

Herschel Products Definitions Document

HERSCHEL-HSC-DOC-0959



Herschel Products Definitions Document

by

Publication date version 0.95, 16 March 2009

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Part I. Herschel Products Description

Chapter 1. Introduction

1.1. Purpose and scope

The data from the Herschel Space Observatory is provided to the astronomical community as standard products. Standard products are generated systematically by the Herschel Science Centre through the Herschel Data Processing system, and are stored in the Herschel Science Archive to be accessed by the astronomical community and for legacy. In addition, the Herschel Data Processing package distributed by the Herschel Science Centre, allows the users to reduce the data and generate scientific products through interactive analysis. Highly processed products are expected to be delivered by the observers to the Herschel Science Centre for their inclusion in the Herschel Science Archive. For a further description of the Herschel ground segment context for standard products, please refer to the Herschel Observers' Manual [RD-1]. For an overview of the Herschel Data Processing, see the Herschel DP User's Manual [RD-2], and the Herschel DP Architecture and Design document [RD-3].

The purpose of this document is to provide an overview and detailed descriptions of the Herschel standard products. These products encompass different levels of processing of the observational data, and cover also calibration, auxiliary and quality control data required in the observations data processing. For the document purposes, the term observation and AOR are considered equivalent.

The document is organised as follows. Chapter 2 provides a high level description of the data products that are available to the users of the Herschel Space Observatory. Chapters 3, 4 and 5 describe the HIFI, PACS and SPIRE products, respectively. Chapter 6 provides an overview of the Auxiliary, Catalogue, and Quality Control products. Chapter 7 and the following contain the definition tables of the implemented products.

Note from the authors: This draft gathers the current information and knowledge of the definition of the Herschel products. However, it must be regarded as a snapshot of the work in progress. It is expected that as a result of the Commissioning and Performance Verification phases, Herschel products will be modified and improved.

1.2. References

- RD.1 Herschel Observers' Manual, issue 2.1, 1 August 2007, Herschel-HSC-DOC-0876
- RD.2 Herschel Data Processing Basic User's Manual, draft 0.25, 30 January 2009, Herschel-HSC-DOC-0517
- RD.3 Herschel Data Processing Architecture and Design, draft 1.0, 5 August 2008, Herschel-HSC-DOC-0957
- RD.4 HIFI standard data product specification, draft 0.3, 24 March 2005, ICC/2002-002.
- RD.5 Herschel Spectral Line List Product specification, issue 1.0, 16 May 2007, HIFI-ICC-2007-03
- RD.6 Herschel Source List Product specification, issue 1.0, May 2007, PICC-KL-TN-026
- RD.7 Herschel Pointing Product Specification, issue 1.7, 30 July 2008, HERSCHEL-HSC-DOC-0662
- RD.8 Herschel Orbit Product Specification, issue 1.4, 31 October 2008, HERSCHEL-HSC-DOC-0767
- RD.9 SIAM product specification, issue 1.4, 31 October 2008, HERSCHEL-HSC-DOC-0716
- RD.10 Herschel Auxiliary Products Specification, issue 1.0, 31 October 2008, HERSCHEL-HSC-DOC-0816

- RD.11 Quality Control Report Product Definition, draft 0.5, 15 January 2007, Herschel-HSC-DOC-0660
- RD.12 Herschel SREM Products Specification, issue 1.0, 31 October 2008, Herschel-HSC-DOC-0991

1.3. Acronyms

AOR	Astronomical Observation Request
DP	Data Processing
HIFI	Heterodyne Instrument for the Far Infrared
HIPE	Herschel Interactive Analysis Processing Environment
HRS	High Resolution Spectrometer
HSA	Herschel Science Archive
PACS	Photodetector Array Camera and Spectrometer
RD	Reference Document
SPIRE	Spectral and Photometric Image REceiver
TAI	Temps Atomique International
TBD	To Be Defined
WBS	Wide Band Spectrometer
WCS	World Coordinate System

Chapter 2. Herschel products

2.1. Generalities

A Herschel product consists of metadata keywords, tables with the actual data, and the history of the processing that generated the product. Metadata keywords have been specified to allow an optimal identification and characterisation of the products, both for information to the users, and to provide the required items to the processing software. They have been defined so that compatibility with standard keywords used in Astronomy and commonality across Herschel products are ensured. Whenever possible, product formats have been defined to be consistent with similar scientific products used by the astronomical community (e.g. images, point source catalogues). The definition of Herschel products meets the requirement of compatibility with the Virtual Observatory.

2.2. Herschel product types

The following types of Herschel products are defined:

1. Observational products

Observational products contain the scientific data resulting from the Herschel observations. Observational products are classified depending on the level of the processing of the data they contain, ranging from raw data (level-0) to highly processed scientific data (level-3) (see below for the definition of product levels). Observational products are generated per observation (or AOR, Astronomical Observation Request), although highly processed products may result from the combination of data from several observations. Browse products will also be available in the Herschel Science Archive to allow the user to quick look at the contents of the data. The browse products are generated automatically. Therefore, especially in the earlier phases of the mission, observers should be aware that the quality of these products is not good enough for science analysis. For this purpose, an interactive reduction of the data following the instrument Handbooks instructions is mandatory.

2. Calibration products

These products contain the parameters that characterise the behaviour of the satellite and the instruments. There are uplink and downlink calibration products. Uplink calibration products are used for the specification of the commands that are uplinked to the satellite for the execution of the observations. Downlink calibration products are used in the processing of the raw data to produce astronomically calibrated products in which the instrument artifacts have been removed. In this document, only the downlink calibration products will be described.

3. Auxiliary data products

These products contain all Herschel non-science spacecraft data required directly or indirectly in the processing and analysis of the scientific data. Auxiliary data products are normally generated per Herschel Operational Day, with the exception of the Uplink product, that is generated per observation.

4. Quality Control products

Each observation is associated with a Quality Control product, which gathers the information required to evaluate the technical quality of the executed observation and of the products generated, and provides a global quality assessment.

5. Catalogue products

Catalogue products are derived from the scientific data, and contain lists of astronomical objects or spectral features with their characterisation. They are the result of highly advanced processing of the data, and may be based on one or several observations.

6. User generated products

It is expected that astronomers, especially observers involved in the Herschel Key Programs, will provide highly processed products to the Herschel Science Centre. These products will be stored in the Herschel Science Archive and will be made available to the astronomical community. When applicable, the format of these products should follow the formats defined in this document. The specific metadata keywords and guidelines for the user generated products will be provided elsewhere.

2.3. Observational products levels

Depending on their processing level, the Herschel observational data products are defined as follows:

- **Level-0 data product:** Raw telemetry data as measured by the instrument, minimally manipulated and ingested as Data Frames into the mission data base/archive.
- **Level-0.5 data product:** Raw data processed to an intermediate point which is adequate for inspection or to start interactive analysis at a more advance stage than level-0.
- **Level-1 data product:** Detector readouts calibrated and converted to physical units, in principle instrument and observatory independent. It is expected that level-1 data processing can be performed without human intervention.
- **Level- 2 data product:** Level-1 data further processed to such a level that scientific analysis can be performed. For optimal results many of the processing steps involved to generate level-2 data may require human interaction, based both on instrument understanding as well as understanding of the scientific aims of the observation. These data products are at a publishable quality level and should be suitable for Virtual Observatory access.
- **Level-3 data product:** These are the publishable science products where level-2 data products are used as input. These products are not only from the specific instrument, but are usually combined with theoretical models, other observations, laboratory data, catalogues, etc. Their formats should be Virtual Observatory compatible and these data products should be suitable for Virtual Observatory access.

While the generation of level-0 and level-1 data products will be automatic, proper quality level-2 and level-3 data products may require interactive processing. It is expected that the degree of human intervention necessary to generate these products will decrease with time as the knowledge of the instruments' behaviour increases during the mission. This is the same as saying that the quality of the automatically generated product will be progressively enhanced. However, in many cases it will not be possible to discard interactive processing, especially in the derivation of level-3 data products.

2.4. Herschel product generic definition

2.4.1. Product basic structure

A product is defined in the Herschel Data Processing system as the highest level of data structure, which contains the following components:

- Metadata
- Zero or more tables or "datasets", which can also have their own metadata
- A processing history of the product

Herschel products have an internal structure representation in the Herschel Data Processing system or HIPE. When the products are stored on disk, they can be saved with this Herschel Data processing internal structure, or they can be exported as FITS files. In this case, a proper translation of the metadata

keywords and of the tables and datasets takes place to ensure consistency with the standard. Products are distributed through the Herschel Science Archive (HSA) as FITS files, or can be loaded from the HSA directly in HIPE.

Figure 2.1. Herschel generic Product structure

2.4.2. Datasets in Herschel products

Dataset structures provide the mean to relate sets of data arrays in a table, and to qualify or annotate their contents with, for example, units and metadata. The Herschel Data Processing system provides three generic datasets:

- **Array Dataset:** A quantifiable dataset containing array data.
- **Table Dataset:** A dataset containing a collection of columns. Each column contains a quantifiable array data (e.g., data vector, array, cube). All columns have the same number of rows.
- **Composite Dataset:** A dataset containing a collection of named datasets. This allows arbitrary complex structures, as a child dataset within a composite dataset may be a composite dataset itself.

2.4.3. Spectrum specialised datasets

2.4.3.1. Spectrum1d

Spectrum1d contains a one-dimensional representation of a spectrum. It consists of a Table Dataset with the following columns:

- A flux column (double 1D)
- A wavelength/frequency column (double 1D)
- A weight column (double 1D)
- A segments column (double 1D). The values within this array indicate to which segment the corresponding flux/weight/flag/wave belong. The spectrum can be made of several segments or smallest spectrum component dealt with by the DP system. For example, a spectral segment can be an extracted piece of a spectrum to be used for fitting purposes.
- A flag column (integer 1D).

A Spectrum1d can also have metadata (header information) added. In general the meaning of the flags is stored in the metadata.

2.4.3.2. Spectrum2d

For multiple spectra taken in an observation, a 2D structure is required. The components of a Spectrum2d dataset are similar to that of a Spectrum1d dataset, except for having a second dimension. An additional component is the ability to contain subbands. Subbands are vertical splits in the Spectrum2d columns equivalent to the segment column in Spectrum1d. A clear example of its usefulness is the storage of the output from the HIFI spectrometers where several CCD or autocorrelator readouts lead to several "chunks" (subbands) of spectra in one data frame.

Spectrum2d consists of a Table Dataset with the following columns:

- A flux column (double 2D), where the first axis runs over the spectral dimension and the second axis runs over e.g. time.

- A wavelength/frequency column (double 2D)
- A weight column (double 2D)
- A flag column (integer 1D). In general the meaning of the flags is stored in the metadata.
- (Optional) a subband start column (integer 1D), which indicates where in the arrays a subband starts.
- (Optional) a subband length column (integer 1d). Indicates the length of the array section that a subband covers.

A Spectrum2d can also have metadata (header information) added.

2.4.4. Image and cube generic products

2.4.4.1. SimpleImage product

The SimpleImage product contains a standard two-dimensional image, in particular the following arrays:

- Image in an array 2D (e.g. double, integer)
- Error in an array 2D (e.g. double, integer)
- Exposure in an array 2D (e.g. double, integer)
- Flag in a short integer array 2D

It also contains metadata that provide unit and World Coordinate System information (for further details see section 4.12 in the Herschel DP Basic User's Manual [RD-2]).

2.4.4.2. SimpleCube product

The SimpleCube product allows us to store three-dimensional images (or multiple stacked 2D images). In particular it contains the following arrays:

- Image in an array 3D (e.g. double, integer)
- Error in an array 3D (e.g. double, integer)
- Exposure in an array 3D (e.g. double, integer)
- Flag in a short integer 3D array

SimpleCube has the depth as the first (most slowly varying) index. It also contains metadata that provide unit and World Coordinate System information (for further details see section 4.12 in the Herschel DP Basic User's Manual [RD-2]). A single WCS only can be applied to the SimpleCube. For example, it is not possible to provide different WCS's for each image in an image stack.

2.4.4.3. SpectralSimpleCube product

SpectralSimpleCube is an extension of the SimpleCube product. SpectralSimpleCube can contain [1D, 2D] and 3D ArrayDatasets. The 3D sets store spectral stacks of images with dimensions [x3,x2,x1], where x3 is the spectral index. 2D sets are of dimension [x2,x1] and are interpreted as images. 1D sets are of dimension [x3] and are interpreted as spectra. SpectralSimpleCube also contains metadata information that provide unit and World Coordinate System information (for further details see section 4.12 in the Herschel DP Basic User's Manual [RD-2]).

2.4.5. Context products

Herschel products can exist as simple products and as context products. Contexts are special types of products that contain references to other products stored. This enables a mean to build complex data structures. Context products also contain the required metadata as applicable to the group of products that contains. There are two "standard" types of context products provided: ListContext (for grouping products into sequences or lists) and MapContexts (for grouping products into containers with access to each one by key).

2.4.6. Product metadata keywords

The following metadata keywords are required to be present in all Herschel products. In the Data Processing system these keywords are referred to as "attributes":

Table 2.1. Herschel products attributes

Herschel DP keyword name	Type	Description	FITS keyword
creationDate	Fine time	Date of product creation	DATE
creator	String	The name of the software that created the product	CREATOR
description	String	Full name of product	DESC
instrument	String	Instrument name	INSTRUME
modelName	String	Instrument Model Name	MODELNAM
startDate	Fine time	Start date of observation	DATE-STA
endDate	Fine time	End date of observation	DATE-END
type	String	Product type identification	TYPE

Fine Time is the internal DP representation that holds the value of time. Fine time is defined as the atomic time (SI seconds) elapsed since the TAI epoch of 1 January 1958 UT2. In the DP system the resolution provided is microseconds. When the value of a Fine Time keyword is displayed on a GUI or exported to FITS, the parameter is transformed to a String value, formatted according to the rules as defined by the TIMESYS keyword. Per default, TIMESYS='UTC', so the format will then be YYYY-MM-DDTHH:MM:SS.ssssss.

In addition to the product attributes, observational products (e.g. level-0, level-0.5, level-1 and level-2 products) contain those metadata keywords that identify the product and the observation that is associated with. In particular, the main metadata keywords are:

Table 2.2. Main metadata keywords in observational products

Herschel DP keyword name	Type	Description	FITS keyword
obsid	Long	Observation identifier	OBS_ID
bbid	Long	Building block identifier	BBID
observer	String	Name of observer	OBSERVER
proposal	String	Proposal name	PROPOSAL
aot	String	AOT identifier	AOT
obsMode	String	Observation mode name	OBS_MODE
cusMode	String	CUS observation mode	CUSMODE
aorLabel	String	AOR label as entered in HSpot	AOR

Herschel DP keyword name	Type	Description	FITS keyword
odNumber	Long	Mission operational day number	ODNUMBER

The "obsid" uniquely identifies an observation for all mission phases. The "obsid" relates all observational products associated with an AOR. The "obsid" is normally displayed as hexadecimal number.

The "bbid" identifies uniquely each building block in an observation. Building Blocks are the key components of the observations for the instrument commanding point of view. An observation execution will always be defined as a flat sequence of Building Blocks. The bbid is particularly important in the Herschel product definitions because large products (e.g. level-0, level-0.5) are sliced per building block. That is, a product or context product is provided for each building block in the observation.

Both the "obsid" and the "bbid" are essential to link the uplink commanding and the downlink telemetry.

"observer", "proposal", "aot", "obsMode" and "aorLabel" are derived from the proposal information and AORs as entered in HSpot.

"cusMode" is an internal uplink keyword that associates the observation requested with the corresponding pipeline processing. This keyword is mainly used in the SPIRE data processing.

"odNumber" is the number that identifies the Operational Day in the mission since launch. An Operation Day is defined as the interval between the start of two contiguous satellite ground contact periods. The duration of an Operational Day is in average around 24 hours, but it can also be shorter or longer, depending on operational constraints. The "odNumber" is an important key for the identification of those Auxiliary products that are generated per OD.

A complete list of the compulsory metadata keywords in the Herschel observational products can be found in Appendix 1.

2.5. The Herschel Observation Context

The Herschel Data Processing system uses the Observation Context as organisational product unit. An Observation Context is a container of products applicable to a specific observation. It provides associations to products which are specific to a single observation (e.g. Level-0 products) as well as associations to products that are applicable to multiple observations (such as the calibration or auxiliary products). An Observation Context may have a state of completeness, which is defined by the processing of the data for that Observation, for example "scheduled", "Auxiliary data attached", "Calibration data attached", "Level0 data generated", "Level1 data generated". Thus the Observation Context changes its nature along the way of processing.

An Observation Context is generated per AOR, except for the SPIRE PACS parallel mode for which two Observation Contexts are produced, containing the SPIRE and PACS data respectively.

The Observation Context consists of the following contexts and products, which have been defined following the product types described in [Section 2.2](#).

- Telemetry Context: This context is not distributed by default. Telemetry products will only be provided when the Herschel Science Centre deems it to be necessary because of a serious problem in the processing to level-0 data.
- Level-0, level-0.5, level-1, level-2 level-3 (optional) contexts
- Calibration Context
- Auxiliary Context

- Quality Context
- Browse product
- Trend Analysis Context

Figure 2.2. Observation Context structure

2.6. Product naming convention for exported FITS files

The Herschel products naming convention for exported FITS files takes the following format which depends on the type of product and whether the product has data for one observation, one operational day or more versions throughout the mission.

The generic format is as follows although not all of the items are present in all filenames. See following subsections for the specific formats for the different groups of products.

```
h<product/instrument><subinst><obsid/  
od>_<bbid>_<level><xxxxxx>_<yyy>v<NN>
```

where

- `h` stands for Herschel, `<product/instrument>` will be the product type such as *aux* for auxiliary products or the instrument name either *hifi*, *pacs* or *spire* (note that all letters in the filename are lowercase).
- `<subinst>`: this is only relevant for instrument data. A letter will appear to indicate what instrument or mode was used. For SPIRE or PACS data a *p* will be appear when the Photometer sub-instrument is used and *s* will be displayed for the Spectrometer sub-instrument. For HIFI the letter indicates the mode or the spectrometer depending on the type of product.
- `<obsid/od>`: The observation ID given in decimal format. For data valid for one operational day the number of that day will be given instead.

- `<bbid>`: Some observational products are split up into logic parts of the observation such as building blocks. When this occurs the `bbid` will be given in hexadecimal format.
- `<level>`: The level of the product is presented here, level 0 products will be represented by 00, level 1 by 10 and level 2 by 20. Further levels may exist with appropriate numbers.
- `<xxxxxx>`: Here will be 3 to 5 letters that indicate the type of product, such as *psc* for point source catalogue, *sll* for spectral lines list, or the type of the AUX products the file is. A full list of the acronyms and their meaning will be provided in the future.
- `<yyy>`: When data from an observation need to be split up further than by building block or in a way unrelated to building block, the number of the slice is given here. If 100 or less products result from the split then two digits (`yy`) will represent the slices (in time order). For more than 100 slices then three digits (`yyy`) will be used.
- `v<NN>`: Gives the version number of the pipeline used to generate the product. For some auxiliary and calibration files for which there are few version through the mission and apply to many observations, the version number of the product is used instead of `<obsid/OD>`

The ordering of the parameters is designed to give a logic ordering of the filenames when listed in a directory.

The specific formats per product are given in the following sections.

2.6.1. Observation products

The filenames of observation products take the generic form of (products split into building blocks and slices):

```
h<instrument><subinst><obsid>_<bbid>_<level><xxxxxx>_<yyy>v<NN>
```

For products that contain data from the whole observation (i.e., not split up at all) the generic form is:

```
h<instrument><subinst><obsid>_<level><xxxxxx>v<NN>
```

For example, `hpacsp3221226224_00hpptv10` is PACS Photometer Timeline level 0 data from observation 3221226224 generated with version 10 of the pipeline.

For products that contain data for one whole building block the generic form is

```
h<instrument><subinst><obsid>_<bbid>_<level><xxxxxx>v<NN>
```

For those split up into slices but not building blocks

```
h<instrument><subinst><obsid>__<level><xxxxxx>_<yyy>v<NN>
```

where the items are as described above but with the following differences.

For HIFI, the <subinst> is *p* for single point observations, *r* for rasters, *o* for on the fly and *s* for spectral scans.

HIFI split first xxx into observing "sub-modes": *psw* for position switch, *dfs* for double beam switch, *fsw* for frequency switch. The last two xx differentiate the type of spectrum: *ds* for double side band and *ss* for single side band.

2.6.2. Calibration products

Calibration products have the addition of **cal** in the filename, the generic form is

```
h<product/instrument><subinst>cal<obsid/od>_<xxxxxx>v<NN>
```

For calibration products associated with a particular observation or operational day the generic forms are respectively:

```
h<inst><subinst>cal<osbid>_xxxxxvNN
```

and

```
h<inst><subinst>cal<OD>_xxxxxvNN
```

For HIFI here <subinst> will be either *w* for WBS or *h* for HRS.

2.6.3. Auxiliary products

The filenames of auxiliary products take the generic form:

```
haux<obsid/od>_<level><xxxxxx>v<NN>
```

For products associated with one obsid the form is

```
haux<osbid>_xxxxxx<vNN>
```

Those with data for one operational day take the form

haux<OD>_xxxxx<vNN>

and products of which there are a few version through the whole mission the form is

haux_xxxxx<vNN>

Here NN is the version of the product (in the case that the product is generated by the pipeline then it could be the pipeline version),and xxxxx is used to say which of the AUX products the file is.

Example: haux_siam_v08

2.6.4. Quality Control

The filename for the quality control report is:

h<instrument><obsid>_qcr_v<NN>

For the quality control report summary:

h<instrument><obsid>_qcrs_v<NN>

For the quality logs:

h<instrument><obsid>_qclogs_v<NN>

2.6.5. Catalogue products

For catalogues using data from the whole mission the format will be

h_<level><xxxxxx>_v<NN>

For products that involve a selection of data the definition of the filename is under discussion and will be similar format to the user provided products.

<level> =30 or 40

xxxxx is *p*sc for point source catalogue, *x*sc for extended source catalogue, *s*ll for spectral lines list...

v<NN> is the version of the pipelines used to make the products or perhaps the version of the catalogue - TBD.

2.6.6. Trend Analysis products

This section is TBD

2.6.7. User provided products

This section is TBD

Chapter 3. HIFI Products Description

3.1. HIFI observational products

3.1.1. HIFI level-0, level-0.5 and level-1 contexts

The HIFI level-0, level-0.5 and level-1 contexts contain one type of context. Its global structure does not change when the data is processed between level-0 and level-1. The HIFI levels 0, 0.5 and 1 contain the HIFI Timeline product, which is a mapcontext that groups a number of HIFI Spectrum Datasets, wrapped in Products, normally one per building block.

