral_channel
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2A/start_pixel
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dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/CLOUDDATA/cloud_albedo
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/CLOUDDATA/cloud_albedo_precision
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/CLOUDDATA/cloud_fraction
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/CLOUDDATA/cloud_fraction_precision
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/CLOUDDATA/cloud_height
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/CLOUDDATA/cloud_height_precision

dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/CLOUDDATA/cloud_optical_thickness
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/CLOUDDATA/cloud_optical_thickness_precision
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/CLOUDDATA/cloud_pressure
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/CLOUDDATA/cloud_pressure_precision
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/CLOUDDATA/sun_glint
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/CLOUDDATA/surface_albedo
group /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/GEODATA
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/GEODATA/earth_radius
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/GEODATA/latitude
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/GEODATA/latitude_bounds
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/GEODATA/longitude
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/GEODATA/longitude_bounds
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/GEODATA/satellite_altitude
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/GEODATA/solar_azimuth_angle
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/GEODATA/solar_azimuth_angle_sat
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/GEODATA/solar_zenith_angle
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dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/GEODATA/sub_satellite_latitude
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/GEODATA/sub_satellite_longitude
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/GEODATA/viewing_azimuth_angle
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/GEODATA/viewing_azimuth_angle_sat
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/GEODATA/viewing_zenith_angle
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/GEODATA/viewing_zenith_angle_sat
group /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/OBSERVATIONS
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/OBSERVATIONS/delta_time
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/OBSERVATIONS/integration_time
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/OBSERVATIONS/radiance
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/OBSERVATIONS/radiance_flags
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/OBSERVATIONS/radiance_precision
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_2B/OBSERVATIONS/scanline

dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2B/OBSERVATIONS/spectral_index
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2B/OBSERVATIONS/temperature
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2B/OBSERVATIONS/time
group	/MODE_STATIC_VIEW_BACKSCAN/BAND_2B/POLARISATION
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2B/POLARISATION/polarisation_chi
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2B/POLARISATION/polarisation_q_overlap
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2B/POLARISATION/polarisation_q_overlap_error
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2B/POLARISATION/polarisation_q_overlap_wavelength
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2B/POLARISATION/polarisation_q_pmd
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2B/POLARISATION/polarisation_q_pmd_error
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2B/POLARISATION/polarisation_q_pmd_wavelength
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2B/POLARISATION/polarisation_q_theoretic
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2B/POLARISATION/polarisation_q_theoretic_error
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2B/POLARISATION/polarisation_q_theoretic_wavelength
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2B/detector
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2B/end_pixel
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2B/ground_pixel
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2B/scanline
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2B/spectral_channel
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_2B/start_pixel
group	/MODE_STATIC_VIEW_BACKSCAN/BAND_3
group	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/CLOUDDATA
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/CLOUDDATA/cloud_albedo
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/CLOUDDATA/cloud_albedo_precision
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/CLOUDDATA/cloud_fraction
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/CLOUDDATA/cloud_fraction_precision
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/CLOUDDATA/cloud_height
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/CLOUDDATA/cloud_height_precision
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/CLOUDDATA/cloud_optical_thickness
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/CLOUDDATA/cloud_optical_thickness_precision

dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/CLOUDDATA/cloud_pressure
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/CLOUDDATA/cloud_pressure_precision
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/CLOUDDATA/sun_glint
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/CLOUDDATA/surface_albedo
group	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/GEODATA
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/GEODATA/earth_radius
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/GEODATA/latitude
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/GEODATA/latitude_bounds
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/GEODATA/longitude
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/GEODATA/longitude_bounds
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/GEODATA/satellite_altitude
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/GEODATA/solar_azimuth_angle
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/GEODATA/solar_azimuth_angle_sat
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/GEODATA/solar_zenith_angle
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/GEODATA/solar_zenith_angle_sat
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/GEODATA/sub_satellite_latitude
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/GEODATA/sub_satellite_longitude
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/GEODATA/viewing_azimuth_angle
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/GEODATA/viewing_azimuth_angle_sat
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/GEODATA/viewing_zenith_angle
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/GEODATA/viewing_zenith_angle_sat
group	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/OBSERVATIONS
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/OBSERVATIONS/delta_time
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/OBSERVATIONS/integration_time
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/OBSERVATIONS/radiance
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/OBSERVATIONS/radiance_flags
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/OBSERVATIONS/radiance_precision
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/OBSERVATIONS/scanline
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/OBSERVATIONS/spectral_index
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/OBSERVATIONS/temperature

dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/OBSERVATIONS/time
group	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/POLARISATION
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/POLARISATION/polarisation_chi
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/POLARISATION/polarisation_q_overlap
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/POLARISATION/polarisation_q_overlap_error
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/POLARISATION/polarisation_q_overlap_wavelength
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dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/POLARISATION/polarisation_q_pmd_error
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/POLARISATION/polarisation_q_pmd_wavelength
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/POLARISATION/polarisation_q_theoretic
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/POLARISATION/polarisation_q_theoretic_error
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/POLARISATION/polarisation_q_theoretic_wavelength
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/detector
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/end_pixel
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/ground_pixel
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/scanline
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/spectral_channel
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_3/start_pixel
group	/MODE_STATIC_VIEW_BACKSCAN/BAND_4
group	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/CLOUDDATA
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/CLOUDDATA/cloud_albedo
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/CLOUDDATA/cloud_albedo_precision
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/CLOUDDATA/cloud_fraction
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/CLOUDDATA/cloud_fraction_precision
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/CLOUDDATA/cloud_height
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/CLOUDDATA/cloud_height_precision
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/CLOUDDATA/cloud_optical_thickness
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dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/CLOUDDATA/cloud_pressure_precision

dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/CLOUDDATA/sun_glint
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/CLOUDDATA/surface_albedo
group	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/GEODATA
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/GEODATA/earth_radius
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/GEODATA/latitude
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/GEODATA/latitude_bounds
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/GEODATA/longitude
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/GEODATA/longitude_bounds
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/GEODATA/satellite_altitude
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/GEODATA/solar_azimuth_angle
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dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/GEODATA/solar_zenith_angle_sat
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dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/GEODATA/viewing_azimuth_angle_sat
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dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/GEODATA/viewing_zenith_angle_sat
group	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/OBSERVATIONS
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/OBSERVATIONS/delta_time
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/OBSERVATIONS/integration_time
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/OBSERVATIONS/radiance
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/OBSERVATIONS/radiance_flags
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/OBSERVATIONS/radiance_precision
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/OBSERVATIONS/scanline
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/OBSERVATIONS/spectral_index
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/OBSERVATIONS/temperature
dataset	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/OBSERVATIONS/time
group	/MODE_STATIC_VIEW_BACKSCAN/BAND_4/POLARISATION

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dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_4/POLARISATION/polarisation_q_overlap
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dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_4/detector
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_4/end_pixel
dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_4/ground_pixel
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dataset /MODE_STATIC_VIEW_BACKSCAN/BAND_4/spectral_channel
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group /MODE_STATIC_VIEW_BACKSCAN/PMD
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dataset /MODE_STATIC_VIEW_BACKSCAN/PMD/GEODATA/earth_radius
dataset /MODE_STATIC_VIEW_BACKSCAN/PMD/GEODATA/latitude
dataset /MODE_STATIC_VIEW_BACKSCAN/PMD/GEODATA/latitude_bounds
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dataset /MODE_STATIC_VIEW_BACKSCAN/PMD/GEODATA/satellite_altitude
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dataset /MODE_STATIC_VIEW_BACKSCAN/PMD/GEODATA/solar_zenith_angle
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dataset /MODE_STATIC_VIEW_BACKSCAN/PMD/GEODATA/sub_satellite_latitude
dataset /MODE_STATIC_VIEW_BACKSCAN/PMD/GEODATA/sub_satellite_longitude

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dataset /MODE_STATIC_VIEW_BACKSCAN/PMD/GEODATA/viewing_azimuth_angle_sat
dataset /MODE_STATIC_VIEW_BACKSCAN/PMD/GEODATA/viewing_zenith_angle
dataset /MODE_STATIC_VIEW_BACKSCAN/PMD/GEODATA/viewing_zenith_angle_sat
group /MODE_STATIC_VIEW_BACKSCAN/PMD/OBSERVATIONS
dataset /MODE_STATIC_VIEW_BACKSCAN/PMD/OBSERVATIONS/delta_time
dataset /MODE_STATIC_VIEW_BACKSCAN/PMD/OBSERVATIONS/radiance
dataset /MODE_STATIC_VIEW_BACKSCAN/PMD/OBSERVATIONS/radiance_flags
dataset /MODE_STATIC_VIEW_BACKSCAN/PMD/OBSERVATIONS/scanline
dataset /MODE_STATIC_VIEW_BACKSCAN/PMD/OBSERVATIONS/wavelength
dataset /MODE_STATIC_VIEW_BACKSCAN/PMD/ground_pixel
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dataset /MODE_STATIC_VIEW_BACKSCAN/PMD/scanline
dataset /MODE_STATIC_VIEW_BACKSCAN/PMD/spectral_channel
group /MODE_SUN
group /PMD_IRRADIANCE
dataset /PMD_IRRADIANCE/mean_sun_pmd
dataset /PMD_IRRADIANCE/mean_sun_pmd_wavelength
dataset /PMD_IRRADIANCE/mean_sun_q_values
dataset /angle
dataset /angle_pmd
dataset /corner
dataset /detector_channel
dataset /overlap_region
dataset /pmd
dataset /time
}
}
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