Product description	Product type
HIFI level 0 context	HifiRawData
HIFI WBS-H context	HifiTimelineProduct
WBS-H product per building block	HifiSpectrumDataset
HIFI WBS-V context	HifiTimelineProduct
WBS-V products per building block	HifiSpectrumDataset
HIFI HRS-H context	HifiTimelineProduct
HRS-H products per building block	HifiSpectrumDataset
HIFI HRS-V context	HifiTimelineProduct
HRS-V products per building block	HifiSpectrumDataset

- HIFI level 0.5 context: Globally the level 0.5 context has the same structure as the level 0 product. Backend (HRS or WBS) specific effects are removed as much as possible. A frequency scale has been added.
- HIFI level 1 context: As mentioned above, the level 1 context still has the same global structure but now the flux columns are calibrated. Each row in the HIFI Spectrum Dataset corresponds to a calibrated single on-board integration. The integrations are not added in the standard processing.

3.1.2. HIFI level-2 context

A high level description of the HIFI level-2 products is given here. Depending on the AOT different products will be made. Broadly there are 3 kinds of HIFI AOTs: Single point observations, spectral scan observations and mapping observations. The first two of these will produce one or more single spectra while the last will produce a spectral cube.

HIFI Single Point Observation

By processing the data in a HifiTimelineProduct by e.g. removing the reference, averaging the on-source spectra and concatenating subbands smaller SpectrumDatasets are obtained. All of these products are full HifiSpectrumDatasets and as such except for the number of spectra fundamentally identical to the spectrum data sets generated in level-1 processing. In general only one spectrum will be contained in the HifiSpectrumDataset. The meta information associated with these data sets is more extended than what is available for the level-1 spectrum data set. The overall container of these reduced HifiSpectrumDatasets is still a HifiTimelineProduct.

HIFI Spectral Scan Observation

A spectral scan observation contains several point observations at different LO settings such that they might form a single continuous spectrum, when deconvoluted. As deconvolution is still beyond level-2 spectral scan observations are similar to the single point observations of the previous paragraph.

HIFI Mapping Observations

HIFI on the fly mapping and raster data are three dimensional in nature; the data contain spectra corresponding to a (fairly) regular position grid on the sky. Normally OTF cq. raster data is processed from a HifiSpectrumDataset into a regularly gridded data cube with equally spaced pixels in position and frequency coordinates. Such data cubes are stored as a HififSpectralCube product which will be directly derived from the generic SpectralCube data product.

3.1.3. Beyond HIFI level-2

HIFI line list products

By fitting line shapes to HIFI spectrum data the observed lines can be characterised. For storage of such line parameters typically line identification, rest frequency, fitted central frequency and/or velocity, amplitude and width with error estimates a dedicated line list data product is defined. This product is based on the generic Herschel line list product.

HIFI image products

For some science goals images need to be generated from HIFI data. The clearest examples are total line intensity or line velocity images derived from on the fly SpectralCube. Other examples are position velocity images (again from OTF data) but also time-frequency images showing the variations of spectral behaviour as a function of time. All of these images are stored as HIFI image data products which will be directly derived from the generic Herschel image data product.

3.2. HIFI calibration products

There are two kinds of Calibration products. Products which are provided in advance and products which are derived from the HifiTimelineProduct and are used at the same time. These latter products are saved in the ObservationContext and can (later) be used for trend analysis and quality control.

A note about nomenclature: A calibration product specific for HRS starts with CalHrs... and one specific for WBS starts with CalWbs... When it only starts with Cal it is generic.

3.2.1. HIFI calibration products 1: Predefined calibration products

Product class	Product Description
CalBbid	A table containing the meaning of the different building blocks types, some attributes and their meaning
CalCoupCoeff	Product that contains for each (physical band) the coupling coefficients eta_hot and eta_cold (for a given freq grid)
CalForwardEff	Product containing baseline ripple model from OFF scans. Every ripple model has a time tag and quality.
CalHKTable	A table containing the HK items which should be selected in the HifiSpectrumDatasets for the different backend and in different situations.
CalUpConvertLO	It contains the upconverter factor needed for the frequencies in bands 6 and 7.
CalHrsPowCorr	A product containing values for the power gain non-linearity correction. It has 2 tables: PowCorrVSigma which is the vSigma vector and PowCorrGain which is the gain vector.
CalHrsQDCFast	Only MetaData containing the values for the fast Quantization distortion correction.

Product class	Product Description
CalHrsQDCFull	<p>A product containing values for the full Quantization distortion correction. It has 5 datasets.</p> <ul style="list-style-type: none"> • QDCFullMSigma: Tabledataset containing mSigma vector. • QDCFullRo: Tabledataset containing ro vector. • QDCFullVSigma: Tabledataset containing vSigma vector. • QDCFullGridDim: Tabledataset containing grid dimensions. • QDCFullGrid: Tabledataset containing grid or 3d table.
CalHrsBadChans	Product which contains the bad channels table for HRS
CalWbsBadPixel	Product which contains the bad pixels table for WBS
CalWbsFreq	The frequency calibration context for the WBS
CalWbsFreqCoeff	It contains one Table Dataset with 5 columns, one for time and for each of the four CCD's, a set of polynome coefficients that define how to convert pixel index to IF frequency for that time.
CalWbsFreqTuning	
CalWbsLinearCoeff	Contains the coefficients for the non linearity correction of Wbs bands.
CalWbsZero	

3.2.2. HIFI calibration products 2: Calibration products derived from the HifiTimelineProduct

Product class	Product Description
FreqRanges	Product containing the measures for frequency drifts potentially occurring during an observation.
CalHotColdFlux	A context produt containing the hot-cold calibration.
CalOffBaseline	Product containing the baseline spectra obtained by by the MkOffSmooth module which processes off data sets
CalPhases	Product that contains information about the different phases observed with an observation. Phases are identified (depending on the observing mode) from the Chopper / buffer or the LoFrequency / buffer.

3.3. HIFI Quality control products

Product class	Product Description
QHtpLevel0	Level 0 Quality product
QWbsFreq	Level 0.5 Quality context that contains all the Comb Quality Product for the specific observation.

HIFI Products Description

Product class	Product Description
QWbsComb	Level 0.5 Quality context that contains the 4 single CCD-Comb Quality Product
QWbsCcd	Level 0.5 Quality product that Contain the result of the Comb fitting analysis for the specific CCD
QWbsSpikes	
QWbsZero	Level 0.5 Quality product that contains the zero's "maximum","minimum","average","variance"
CalPhases	Product that contains information about the different phases observed with an observation. Phases are identified (depending on the observing mode) from the Chopper / buffer or the LoFrequency / buffer.

Chapter 4. PACS Products Description

4.1. PACS observational products

4.1.1. PACS photometry level-0 context

The PACS photometry level-0 context is called Herschel-PACS Photometer Timeline (type HPPT). It contains contexts products respectively associated with the timelines of the averaged bolometer signals, associated mechanism positions, detector timing information, selected housekeeping parameter measures and engineering products to monitor the health of the instrument and assess the proper execution of the observation. Each context product contains a number of products or "slices". Slices are defined such that the data does not cross building block boundaries, and the resulting product does not exceed a certain size limit. The structure of HPPT is as follows (the product "type" is given in brackets):

Product description	Product type
Herschel-PACS Photometry Timeline - Level 0 Context	HPPT
Photometry Raw Blue Context	HPPRAWB
Photometry Raw Blue Slice	HPPRAWBS
Photometry Raw Red Context	HPPRAWR
Photometry Raw Red Slice	HPPRAWRS
Photometry Averaged Blue Context	HPPAVGB
Photometry Averaged Blue Slice	HPPAVGBS
Photometry Averaged Red Context	HPPAVGR
Photometry Averaged Red Slice	HPPAVGRS
Photometry raw DecMec status Blue Context	HPPDMCB
Photometry raw DecMec status Blue Slice	HPPDMCBS
Photometry raw DecMec status Red Context	HPPDMCR
Photometry raw DecMec status Red Slice	HPPDMCRS
Photometry Nominal Housekeeping Context	HPPHK
Photometry Housekeeping Slice	HPPHKS
General Housekeeping Context	HPGENHK
General Housekeeping Slice	HPGENHKS
Diagnostic Housekeeping Context	HPDIAGHK
Diagnostic Housekeeping Slice	HPDIAGHKS
Engineering Context	HPENG
Telecommand verification Slice	HPTCVERS
Telecommand history Slice	HPTCHISTS
Event Slice	HPEVENTS
TM Packet Report	HPTM_PACKET_REPORT
	HPTIME_VERIFICATION
	HPOBCP_STATUS
	HPOBCP_LIST

Product description	Product type
	HPMEMORY_DUMP
	HPMEMORY_CRC
	HPLINK_CONNECTION
	HPACT_OBCP_LIST
OGSE housekeeping Context	HPOGSEHK
PACS OGSE housekeeping Slice	HPOGSEHKS
CDMS simulator context	HPCDMS
PACS CDMS simulator slice	HPCDMSS

4.1.2. PACS photometry level-1 context

The following level-1 products are under definition for the PACS photometry AOTs. Slices are defined such that the data does not cross building block boundaries, and the resulting product does not exceed a certain size limit. (this list is TBC)

Product description	Product type
PACS Photometry - level-1 Context	
Photometry level-1 Frames Blue Bolometer Context	HPPAVGB
Photometry level-1 Frames Blue Slice	HPPAVGBS
Photometry level-1 Frames Red Bolometer Context	HPPAVGR
Photometry level-1 Frames Red Slice	HPPAVGRS

4.1.3. PACS photometry level-2 products

Product description	Product type
PACS Photometer - level-2 context	
Photometer level-2 Frames Blue Bolometer Context	HPPAVGB
Photometer level-2 Frames Blue Slice	HPPAVGBS
Photometer level-2 Frames Red Bolometer Context	HPPAVGR
Photometer level-2 Frames Red Slice	HPPAVGRS

4.1.4. PACS spectroscopy level-0 context

The PACS spectroscopy level-0 context is called Herschel-PACS Spectrometer Timeline (HPST). It contains contexts products respectively associated with a timeline of the averaged integration ramps, associated mechanism positions, detector timing information, selected housekeeping parameter measures and engineering products to monitor the health of the instrument and assess the proper execution of the observation. These contexts contain a number of products or "slices". Slices are defined such that the data does not cross building block boundaries, and the resulting product does not exceed a configured size limit. The HPST structure is as follows (the product "type" is given in brackets):

Product description	Product type
Herschel-PACS Spectroscopy Timeline - Level 0 Context	HPST
Spectroscopy Raw Blue Context	HPSRAWB

Product description	Product type
Spectroscopy Raw Blue Slice	HPSRAWBS
Spectroscopy Raw Red Context	HPSRAWR
Spectroscopy Raw Red Slice	HPSRAWRS
Spectroscopy Averaged Blue Context	HPSAVGB
Spectroscopy Averaged Blue Slice	HPSAVGBS
Spectroscopy Averaged Red Context	HPSAVGR
Spectroscopy Averaged Red Slice	HPSAVGRS
Spectroscopy Slope fitted Blue Context	HPSFITB
Spectroscopy Slope fitted Blue Slice	HPSFITBS
Spectroscopy Slope fitted Red Context	HPSFITR
Spectroscopy Slope fitted Red Slice	HPSFITRS
Spectroscopy raw DecMec status Blue Context	HPSDMCB
Spectroscopy raw DecMec status Blue Slice	HPSDMCBS
Spectroscopy raw DecMec status Red Context	HPSDMCR
Spectroscopy raw DecMec status Red Slice	HPSDMCRS
Spectroscopy Nominal Housekeeping Context	HPSHK
Spectroscopy Housekeeping Slice	HPSHKS
General Housekeeping Context	HPGENHK
General Housekeeping Slice	HPGENHKS
Diagnostic Housekeeping Context	HPDIAGHK
Diagnostic Housekeeping Slice	HPDIAGHKS
Engineering Context	HPENG
Telecommand verification Slice	HPTCVERS
Telecommand history Slice	HPTCHISTS
Event Slice	HPEVENTS
TM Packet Report	HPTM_PACKET_REPORT
	HPTIME_VERIFICATION
	HPOBCP_STATUS
	HPOBCP_LIST
	HPMEMORY_DUMP
	HPMEMORY_CRC
	HPLINK_CONNECTION
	HPACT_OBCP_LIST
OGSE housekeeping Context	HPOGSEHK
PACS OGSE housekeeping Slice	HPOGSEHKS
CDMS simulator context	HPCDMS
PACS CDMS simulator slice	HPCDMS

4.1.5. PACS spectroscopy level-1 products

Product description	Product type
PACS Spectroscopy - level-1 Context	HPS3D

Product description	Product type
PACS Spectroscopy Calibrated Frames	HPSCF
PACS Spectral Cube - Blue Spectrometer	HPS3D
PACS Spectral Cube - Red Spectrometer	HPS3D

4.1.6. PACS spectroscopy level-2 products

Product description	Product type
PACS Spectral Cube - level-2 Context	HPS3DR
Rebinned 3d Cube - Blue Spectrometer	HPS3DR
Rebinned 3d Cube - Red Spectrometer	HPS3DR

4.2. PACS calibration products

4.2.1. PACS Common Calibration Products

Product type	Description
<i>PacsCalCommon</i>	<i>PACS Common Calibration Context</i>
ChopperAngle	Relation between the digital field plate readout and physical angle of the chopper mirror with respect to the PACS focal plane unit.
ChopperAngleRedundant	Relation between the digital field plate readout and physical angle of the redundant chopper mirror with respect to the PACS focal plane unit.
ChopperSkyAngle	Conversion factor for chopper physical deflection angle with respect to the FPU to angle on the sky.
ChopperJitterThreshold	Thresholds in arcmins for the required position accuracy of the final chopper positions for the science and calibration window. This product is used to determine if detector signals are on a stable chopper plateau.
FilterWheel2Band	Conversion of filter wheel position to photometer or spectrometer band seen by the detectors.
ObcpDescription	Contains human-readable descriptions of the on-board control procedure on-board numbering scheme.
Siam	Spacecraft-instrument alignment matrices for the different PACS virtual apertures.
TimeDependency	Defines time dependency for calibration products.

4.2.2. PACS Photometer Calibration products

Product type	Description
<i>PacsCalPhot</i>	<i>PACS Photometer Calibration Context</i>
Absorption	Transmission as a function of wavelength for the entire photometer chain system.
ArrayInstrument	Photometer detector array to Instrument alignment.
BadPixelMask	Bad pixels mask for the photometer.
CalSources	Flux per pixel from the (CSs) in the blue and red channel.

Product type	Description
CorrZeroLevel	Zero-level of the bolometer arrays.
CrosstalkMatrix	Crosstalk matrices for the red and blue photometer.
DetectorSortMatrix	Mapping PACS SPU-internal detector number to pixel coordinate in the PACS focal-plane.
DiffCS	CS1-CS2 used as reference
FilterTransmission	Measured filter transmission profiles for the different bandpass and order selection filters in the PACS spectrometer and photometer chain.
FlatField	Pixel-to-pixel response variation for the PACS bolometer arrays.
Gain	Digits to Volts conversion of the bolometer signals.
Invntt	Inverse noise to noise correlation for MadMap
InvnttBL	BL band inverse noise to noise correlation for MadMap
InvnttBS	BS band inverse noise to noise correlation for MadMap
InvnttRED	RED band inverse noise to noise correlation for MadMap
Masks	PACS blue and red channel bad pixel map.
PhotometricStabilityThreshold	Thresholds used to raised an alert on bad photometric stability
Responsivity	Responsivity for bolometer
SatLimits	Saturation limits for the bolometer arrays.
SubArrayArray	Alignment of the different photometer sub-matrices with respect to the entire detector array.
TimeDependency	Defines time dependency for calibration products.

4.2.3. PACS Spectrometer Calibration Products

Product type	Description
<i>PacsCalSpec</i>	<i>PACS Spectrometer Calibration Context</i>
ArrayInstrument	Array to Instrument coordinate conversion
BadPixelMask	Bad pixels mask for PACS spectrometer.
CapacitanceRatios	Contains the capacitance ratios for the red and the blue array
ChopperThrowDescription	Defines the chopper position readout versus a verbal description.
CrosstalkMatrix	Crosstalk matrices for the red and blue spectrometer arrays
DetectorSortMatrix	Mapping PACS SPU-internal detector number to pixel coordinate in the PACS focal-plane.
DiscardRampHooks	Specifies the number of readouts to discard at the start of each photoconductor integration ramp.
EffectiveCapacitance	The effective capacitance of the 4 possible commandable capacitances of the spectrometer detector integrating readout circuits.
GprHall	Grating position versus Hall sensors readback. This conversion is used in the degraded operating mode of the grating, in case of contingent functioning of the inductosyn position readout.
GprHallRedundant	Defines the redundant grating position versus Hall sensors readback.
GratingJitterThreshold	Thresholds in position readouts for the required accuracy of a stable grating position. These are used to determine the start and end of long grating slews.
FilterBandConversion	Defines the wheel position readout to band conversion

Product type	Description
KeyWavelength (TBC)	Lists the key wavelength intervals - these are wavelength ranges at which the internal calibration sources are visited inside the AOT, as well as sky calibration sources during dedicated absolute flux calibration measurements. The absolute flux of every PACS spectrum is tied to external flux calibrators via observations at these wavelengths.
LabelDescription	The status of PACS mechanisms and detector readout timing is sampled at the detector readout frequency and encoded in a label. This calibration table contains the definition of this encoding.
LittrowParameters	Parameters for the littrow equation describing the PACS grating position to wavelength calibration. The present version assumes the same calibration for all spatial pixels; in future versions this calibration will be available for every spatial pixel.
LittrowPolynomes	Grating wavelength calibration: Littrow equation parameters/ polynome approximation for alpha per pixel
ModuleArray	Module to Array coordinate conversion calibration object
NonLinearity	Contains coefficient of second order polynomial to linearise signals for the red and blue array
Psf	Point spread function of the spectrometer.
RampModel	Fixed parameters of the IMEC analytical model for the spectrometer integrating ramps.
RampSatLimits	Signal saturation limits (voltage/digits) for the red and blue channel.
Readouts2Volts	Digits to Volts conversion for the spectrometer readout values.
Rsrfr	Relative Spectral Response Function - wavelength-dependent response per pixel for each spectral band.
Sensitivity	Contains the line and continuum RMS noise fluctuations for 1 second integration time
SignalSatLimits	Saturation limits of the spectrometer detector arrays
SpecProperties	Spectrometer constants to calculate spectral resolution vs. wavelength
TelescopeBackground	SED of the telescope background
TimeDependency	Defines time dependency for calibration products.

Chapter 5. SPIRE Products Description

5.1. SPIRE observational products

5.1.1. Level-0 products

The generic Herschel definition of Level-0 data products is the following:

- *Raw telemetry data (TMPackets) as measured by the instrument, minimally manipulated and ingested as Data Frames into the mission data base/archive. Typically, readings are in binary units versus detector pixel number*

The SPIRE definition of Level-0 data products differs from the Herschel-wide definition in the format. In fact, SPIRE Level-0 data products are implemented as IA Products (or subclasses) that contain raw telemetry values as extracted from SPIRE Data Frames.

The format of Level-0 data products is defined to be as simple as possible. Each product will contain data coming from only one Building Block of a specified Observation. Moreover, each product will contain data coming from only one TM packet type. All Level-0 products are made from the `BuildingBlockProduct` java class.

Each product will contain only one `TableDataset`, identified with the name of the TM packet type; this table has a number of Columns, one for each quantity stored in `SpireDataFrames` of the specified TM packet, i.e. a column for each TM parameter contained in the specified TM packet. However, some TM parameters that are not useful for data processing (e.g. `FrameIDs`) are not stored in `SpireDataFrames` and will be not present in Level-0 data products. The "`sdfTime`", "`packetTime`" and "`seqCount`" are defined as the the `SpireDataFrame` time, the TM packet time and the TM packet Sequence Count; these quantities are used to compute the sample time, to check its validity and to check the correct time ordering of the telemetry.

The last column in the following table defines which in pipeline each product is used. The pipelines for different observing modes are defined as follows:

- POF2: Photometer 7-point jiggle
- POF3: Photometer 64-point jiggle
- POF5: Photometer Scan Map
- POF9: SPIRE/PACS Parallel Mode
- SOF1: Spectrometer sparse map, single pointing/raster
- SOF2: Spectrometer jiggle map, single pointing/raster

Product description	Product type	TM Packets	POF2	POF3	POF5	POF9	SOF1	SOF2
Raw Photometer Detector Timeline	RPDT	PHOTF, PHOTSW, PHOTMW, PHOTLW	y	y	y	y		
Raw Photometer Offset Timeline	RPOT	PHOTOFF	y	y	y	y		

Product description	Product type	TM Packets	POF2	POF3	POF5	POF9	SOF1	SOF2
Raw Spectrometer Detector Timeline	RSDT	SPECF, SPECSW, SPECLW					y	y
Raw Spectrometer Offset Timeline	RSOT	SPECOFF					y	y
Raw Nominal Housekeeping Timeline	RNHKT	NHK	y	y	y	y	y	y
Raw Critical Housekeeping Timeline	RCHKT	CHK	y	y	y	y	y	y
Raw Beam Steering Mirror Timeline	RBSMT	BSMNOMINAL		y				
Raw Spectrometer Mechanism Timeline	RSMECT	SMECSELECT, SMECSCAN					y	y
Raw Subsystem Control Unit Timeline	RSCUT	SCUNOMINAL		y	y	y	y	y

The SPIRE level-0 context is defined as follows:

Product description	Product type
SPIRE Level-0 Context	Level0Context
Level-0 Building Block context (each block is generated per Level0BlockContext observation building block)	
Level-0 products (as given in the table above)	

5.1.2. Level-0.5 products

Product description	Product Type	POF2	POF3	POF5	POF9	SOF1	SOF2
Photometer Detector Timeline	PDT	y	y	y	y		
Photometer Offset Timeline	POT	y	y	y	y		
Spectrometer Detector Timeline	SDT					y	y
Spectrometer Offset Timeline	SOT					y	y
Nominal Housekeeping Timeline	NHKT	y	y	y	y	y	y
Critical Housekeeping Timeline	CHKT	y	y	y	y	y	y
Beam Steering Mirror Timeline	BSMT	y	y				
Spectrometer Mechanism Timeline	SMECT					y	y
Subsystem Control Unit Timeline	SCUT	y	y	y	y	y	y

The SPIRE level-0.5 Engineering Data Processing (EDP) context is defined as follows:

Product description	Product type
SPIRE Level-0.5 EDP Block context	
Level-0.5 Building Block context (each block is generated per observation building block)	
Level-0.5 product (as given in the table above)	

5.1.3. Level-1 products

Product description	Product type	POF2	POF3	POF5	POF9	SOF1	SOF2
Pointed Photometer Product	PPP	y	y				
Photometer Scan Product	PSP			y	y		
Spectrometer Detector Interferogram Product	SDI					y	y
Spectrometer Detector Spectrum Product	SDS					y	y

5.1.4. Level-2 products

Product description	Product type	POF2	POF3	POF5	POF9	SOF1	SOF2
Jiggled Photometer Product	JPP	y					
Photometer Map Product	PMP		y	y	y		
Spectrometer Cube Product							y

5.2. SPIRE calibration products

A separate set of calibration products is defined for each of the two sub-instrument on SPIRE, the Photometer and the Spectrometer. These are indicated by `Spec` or `Phot` in the type name after `SCal`.

The following tables summarise the calibration products required. The next section then gives details of the format and origin of the data to be stored in each one.

5.2.1. Calibration History Products

These products are not strictly calibration products as they contain the history information for certain parameters. However, they are used by the pipeline in the same way as normal calibration products. They are filled using either dedicated pre-processing pipelines during Operational Day Processing, or filled by information generated by the pipeline.

Product type	Product Description
SCalResetHist	DPU Counter Reset History
SCalPhotOffsetHist	Photometer Signal Offset History
SCalSpecOffsetHist	Spectrometer Signal Offset History
	PCAL History

Product type	Product Description
SCalPhotPcal	Photometer PCAL Output Table
SCalSpecPcal	Spectrometer PCAL Output Table

5.2.2. Photometer Calibration Products

Product type	Product Description
SCalPhotChanNum	Channel Number Mapping Table
SCalPhotChanMask	Channel Mask Table
SCalPhotInstModeMask	Instrument Mode Mask Table
SCalPhotChanTimeOff	Channel Time Offset Table
SCalPhotChanGain	Channel Gain Table
SCalPhotBolPar	Bolometer Parameter Table
SCalPhotChanNomRes	Blank Sky Measurement (Rd-nom)
SCalPhotBsmPos	BSM Position Table
SCalPhotBsmOps	BSM Operations Table
SCalPhotDetAngOff	Detector Angular Offset Table
SCalPhotElecCross	Electrical Crosstalk Matrix
SCalPhotLpfPar	Low Pass Filter Parameter Table
SCalPhotFluxConv	Flux Conversion and Non-linearity Correction Coefficients
SCalPhotTempDriftCorr	Temperature Drift Correction Coefficients
SCalPhotChanTimeConst	Detector Time Constant Correction Function
SCalPhotOptCross	Optical Crosstalk Matrix
SCalPhotChanNoise	Detector Noise Spectrum
SCalPhotBeamProf	Photometer Beam Profiles
SCalPhotSpecIndex	Spectral Index Conversion
SCalPhotRsrF	Photometer RSRF
SCalPhotPcalPar	PCAL Input Parameters

5.2.3. Spectrometer Calibration Products

Product type	Product Description
SCalSpecChanNum	Channel Number Mapping Table
SCalSpecChanMask	Channel Mask Table
SCalSpecChanTimeOff	Channel Time Offset Table
SCalSpecChanGain	Channel Gain Table
SCalSpecBolPar	Bolometer Parameter Table
SCalSpecBolParSky	Blank Sky Measurement (Rd-nom)
SCalSpecBsmPos	BSM Position Table
SCalSpecBsmOps	BSM Operations Table
SCalSpecDetAngOff	Detector Angular Offset Table
SCalSpecElecCross	Electrical Crosstalk Matrix
SCalSpecFluxConv	Spectrometer Flux Conversion Table

Product type	Product Description
SCalSpecLpfPar	Low Pass Filter Parameter Table
SCalSpecOptCross	Optical Crosstalk Matrix
SCalSpecDefTimeConst	Detector Time Constants Table
SCalSpecNonLinCorr	Non-linearity Correction Coefficients
SCalSpecTempDriftCorr	Temperature Drift Correction Coefficients
SCalSpecSmecZpd	Optical Encoder and LVDT DC at ZPD
SCalSpecSmecStepFactor	SMEC Step Factor to convert from MPD to OPD
SCalSpecModEff	Modulation Efficiency as function of OPD
SCalSpecInterRef	Reference Interferogram
SCalSpecBandEdge	Spectral Band Edges
SCalSpecNlp	Non-linear (Optical) Phase
SCalSpecRsrF	Spectrometer RSRF
SCalSpecSmecStepFactor	Spectrometer Step Factor Table
SCalSpecSmecZpd	Spectrometer Optical encoder at ZPD Table
SCalSpecIls	Instrument Line Shape
SCalSpecBeamProf	Spectrometer Beam Profiles
SCalSpecPcalPar	PCAL Input Parameters

Chapter 6. Auxiliary, Catalogue and Quality Products Description

6.1. Auxiliary products

Name	Product type	Description
<i>Auxiliary Context</i>		
Herschel Pointing product	HPP	The pointing product contains time-dependent spacecraft attitude information and will be built using information provided in the Attitude History File (AHF) furnished by the Flight Dynamics System (FDS). This product is defined in [RD-7]. It is generated per Operational Day (OD).
Orbit Product	auxOrbitp auxOrbitr	The predicted and reconstructed products have identical format and contain time-dependent S/C state vector information as provided by FDS as Orbit Ephemeris Message (OEM) data. Defined in [RD-8]. Generated per OD.
SIAM Product	auxSiam	This product contains the Spacecraft/Instrument Alignment Matrices transforming vectors in the Herschel spacecraft reference frame to/from vectors in the different instruments' frames. Defined in [RD-9]. The SIAM product is valid for a given period of time in the mission until a new measurement is done and the product is updated.
Time Correlation Product	auxTimec	The Time Correlator component within the HPMCS maintains the correlation between the spacecraft on-board time and ground time, providing interfaces to correlate OBT to UTC and vice-versa. The Time Correlation product should contain all the relevant information produced by the Time Correlator component and stored in the SCOS-2000 Time Correlator Coefficient packets. Defined in [RD-10]. It is generated per OD.
Out of Limits Product	auxOol	The HPMCS SCOS-2000 BEHV performs behaviour checking for all parameters specified in the MIB OCF table. This information furnished to the HSC by means of DDS auxiliary TM data products. The Out-of-limits product shall pack all the information provided therein. Defined in [RD-10]. It is generated per OD.
Missing Telemetry Product	auxMissTM	This product contains information of missing TM packets after ingestion in the HSC. It has been designed to contain the minimum information required to unambiguously identify the missing TM packets. Defined in [RD-10]. It is generated per OD.
Mission Timeline Summary Product	auxMtls	This product packs the information provided within the EPOS summary file: pointing requests

Name	Product type	Description
		data, reaction wheel profile data, ground station coverage and DTCP data and delta-V manoeuvre data. Defined in [RD-10]. It is generated per OD
Events Log Product	auxEvLog	The events log product is intended to provide with a uniform product containing event reports from either the instruments or the spacecraft. Defined in [RD-10]. It is generated per OD.
Telecommands History Product	auxTch	This product contains information of telecommand history as furnished by the Herschel MCS by means of DDS service. Defined in [RD-10]. It is generated per OD.
Calibrated SREM Data Product	auxCalSREM	The Standard Radiation Environment Monitor (SREM) detects and counts electrons, protons and cosmic rays with a coarse spectral resolution and some 20 degrees angular resolution. This product contains the calibrated accumulation and acquisition data, including the proton/electron count rates in the three detectors, fitted particle spectra and total dose in the internal RadFET. It is generated per OD. Defined in [RD-12].
Raw SREM Data Product	auxRawSREM	Contains raw SREM accumulation and acquisition data, including readings from the different channels of detectors and internal RadFET, temperature and voltage data, etc. It is generated per OD. Defined in [RD-12].
Orbit Events Products	auxOrbEvp/r	These products have identical format and contain the predicted/reconstructed orbit events data furnished by Flight Dynamics (FDS) in the (short term) orbit events file. Events include Acquisition/loss of TM/TC signal at the ground station and eclipse events information. It is generated per OD. Defined in [RD-10].
Uplink Data Product	auxUpl	This product contains uplink information, including: proposal data, observation request data and observation block execution data. It is generated per observation. Defined in [RD-10].
Satellite Housekeeping data Product	auxSatHK	This product is intended to pack housekeeping telemetry information from the S/C. Currently comprises monitoring data from the Cryostat Control Units A/B (CCUA/B). It is generated per OD. Defined in [RD-10].

6.2. Quality control

The Quality Control Report is a product to gather, combine and distribute information on the quality of the observation science data. Quality Control will include, per observation, the assessment of the execution of the observation by the spacecraft and the instruments, the evaluation of the success of the data processing, the outcome of the systematic inspection of the Quick Look product and, if required, the instrument specialist and community support astronomer analysis. The quality control product distributed to the astronomer, the so-called Quality Control Report Summary, will be an extract of the Quality Control Report.

The Quality Control Report is implemented in the HCSS system as a single class named *QualityContext*. An instance of the *QualityContext* class will be automatically created during the Standard Product Generation process for each observation. This instance will be accessible through the "quality" field of the *QualityContext* representing the processed observation. The Quality Control Report Summary will be generated at the end of the quality control analysis as a result of this process. It will be implemented in the HCSS as a new instance of a *QualityContext* and it will be accessible through the "quality summary" field of the same *QualityContext* containing the original Quality Control Report.

The Quality Control Report contains the data automatically generated in the Standard Product Generation process and the inputs resulting from the Quality Control analysis. Besides the "attributes" listed in Section 2.4.3, the Quality Control report will also contain the following fields:

- **Observation Id:** Reference to the observation this instance belongs to
- **Software version:** HCSS version, pipeline version...
- **State:** Define the state of the observation from the point of view of quality. Possible states are:
 - Pending
 - Passed
 - Failed

- **Action:** Legal actions depend on the value of the "State" field:

When State=Passed the only possible action is NONE

When State=Failed possible actions are:

- Delivered for Rescheduling
- Delivered for Reprocessing
- Discarded

When State=Pending possible actions are:

- Delivered for Quality Control Analysis at level 1
- Delivered for Quality Control Analysis at level 2
- Delivered for Quality Control Analysis at level 3

- **SPRs:** If applicable, reference to the SxR (number and title) reporting system.
- **Quality Flags:** Quality flags are pre-defined list of fields of simple data types (strings, numbers and booleans) defined per instrument. These fields will be stored as metadata into the Quality Report. Some of their characteristics are:
 - Quality flags can be declared of any of the legal metadata types
 - The metadata tag is just a flag identifier which follows the Product Definition Group conventions
 - Quality information is included as a string, number or boolean into the metadata value

Quality flags can be tagged as public or private.

- **Pipeline logs:** A table containing all the logs produced during pipeline's execution, including those in the pre- and post-processing SPG phases
- **Preview:** Quick look (browse) products associated to the observation

- **User's comments:** Comments on the quality data written by the different actors involved in the Quality Control of the observation. The fields stored for every comment are:
 - Time stamp: When the comment was created
 - User: Identifier of the person writing the comment
 - Text: the comment itself as a string

Every comment can be tagged as public or private.

The Quality Control Report Summary is a copy of the Quality Control Report which contains only the fields declared as public.

6.2.1. Quality Flags

The first set of Quality flags populating the Quality Control Report are derived from the auxiliary products which contain the Spacecraft and Instruments information reported by the MOC. The current defined flags (the FITS equivalents are shown in parentheses) are listed below. They are all of string type.

- **Missing Telemetry (TMLOSSES)**

The following columns of the Missing TM product are checked and the values written in the Quality Report logs field:

- Missing Packets
- Last valid packet time
- Next valid packet time

- **Out of Limits (OOL)**

The following columns of the Out of Limits product are checked and the values written in the Quality Report logs field:

- OOL Time
- Parameter name
- Parameter state

- **Event (EVENT)**

The following columns of the Events log product are checked and the values written in the Quality Report logs field:

- Event Id
- Report Subtype
- Event description

- **Telecommand Errors (TCERRORS)**

The following columns of the Telecommand History product are checked and the values written in the Quality Report logs field:

- TC name
- TC short description

- Verification status

- **High glitch rate (GLITCHES)**

The following columns of the SREM product are checked and the values written in the Quality Report logs field:

- Proton alarm
- Electron alarm
- Heavy ions

- **Pointing Problem / Suspicious Pointing (POINTING)**

The following columns of the Pointing product are checked and the values written in the Quality Report logs field:

- On-target flag
- Off-position flag
- Out of field flag
- Quality flag

The second set of flags are generated by the instrument specific pipelines (TBD)

6.3. Catalogue products

Catalogue products are common to the three Herschel instruments. The following catalogue products have been defined:

- Spectral Line List product. See [RD-5].
- Source List product

6.3.1. Spectral Line List product

The Herschel Spectral Line List Product is aimed at holding relevant information on the properties of spectral lines extracted from Herschel spectra. This product will be the output of automatic extraction tools, and interactive tools (TBD). It is expected that only information directly derived from Herschel data are stored within this Spectral Line List Product. For external information no standard provisions are supplied. However as TableDatasets are expandable products new Columns always can be added without crippling the existing possibilities. It is likely that additional columns are defined in the course of the development of the Herschel DP spectral line extraction package(s). Columns that contain parameters that can be derived from other columns are not included in the product.

It is assumed that spectral lines in this product can be extracted from different spectra (with different frequency scales and distortions). It is also assumed that all spectra are reduced to the same standard of rest. This information is included in the header. It is also assumed that the positional parameter determination is done using the same method for all lines. This is also documented in the metadata.

The flux extraction is also expected to be done using the same method, therefore this information is not repeated per source, but rather documented in the metadata. Here it is assumed that the lines are defined (were derived) using a 3 parameter model (e.g. Gaussian) with a position, a width and an amplitude. This model sits on top of an unspecified background model. If a model with more parameters is needed to specify lines in a Herschel spectrum, then of course all these parameters need to be present in this Product and more (or other) Columns will ensue.

Metadata

Keyword	Type	Description
id	string	Product identifier
author	string	Author of the product
type	string	Herschel product type (set to "HSSL")
description	string	Product description (set to "Herschel Spectral Line List Product")
creator	string	Name of the S/W that produced the product
creationDate	date	Date of the creation of the product
positionalType	string	Type of positional derivation (e.g. isophotal or windowed)
sourceId	string	Name of the source
longitude	double	Longitude of the source in degrees
latitude	double	Latitude of the source in degrees
coordinateSystem	string	Name of the coordinate system
localStandardRest	string	Local standard of rest
ctype1	string	Wavelength type, default = "frequency"
cunit1	string	Unit axis 1, default = "GHz"
profile	string	Line extraction method (e.g. Gaussian, Voigt, etc.)
fluxUnit	string	Unit of the fluxes (default = W/m ² , K)
backgroundType	string	Type of background determination (global/local/polynomial)
references	string	References, e.g. Herschel observations/products
explanatoryTest	string	Additional comments

Spectral Line List: TableDataset

Keyword	Type	Description
name	double	Identifier / source name
position	double	Barycentric world position (WCS units - GHz)
peakpos	double	World coordinate of pixel with highest intensity
stdpos	double	Uncertainty in position in WCS units
width	double	Width of the line in WCS units
stdwidth	double	Uncertainty on width in WCS units
flux	double	Integrated line flux
stdflux	double	Uncertainty of the flux
saturation	double	Saturation level
stdsaturation	double	Uncertainty in saturation level
background	double	Background flux (at the position of the line)
stdbackground	double	Uncertainty of the background estimation
noisescale	double	Local noise scale

Keyword	Type	Description
evidence	double	Probability of a source present divided by not present

Double side band spectra (HIFI) extra columns

Keyword	Type	Description
position_image	double	Barycentric pixel position in the image sideband
peakpos_image	double	Peak position in the image sideband
flux_image	double	Integrated line flux (if in image sideband)
probability_image	double	Probability of the line being in the image sideband
probability_signal	double	Probability of the line being in the signal sideband

Other possible additional columns

Keyword	Type	Description
Transition	string	Spectral transition
Species	string	(Molecular) species
position_pixel	double	Barycentric pixel position (pixel units)
peakpos_pixel	double	Pixel coordinates with highest intensity
stdpos_pixel	double	Uncertainty in position in pixel units
width_pixel	double	Width of the line in pixel units
stdwidth_pixel	double	Uncertainty on width in pixel units

6.3.2. Source List product

The Herschel SourceList Product is aimed at holding relevant information on the properties of sources extracted from Herschel images. This product will be the output of automatic extraction tools, and interactive tools (e.g. aperture photometry / psf fitting GUI).

Metadata

Keyword	Type	Description
id	string	Product identifier
author	string	Author of the product
type	string	Herschel product type (set to "HSLP")
description	string	Product description (set to "Herschel Source List Product")
creator	string	Name of the S/W that produced the product
creationDate	date	Date of the creation of the product
author	string	Author of the product
detThreshold	double	Detector threshold
fwhm	double	Width of the default gaussian beam profile
pixelRegion	double	Pixel region considered for processing

Keyword	Type	Description
cornerMinRa	double	Minimum RA of corner enclosing rectangle
cornerMinDec	double	Minimum Dec of corner enclosing rectangle
cornerMaxRa	double	Maximum RA of corner enclosing rectangle
cornerMaxDec	double	Maximum Dec of corner enclosing rectangle
algorithm	string	Extraction algorithm used
references	string	References, e.g. Herschel observations/products
explanatoryText	string	Additional comments

Source List: TableDataset

Keyword	Type	Description
ra	double	Right Ascension
dec	double	Declination
raPlusErr	double	RA plus error
decPlusErr	double	Dec plus error
raMinusErr	double	RA minus error
decMinusErr	double	Dec minus error
flux	double	Source flux
fluxPlusErr	double	Source flux plus error
fluxMinusErr	double	Source flux minus error
size	double	Source size
sizePlusErr	double	Source size plus error
sizeMinusErr	double	Source size minus error
sharpness	double	Source sharpness
roundness	double	Source roundness
background	double	Background
bgPlusErr	double	Background plus error
bgMinusErr	double	Background minus error
quality	double	Quality

Part II. Herschel Products Definitions Tables

Tables with the description of the products that are currently implemented and generated by the Herschel Data Processing pipelines are provided in the following chapters.

Chapter 7. HIFI Level-0, 0.5 and 1 Products

7.1. HifiTimelineProduct

<i>product (type="herschel.hifi.pipeline.product.HifiTimelineProduct", description="Hifi Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	count_ds (description="null")
LongParameter	last_ds (description="last dataset in this product")
LongParameter	obsid (description="Observation id")
LongParameter	apid (description="Apid")
StringParameter	fileName (description="filename for exporting purposes")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	obsMode (description="Observing mode")
LongParameter	proposal (description="Proposal identifier")
StringParameter	observer (description="proposer of the observation")
StringParameter	object (description="Target of Observation")
StringParameter	naifId (description="Solar system object NAIF identifier")
DoubleParameter	ra (description="actual RA of pointing")
DoubleParameter	dec (description="actual DEC of pointing")
DoubleParameter	raNominal (description="requested RA of pointing")
DoubleParameter	decNominal (description="requested DEC of pointing")
StringParameter	raDeSys (description="coordinate reference frame for RA and DEC")
DoubleParameter	posAngle (description="position angle from North in sky")
DoubleParameter	equinox (description="Equinox of the celestial coordinate system")
StringParameter	version (description="Version of the product")
StringParameter	formatVersion (description="Version of the product format")
LongParameter	pixelSaturated (description="Maximum number of saturated pixel detected in a single spectrum")

LongParameter	badPixels (description="Number of channels marked as BAD")
BooleanParameter	checkZero (description="Flag for all Zero of the observation")
BooleanParameter	checkComb (description="Flag for all COMB of the observation")
BooleanParameter	spikeNumberFlag (description="Flag for the spikes all COMB of the observation")
LongParameter	spikeNumber (description="Maximum number of spikes detected in a Comb")
<i>table dataset</i>	(description="null")
<i>Metadata</i>	
<i>IntId</i>	Dataset (description="Dataset key", quantity="none")
<i>StringId</i>	type (description="List of types for each block", quantity="none")
<i>IntId</i>	start (description="Start index for each block", quantity="none")
<i>IntId</i>	length (description="Length of each block", quantity="none")
<i>IntId</i>	bbid (description="Unique bctype of each block", quantity="none")
<i>BoolId</i>	isLine (description="ON/OFF", quantity="none")
<i>DoubleId</i>	LoFrequency (description="null", quantity="GHz [1.0E9 Hz]")
<i>DoubleId</i>	LO-Throw (description="null", quantity="GHz [1.0E9 Hz]")
<i>composite</i>	(description="History of product")
<i>Metadata</i>	
LongParameter	id (description="Unique ID")
<i>table dataset</i>	(description="History as Jython script")
<i>Metadata</i>	
StringParameter	outvar (description="last output variable")
<i>StringId</i>	Lines (description="script lines", quantity="none")
<i>table dataset</i>	(description="History of tasks")
<i>Metadata</i>	
<i>LongId</i>	ID (description="Links the parameter and task table", quantity="none")
<i>StringId</i>	Name (description="The name of the task", quantity="none")
<i>LongId</i>	ExecDate (description="Time of execution (FINETIME)", quantity="none")
<i>BoolId</i>	Succeeded (description="Flag for success/failed", quantity="none")
<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
<i>table dataset</i>	(description="The parameters belonging to the task history")
<i>Metadata</i>	
<i>LongId</i>	TaskID (description="Links the parameter and task table", quantity="none")
<i>StringId</i>	Name (description="The name of the parameter", quantity="none")
<i>StringId</i>	Type (description="Type of parameter", quantity="none")
<i>StringId</i>	Value (description="String representation of the parameter value", quantity="none")
<i>BoolId</i>	IsDefault (description="True if the default value has been used", quantity="none")
<i>LongId</i>	IncHistoryId (description="ID of the history of an included product", quantity="none")

<i>IntId</i>	IncNumTask (description="Number of tasks to include from history", quantity="none")
<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
<i>BoolId</i>	UserInput (description="Needs user input", quantity="none")

<i>product</i>	(type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="WBS Spectrum Dataset")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
DateParameter	DATE_OBS (description="Start date of this product")
LongParameter	apid (description="Apid")
LongParameter	obsid (description="Observation id")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
DoubleParameter	parameter_1 (description="Parameter 1 of the wave model")
DoubleParameter	parameter_2 (description="Parameter 2 of the wave model")
DoubleParameter	parameter_3 (description="Parameter 3 of the wave model")
DoubleParameter	parameter_4 (description="Parameter 4 of the wave model")
DoubleParameter	parameter_5 (description="Parameter 5 of the wave model")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames. value")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	sds_type (description="Generalized Building Block type")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	obsMode (description="Observing mode")

LongParameter	proposal (description="Proposal identifier")
StringParameter	observer (description="proposer of the observation")
StringParameter	object (description="Target of Observation")
StringParameter	naifId (description="Solar system object NAIF identifier")
DoubleParameter	ra (description="actual RA of pointing")
DoubleParameter	dec (description="actual DEC of pointing")
DoubleParameter	raNominal (description="requested RA of pointing")
DoubleParameter	decNominal (description="requested DEC of pointing")
StringParameter	raDeSys (description="coordinate reference frame for RA and DEC")
DoubleParameter	posAngle (description="position angle from North in sky")
DoubleParameter	equinox (description="Equinox of the celestial coordinate system")
StringParameter	version (description="Version of the product")
StringParameter	formatVersion (description="Version of the product format")
StringParameter	fileName (description="filename for exporting purposes")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data. bit 0 = not used bit 1 = Scan count correction bit 3 = Dark correction bit 4 = Non Linearity correction bit 5 = Zero correction bit 6 = Frequency calibration applied")
BooleanParameter	isMasked (description="null")
BooleanParameter	hassubbands (description="Whether it has subbands")
LongParameter	subbandstart_1 (description="Starting channel for subband 1")
LongParameter	subbandstart_2 (description="Starting channel for subband 2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3")
LongParameter	subbandstart_4 (description="Starting channel for subband 4")
LongParameter	subbandlength_1 (description="Length of subband 1")
LongParameter	subbandlength_2 (description="Length of subband 2")
LongParameter	subbandlength_3 (description="Length of subband 3")
LongParameter	subbandlength_4 (description="Length of subband 4")
StringParameter	frequencyGroup (description="null")
DoubleParameter	loFrequency (description="null")
DoubleParameter	loThrow (description="null")
<i>table dataset</i> (description="WBS Spectrum Dataset")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	DATE_OBS (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	apid (description="Apid")

LongParameter	obsid (description="Observation id")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
DoubleParameter	parameter_1 (description="Parameter 1 of the wave model")
DoubleParameter	parameter_2 (description="Parameter 2 of the wave model")
DoubleParameter	parameter_3 (description="Parameter 3 of the wave model")
DoubleParameter	parameter_4 (description="Parameter 4 of the wave model")
DoubleParameter	parameter_5 (description="Parameter 5 of the wave model")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames. value")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	sds_type (description="Generalized Building Block type")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	obsMode (description="Observing mode")
LongParameter	proposal (description="Proposal identifier")
StringParameter	observer (description="proposer of the observation")
StringParameter	object (description="Target of Observation")
StringParameter	naifId (description="Solar system object NAIF identifier")
DoubleParameter	ra (description="actual RA of pointing")
DoubleParameter	dec (description="actual DEC of pointing")
DoubleParameter	raNominal (description="requested RA of pointing")
DoubleParameter	decNominal (description="requested DEC of pointing")
StringParameter	raDeSys (description="coordinate reference frame for RA and DEC")
DoubleParameter	posAngle (description="position angle from North in sky")
DoubleParameter	equinox (description="Equinox of the celestial coordinate system")
StringParameter	version (description="Version of the product")
StringParameter	formatVersion (description="Version of the product format")
StringParameter	fileName (description="filename for exporting purposes")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data. bit 0 = not used bit 1 = Scan count correction bit 3 = Dark correction bit 4 = Non Linearity correction bit 5 = Zero correction bit 6 = Frequency calibration applied")

BooleanParameter	isMasked (description="null")
BooleanParameter	hassubbands (description="Whether it has subbands")
LongParameter	subbandstart_1 (description="Starting channel for subband 1")
LongParameter	subbandstart_2 (description="Starting channel for subband 2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3")
LongParameter	subbandstart_4 (description="Starting channel for subband 4")
LongParameter	subbandlength_1 (description="Length of subband 1")
LongParameter	subbandlength_2 (description="Length of subband 2")
LongParameter	subbandlength_3 (description="Length of subband 3")
LongParameter	subbandlength_4 (description="Length of subband 4")
StringParameter	frequencyGroup (description="null")
DoubleParameter	loFrequency (description="null")
DoubleParameter	loThrow (description="null")
Double2d	flux_1 (description="flux", quantity="none")
Double2d	weight_1 (description="null", quantity="none")
Int2d	flag_1 (description="null", quantity="none")
Double2d	frequency_1 (description="frequency", quantity="MHz [1000000.0 Hz]")
Double2d	flux_2 (description="flux", quantity="none")
Double2d	weight_2 (description="null", quantity="none")
Int2d	flag_2 (description="null", quantity="none")
Double2d	frequency_2 (description="frequency", quantity="MHz [1000000.0 Hz]")
Double2d	flux_3 (description="flux", quantity="none")
Double2d	weight_3 (description="null", quantity="none")
Int2d	flag_3 (description="null", quantity="none")
Double2d	frequency_3 (description="frequency", quantity="MHz [1000000.0 Hz]")
Double2d	flux_4 (description="flux", quantity="none")
Double2d	weight_4 (description="null", quantity="none")
Int2d	flag_4 (description="null", quantity="none")
Double2d	frequency_4 (description="frequency", quantity="MHz [1000000.0 Hz]")
Bool1d	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
Int1d	rowflag (description="Dataframe Flag", quantity="none")
Int1d	bbtype (description="Building Block Type", quantity="none")
Double1d	Chopper (description="Actual chopper positions", quantity="none")
Double1d	cmd_chopper (description="Commanded chopper positions", quantity="none")
Double2d	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator (prime)", quantity="K")
Double1d	LoFrequency (description="Local Oscillator Frequency", quantity="GHz [1.0E9 Hz]")

<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Long1d</i>	packet time (description="Packetization Time", quantity="none")
<i>Int1d</i>	scancount (description="Integrated Scan Count", quantity="none")
<i>Double1d</i>	integration time (description="null", quantity="s")
<i>Long1d</i>	obs time (description="Observation Time", quantity="none")
<i>Int1d</i>	IN_ATT (description="null", quantity="none")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical ban", quantity="A")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal b", quantity="A")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Int2d</i>	Band_ATT (description="null", quantity="none")
<i>Int1d</i>	hk_transfer (description="hk_transfer", quantity="none")

Chapter 8. HIFI Calibration Products

8.1. HIFI Predefined Calibration Products

8.1.1. CalHrsPowCorr

<i>product</i> (<i>type="CalHrsPowCorr", description="Values for Power gain non-linearity correction"</i>)	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
StringParameter	filename (description="Disk filename used to create this product")
<i>table dataset</i>	(<i>description="vSigma Vector of the CalHrsPowCorr Product"</i>)
<i>Metadata</i>	
<i>DoubleId</i>	vSigma (description="vSigma Vector", quantity="none")
<i>table dataset</i>	(<i>description="gain Vector of the CalHrsPowCorr Product"</i>)
<i>Metadata</i>	
<i>DoubleId</i>	gain (description="gain Vector", quantity="none")

8.1.2. CalHrsQDCFast

<i>product</i> (<i>type="CalHrsQDCFast", description="Value for Fast Quantization Distortion Correction"</i>)	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
LongParameter	version (description="Version of this product")

StringParameter	name (description="Name of this product")
DoubleParameter	QDCFastFactor (description="QDC fast factor of this product")

8.1.3. CalHrsQDCFull

<i>product (type="CalHrsQDCFull", description="Values for Full Quantization Distortion Correction")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
StringParameter	filename (description="Disk filename used to create this product")
table dataset	(description="mSigma Vector of the CalHrsQDCFull Product")
Metadata	
DoubleId	mSigma (description="mSigma Vector", quantity="none")
table dataset	(description="ro Vector of the CalHrsQDCFull Product")
Metadata	
DoubleId	ro (description="ro Vector", quantity="none")
table dataset	(description="vSigma Vector of the CalHrsQDCFull Product")
Metadata	
DoubleId	vSigma (description="vSigma Vector", quantity="none")
table dataset	(description="Grid dimensions of the CalHrsQDCFull Product")
Metadata	
DoubleId	gridDim (description="grid Dimensions", quantity="none")
table dataset	(description="Grid or 3D table of the CalHrsQDCFull Product")
Metadata	
DoubleId	grid (description="grid", quantity="none")

8.1.4. CalWbsBadPixel

<i>product (type="Calibration", description="The Bad pixel mask")</i>
--

<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
DoubleParameter	saturated repetition (description="saturated repetition")
LongParameter	threshold saturation (description="threshold saturation")
DoubleParameter	warning level (description="warning level")
DoubleParameter	flag value (description="flag value")
<i>table dataset</i>	(description="Mask")
<i>Metadata</i>	
<i>IntId</i>	Mask (description="Bad pixels", quantity="none")
<i>composite</i>	(description="History of product")
<i>Metadata</i>	
LongParameter	id (description="Unique ID")
<i>table dataset</i>	(description="History as Jython script")
<i>Metadata</i>	
StringParameter	outvar (description="last output variable")
<i>StringId</i>	Lines (description="script lines", quantity="none")
<i>table dataset</i>	(description="History of tasks")
<i>Metadata</i>	
<i>LongId</i>	ID (description="Links the parameter and task table", quantity="none")
<i>StringId</i>	Name (description="The name of the task", quantity="none")
<i>LongId</i>	ExecDate (description="Time of execution (FINETIME)", quantity="none")
<i>BoolId</i>	Succeeded (description="Flag for success/failed", quantity="none")
<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
<i>table dataset</i>	(description="The parameters belonging to the task history")
<i>Metadata</i>	
<i>LongId</i>	TaskID (description="Links the parameter and task table", quantity="none")
<i>StringId</i>	Name (description="The name of the parameter", quantity="none")
<i>StringId</i>	Type (description="Type of parameter", quantity="none")
<i>StringId</i>	Value (description="String representation of the parameter value", quantity="none")

<i>BoolId</i>	IsDefault (description="True if the default value has been used", quantity="none")
<i>LongId</i>	IncHistoryId (description="ID of the history of an included product", quantity="none")
<i>IntId</i>	IncNumTask (description="Number of tasks to include from history", quantity="none")
<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
<i>BoolId</i>	UserInput (description="Needs user input", quantity="none")

8.1.5. CalWbsFreq

<i>product (type="Calibration", description="The parameter used for the fitting of COMB spectra")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
LongParameter	First line position (description="Position of the first line in pixels")
LongParameter	Line step (description="Starting value for the difference in pixel between two adjacent COMB lines")
LongParameter	Line step tolerance (description="Half range in pixels where is searched a new line. The range (in pixel) is: the previous line + the Parameter Line step +/- this parameter.")
LongParameter	Gaussian range (description="Half range in pixels used to fit each COMB line with a gaussian. The total number of pixels used is 2*(Gaussian range)")
LongParameter	Number of lines (description="Number of lines aspected for each CCD in the COMB spectra")
LongParameter	Minimum number of lines (description="Minimum number of lines detected to set failed the fit of the COMB")
LongParameter	Max number of spikes (description="Max number of spikes allowed, for each CCD, before to return a failure in the initial line search in the COMB spectra")
LongParameter	Polynomial degree (description="Degree of the polynomial used to calculate the frequencies in function of pixels")
LongParameter	Start ccd (description="First pixel used to find a line in the COMB. This value can affect the number of lines found and the corrispondent value in frquency")
LongParameter	End ccd (description="Last pixel used in the Check Comb. This value can affect the number of lines found")
LongParameter	Noise range (description="Half of the range (in pixels) removed around each line of COMB The resulting spectra is used to calculate the noise. It can be related to the Parameter Gaussian range")

DoubleParameter	Dynamic range threshold (description="Minimum value allowed for the Dynamic Range of CCDs")
DoubleParameter	Resolution threshold (description="Maximum value for the Resolution of a CCDs in MHz")
DoubleParameter	Efficiency threshold (description="Minimum value for the efficiency of a CCDs [%]")
DoubleParameter	Ripple threshold (description="Maximum value for the ripple of a CCDs [dB]")
DoubleParameter	Frequency first line (description="Value in MHz of the first COMB line of the first CCD respect to the LO frequency")
DoubleParameter	Line width (description="Starting value for the fitter to found the width of the gaussians in the COMB spectra")
DoubleParameter	Threshold (description="Threshold values used to found the gaussians in the COMB spectra. A small values will cause to found many spikes, an high value will cause to miss some lines.")
DoubleParameter	Line frequency step (description="Difference in MHz between two adjacent COMB lines")
DoubleParameter	Hrs range loop (description="Range in MHz in frequencies around guessed position to found WBS frequencies in function of hrs values")
DoubleParameter	Hrs step loop (description="Step in MHz used in the loop to found WBS frequencies in function of hrs values")
LongParameter	Hrs sigma range fit (description="Number of values below and above the minimum sigma to be used in the fit to find the minimum")
LongParameter	Hrs sigma polynomial degree fit (description="Degree of the polynomial used to fit the minimum sigma")

8.1.6. CalWbsFreqCoeff

<i>product (type="Calibration", description="The frequency calibration for the WBS. This product contains one TableDataset with 5 columns, one for time and for each of the four CCD")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description=" a set of polynome coefficients that define how to con&")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
StringParameter	interpolation type (description="Type of interpolation in time used")
<i>table dataset (description="Coefficients CalWbsFreq Product")</i>	
Metadata	
Double2d	ccd_1 (description="Default ccd_1", quantity="none")

<i>Double2d</i>	ccd_2 (description="Default ccd_2", quantity="none")
<i>Double2d</i>	ccd_3 (description="Default ccd_3", quantity="none")
<i>Double2d</i>	ccd_4 (description="Default ccd_4", quantity="none")
<i>Long1d</i>	obs time (description="Default obs time", quantity="none")

8.1.7. CalWbsFreqTuning

<i>product (type="Calibration", description="The parameter used for the fitting of COMB spectra")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
LongParameter	First line position (description="Position of the first line in pixels")
LongParameter	Line step (description="Starting value for the difference in pixel between two adjacent COMB lines")
LongParameter	Line step tolerance (description="Half range in pixels where is searched a new line. The range (in pixel) is: the previous line + the Parameter Line step +/- this parameter.")
LongParameter	Gaussian range (description="Half range in pixels used to fit each COMB line with a gaussian. The total number of pixels used is 2*(Gaussian range)")
LongParameter	Number of lines (description="Number of lines aspected for each CCD in the COMB spectra")
LongParameter	Minimum number of lines (description="Minimum number of lines detected to set failed the fit of the COMB")
LongParameter	Max number of spikes (description="Max number of spikes allowed, for each CCD, before to return a failure in the initial line search in the COMB spectra")
LongParameter	Polynomial degree (description="Degree of the polynomial used to calculate the frequencies in function of pixels")
LongParameter	Start ccd (description="First pixel used to find a line in the COMB. This value can affect the number of lines found and the corrispondent value in frquency")
LongParameter	End ccd (description="Last pixel used in the Check Comb. This value can affect the number of lines found")
LongParameter	Noise range (description="Half of the range (in pixels) removed around each line of COMB The resulting spectra is used to calculate the noise. It can be related to the Parameter Gaussian range")
DoubleParameter	Dynamic range threshold (description="Minimum value allowd for the Dynamic Range of CCDs")
DoubleParameter	

	Resolution threshold (description="Maximum value for the Resolution of a CCDs in MHz")
DoubleParameter	Efficiency threshold (description="Minimum value for the efficiency of a CCDs [%]")
DoubleParameter	Ripple threshold (description="Maximum value for the ripple of a CCDs [dB]")
DoubleParameter	Frequency first line (description="Value in MHz of the first COMB line of the first CCD respect to the LO frequency")
DoubleParameter	Line width (description="Starting value for the fitter to found the width of the gaussians in the COMB spectra")
DoubleParameter	Threshold (description="Threshold values used to found the gassians in the COMB spectra. A small values will cause to found many spikes, an high value will cause to miss some lines.")
DoubleParameter	Line frequency step (description="Difference in MHz between two adjacent COMB lines")
DoubleParameter	Hrs range loop (description="Range in MHz in frequencies around guessed position to found WBS frequencies in function of hrs values")
DoubleParameter	Hrs step loop (description="Step in MHz used in the loop to found WBS frequencies in function of hrs values")
LongParameter	Hrs sigma range fit (description="Number of values below and above the minimum sigma to be used in the fit to find the minimum")
LongParameter	Hrs sigma polynomial degree fit (description="Degree of the polynomial used to fit the minimum sigma")

8.1.8. CalWbsZero

<i>map context (type="Unknown", description="Zero context for zeros spectra and relative checks")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
<i>map context</i>	<i>(type="Unknown", description="Time ordered HIFI product")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")

DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	interpolation (description="null")
LongParameter	count_ds (description="Number of datasets in this product")
LongParameter	last_ds (description="last dataset in this product")
<i>product</i>	(<i>type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="WBS Spectrum Dataset of type: comb"</i>)
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
DateParameter	DATE_OBS (description="Start date of this product")
LongParameter	apid (description="Apid")
LongParameter	obsid (description="Observation id")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
LongParameter	subbandstart_1 (description="Starting channel for subband 1")
LongParameter	subbandstart_2 (description="Starting channel for subband 2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3")
LongParameter	subbandstart_4 (description="Starting channel for subband 4")
LongParameter	subbandlength_1 (description="Length of subband 1")
LongParameter	subbandlength_2 (description="Length of subband 2")
LongParameter	subbandlength_3 (description="Length of subband 3")
LongParameter	subbandlength_4 (description="Length of subband 4")
StringParameter	rowflag_9 (description="No valid Chopper information. value = 512")
StringParameter	rowflag_10 (description="No valid Commanded Chopper information. value =")
StringParameter	rowflag_12 (description="No valid LO code offset information. value = 40")
StringParameter	rowflag_13 (description="No valid LO code main information. value = 8192")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	model (description="Wave model")
DoubleParameter	parameter_1 (description="Parameter 1 of the wave model")
DoubleParameter	parameter_2 (description="Parameter 2 of the wave model")
DoubleParameter	parameter_3 (description="Parameter 3 of the wave model")

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DoubleParameter	parameter_4 (description="Parameter 4 of the wave model")
DoubleParameter	parameter_5 (description="Parameter 5 of the wave model")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames. value")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	sds_type (description="Generalized Building Block type")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	obsMode (description="Observing mode")
LongParameter	proposal (description="Proposal identifier")
StringParameter	observer (description="proposer of the observation")
StringParameter	object (description="Target of Observation")
StringParameter	naifId (description="Solar system object NAIF identifier")
DoubleParameter	ra (description="actual RA of pointing")
DoubleParameter	dec (description="actual DEC of pointing")
DoubleParameter	raNominal (description="requested RA of pointing")
DoubleParameter	decNominal (description="requested DEC of pointing")
StringParameter	raDeSys (description="coordinate reference frame for RA and DEC")
DoubleParameter	posAngle (description="position angle from North in sky")
DoubleParameter	equinox (description="Equinox of the celestial coordinate system")
StringParameter	version (description="Version of the product")
StringParameter	formatVersion (description="Version of the product format")
StringParameter	fileName (description="filename for exporting purposes")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data. bit 0 = not used bit 1 = Scan count correction bit 3 = Dark correction bit 4 = Non Linearity correction bit 5 = Zero correction bit 6 = Frequency calibration applied")
BooleanParameter	isMasked (description="null")
<i>table dataset</i> (description="WBS Spectrum Dataset of type: comb")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")

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DateParameter	DATE_OBS (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	apid (description="Apid")
LongParameter	obsid (description="Observation id")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
LongParameter	subbandstart_1 (description="Starting channel for subband 1")
LongParameter	subbandstart_2 (description="Starting channel for subband 2")
LongParameter	subbandstart_3 (description="Starting channel for subband 3")
LongParameter	subbandstart_4 (description="Starting channel for subband 4")
LongParameter	subbandlength_1 (description="Length of subband 1")
LongParameter	subbandlength_2 (description="Length of subband 2")
LongParameter	subbandlength_3 (description="Length of subband 3")
LongParameter	subbandlength_4 (description="Length of subband 4")
StringParameter	rowflag_9 (description="No valid Chopper information. value = 512")
StringParameter	rowflag_10 (description="No valid Commanded Chopper information. value =")
StringParameter	rowflag_12 (description="No valid LO code offset information. value = 40")
StringParameter	rowflag_13 (description="No valid LO code main information. value = 8192")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	model (description="Wave model")
DoubleParameter	parameter_1 (description="Parameter 1 of the wave model")
DoubleParameter	parameter_2 (description="Parameter 2 of the wave model")
DoubleParameter	parameter_3 (description="Parameter 3 of the wave model")
DoubleParameter	parameter_4 (description="Parameter 4 of the wave model")
DoubleParameter	parameter_5 (description="Parameter 5 of the wave model")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames. value")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	sds_type (description="Generalized Building Block type")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	AOT (description="Observation template (same as obsMode)")

HIFI Calibration Products

StringParameter	obsMode (description="Observing mode")
LongParameter	proposal (description="Proposal identifier")
StringParameter	observer (description="proposer of the observation")
StringParameter	object (description="Target of Observation")
StringParameter	naifId (description="Solar system object NAIF identifier")
DoubleParameter	ra (description="actual RA of pointing")
DoubleParameter	dec (description="actual DEC of pointing")
DoubleParameter	raNominal (description="requested RA of pointing")
DoubleParameter	decNominal (description="requested DEC of pointing")
StringParameter	raDeSys (description="coordinate reference frame for RA and DEC")
DoubleParameter	posAngle (description="position angle from North in sky")
DoubleParameter	equinox (description="Equinox of the celestial coordinate system")
StringParameter	version (description="Version of the product")
StringParameter	formatVersion (description="Version of the product format")
StringParameter	fileName (description="filename for exporting purposes")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data. bit 0 = not used bit 1 = Scan count correction bit 3 = Dark correction bit 4 = Non Linearity correction bit 5 = Zero correction bit 6 = Frequency calibration applied")
BooleanParameter	isMasked (description="null")
<i>Double2d</i>	flux (description="flux", quantity="none")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")
<i>Int1d</i>	sequence number (description="Integration Sequence Number", quantity="none")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Long1d</i>	packet time (description="Packetization Time", quantity="none")
<i>Long1d</i>	obs time (description="Observation Time", quantity="none")
<i>Int1d</i>	rowflag (description="Dataframe Flag", quantity="none")
<i>Int1d</i>	df_transfer (description="DataFrame Transfer Counter", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="none")

	<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
	<i>Int1d</i>	scancount (description="Integrated Scan Count", quantity="none")
	<i>Double3d</i>	dark (description="Dark Current Data", quantity="none")
	<i>Int1d</i>	hk_transfer (description="hk_transfer", quantity="none")
	<i>Int2d</i>	Band_ATT (description="null", quantity="none")
	<i>Int1d</i>	IN_ATT (description="null", quantity="none")
	<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator (prime)", quantity="K")
	<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal b", quantity="A")
	<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical ban", quantity="A")
	<i>Double1d</i>	LoFrequency (description="Local Oscillator Frequency", quantity="GHz [1.0E9 Hz]")
	<i>Double1d</i>	integration time (description="null", quantity="s")
	<i>Int2d</i>	flag (description="flag", quantity="none")
<i>product</i>	(type="Unknown", description="Time ordered HIFI product")	
<i>Metadata</i>		
StringParameter	type (description="Product Type Identification")	
StringParameter	creator (description="Generator of this product")	
DateParameter	creationDate (description="Creation date of this product")	
StringParameter	description (description="Name of this product")	
StringParameter	instrument (description="Instrument attached to this product")	
StringParameter	modelName (description="Model name attached to this product")	
DateParameter	startDate (description="Start date of this product")	
DateParameter	endDate (description="End date of this product")	
StringParameter	interpolation (description="null")	
LongParameter	count_ds (description="Number of datasets in this product")	
LongParameter	last_ds (description="last dataset in this product")	
<i>table dataset</i>	(description="null")	
<i>Metadata</i>		
	<i>String1d</i>	type (description="List of types for each block", quantity="none")
	<i>Int1d</i>	start (description="Start index for each block", quantity="none")
	<i>Int1d</i>	length (description="Length of each block", quantity="none")

8.2. HifiTimelineProduct derived Calibration Products

8.2.1. FreqRanges

<i>product</i> (type="Calibration", description="Frequency Ranges / Drift")
--

<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
DoubleParameter	ra (description="actual RA of pointing")
DoubleParameter	dec (description="actual DEC of pointing")
DoubleParameter	raNominal (description="requested RA of pointing")
DoubleParameter	decNominal (description="requested DEC of pointing")
StringParameter	raDeSys (description="coordinate reference frame for RA and DEC")
DoubleParameter	posAngle (description="position angle from North in sky")
DoubleParameter	equinox (description="Equinox of the celestial coordinate system")
StringParameter	formatVersion (description="Version of the product format")
<i>table dataset</i>	(description="null")
<i>Metadata</i>	
LongParameter	startObsTime (description="null")
LongParameter	endObsTime (description="null")
LongParameter	datasets_1 (description="null")
LongParameter	datasets_2 (description="null")
LongParameter	datasets_3 (description="null")
LongParameter	datasets_4 (description="null")
LongParameter	datasets_5 (description="null")
LongParameter	datasets_6 (description="null")
LongParameter	datasets_7 (description="null")
LongParameter	datasets_8 (description="null")
LongParameter	datasets_9 (description="null")
LongParameter	datasets_10 (description="null")
LongParameter	datasets_11 (description="null")
LongParameter	datasets_12 (description="null")
LongParameter	datasets_13 (description="null")
StringParameter	frequencyGroup (description="null")
<i>composite</i>	(description="History of product")

<i>Metadata</i>	
LongParameter	id (description="Unique ID")
<i>table dataset</i>	(description="History as Jython script")
<i>Metadata</i>	
StringParameter	outvar (description="last output variable")
<i>StringId</i>	Lines (description="script lines", quantity="none")
<i>table dataset</i>	(description="History of tasks")
<i>Metadata</i>	
<i>LongId</i>	ID (description="Links the parameter and task table", quantity="none")
<i>StringId</i>	Name (description="The name of the task", quantity="none")
<i>LongId</i>	ExecDate (description="Time of execution (FINETIME)", quantity="none")
<i>BoolId</i>	Succeeded (description="Flag for success/failed", quantity="none")
<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
<i>table dataset</i>	(description="The parameters belonging to the task history")
<i>Metadata</i>	
<i>LongId</i>	TaskID (description="Links the parameter and task table", quantity="none")
<i>StringId</i>	Name (description="The name of the parameter", quantity="none")
<i>StringId</i>	Type (description="Type of parameter", quantity="none")
<i>StringId</i>	Value (description="String representation of the parameter value", quantity="none")
<i>BoolId</i>	IsDefault (description="True if the default value has been used", quantity="none")
<i>LongId</i>	IncHistoryId (description="ID of the history of an included product", quantity="none")
<i>IntId</i>	IncNumTask (description="Number of tasks to include from history", quantity="none")
<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
<i>BoolId</i>	UserInput (description="Needs user input", quantity="none")

8.2.2. CalFluxHotCold

<i>map context (type="Calibration", description="Hot-Cold calibration.")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")

LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
DoubleParameter	ra (description="actual RA of pointing")
DoubleParameter	dec (description="actual DEC of pointing")
DoubleParameter	raNominal (description="requested RA of pointing")
DoubleParameter	decNominal (description="requested DEC of pointing")
StringParameter	raDeSys (description="coordinate reference frame for RA and DEC")
DoubleParameter	posAngle (description="position angle from North in sky")
DoubleParameter	equinox (description="Equinox of the celestial coordinate system")
StringParameter	formatVersion (description="Version of the product format")
LongParameter	count_ds (description="Number of datasets in this product")
LongParameter	last_ds (description="last dataset in this product")
<i>product</i>	<i>(type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="HRS Spectrum Dataset")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
DateParameter	DATE_OBS (description="Start date of this product")
LongParameter	apid (description="Apid")
LongParameter	obsid (description="Observation id")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
StringParameter	rowflag_14 (description="Correction of Bbid, see SPR 1963. value = 16384")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames. value")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	sds_type (description="Generalized Building Block type")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")

HIFI Calibration Products

LongParameter	odNumber (description="Operational day number")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	obsMode (description="Observing mode")
LongParameter	proposal (description="Proposal identifier")
StringParameter	observer (description="proposer of the observation")
StringParameter	object (description="Target of Observation")
StringParameter	naifId (description="Solar system object NAIF identifier")
DoubleParameter	ra (description="actual RA of pointing")
DoubleParameter	dec (description="actual DEC of pointing")
DoubleParameter	raNominal (description="requested RA of pointing")
DoubleParameter	decNominal (description="requested DEC of pointing")
StringParameter	raDeSys (description="coordinate reference frame for RA and DEC")
DoubleParameter	posAngle (description="position angle from North in sky")
DoubleParameter	equinox (description="Equinox of the celestial coordinate system")
StringParameter	version (description="Version of the product")
StringParameter	formatVersion (description="Version of the product format")
StringParameter	fileName (description="filename for exporting purposes")
BooleanParameter	Valid (description="null")
LongParameter	subbands (description="null")
BooleanParameter	hassubbands (description="Whether it has subbands")
StringParameter	wavename (description="Actual name of the WaveColumn")
LongParameter	subbandstart_1 (description="null")
LongParameter	subbandlength_1 (description="null")
LongParameter	subbandstart_2 (description="null")
LongParameter	subbandlength_2 (description="null")
StringParameter	frequencyGroup (description="null")
DoubleParameter	loFrequency (description="null")
DoubleParameter	loThrow (description="null")
StringParameter	cal_type (description="null")
<i>table dataset</i> (description="HRS Spectrum Dataset")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	DATE_OBS (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	apid (description="Apid")
LongParameter	obsid (description="Observation id")

StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
StringParameter	rowflag_14 (description="Correction of Bbid, see SPR 1963. value = 16384")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames. value")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	sds_type (description="Generalized Building Block type")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	obsMode (description="Observing mode")
LongParameter	proposal (description="Proposal identifier")
StringParameter	observer (description="proposer of the observation")
StringParameter	object (description="Target of Observation")
StringParameter	naifId (description="Solar system object NAIF identifier")
DoubleParameter	ra (description="actual RA of pointing")
DoubleParameter	dec (description="actual DEC of pointing")
DoubleParameter	raNominal (description="requested RA of pointing")
DoubleParameter	decNominal (description="requested DEC of pointing")
StringParameter	raDeSys (description="coordinate reference frame for RA and DEC")
DoubleParameter	posAngle (description="position angle from North in sky")
DoubleParameter	equinox (description="Equinox of the celestial coordinate system")
StringParameter	version (description="Version of the product")
StringParameter	formatVersion (description="Version of the product format")
StringParameter	fileName (description="filename for exporting purposes")
BooleanParameter	Valid (description="null")
LongParameter	subbands (description="null")
BooleanParameter	hassubbands (description="Whether it has subbands")
StringParameter	wavename (description="Actual name of the WaveColumn")
LongParameter	subbandstart_1 (description="null")
LongParameter	subbandlength_1 (description="null")
LongParameter	subbandstart_2 (description="null")
LongParameter	subbandlength_2 (description="null")
StringParameter	frequencyGroup (description="null")
DoubleParameter	loFrequency (description="null")
DoubleParameter	loThrow (description="null")

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StringParameter	cal_type (description="null")
Double2d	flux_1 (description="null", quantity="none")
Double2d	frequency_1 (description="null", quantity="none")
Double2d	flux_2 (description="null", quantity="none")
Double2d	frequency_2 (description="null", quantity="none")
Bool1d	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
Int1d	rowflag (description="Dataframe Flag", quantity="none")
Int1d	bbtype (description="Building Block Type", quantity="none")
Double1d	Chopper (description="Actual chopper positions", quantity="none")
Double1d	cmd_chopper (description="Commanded chopper positions", quantity="none")
Double2d	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator (prime)", quantity="K")
Double1d	LoFrequency (description="Local Oscillator Frequency", quantity="GHz [1.0E9 Hz]")
Int1d	integrations (description="Number of Integrations", quantity="none")
Long1d	packet time (description="Packetization Time", quantity="none")
Double2d	integration time (description="Integration duration in seconds", quantity="s")
Long1d	obs time (description="Observation Time", quantity="none")
String1d	Pol_S (description="Polar used : H/V", quantity="none")
Int2d	LO_S (description="Status of the LO : Locked (=1) / Unlocked (=0)", quantity="none")
String1d	Unit_ID_S (description="Unit used : QM/FM", quantity="none")
Int2d	type (description="null", quantity="none")
Int1d	buffer (description="Integration Buffer", quantity="none")
Bool2d	blockselection (description="Block Selection", quantity="none")
Int1d	df_transfer (description="DataFrame Transfer Counter", quantity="none")
Double2d	LO_F (description="LO Frequency values", quantity="MHz [1000000.0 Hz]")
Double1d	IF_5P_V (description="IF voltage for +5V", quantity="V")
String1d	Switch_S (description="Status of the input IF Switch : H/V", quantity="none")
Double2d	ACS_T (description="ACS Temperature values", quantity="C [274.15 K]")
Double1d	IF_6P_V (description="IF voltage for +6V", quantity="V")
Double1d	ACS_18P_V (description="ACS voltage for +18V", quantity="V")
Double1d	MJC_Ver (description="Calibrated mixer junction current, vertical ban", quantity="A")
Int2d	channels (description="null", quantity="none")
Double2d	IF_T (description="IF Temperature values", quantity="C [274.15 K]")
String1d	Buffer_S (description="Buffer for ACS integration : BufferA/BufferB", quantity="none")

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<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal b", quantity="A")
<i>Int2d</i>	LO_F_raw (description="LO Frequency raw values", quantity="MHz [1000000.0 Hz]")
<i>Double1d</i>	ACS_Ana_1_3P3_V (description="ACS voltage for +3.3V (analog1)", quantity="V")
<i>Int2d</i>	sampler (description="null", quantity="none")
<i>Double2d</i>	corrVSigma (description="null", quantity="none")
<i>Double1d</i>	ACS_5P_V (description="ACS voltage for +5V", quantity="V")
<i>Double1d</i>	ACS_8P_V (description="ACS voltage for +8V", quantity="V")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")
<i>Double2d</i>	mSigma (description="null", quantity="none")
<i>Double1d</i>	ACS_Dig_3P3_V (description="ACS voltage for +3.3V (digital)", quantity="V")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Double2d</i>	Attenuators (description="IRM attenuator values : 0-15.5 dB", quantity="dB [1.2589254117941673]")
<i>Int2d</i>	resolution (description="null", quantity="none")
<i>Int2d</i>	colorIndex (description="null", quantity="none")
<i>Double1d</i>	IF_8P_V (description="IF voltage for +8V", quantity="V")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Double1d</i>	IF_5M_V (description="IF voltage for -5V", quantity="V")
<i>Double1d</i>	IF_18P_V (description="IF voltage for +18V", quantity="V")
<i>Int1d</i>	hk_transfer (description="hk_transfer", quantity="none")
<i>Int2d</i>	cuts (description="null", quantity="none")
<i>Double1d</i>	DCDC_1P1_C (description="DCDC current value for +1.1V", quantity="A")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Double1d</i>	DCDC_5P_C (description="DCDC current value for +5V", quantity="A")
<i>Int1d</i>	sequence number (description="Integration Sequence Number", quantity="none")
<i>Double1d</i>	DCDC_3P3_C (description="DCDC current value for +3.3V", quantity="A")
<i>Bool1d</i>	isHot (description="null", quantity="none")
<i>Int2d</i>	duration (description="Integration Duration", quantity="none")
<i>Double2d</i>	DCDC_T (description="DCDC Temperature values", quantity="C [274.15 K]")
<i>Double1d</i>	ACS_5M_V (description="ACS voltage for -5V", quantity="V")
<i>Double1d</i>	DCDC_18P_C (description="DCDC current value for +18V", quantity="A")
<i>Double1d</i>	ACS_Ana_1P1_V (description="ACS voltage for +1.1V (analog)", quantity="V")
<i>Double1d</i>	DCDC_8P_C (description="DCDC current value for +8V", quantity="A")

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	<i>DoubleId</i>	ACS_Ana_2_3P3_V (description="ACS voltage for +3.3V (analog2)", quantity="V")
	<i>DoubleId</i>	DCDC_5M_C (description="DCDC current value for -5V", quantity="A")
<i>product</i>	(type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="HRS Spectrum Dataset")	
<i>Metadata</i>		
	StringParameter	type (description="Product Type Identification")
	StringParameter	creator (description="Generator of this product")
	DateParameter	creationDate (description="Creation date of this product")
	StringParameter	description (description="Name of this product")
	StringParameter	instrument (description="null")
	StringParameter	modelName (description="Model name attached to this product")
	DateParameter	startDate (description="Start date of this product")
	DateParameter	endDate (description="End date of this product")
	DateParameter	DATE_OBS (description="Start date of this product")
	LongParameter	apid (description="Apid")
	LongParameter	obsid (description="Observation id")
	StringParameter	backend (description="Spectrograph: WBS or HRS")
	LongParameter	channels (description="Number of Channels")
	StringParameter	rowflag_14 (description="Correction of Bbid, see SPR 1963. value = 16384")
	StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames. value")
	LongParameter	OBS-revision (description="On Board Software revision")
	LongParameter	OBS-version (description="On Board Software version")
	LongParameter	OBS-patch (description="On Board Software patch level")
	StringParameter	Band (description="Active band")
	StringParameter	sds_type (description="Generalized Building Block type")
	StringParameter	author (description="author of this product")
	StringParameter	origin (description="site that created the product")
	StringParameter	telescope (description="name of telescope")
	LongParameter	odNumber (description="Operational day number")
	StringParameter	AOT (description="Observation template (same as obsMode)")
	StringParameter	obsMode (description="Observing mode")
	LongParameter	proposal (description="Proposal identifier")
	StringParameter	observer (description="proposer of the observation")
	StringParameter	object (description="Target of Observation")
	StringParameter	naifId (description="Solar system object NAIF identifier")
	DoubleParameter	ra (description="actual RA of pointing")
	DoubleParameter	dec (description="actual DEC of pointing")
	DoubleParameter	raNominal (description="requested RA of pointing")
	DoubleParameter	decNominal (description="requested DEC of pointing")
	StringParameter	raDeSys (description="coordinate reference frame for RA and DEC")

DoubleParameter	posAngle (description="position angle from North in sky")
DoubleParameter	equinox (description="Equinox of the celestial coordinate system")
StringParameter	version (description="Version of the product")
StringParameter	formatVersion (description="Version of the product format")
StringParameter	fileName (description="filename for exporting purposes")
BooleanParameter	Valid (description="null")
LongParameter	subbands (description="null")
BooleanParameter	hassubbands (description="Whether it has subbands")
StringParameter	wavename (description="Actual name of the WaveColumn")
LongParameter	subbandstart_1 (description="null")
LongParameter	subbandlength_1 (description="null")
LongParameter	subbandstart_2 (description="null")
LongParameter	subbandlength_2 (description="null")
StringParameter	frequencyGroup (description="null")
DoubleParameter	loFrequency (description="null")
DoubleParameter	loThrow (description="null")
StringParameter	cal_type (description="null")
<i>table dataset</i> (description="HRS Spectrum Dataset")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	DATE_OBS (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	apid (description="Apid")
LongParameter	obsid (description="Observation id")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of Channels")
StringParameter	rowflag_14 (description="Correction of Bbid, see SPR 1963. value = 16384")
StringParameter	rowflag_8 (description="HK could not be aligned with DataFrames. value")
LongParameter	OBS-revision (description="On Board Software revision")
LongParameter	OBS-version (description="On Board Software version")
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	sds_type (description="Generalized Building Block type")
StringParameter	author (description="author of this product")

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StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParameter	odNumber (description="Operational day number")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	obsMode (description="Observing mode")
LongParameter	proposal (description="Proposal identifier")
StringParameter	observer (description="proposer of the observation")
StringParameter	object (description="Target of Observation")
StringParameter	naifId (description="Solar system object NAIF identifier")
DoubleParameter	ra (description="actual RA of pointing")
DoubleParameter	dec (description="actual DEC of pointing")
DoubleParameter	raNominal (description="requested RA of pointing")
DoubleParameter	decNominal (description="requested DEC of pointing")
StringParameter	raDeSys (description="coordinate reference frame for RA and DEC")
DoubleParameter	posAngle (description="position angle from North in sky")
DoubleParameter	equinox (description="Equinox of the celestial coordinate system")
StringParameter	version (description="Version of the product")
StringParameter	formatVersion (description="Version of the product format")
StringParameter	fileName (description="filename for exporting purposes")
BooleanParameter	Valid (description="null")
LongParameter	subbands (description="null")
BooleanParameter	hasSubbands (description="Whether it has subbands")
StringParameter	wavename (description="Actual name of the WaveColumn")
LongParameter	subbandstart_1 (description="null")
LongParameter	subbandlength_1 (description="null")
LongParameter	subbandstart_2 (description="null")
LongParameter	subbandlength_2 (description="null")
StringParameter	frequencyGroup (description="null")
DoubleParameter	loFrequency (description="null")
DoubleParameter	loThrow (description="null")
StringParameter	cal_type (description="null")
<i>Double2d</i>	flux_1 (description="null", quantity="none")
<i>Double2d</i>	frequency_1 (description="null", quantity="none")
<i>Double2d</i>	flux_2 (description="null", quantity="none")
<i>Double2d</i>	frequency_2 (description="null", quantity="none")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Int1d</i>	rowflag (description="Dataframe Flag", quantity="none")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")

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<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Calibrator (prime)", quantity="K")
<i>Double1d</i>	LoFrequency (description="Local Oscillator Frequency", quantity="GHz [1.0E9 Hz]")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Long1d</i>	packet time (description="Packetization Time", quantity="none")
<i>Double2d</i>	integration time (description="Integration duration in seconds", quantity="s")
<i>Long1d</i>	obs time (description="Observation Time", quantity="none")
<i>String1d</i>	Pol_S (description="Polar used : H/V", quantity="none")
<i>Int2d</i>	LO_S (description="Status of the LO : Locked (=1) / Unlocked (=0)", quantity="none")
<i>String1d</i>	Unit_ID_S (description="Unit used : QM/FM", quantity="none")
<i>Int2d</i>	type (description="null", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Bool2d</i>	blockselection (description="Block Selection", quantity="none")
<i>Int1d</i>	df_transfer (description="DataFrame Transfer Counter", quantity="none")
<i>Double2d</i>	LO_F (description="LO Frequency values", quantity="MHZ [1000000.0 Hz]")
<i>Double1d</i>	IF_5P_V (description="IF voltage for +5V", quantity="V")
<i>String1d</i>	Switch_S (description="Status of the input IF Switch : H/V", quantity="none")
<i>Double2d</i>	ACS_T (description="ACS Temperature values", quantity="C [274.15 K]")
<i>Double1d</i>	IF_6P_V (description="IF voltage for +6V", quantity="V")
<i>Double1d</i>	ACS_18P_V (description="ACS voltage for +18V", quantity="V")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical ban", quantity="A")
<i>Int2d</i>	channels (description="null", quantity="none")
<i>Double2d</i>	IF_T (description="IF Temperature values", quantity="C [274.15 K]")
<i>String1d</i>	Buffer_S (description="Buffer for ACS integration : BufferA/BufferB", quantity="none")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal b", quantity="A")
<i>Int2d</i>	LO_F_raw (description="LO Frequency raw values", quantity="MHZ [1000000.0 Hz]")
<i>Double1d</i>	ACS_Ana_1_3P3_V (description="ACS voltage for +3.3V (analog1)", quantity="V")
<i>Int2d</i>	sampler (description="null", quantity="none")
<i>Double2d</i>	corrVSigma (description="null", quantity="none")
<i>Double1d</i>	ACS_5P_V (description="ACS voltage for +5V", quantity="V")
<i>Double1d</i>	ACS_8P_V (description="ACS voltage for +8V", quantity="V")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")
<i>Double2d</i>	mSigma (description="null", quantity="none")

<i>Double1d</i>	ACS_Dig_3P3_V (description="ACS voltage for +3.3V (digital)", quantity="V")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Double2d</i>	Attenuators (description="IRM attenuator values : 0-15.5 dB", quantity="dB [1.2589254117941673]")
<i>Int2d</i>	resolution (description="null", quantity="none")
<i>Int2d</i>	colorIndex (description="null", quantity="none")
<i>Double1d</i>	IF_8P_V (description="IF voltage for +8V", quantity="V")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Double1d</i>	IF_5M_V (description="IF voltage for -5V", quantity="V")
<i>Double1d</i>	IF_18P_V (description="IF voltage for +18V", quantity="V")
<i>Int1d</i>	hk_transfer (description="hk_transfer", quantity="none")
<i>Int2d</i>	cuts (description="null", quantity="none")
<i>Double1d</i>	DCDC_1P1_C (description="DCDC current value for +1.1V", quantity="A")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Double1d</i>	DCDC_5P_C (description="DCDC current value for +5V", quantity="A")
<i>Int1d</i>	sequence number (description="Integration Sequence Number", quantity="none")
<i>Double1d</i>	DCDC_3P3_C (description="DCDC current value for +3.3V", quantity="A")
<i>Bool1d</i>	isHot (description="null", quantity="none")
<i>Int2d</i>	duration (description="Integration Duration", quantity="none")
<i>Double2d</i>	DCDC_T (description="DCDC Temperature values", quantity="C [274.15 K]")
<i>Double1d</i>	ACS_5M_V (description="ACS voltage for -5V", quantity="V")
<i>Double1d</i>	DCDC_18P_C (description="DCDC current value for +18V", quantity="A")
<i>Double1d</i>	ACS_Ana_1P1_V (description="ACS voltage for +1.1V (analog)", quantity="V")
<i>Double1d</i>	DCDC_8P_C (description="DCDC current value for +8V", quantity="A")
<i>Double1d</i>	ACS_Ana_2_3P3_V (description="ACS voltage for +3.3V (analog2)", quantity="V")
<i>Double1d</i>	DCDC_5M_C (description="DCDC current value for -5V", quantity="A")

8.2.3. CalPhases

<i>product</i> (type="Calibration", description="Phase Information for Buffer, Chopper and LOFrequency")	
<i>Metadata</i>	
<i>StringParameter</i>	type (description="Product Type Identification")

StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
DoubleParameter	ra (description="actual RA of pointing")
DoubleParameter	dec (description="actual DEC of pointing")
DoubleParameter	raNominal (description="requested RA of pointing")
DoubleParameter	decNominal (description="requested DEC of pointing")
StringParameter	raDeSys (description="coordinate reference frame for RA and DEC")
DoubleParameter	posAngle (description="position angle from North in sky")
DoubleParameter	equinox (description="Equinox of the celestial coordinate system")
StringParameter	formatVersion (description="Version of the product format")
<i>table dataset</i>	(description="null")
<i>Metadata</i>	
<i>Int1d</i>	Dataset (description="Dataset key", quantity="none")
<i>String1d</i>	type (description="List of types for each block", quantity="none")
<i>Int1d</i>	length (description="Length of each block", quantity="none")
<i>Int1d</i>	bbid (description="Unique bctype of each block", quantity="none")
<i>Bool1d</i>	isLine (description="ON/OFF", quantity="none")
<i>String1d</i>	Chopper Pattern (description="Pattern of chopper positions", quantity="none")
<i>String1d</i>	Chopper (description="Different chopper positions", quantity="none")
<i>String1d</i>	Initial Chopper (description="Initial chopper position", quantity="none")
<i>String1d</i>	LO Pattern (description="Pattern of LO frequencies", quantity="none")
<i>Double2d</i>	Lo Frequencies (description="Different LO frequencies", quantity="none")
<i>Double1d</i>	Initial LoF (description="Initial LO frequency", quantity="none")
<i>String1d</i>	Buffer Pattern (description="Pattern of buffer values", quantity="none")
<i>String1d</i>	Buffers (description="Different buffer values", quantity="none")
<i>Int1d</i>	Initial Buffer (description="Initial buffer", quantity="none")
<i>composite</i>	(description="History of product")
<i>Metadata</i>	
<i>LongParameter</i>	id (description="Unique ID")
<i>table dataset</i>	(description="History as Jython script")

<i>Metadata</i>	
StringParameter	outvar (description="last output variable")
StringId	Lines (description="script lines", quantity="none")
<i>table dataset</i>	(description="History of tasks")
<i>Metadata</i>	
LongId	ID (description="Links the parameter and task table", quantity="none")
StringId	Name (description="The name of the task", quantity="none")
LongId	ExecDate (description="Time of execution (FINETIME)", quantity="none")
BoolId	Succeeded (description="Flag for success/failed", quantity="none")
LongId	HistoryId (description="Id of current history", quantity="none")
<i>table dataset</i>	(description="The parameters belonging to the task history")
<i>Metadata</i>	
LongId	TaskID (description="Links the parameter and task table", quantity="none")
StringId	Name (description="The name of the parameter", quantity="none")
StringId	Type (description="Type of parameter", quantity="none")
StringId	Value (description="String representation of the parameter value", quantity="none")
BoolId	IsDefault (description="True if the default value has been used", quantity="none")
LongId	IncHistoryId (description="ID of the history of an included product", quantity="none")
IntId	IncNumTask (description="Number of tasks to include from history", quantity="none")
LongId	HistoryId (description="Id of current history", quantity="none")
BoolId	UserInput (description="Needs user input", quantity="none")

8.3. HIFI Quality Products

8.3.1. QHtpLevel0

<i>product (type="HifiQualityProduct", description="Level 0 Quality Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	version (description="Version of this product")

StringParameter	name (description="Name of this product")		
table dataset	(description="null")		
<i>Metadata</i>			
	Int1d	dataset (description="Numbers of the datasets", quantity="none")	
	String1d	type (description="List of types for each block", quantity="none")	
	Int1d	Bbid (description="Building Block Id", quantity="none")	
	Int1d	start (description="Start index for each block", quantity="none")	
	Int1d	length (description="Length of each block", quantity="none")	
	Int1d	unalignedHKdata (description="unalignedHKdata", quantity="none")	
	Int1d	noChopperHKdata	(description="noChopperHKdata", quantity="none")
	Int1d	noCommandedChopperHKdata	(description="noCommandedChopperHKdata", quantity="none")
	Int1d	noFrequencyMonitorHKdata	(description="noFrequencyMonitorHKdata", quantity="none")
	Int1d	noLoCodeOffsetHKdata	(description="noLoCodeOffsetHKdata", quantity="none")
	Int1d	noLoCodeMainHKdata	(description="noLoCodeMainHKdata", quantity="none")
	Int1d	bbidCorrection (description="bbidCorrection", quantity="none")	

8.3.2. QWbsFreq

<i>product (type="HifiQualityContext", description="context for Comb checks")</i>			
<i>Metadata</i>			
StringParameter	type (description="Product Type Identification")		
StringParameter	creator (description="Generator of this product")		
DateParameter	creationDate (description="Creation date of this product")		
StringParameter	description (description="Name of this product")		
StringParameter	instrument (description="Instrument attached to this product")		
StringParameter	modelName (description="Model name attached to this product")		
DateParameter	startDate (description="Start date of this product")		
DateParameter	endDate (description="End date of this product")		
BooleanParameter	COMB 0 (description="Check of COMB 0")		
BooleanParameter	checkComb (description="Flag for all COMB of the observation")		
BooleanParameter	spikeNumberFlag (description="Flag for the spikes all COMB of the observation")		
LongParameter	spikeNumber (description="Maximum number of spikes detected in a Comb")		
table dataset	(description="null")		
<i>Metadata</i>			
	String1d	name (description="name", quantity="none")	
	Bool1d	flagComb (description="flagComb", quantity="none")	
	Double2d	resolution (description="resolution", quantity="none")	

<i>Double2d</i>	dynamic range (description="dynamic range", quantity="none")
<i>Double2d</i>	efficiency (description="efficiency", quantity="none")
<i>Double2d</i>	ripple (description="ripple", quantity="none")
<i>Double2d</i>	RMS of (real comb freq - fit) (description="RMS of (real comb freq - fit)", quantity="none")
<i>composite</i>	(description="History of product")
<i>Metadata</i>	
<i>LongParameter</i>	id (description="Unique ID")
<i>table dataset</i>	(description="History as Jython script")
<i>Metadata</i>	
<i>StringParameter</i>	outvar (description="last output variable")
<i>StringId</i>	Lines (description="script lines", quantity="none")
<i>table dataset</i>	(description="History of tasks")
<i>Metadata</i>	
<i>LongId</i>	ID (description="Links the parameter and task table", quantity="none")
<i>StringId</i>	Name (description="The name of the task", quantity="none")
<i>LongId</i>	ExecDate (description="Time of execution (FINETIME)", quantity="none")
<i>BoolId</i>	Succeeded (description="Flag for success/failed", quantity="none")
<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
<i>table dataset</i>	(description="The parameters belonging to the task history")
<i>Metadata</i>	
<i>LongId</i>	TaskID (description="Links the parameter and task table", quantity="none")
<i>StringId</i>	Name (description="The name of the parameter", quantity="none")
<i>StringId</i>	Type (description="Type of parameter", quantity="none")
<i>StringId</i>	Value (description="String representation of the parameter value", quantity="none")
<i>BoolId</i>	IsDefault (description="True if the default value has been used", quantity="none")
<i>LongId</i>	IncHistoryId (description="ID of the history of an included product", quantity="none")
<i>IntId</i>	IncNumTask (description="Number of tasks to include from history", quantity="none")
<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
<i>BoolId</i>	UserInput (description="Needs user input", quantity="none")

8.3.3. QWbsComb

<i>map context</i> (type="HifiQualityContext", description="Unknown")	
<i>Metadata</i>	
<i>StringParameter</i>	type (description="Product Type Identification")
<i>StringParameter</i>	creator (description="Generator of this product")

DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
BooleanParameter	checkComb (description="The global result of ccd COMB checks")
<i>product</i>	<i>(type="Quality", description="The Ccd-COMB quality product. It contains the gaussian parameter fit of the comb lines")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
BooleanParameter	spikeNumberFlag (description="Flag for number of spikes")
LongParameter	spikeNumber (description="Number of spike in the Comb")
<i>table dataset</i>	<i>(description="spike detected")</i>
<i>Metadata</i>	
<i>IntId</i>	spike mask (description="spike mask", quantity="none")
<i>product</i>	<i>(type="Quality", description="The Ccd-COMB quality product. It contains the gaussian parameter fit of the comb lines")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
DoubleParameter	resolution (description="Average resolution of this CCD")
LongParameter	ccd id (description="ccd n.")

DoubleParameter	dynamic range (description="Dynamic range of the base, after the lines are removed")
DoubleParameter	efficiency (description="Averaged of the Power after the first and last line are removed")
DoubleParameter	ripple (description="From the the power reduct maximum and minimum is calculated theRipple [db]: $10 * \ln(\maxPower/\minPower)$ ")
DoubleParameter	RMS of (real comb freq - fit) (description="RMS of (real comb freq - fit)")
table dataset	(description="gaussian lines")
Metadata	
Double2d	line standard deviation (description="line standard deviation", quantity="none")
Double1d	line amplitude (description="line amplitude", quantity="none")
Double1d	line resolution (description="line resolution", quantity="none")
Double1d	line position (description="line position", quantity="none")
Double1d	line power (description="line power", quantity="none")
Double1d	line frequency (description="line frequency", quantity="MHz [1000000.0 Hz]")
product	(type="Quality", description="The Ccd-COMB quality product. It contains the gaussian parameter fit of the comb lines")
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
DoubleParameter	resolution (description="Average resolution of this CCD")
LongParameter	ccd id (description="ccd n.")
DoubleParameter	dynamic range (description="Dynamic range of the base, after the lines are removed")
DoubleParameter	efficiency (description="Averaged of the Power after the first and last line are removed")
DoubleParameter	ripple (description="From the the power reduct maximum and minimum is calculated theRipple [db]: $10 * \ln(\maxPower/\minPower)$ ")
DoubleParameter	RMS of (real comb freq - fit) (description="RMS of (real comb freq - fit)")
table dataset	(description="gaussian lines")
Metadata	
Double2d	line standard deviation (description="line standard deviation", quantity="none")
Double1d	line amplitude (description="line amplitude", quantity="none")
Double1d	line resolution (description="line resolution", quantity="none")

	<i>Double1d</i>	line position (description="line position", quantity="none")
	<i>Double1d</i>	line power (description="line power", quantity="none")
	<i>Double1d</i>	line frequency (description="line frequency", quantity="MHz [1000000.0 Hz]")
<i>product</i>	<i>(type="Quality", description="The Ccd-COMB quality product. It contains the gaussian parameter fit of the comb lines")</i>	
<i>Metadata</i>		
StringParameter	type (description="Product Type Identification")	
StringParameter	creator (description="Generator of this product")	
DateParameter	creationDate (description="Creation date of this product")	
StringParameter	description (description="Name of this product")	
StringParameter	instrument (description="Instrument attached to this product")	
StringParameter	modelName (description="Model name attached to this product")	
DateParameter	startDate (description="Start date of this product")	
DateParameter	endDate (description="End date of this product")	
LongParameter	version (description="Version of this product")	
StringParameter	name (description="Name of this product")	
DoubleParameter	resolution (description="Average resolution of this CCD")	
LongParameter	ccd id (description="ccd n.")	
DoubleParameter	dynamic range (description="Dynamic range of the base, after the lines are removed")	
DoubleParameter	efficiency (description="Averaged of the Power after the first and last line are removed")	
DoubleParameter	ripple (description="From the the power reduct maximum and minimum is calculated theRipple [db]: $10 * \ln(\maxPower/\minPower)$ ")	
DoubleParameter	RMS of (real comb freq - fit) (description="RMS of (real comb freq - fit)")	
<i>table dataset</i>	<i>(description="gaussian lines")</i>	
<i>Metadata</i>		
	<i>Double2d</i>	line standard deviation (description="line standard deviation", quantity="none")
	<i>Double1d</i>	line amplitude (description="line amplitude", quantity="none")
	<i>Double1d</i>	line resolution (description="line resolution", quantity="none")
	<i>Double1d</i>	line position (description="line position", quantity="none")
	<i>Double1d</i>	line power (description="line power", quantity="none")
	<i>Double1d</i>	line frequency (description="line frequency", quantity="MHz [1000000.0 Hz]")
<i>product</i>	<i>(type="Quality", description="The Ccd-COMB quality product. It contains the gaussian parameter fit of the comb lines")</i>	
<i>Metadata</i>		
StringParameter	type (description="Product Type Identification")	
StringParameter	creator (description="Generator of this product")	
DateParameter	creationDate (description="Creation date of this product")	
StringParameter	description (description="Name of this product")	
StringParameter	instrument (description="Instrument attached to this product")	

StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
DoubleParameter	resolution (description="Average resolution of this CCD")
LongParameter	ccd id (description="ccd n.")
DoubleParameter	dynamic range (description="Dynamic range of the base, after the lines are removed")
DoubleParameter	efficiency (description="Averaged of the Power after the first and last line are removed")
DoubleParameter	ripple (description="From the the power reduct maximum and minimum is calculated theRipple [db]: $10 * \ln(\maxPower/\minPower)$ ")
DoubleParameter	RMS of (real comb freq - fit) (description="RMS of (real comb freq - fit)")
<i>table dataset</i>	(description="gaussian lines")
<i>Metadata</i>	
<i>Double2d</i>	line standard deviation (description="line standard deviation", quantity="none")
<i>Double1d</i>	line amplitude (description="line amplitude", quantity="none")
<i>Double1d</i>	line resolution (description="line resolution", quantity="none")
<i>Double1d</i>	line position (description="line position", quantity="none")
<i>Double1d</i>	line power (description="line power", quantity="none")
<i>Double1d</i>	line frequency (description="line frequency", quantity="MHz [1000000.0 Hz]")

8.3.4. QWbsZero

<i>product (type="HifiQualityProduct", description="The Zero check")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
BooleanParameter	checkZero (description="The global result of zero checks")
DoubleParameter	threshold maximum (description="threshold maximum")
DoubleParameter	threshold minimum (description="threshold minimum")
DoubleParameter	threshold average maximum (description="threshold average maximum")

DoubleParameter	threshold average minimum (description="threshold average minimum")
DoubleParameter	threshold variance (description="threshold variance")
<i>table dataset</i>	(description="Zero quality table")
<i>Metadata</i>	
<i>DoubleId</i>	maximum (description="maximum", quantity="none")
<i>DoubleId</i>	minimum (description="minimum", quantity="none")
<i>DoubleId</i>	average (description="average", quantity="none")
<i>DoubleId</i>	variance (description="variance", quantity="none")
<i>BoolId</i>	flag (description="flag", quantity="none")
<i>LongId</i>	time (description="time", quantity="none")
<i>composite</i>	(description="History of product")
<i>Metadata</i>	
LongParameter	id (description="Unique ID")
<i>table dataset</i>	(description="History as Jython script")
<i>Metadata</i>	
StringParameter	outvar (description="last output variable")
<i>StringId</i>	Lines (description="script lines", quantity="none")
<i>table dataset</i>	(description="History of tasks")
<i>Metadata</i>	
<i>LongId</i>	ID (description="Links the parameter and task table", quantity="none")
<i>StringId</i>	Name (description="The name of the task", quantity="none")
<i>LongId</i>	ExecDate (description="Time of execution (FINETIME)", quantity="none")
<i>BoolId</i>	Succeeded (description="Flag for success/failed", quantity="none")
<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
<i>table dataset</i>	(description="The parameters belonging to the task history")
<i>Metadata</i>	
<i>LongId</i>	TaskID (description="Links the parameter and task table", quantity="none")
<i>StringId</i>	Name (description="The name of the parameter", quantity="none")
<i>StringId</i>	Type (description="Type of parameter", quantity="none")
<i>StringId</i>	Value (description="String representation of the parameter value", quantity="none")
<i>BoolId</i>	IsDefault (description="True if the default value has been used", quantity="none")
<i>LongId</i>	IncHistoryId (description="ID of the history of an included product", quantity="none")
<i>IntId</i>	IncNumTask (description="Number of tasks to include from history", quantity="none")
<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
<i>BoolId</i>	UserInput (description="Needs user input", quantity="none")

Chapter 9. PACS Observation Products

9.1. PACS Photometry Level-0 Products

9.1.1. HPPRAWBS: Photometer Raw Data (Readouts stored in a TableDataset)

<i>product</i> (type="HPPRAWBS", description="Photometer Raw Data (Readouts stored in a TableDataset)")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	camName (description="Name of the Camera")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
BooleanParameter	Initialized (description="null")
DoubleParameter	Apid (description="null")
DoubleParameter	subType (description="null")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="null")
LongParameter	RELTIMEOFFSET (description="null")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="Table for science data.")
<i>Metadata</i>	
<i>Int1d</i>	detnum (description="null", quantity="none")
<i>Int1d</i>	row (description="null", quantity="none")
<i>Int1d</i>	column (description="null", quantity="none")
<i>Int1d</i>	reset (description="null", quantity="none")
<i>Double2d</i>	readouts (description="null", quantity="none")

<i>table</i>	(<i>description="Status"</i>)
<i>dataset</i>	
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status paramet", quantity="none")
<i>Long1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Int1d</i>	BBID (description="Building block type", quantity="none")
<i>Int2d</i>	LBL (description="Label", quantity="none")
<i>Int2d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
<i>Int2d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
<i>Long2d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Bool2d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
<i>Int2d</i>	CPR (description="Chopper position", quantity="none")
<i>Int2d</i>	WPR (description="Filter wheel Position", quantity="none")
<i>Int2d</i>	BOLST (description="BOL-C status", quantity="none")
<i>Int2d</i>	CRDC (description="OBT clock tick counter since last time reset", quantity="none")
<i>Int2d</i>	CRDCCP (description="OBT clock tick counter in current chopper plate", quantity="none")
<i>Int2d</i>	DBID (description="Data Block ID", quantity="none")
<i>Int2d</i>	BSID (description="Bolometer Setup Identification", quantity="none")
<i>Bool2d</i>	DMCSEQACTIVE (description="Indicates if a DMC sequence executing", quantity="none")
<i>Int2d</i>	CHOPPERPLATEAU (description="Indicates the chopper plateau within a sequence", quantity="none")
<i>Int2d</i>	CALSOURCE (description="Chopper on Calibration source 1, 2 or off (0)", quantity="none")
<i>Int2d</i>	PIX (description="PIX counter for synchronisation to SPU housekeeping (CompressedEntHeader", quantity="none")
<i>Int2d</i>	RCX (description="Raw Channel Index in CompressedEntHeader", quantity="none")
<i>Int2d</i>	RESETCNT (description="Reset counter to identify frames belonging to a", quantity="none")
<i>Int1d</i>	BLOCKIDX (description="Reference to the BlockTable entry", quantity="none")
<i>composite</i>	(<i>description="Mask data stored in a table"</i>)
<i>Metadata</i>	
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")

LongParameter	number of samples (description="null")
StringParameter	camName (description="Name of the Camera")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
<i>table dataset</i>	(description="Mask data stored bit encoded in a table")
<i>Metadata</i>	
<i>Int1d</i>	detnum (description="null", quantity="none")
<i>Int1d</i>	row (description="null", quantity="none")
<i>Int1d</i>	column (description="null", quantity="none")
<i>Int1d</i>	reset (description="null", quantity="none")
<i>Int2d</i>	BLINDPIXELS (description="4 D Mask", quantity="none")

9.1.2. HPPAVGBS: Frames

<i>list context (type="HPPAVGBS", description="Frames")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Relative time offset")
DoubleParameter	Apid (description="null")
DoubleParameter	subType (description="null")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="null")
LongParameter	qflag_pacs_phot_red_FailedSPUBuffer (description="null")
LongParameter	qflag_pacs_phot_blue_FailedSPUBuffer (description="null")
StringParameter	fileName (description="null")
StringParameter	qflag_BPSCISAT_p (description="null")
DoubleParameter	qflag_BPSCISAT_p_v (description="null")
<i>product</i>	(type="HPPAVGBS", description="Frames")

<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Relative time offset")
DoubleParameter	Apid (description="null")
DoubleParameter	subType (description="null")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="null")
LongParameter	qflag_pacs_phot_red_FailedSPUBuffer (description="null")
LongParameter	qflag_pacs_phot_blue_FailedSPUBuffer (description="null")
StringParameter	fileName (description="null")
StringParameter	qflag_BPSCISAT_p (description="null")
DoubleParameter	qflag_BPSCISAT_p_v (description="null")
<i>array</i> <i>dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>table</i> <i>dataset</i>	(description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status paramet", quantity="none")
<i>Long1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Long1d</i>	BBID (description="Building block type", quantity="none")
<i>Long1d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Int1d</i>	CPR (description="Chopper position", quantity="none")
<i>Int1d</i>	WPR (description="Filter wheel Position", quantity="none")

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<i>Int1d</i>	CRDC (description="OBT clock tick counter since last time reset", quantity="none")
<i>Int1d</i>	CRDCCP (description="OBT clock tick counter in current chopper plate", quantity="none")
<i>Int1d</i>	DBID (description="Data Block ID", quantity="none")
<i>Bool1d</i>	DMCSEQACTIVE (description="Indicates if a DMC sequence executing", quantity="none")
<i>Int1d</i>	CALSOURCE (description="Chopper on Calibration source 1, 2 or off (0)", quantity="none")
<i>String1d</i>	BAND (description="Wavelength Band", quantity="none")
<i>Int1d</i>	BBTYPE (description="Building Block Type", quantity="none")
<i>Int1d</i>	BBSEQCNT (description="Building Block Sequence Count", quantity="none")
<i>Int1d</i>	DP_WHICH_OBCP (description="OBCP Number", quantity="none")
<i>Double1d</i>	CHOPFPUANGLE (description="chopper angle in degrees wrt. FPU", quantity="none")
<i>Double1d</i>	CHOPSKYANGLE (description="chopper angle in arc mins wrt. sky", quantity="none")
<i>Double1d</i>	RaArray (description="RA", quantity="none")
<i>Double1d</i>	DecArray (description="Declination", quantity="none")
<i>Double1d</i>	RaArrayErr (description="RA Error", quantity="none")
<i>Double1d</i>	DecArrayErr (description="Declination Error", quantity="none")
<i>String1d</i>	Mode (description="Pointing Mode", quantity="none")
<i>Long1d</i>	RasterLineNum (description="Pointing Raster Line Number", quantity="none")
<i>Long1d</i>	RasterColumnNum (description="Pointing Raster Column Number", quantity="none")
<i>Long1d</i>	NodCycleNum (description="Pointing Nod Cycle Number", quantity="none")
<i>Bool1d</i>	OnTarget (description="On Target flag", quantity="none")
<i>Bool1d</i>	AbPosId (description="onRaster and offRaster Nod information", quantity="none")
<i>Bool1d</i>	IsSlew (description="Slew of the Sattelite", quantity="none")
<i>Bool1d</i>	IsOffPos (description="Off Position flag", quantity="none")
<i>Long1d</i>	ScanLineNumber (description="Scan Line number", quantity="none")
<i>String1d</i>	AcmsMode (description="ACMS mode", quantity="none")
<i>String1d</i>	Aperture (description="Aperture", quantity="none")
<i>Bool1d</i>	IsAPosition (description="is A position", quantity="none")
<i>Bool1d</i>	IsBPosition (description="is B position", quantity="none")
<i>Bool1d</i>	IsOutOfField (description="Is Out of Field", quantity="none")
<i>Bool1d</i>	IsSerendipity (description="is serendipity mode", quantity="none")
<i>Int1d</i>	DithPos (description="Dithering Position", quantity="none")
<i>Int1d</i>	OnRasterPosCount (description="On Raster Position Counter", quantity="none")
<i>Int1d</i>	OffRasterPosCount (description="Off Raster Position Counter", quantity="none")
<i>Int1d</i>	NrChopperPlateau (description="Number of valid readouts per chopper plateau", quantity="none")

	<i>Int1d</i>	UnCleanChop (description="Continuous numbering of Plateaus", quantity="none")
<i>table dataset</i>		(description="BlockTable")
	<i>Metadata</i>	
	StringParameter	MODE (description="PACS Mode")
	<i>Int1d</i>	Obcp (description="OBCP", quantity="none")
	<i>Int1d</i>	DMSActive (description="Dec Mec Sequence Active", quantity="none")
	<i>Int1d</i>	ChopperPlateau (description="Chopper Plateau", quantity="none")
	<i>Int1d</i>	CalSource (description="Calibration Source", quantity="none")
	<i>Int1d</i>	Filter (description="Filter", quantity="none")
	<i>Int1d</i>	StartIdx (description="Start Index", quantity="none")
	<i>Int1d</i>	EndIdx (description="End Index (NOT INCLUSIVE)", quantity="none")
	<i>Int1d</i>	NrIdx (description="Number of Indexes", quantity="none")
	<i>Double1d</i>	Raster (description="Raster Position", quantity="none")
	<i>String1d</i>	Id (description="Block ID", quantity="none")
	<i>String1d</i>	Description (description="Verbose Description", quantity="none")
	<i>Int1d</i>	OnSource (description="On-Source Label", quantity="none")
	<i>Int1d</i>	OffSource1 (description="First Off-Source Label", quantity="none")
	<i>Int1d</i>	OffSource2 (description="Second Off-Source Label", quantity="none")
	<i>Int1d</i>	NrAvg (description="Average number", quantity="none")
<i>array dataset</i>		(description="null")
	<i>Metadata</i>	
	<i>Bool2d</i>	(description="null", quantity="none")
<i>composite</i>		(description="Mask data stored in bit encoded arrays")
	<i>Metadata</i>	
	LongParameter	number of rows (description="null")
	LongParameter	number of columns (description="null")
	LongParameter	number of resets (description="null")
	LongParameter	number of samples (description="null")
	StringParameter	camName (description="Name of the Camera")
	LongParameter	detRow (description="Number of detector rows")
	LongParameter	detCol (description="Number of detector columns")
<i>array dataset</i>		(description="Mask that flags the blind pixels")
	<i>Metadata</i>	
	LongParameter	Mask dimension (description="null")
	LongParameter	number of rows (description="null")
	LongParameter	number of columns (description="null")
	LongParameter	number of resets (description="null")
	LongParameter	number of samples (description="null")
	<i>Int3d</i>	(description="Mask that flags the blind pixels", quantity="none")
<i>array dataset</i>		(description="Bad pixels")

<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="Bad pixels", quantity="none")
<i>array dataset</i>	(description="saturated pixels")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="saturated pixels", quantity="none")
<i>array dataset</i>	(description="Contains OR operation on all masks.")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="Contains OR operation on all masks.", quantity="none")
<i>array dataset</i>	(description="frames that are affected by the chopper transitions")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="frames that are affected by the chopper transitions", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="none")
<i>array dataset</i>	(description="null")

<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Int3d</i>	(description="null", quantity="none")

9.1.3. HPPAVGRS: Frames

<i>list context (type="HPPAVGRS", description="Frames")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Relative time offset")
DoubleParameter	Apid (description="null")
DoubleParameter	subType (description="null")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="null")
LongParameter	qflag_pacs_phot_red_FailedSPUBuffer (description="null")
LongParameter	qflag_pacs_phot_blue_FailedSPUBuffer (description="null")
StringParameter	fileName (description="null")
StringParameter	qflag_RPSCISAT_p (description="null")
DoubleParameter	qflag_RPSCISAT_p_v (description="null")
<i>product (type="HPPAVGRS", description="Frames")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")

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StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Relative time offset")
DoubleParameter	Apid (description="null")
DoubleParameter	subType (description="null")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="null")
LongParameter	qflag_pacs_phot_red_FailedSPUBuffer (description="null")
LongParameter	qflag_pacs_phot_blue_FailedSPUBuffer (description="null")
StringParameter	fileName (description="null")
StringParameter	qflag_RPSCISAT_p (description="null")
DoubleParameter	qflag_RPSCISAT_p_v (description="null")
<i>array</i> <i>dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>table</i> <i>dataset</i>	(description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status paramet", quantity="none")
<i>Long1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Long1d</i>	BBID (description="Building block type", quantity="none")
<i>Long1d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Int1d</i>	CPR (description="Chopper position", quantity="none")
<i>Int1d</i>	WPR (description="Filter wheel Position", quantity="none")
<i>Int1d</i>	CRDC (description="OBT clock tick counter since last time reset", quantity="none")
<i>Int1d</i>	CRDCCP (description="OBT clock tick counter in current chopper plate", quantity="none")
<i>Int1d</i>	DBID (description="Data Block ID", quantity="none")

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<i>BoolId</i>	DMCSEQACTIVE (description="Indicates if a DMC sequence executing", quantity="none")
<i>IntId</i>	CALSOURCE (description="Chopper on Calibration source 1, 2 or off (0)", quantity="none")
<i>StringId</i>	BAND (description="Wavelength Band", quantity="none")
<i>IntId</i>	BBTYPE (description="Building Block Type", quantity="none")
<i>IntId</i>	BBSEQCNT (description="Building Block Sequence Count", quantity="none")
<i>IntId</i>	DP_WHICH_OBCP (description="OBCP Number", quantity="none")
<i>DoubleId</i>	CHOPFPUANGLE (description="chopper angle in degrees wrt. FPU", quantity="none")
<i>DoubleId</i>	CHOPSKYANGLE (description="chopper angle in arc mins wrt. sky", quantity="none")
<i>DoubleId</i>	RaArray (description="RA", quantity="none")
<i>DoubleId</i>	DecArray (description="Declination", quantity="none")
<i>DoubleId</i>	RaArrayErr (description="RA Error", quantity="none")
<i>DoubleId</i>	DecArrayErr (description="Declination Error", quantity="none")
<i>StringId</i>	Mode (description="Pointing Mode", quantity="none")
<i>LongId</i>	RasterLineNum (description="Pointing Raster Line Number", quantity="none")
<i>LongId</i>	RasterColumnNum (description="Pointing Raster Column Number", quantity="none")
<i>LongId</i>	NodCycleNum (description="Pointing Nod Cycle Number", quantity="none")
<i>BoolId</i>	OnTarget (description="On Target flag", quantity="none")
<i>BoolId</i>	AbPosId (description="onRaster and offRaster Nod information", quantity="none")
<i>BoolId</i>	IsSlew (description="Slew of the Sattelite", quantity="none")
<i>BoolId</i>	IsOffPos (description="Off Position flag", quantity="none")
<i>LongId</i>	ScanLineNumber (description="Scan Line number", quantity="none")
<i>StringId</i>	AcmsMode (description="ACMS mode", quantity="none")
<i>StringId</i>	Aperture (description="Aperture", quantity="none")
<i>BoolId</i>	IsAPosition (description="is A position", quantity="none")
<i>BoolId</i>	IsBPosition (description="is B position", quantity="none")
<i>BoolId</i>	IsOutOfField (description="Is Out of Field", quantity="none")
<i>BoolId</i>	IsSerendipity (description="is serendipity mode", quantity="none")
<i>IntId</i>	DithPos (description="Dithering Position", quantity="none")
<i>IntId</i>	OnRasterPosCount (description="On Raster Position Counter", quantity="none")
<i>IntId</i>	OffRasterPosCount (description="Off Raster Position Counter", quantity="none")
<i>IntId</i>	NrChopperPlateau (description="Number of valid readouts per chopper plateau", quantity="none")
<i>IntId</i>	UnCleanChop (description="Continuous numbering of Plateaus", quantity="none")
<i>table dataset</i>	(description="BlockTable")

<i>Metadata</i>	
StringParameter	MODE (description="PACS Mode")
<i>Int1d</i>	Obcp (description="OBCP", quantity="none")
<i>Int1d</i>	DMSActive (description="Dec Mec Sequence Active", quantity="none")
<i>Int1d</i>	ChopperPlateau (description="Chopper Plateau", quantity="none")
<i>Int1d</i>	CalSource (description="Calibration Source", quantity="none")
<i>Int1d</i>	Filter (description="Filter", quantity="none")
<i>Int1d</i>	StartIdx (description="Start Index", quantity="none")
<i>Int1d</i>	EndIdx (description="End Index (NOT INCLUSIVE)", quantity="none")
<i>Int1d</i>	NrIdx (description="Number of Indexes", quantity="none")
<i>Double1d</i>	Raster (description="Raster Position", quantity="none")
<i>String1d</i>	Id (description="Block ID", quantity="none")
<i>String1d</i>	Description (description="Verbose Description", quantity="none")
<i>Int1d</i>	OnSource (description="On-Source Label", quantity="none")
<i>Int1d</i>	OffSource1 (description="First Off-Source Label", quantity="none")
<i>Int1d</i>	OffSource2 (description="Second Off-Source Label", quantity="none")
<i>Int1d</i>	NrAvg (description="Average number", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Bool2d</i>	(description="null", quantity="none")
<i>composite</i>	(description="Mask data stored in bit encoded arrays")
<i>Metadata</i>	
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
StringParameter	camName (description="Name of the Camera")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
<i>array dataset</i>	(description="Mask that flags the blind pixels")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="Mask that flags the blind pixels", quantity="none")
<i>array dataset</i>	(description="Bad pixels")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")

LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
Int3d	(description="Bad pixels", quantity="none")
array dataset	(description="saturated pixels")
Metadata	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
Int3d	(description="saturated pixels", quantity="none")
array dataset	(description="Contains OR operation on all masks.")
Metadata	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
Int3d	(description="Contains OR operation on all masks.", quantity="none")
array dataset	(description="frames that are affected by the chopper transitions")
Metadata	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
Int3d	(description="frames that are affected by the chopper transitions", quantity="none")
array dataset	(description="null")
Metadata	
Double3d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Double3d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Double3d	(description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
array dataset	(description="null")

<i>Metadata</i>	
<i>Int3d</i>	(description="null", quantity="none")

9.1.4. HPPDMCBS

<i>product (type="HPPDMCBS", description="Unknown")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status paramet", quantity="none")
<i>Int1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Int1d</i>	BBID (description="Building block type", quantity="none")
<i>Int2d</i>	LBL (description="Label", quantity="none")
<i>Int2d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
<i>Int2d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
<i>Long2d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Int2d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
<i>Int2d</i>	CPR (description="Chopper position", quantity="none")
<i>Int2d</i>	WPR (description="Filter wheel Position", quantity="none")
<i>Int2d</i>	BOLST (description="BOL-C status", quantity="none")
<i>Int2d</i>	CRDC (description="OBT clock tick counter since last time reset)", quantity="none")
<i>Int2d</i>	CRDCCP (description="OBT clock tick counter in current chopper plate", quantity="none")

	<i>Int2d</i>	DBID (description="Data Block ID", quantity="none")
	<i>Int2d</i>	BSID (description="Bolometer Setup Identification", quantity="none")

9.1.5. HPPDMCRS

<i>product (type="HPPDMCRS", description="Unknown")</i>		
<i>Metadata</i>		
StringParameter	type	(description="Product Type Identification")
StringParameter	creator	(description="Generator of this product")
DateParameter	creationDate	(description="Creation date of this product")
StringParameter	description	(description="Name of this product")
StringParameter	instrument	(description="Instrument attached to this product")
StringParameter	modelName	(description="Model name attached to this product")
DateParameter	startDate	(description="Start date of this product")
DateParameter	endDate	(description="End date of this product")
LongParameter	detRow	(description="Number of detector rows")
LongParameter	detCol	(description="Number of detector columns")
StringParameter	camName	(description="Name of the Camera")
StringParameter	fileName	(description="null")
<i>table dataset (description="Status")</i>		
<i>Metadata</i>		
StringParameter	MODE	(description="null")
LongParameter	DIM1	(description="Number of measures per status parameter")
LongParameter	DIM2	(description="Number of measures per status parameter")
<i>Int1d</i>	RESETINDEX	(description="Indicates the reset index of the status paramet", quantity="none")
<i>Int1d</i>	OBSID	(description="Identifier of the observation", quantity="none")
<i>Int1d</i>	BBID	(description="Building block type", quantity="none")
<i>Int2d</i>	LBL	(description="Label", quantity="none")
<i>Int2d</i>	TMP1	(description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
<i>Int2d</i>	TMP2	(description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
<i>Long2d</i>	FINETIME	(description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Int2d</i>	VLD	(description="Validity flag set by DecMec", quantity="none")
<i>Int2d</i>	CPR	(description="Chopper position", quantity="none")
<i>Int2d</i>	WPR	(description="Filter wheel Position", quantity="none")
<i>Int2d</i>	BOLST	(description="BOL-C status", quantity="none")
<i>Int2d</i>	CRDC	(description="OBT clock tick counter since last time reset)", quantity="none")
<i>Int2d</i>	CRDCCP	(description="OBT clock tick counter in current chopper plate", quantity="none")

	<i>Int2d</i>	DBID (description="Data Block ID", quantity="none")
	<i>Int2d</i>	BSID (description="Bolometer Setup Identification", quantity="none")

9.1.6. HPPHKS

<i>product (type="HPPHK", description="HPPHKS")</i>		
<i>Metadata</i>		
StringParameter		type (description="null")
StringParameter		creator (description="Generator of this product")
DateParameter		creationDate (description="Creation date of this product")
StringParameter		description (description="Name of this product")
StringParameter		instrument (description="PACS Level 0 Product")
StringParameter		modelName (description="Model")
DateParameter		startDate (description="Start Date")
DateParameter		endDate (description="End Date")
StringParameter		fileName (description="null")
StringParameter		missionConfiguration (description="Mission Configuration")
StringParameter		formatVersion (description="Format Version of the Products")
LongParameter		obsid (description="Observation ID")
LongParameter		obsType (description="null")
LongParameter		obsCount (description="OBSID")
<i>table dataset (description="Generated from PacketSequence \$Revision: 1.3 \$")</i>		
<i>Metadata</i>		
StringParameter		revision (description="PacketSequence Revision from which this data was generated.")
<i>LongId</i>		Time (description="Time [microseconds]", quantity="microsecond [1.0E-6 s]")
<i>LongId</i>		DM_DSIM_ERROR (description="DM_DSIM_ERROR [raw]", quantity="none")
<i>StringId</i>		DM_CS1C_SYNCHRO (description="DM_CS1C_SYNCHRO", quantity="none")
<i>DoubleId</i>		BOL_I_VSS_B_3 (description="BOL_I_VSS_B_3 [eng, A]", quantity="none")
<i>DoubleId</i>		BOL_I_VSS_B_2 (description="BOL_I_VSS_B_2 [eng, A]", quantity="none")
<i>LongId</i>		DP_1_8_REJECTED (description="DP_1_8_REJECTED [raw]", quantity="none")
<i>DoubleId</i>		BOL_I_VSS_B_1 (description="BOL_I_VSS_B_1 [eng, A]", quantity="none")
<i>LongId</i>		SPL_PIX (description="SPL_PIX [raw]", quantity="none")
<i>LongId</i>		SPS_LLC_ERROR (description="SPS_LLC_ERROR [raw]", quantity="none")
<i>StringId</i>		DP_DMC_CMD (description="DP_DMC_CMD", quantity="none")
<i>DoubleId</i>		

	BOL_I_VSS_B_4 (description="BOL_I_VSS_B_4 [eng, A]", quantity="none")
<i>StringId</i>	DM_FPU_CH_TS_ST (description="DM_FPU_CH_TS_ST", quantity="none")
<i>DoubleId</i>	BOL_VSM SH_R_1 (description="BOL_VSM SH_R_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VSM SH_R_2 (description="BOL_VSM SH_R_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_FWSC_TASK_WR (description="DM_FWSC_TASK_WR", quantity="none")
<i>LongId</i>	DM_PM_SF_IND (description="DM_PM_SF_IND [raw]", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_AL (description="DM_HKCO_TASK_AL", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_1R (description="BOL_I_HEATER_1R [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_PSU_1 (description="BOL_TEMP_PSU_1 [eng, degC]", quantity="none")
<i>LongId</i>	DM_DSIM_SPARE7 (description="DM_DSIM_SPARE7 [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_PSU_2 (description="BOL_TEMP_PSU_2 [eng, degC]", quantity="none")
<i>StringId</i>	DM_BPE_LINK (description="DM_BPE_LINK", quantity="none")
<i>StringId</i>	DM_FWPC_POWER (description="DM_FWPC_POWER", quantity="none")
<i>StringId</i>	DM_FPU_FWS_TS_S (description="DM_FPU_FWS_TS_S", quantity="none")
<i>DoubleId</i>	BOL_HEAT_EV_SWT (description="BOL_HEAT_EV_SWT [eng, A]", quantity="none")
<i>StringId</i>	DM_SEQ_IDLE (description="DM_SEQ_IDLE", quantity="none")
<i>DoubleId</i>	BOL_VH_BLIND_R1 (description="BOL_VH_BLIND_R1 [eng, V]", quantity="none")
<i>StringId</i>	DM_DRC_TASK_AL (description="DM_DRC_TASK_AL", quantity="none")
<i>DoubleId</i>	BOL_VH_BLIND_R2 (description="BOL_VH_BLIND_R2 [eng, V]", quantity="none")
<i>StringId</i>	DM_CS1C_POWER (description="DM_CS1C_POWER", quantity="none")
<i>StringId</i>	DM_HKD_ERR_NS (description="DM_HKD_ERR_NS", quantity="none")
<i>LongId</i>	SPL_LLC_ERROR (description="SPL_LLC_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DPU_SEN_STAT (description="DM_DPU_SEN_STAT [raw]", quantity="none")
<i>LongId</i>	DM_BOL_CTRL_STA (description="DM_BOL_CTRL_STA [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_1 (description="BOL_TEMP_R_1 [eng, degC]", quantity="none")

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<i>DoubleId</i>	BOL_TEMP_R_2 (description="BOL_TEMP_R_2 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_3 (description="BOL_TEMP_R_3 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_4 (description="BOL_TEMP_R_4 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_2R (description="BOL_I_HEATER_2R [eng, A]", quantity="none")
<i>LongId</i>	DM_FWSC_ERROR (description="DM_FWSC_ERROR [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_5 (description="BOL_TEMP_R_5 [eng, degC]", quantity="none")
<i>StringId</i>	DM_DSIM_TASK_AL (description="DM_DSIM_TASK_AL", quantity="none")
<i>StringId</i>	DP_DMC_HK (description="DP_DMC_HK", quantity="none")
<i>LongId</i>	DM_SW_GLOBAL_ST (description="DM_SW_GLOBAL_ST [raw]", quantity="none")
<i>LongId</i>	DM_BOL_REC_PAC (description="DM_BOL_REC_PAC [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDL_BU_R_1 (description="BOL_VDL_BU_R_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDL_BU_R_2 (description="BOL_VDL_BU_R_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_CS2_CTRL_STA (description="DM_CS2_CTRL_STA [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF16 (description="DM_LAST_ER_BF16 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF10 (description="DM_LAST_ER_BF10 [raw]", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_5V (description="DM_REF_VOLT_5V [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF11 (description="DM_LAST_ER_BF11 [raw]", quantity="none")
<i>LongId</i>	SPS_PIX (description="SPS_PIX [raw]", quantity="none")
<i>StringId</i>	DM_GC_HOM_PROG (description="DM_GC_HOM_PROG", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF14 (description="DM_LAST_ER_BF14 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF15 (description="DM_LAST_ER_BF15 [raw]", quantity="none")
<i>StringId</i>	DM_CS1C_ERR_NS (description="DM_CS1C_ERR_NS", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF12 (description="DM_LAST_ER_BF12 [raw]", quantity="none")
<i>DoubleId</i>	DM_CS2_TARGET (description="DM_CS2_TARGET [eng, Ohm]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF13 (description="DM_LAST_ER_BF13 [raw]", quantity="none")

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<i>StringId</i>	DM_DPUR_TASK_WR (description="DM_DPUR_TASK_WR", quantity="none")
<i>LongId</i>	DM_CHOP_PID_ERR (description="DM_CHOP_PID_ERR [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPS_PACK (description="DP_COM_SPS_PACK [raw]", quantity="none")
<i>DoubleId</i>	DP_VOL_5P (description="DP_VOL_5P [eng, V]", quantity="none")
<i>StringId</i>	DM_CS2C_TASK_WR (description="DM_CS2C_TASK_WR", quantity="none")
<i>LongId</i>	DM_PLL_RES_LO (description="DM_PLL_RES_LO [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_LINK (description="DM_DPUS_LINK", quantity="none")
<i>DoubleId</i>	DP_VOL_25P (description="DP_VOL_25P [eng, V]", quantity="none")
<i>LongId</i>	DP_COM_DMC_NACK (description="DP_COM_DMC_NACK [raw]", quantity="none")
<i>StringId</i>	DM_GC_SYNCHRO (description="DM_GC_SYNCHRO", quantity="none")
<i>StringId</i>	DM_FWPC_POSC_B (description="DM_FWPC_POSC_B", quantity="none")
<i>StringId</i>	DM_FWPC_POSC_A (description="DM_FWPC_POSC_A", quantity="none")
<i>StringId</i>	DP_INIT (description="DP_INIT", quantity="none")
<i>LongId</i>	DM_BLUE_PAC_ENC (description="DM_BLUE_PAC_ENC [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_ERR_NS (description="DM_FWSC_ERR_NS", quantity="none")
<i>StringId</i>	DM_CC_COMMUT (description="DM_CC_COMMUT", quantity="none")
<i>StringId</i>	DM_CS2C_PID (description="DM_CS2C_PID", quantity="none")
<i>StringId</i>	DM_DBC_TASK_AL (description="DM_DBC_TASK_AL", quantity="none")
<i>LongId</i>	SPL_MEM_CNTS (description="SPL_MEM_CNTS [raw]", quantity="none")
<i>LongId</i>	DM_HK_DIAG_PERI (description="DM_HK_DIAG_PERI [raw]", quantity="none")
<i>LongId</i>	SPL_SUBVERSION (description="SPL_SUBVERSION [raw]", quantity="none")
<i>LongId</i>	DM_DBR_ERROR (description="DM_DBR_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_HEA (description="DP_EV_BOL_I_HEA", quantity="none")
<i>StringId</i>	DP_EV_BOL_BIAS (description="DP_EV_BOL_BIAS", quantity="none")
<i>DoubleId</i>	DM_SPU_LWL_TEMP (description="DM_SPU_LWL_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_CC_PID (description="DM_CC_PID", quantity="none")

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<i>LongId</i>	DP_EVENT_LOST (description="DP_EVENT_LOST [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_VP_CUR (description="DM_SPU_VP_CUR [eng, mA]", quantity="none")
<i>LongId</i>	DM_CC_SPARE1B (description="DM_CC_SPARE1B [raw]", quantity="none")
<i>LongId</i>	DP_COM_REC_DPU (description="DP_COM_REC_DPU [raw]", quantity="none")
<i>LongId</i>	DM_CC_SPARE1A (description="DM_CC_SPARE1A [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_ERR_NS (description="DM_DPUS_ERR_NS", quantity="none")
<i>DoubleId</i>	BOL_VGL_R_1 (description="BOL_VGL_R_1 [eng, V]", quantity="none")
<i>LongId</i>	DP_SW_SUBVERS_ID (description="DP_SW_SUBVERS_ID [raw]", quantity="none")
<i>DoubleId</i>	BOL_VGL_R_2 (description="BOL_VGL_R_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_DBC_TASK_WR (description="DM_DBC_TASK_WR", quantity="none")
<i>LongId</i>	SPS_RCX (description="SPS_RCX [raw]", quantity="none")
<i>StringId</i>	DM_CS1C_DOWN (description="DM_CS1C_DOWN", quantity="none")
<i>StringId</i>	DM_FWSC_MOVING (description="DM_FWSC_MOVING", quantity="none")
<i>LongId</i>	DM_SEQ_LABEL (description="DM_SEQ_LABEL [raw]", quantity="none")
<i>StringId</i>	DP_UNIT (description="DP_UNIT", quantity="none")
<i>LongId</i>	SPS_PAR_MONITOR (description="SPS_PAR_MONITOR [raw]", quantity="none")
<i>StringId</i>	DM_DBR_TASK_AL (description="DM_DBR_TASK_AL", quantity="none")
<i>LongId</i>	DM_SEQ_ERROR (description="DM_SEQ_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DET_SIM_PER (description="DM_DET_SIM_PER [raw]", quantity="none")
<i>DoubleId</i>	BOL_VSS_BU_R_2 (description="BOL_VSS_BU_R_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_CAL_SRC_TEMP (description="DM_CAL_SRC_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_DSIM_R_SIMUL (description="DM_DSIM_R_SIMUL", quantity="none")
<i>StringId</i>	DM_DBC_ERR_NS (description="DM_DBC_ERR_NS", quantity="none")
<i>DoubleId</i>	BOL_VSS_BU_R_1 (description="BOL_VSS_BU_R_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_DRC_POWER (description="DM_DRC_POWER", quantity="none")

<i>StringId</i>	DM_SEQ_TASK_WR (description="DM_SEQ_TASK_WR", quantity="none")
<i>StringId</i>	DM_FWSP_CUR_POS (description="DM_FWSP_CUR_POS", quantity="none")
<i>LongId</i>	DM_CC_ERROR (description="DM_CC_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_DPUR_ERR_NS (description="DM_DPUR_ERR_NS", quantity="none")
<i>LongId</i>	DM_HKD_ERROR (description="DM_HKD_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_SPUS_CMD (description="DP_SPUS_CMD", quantity="none")
<i>LongId</i>	DM_CC_SPARE1C (description="DM_CC_SPARE1C [raw]", quantity="none")
<i>DoubleId</i>	BOL_CKTRIL_R_B1 (description="BOL_CKTRIL_R_B1 [eng, V]", quantity="none")
<i>StringId</i>	DP_1553_HANDLER (description="DP_1553_HANDLER", quantity="none")
<i>DoubleId</i>	DM_SPU_VCC_VOL (description="DM_SPU_VCC_VOL [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_CKTRIL_R_B2 (description="BOL_CKTRIL_R_B2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDDPRO_BUR2 (description="BOL_VDDPRO_BUR2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_CKTRIL_R_B3 (description="BOL_CKTRIL_R_B3 [eng, V]", quantity="none")
<i>LongId</i>	DM_DPUS_SPARE4 (description="DM_DPUS_SPARE4 [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDDPRO_BUR1 (description="BOL_VDDPRO_BUR1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_CKTRIL_R_B4 (description="BOL_CKTRIL_R_B4 [eng, V]", quantity="none")
<i>LongId</i>	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")
<i>DoubleId</i>	DM_GRATING_TEMP (description="DM_GRATING_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_CS2C_SPARE4 (description="DM_CS2C_SPARE4 [raw]", quantity="none")
<i>DoubleId</i>	BOL_VGG_B_3 (description="BOL_VGG_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VGG_B_2 (description="BOL_VGG_B_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VGG_B_4 (description="BOL_VGG_B_4 [eng, V]", quantity="none")
<i>StringId</i>	DP_TM_RATE (description="DP_TM_RATE", quantity="none")
<i>DoubleId</i>	BOL_VGG_B_1 (description="BOL_VGG_B_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_CS2C_SPARE1 (description="DM_CS2C_SPARE1 [raw]", quantity="none")

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<i>StringId</i>	DM_DRR_SIM_TIME (description="DM_DRR_SIM_TIME", quantity="none")
<i>StringId</i>	DM_DPUR_LINK (description="DM_DPUR_LINK", quantity="none")
<i>StringId</i>	DM_CC_SYNCHRO (description="DM_CC_SYNCHRO", quantity="none")
<i>LongId</i>	DM_RED_ENC_PAC (description="DM_RED_ENC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_DMC_LINK (description="DP_DMC_LINK", quantity="none")
<i>DoubleId</i>	BOL_I_VSS_R_1 (description="BOL_I_VSS_R_1 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_VSS_R_2 (description="BOL_I_VSS_R_2 [eng, A]", quantity="none")
<i>StringId</i>	DM_RPE_LINK (description="DM_RPE_LINK", quantity="none")
<i>StringId</i>	DM_RSPU_TR_MODE (description="DM_RSPU_TR_MODE", quantity="none")
<i>StringId</i>	DP_EV_BOL_V_PWR (description="DP_EV_BOL_V_PWR", quantity="none")
<i>StringId</i>	DP_SPUL_CMD (description="DP_SPUL_CMD", quantity="none")
<i>LongId</i>	DM_CS1_CTRL_STA (description="DM_CS1_CTRL_STA [raw]", quantity="none")
<i>LongId</i>	DP_SPUS_LINK_DE (description="DP_SPUS_LINK_DE [raw]", quantity="none")
<i>LongId</i>	DM_OBT_COUNT (description="DM_OBT_COUNT [raw]", quantity="none")
<i>DoubleId</i>	DP_T (description="DP_T [eng, degC]", quantity="none")
<i>LongId</i>	DM_DECB_CTRL_ST (description="DM_DECB_CTRL_ST [raw]", quantity="none")
<i>StringId</i>	DM_CS1C_TASK_AL (description="DM_CS1C_TASK_AL", quantity="none")
<i>LongId</i>	DM_FWSC_SPARE1B (description="DM_FWSC_SPARE1B [raw]", quantity="none")
<i>StringId</i>	DM_DSIM_BOL_SIM (description="DM_DSIM_BOL_SIM", quantity="none")
<i>StringId</i>	DM_CC_LOOP (description="DM_CC_LOOP", quantity="none")
<i>StringId</i>	DP_STABLE_DEC (description="DP_STABLE_DEC", quantity="none")
<i>StringId</i>	SPS_DMC_ERROR (description="SPS_DMC_ERROR", quantity="none")
<i>DoubleId</i>	BOL_VDECXH_B_1 (description="BOL_VDECXH_B_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDL_BU_B_1 (description="BOL_VDL_BU_B_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDECXH_B_3 (description="BOL_VDECXH_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDL_BU_B_3 (description="BOL_VDL_BU_B_3 [eng, V]", quantity="none")

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<i>DoubleId</i>	BOL_VDECXH_B_2 (description="BOL_VDECXH_B_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDL_BU_B_2 (description="BOL_VDL_BU_B_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_I_VSS_BU_R1 (description="BOL_I_VSS_BU_R1 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_VSS_BU_R2 (description="BOL_I_VSS_BU_R2 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_VDECXH_B_4 (description="BOL_VDECXH_B_4 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDL_BU_B_4 (description="BOL_VDL_BU_B_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_FWGRAT_HALLB (description="DM_FWGRAT_HALLB [raw]", quantity="none")
<i>LongId</i>	DM_GRAT_CUR_POS (description="DM_GRAT_CUR_POS [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDL_B_1 (description="BOL_VDL_B_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_FWGRAT_HALLA (description="DM_FWGRAT_HALLA [raw]", quantity="none")
<i>StringId</i>	DM_BC_LINK (description="DM_BC_LINK", quantity="none")
<i>LongId</i>	DM_CHOP_SETPOIN (description="DM_CHOP_SETPOIN [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDL_B_4 (description="BOL_VDL_B_4 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDL_B_3 (description="BOL_VDL_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDL_B_2 (description="BOL_VDL_B_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_GC_TASK_WR (description="DM_GC_TASK_WR", quantity="none")
<i>DoubleId</i>	BOL_VGG_R_1 (description="BOL_VGG_R_1 [eng, V]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP2 (description="DP_EV_BOL_I_SP2", quantity="none")
<i>DoubleId</i>	BOL_VGG_R_2 (description="BOL_VGG_R_2 [eng, V]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP1 (description="DP_EV_BOL_I_SP1", quantity="none")
<i>LongId</i>	DM_DPU_REC_PAC (description="DM_DPU_REC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_COUNTER_PHOT (description="DP_COUNTER_PHOT", quantity="none")
<i>LongId</i>	SPS_OBSID (description="SPS_OBSID [raw]", quantity="none")
<i>StringId</i>	SPL_SATUR_FLAG (description="SPL_SATUR_FLAG", quantity="none")
<i>DoubleId</i>	BOL_VSS_R_1 (description="BOL_VSS_R_1 [eng, V]", quantity="none")

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<i>LongId</i>	DM_SEQ_STATUS (description="DM_SEQ_STATUS [raw]", quantity="none")
<i>DoubleId</i>	BOL_VSS_R_2 (description="BOL_VSS_R_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_CS2_RES_VAL (description="DM_CS2_RES_VAL [eng, Ohm]", quantity="none")
<i>StringId</i>	DM_DRC_LINK (description="DM_DRC_LINK", quantity="none")
<i>DoubleId</i>	BOL_VSMSL_R_1 (description="BOL_VSMSL_R_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VSMSL_R_2 (description="BOL_VSMSL_R_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_FPU_S1_TS_ST (description="DM_FPU_S1_TS_ST", quantity="none")
<i>StringId</i>	DM_BC_TASK_AL (description="DM_BC_TASK_AL", quantity="none")
<i>LongId</i>	DP_COM_SPS_NACK (description="DP_COM_SPS_NACK [raw]", quantity="none")
<i>StringId</i>	DM_BC_ERR_NS (description="DM_BC_ERR_NS", quantity="none")
<i>StringId</i>	DM_DBC_POWER (description="DM_DBC_POWER", quantity="none")
<i>LongId</i>	DM_RED_PAC_ENC (description="DM_RED_PAC_ENC [raw]", quantity="none")
<i>LongId</i>	DM_DBC_SPARE3 (description="DM_DBC_SPARE3 [raw]", quantity="none")
<i>DoubleId</i>	DM_FPU_T2_TEMP (description="DM_FPU_T2_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_FWPC_POS_B (description="DM_FWPC_POS_B", quantity="none")
<i>StringId</i>	DM_FWPC_POS_A (description="DM_FWPC_POS_A", quantity="none")
<i>LongId</i>	DM_CS1C_ERROR (description="DM_CS1C_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_EV_DEC_SPC (description="DP_EV_DEC_SPC", quantity="none")
<i>LongId</i>	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
<i>StringId</i>	DM_GC_HOM_COMP (description="DM_GC_HOM_COMP", quantity="none")
<i>StringId</i>	DP_EVENT_DEC (description="DP_EVENT_DEC", quantity="none")
<i>LongId</i>	DP_COM_DMC (description="DP_COM_DMC [raw]", quantity="none")
<i>LongId</i>	DM_FWSC_SPARE1A (description="DM_FWSC_SPARE1A [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_MOVING (description="DM_FWPC_MOVING", quantity="none")

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<i>StringId</i>	DP_EV_BOL_T_WE (description="DP_EV_BOL_T_WE", quantity="none")
<i>StringId</i>	DM_CC_DOWN (description="DM_CC_DOWN", quantity="none")
<i>DoubleId</i>	DM_DCDC_TEMP (description="DM_DCDC_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_HKD_DIAGMODE (description="DM_HKD_DIAGMODE", quantity="none")
<i>StringId</i>	DM_CS2C_TASK_AL (description="DM_CS2C_TASK_AL", quantity="none")
<i>StringId</i>	DM_DRR_LINK (description="DM_DRR_LINK", quantity="none")
<i>StringId</i>	DP_AF_24_SPARE (description="DP_AF_24_SPARE", quantity="none")
<i>StringId</i>	DP_1553CHANNEL (description="DP_1553CHANNEL", quantity="none")
<i>DoubleId</i>	DM_FW_SPEC_TEMP (description="DM_FW_SPEC_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_FWPC_SPARE4 (description="DM_FWPC_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_DBR_SENDING (description="DM_DBR_SENDING", quantity="none")
<i>StringId</i>	DM_DRR_TASK_AL (description="DM_DRR_TASK_AL", quantity="none")
<i>LongId</i>	DM_SEQ_SPARE1 (description="DM_SEQ_SPARE1 [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDL_R_1 (description="BOL_VDL_R_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VSS_BU_B_4 (description="BOL_VSS_BU_B_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_SEQ_SPARE2 (description="DM_SEQ_SPARE2 [raw]", quantity="none")
<i>DoubleId</i>	BOL_VSS_BU_B_2 (description="BOL_VSS_BU_B_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_GC_PID (description="DM_GC_PID", quantity="none")
<i>StringId</i>	DM_GC_POWER (description="DM_GC_POWER", quantity="none")
<i>LongId</i>	DM_DPUS_ERROR (description="DM_DPUS_ERROR [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDL_R_2 (description="BOL_VDL_R_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_CS1_RES_VAL (description="DM_CS1_RES_VAL [eng, Ohm]", quantity="none")
<i>DoubleId</i>	BOL_VSS_BU_B_3 (description="BOL_VSS_BU_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VSS_BU_B_1 (description="BOL_VSS_BU_B_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_BSPU_TR_MODE (description="DM_BSPU_TR_MODE", quantity="none")

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<i>StringId</i>	DM_DRC_TASK_WR (description="DM_DRC_TASK_WR", quantity="none")
<i>LongId</i>	DP_COM_SPUS (description="DP_COM_SPUS [raw]", quantity="none")
<i>StringId</i>	DM_CC_ERR_NS (description="DM_CC_ERR_NS", quantity="none")
<i>DoubleId</i>	BOL_VSS_B_4 (description="BOL_VSS_B_4 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VSS_B_3 (description="BOL_VSS_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VSS_B_2 (description="BOL_VSS_B_2 [eng, V]", quantity="none")
<i>LongId</i>	DP_COM_SPUL (description="DP_COM_SPUL [raw]", quantity="none")
<i>DoubleId</i>	BOL_VSS_B_1 (description="BOL_VSS_B_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_DSIM_TIME (description="DM_DSIM_TIME", quantity="none")
<i>LongId</i>	DM_HKD_SPARE3 (description="DM_HKD_SPARE3 [raw]", quantity="none")
<i>LongId</i>	DP_AF_STATUS (description="DP_AF_STATUS [raw]", quantity="none")
<i>LongId</i>	DM_DSIM_SPARE1B (description="DM_DSIM_SPARE1B [raw]", quantity="none")
<i>LongId</i>	DM_DSIM_SPARE1A (description="DM_DSIM_SPARE1A [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_TASK_AL (description="DM_DPUS_TASK_AL", quantity="none")
<i>LongId</i>	DP_SPARE (description="DP_SPARE [raw]", quantity="none")
<i>LongId</i>	DM_CC_SPARE4 (description="DM_CC_SPARE4 [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEATER_SP (description="BOL_HEATER_SP [eng, A]", quantity="none")
<i>StringId</i>	DM_BR_ERR_NS (description="DM_BR_ERR_NS", quantity="none")
<i>LongId</i>	DM_PM_DF_IND (description="DM_PM_DF_IND [raw]", quantity="none")
<i>LongId</i>	DM_DPUR_ERROR (description="DM_DPUR_ERROR [raw]", quantity="none")
<i>DoubleId</i>	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")
<i>LongId</i>	DM_BOL_REC_STAT (description="DM_BOL_REC_STAT [raw]", quantity="none")
<i>StringId</i>	DM_BPE_ERR_NS (description="DM_BPE_ERR_NS", quantity="none")
<i>LongId</i>	SPS_INTEG_RAMPS (description="SPS_INTEG_RAMPS [raw]", quantity="none")

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<i>LongId</i>	DM_IRS_CNT (description="DM_IRS_CNT [raw]", quantity="none")
<i>LongId</i>	DM_CHOP_CUR_POS (description="DM_CHOP_CUR_POS [raw]", quantity="none")
<i>LongId</i>	DM_HKD_SPARE1 (description="DM_HKD_SPARE1 [raw]", quantity="none")
<i>StringId</i>	DM_GC_COMMUT (description="DM_GC_COMMUT", quantity="none")
<i>StringId</i>	DM_FWPH_CUR_POS (description="DM_FWPH_CUR_POS", quantity="none")
<i>StringId</i>	DM_DBC_LINK (description="DM_DBC_LINK", quantity="none")
<i>LongId</i>	DM_SEQ_POINTER (description="DM_SEQ_POINTER [raw]", quantity="none")
<i>LongId</i>	DM_BPE_ERROR (description="DM_BPE_ERROR [raw]", quantity="none")
<i>LongId</i>	SPL_CI (description="SPL_CI [raw]", quantity="none")
<i>LongId</i>	DM_DECR_CTRL_ST (description="DM_DECR_CTRL_ST [raw]", quantity="none")
<i>LongId</i>	DP_TC_LOST (description="DP_TC_LOST [raw]", quantity="none")
<i>DoubleId</i>	DP_VOL_15P (description="DP_VOL_15P [eng, V]", quantity="none")
<i>DoubleId</i>	DP_VOL_15N (description="DP_VOL_15N [eng, V]", quantity="none")
<i>LongId</i>	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_0V (description="DM_REF_VOLT_0V [eng, V]", quantity="none")
<i>StringId</i>	DP_COUNTER_DEC (description="DP_COUNTER_DEC", quantity="none")
<i>DoubleId</i>	BOL_VSMESH_B_4 (description="BOL_VSMESH_B_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_B_SPEC_READ (description="DM_B_SPEC_READ [raw]", quantity="none")
<i>DoubleId</i>	BOL_VSMESH_B_3 (description="BOL_VSMESH_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU_ST (description="BOL_TEMP_FPU_ST [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_VSMESH_B_2 (description="BOL_VSMESH_B_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VSMESH_B_1 (description="BOL_VSMESH_B_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_MIM_ST (description="DM_MIM_ST [raw]", quantity="none")
<i>LongId</i>	DP_COM_REJ_DPU (description="DP_COM_REJ_DPU [raw]", quantity="none")
<i>LongId</i>	DM_FW_PHOT_CTRL (description="DM_FW_PHOT_CTRL [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDDPRO_CLR2 (description="BOL_VDDPRO_CLR2 [eng, V]", quantity="none")

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<i>DoubleId</i>	BOL_VDDPRO_CLR1 (description="BOL_VDDPRO_CLR1 [eng, V]", quantity="none")
<i>LongId</i>	HD_APIID (description="HD_APIID [raw]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B4 (description="BOL_I_HEATER_B4 [eng, A]", quantity="none")
<i>StringId</i>	DM_CS2C_DOWN (description="DM_CS2C_DOWN", quantity="none")
<i>StringId</i>	DM_CS1C_COMMUT (description="DM_CS1C_COMMUT", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_FPU (description="DP_EV_BOL_I_FPU", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B2 (description="BOL_I_HEATER_B2 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B3 (description="BOL_I_HEATER_B3 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B1 (description="BOL_I_HEATER_B1 [eng, A]", quantity="none")
<i>LongId</i>	DM_DECB_REC_STA (description="DM_DECB_REC_STA [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV (description="BOL_TEMP_EV [eng, K]", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_WR (description="DM_HKCO_TASK_WR", quantity="none")
<i>LongId</i>	SPL_VID (description="SPL_VID [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_SWL_TEMP (description="DM_SPU_SWL_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DP_SPUL_LINK_PE (description="DP_SPUL_LINK_PE [raw]", quantity="none")
<i>StringId</i>	DP_SPS_LINK (description="DP_SPS_LINK", quantity="none")
<i>StringId</i>	DM_CS2C_SYNCHRO (description="DM_CS2C_SYNCHRO", quantity="none")
<i>StringId</i>	DM_FPU_S2_TS_ST (description="DM_FPU_S2_TS_ST", quantity="none")
<i>LongId</i>	DM_GRAT_CTRL_ST (description="DM_GRAT_CTRL_ST [raw]", quantity="none")
<i>LongId</i>	DM_HK_CTRL_STAT (description="DM_HK_CTRL_STAT [raw]", quantity="none")
<i>LongId</i>	DM_DBR_SPARE2 (description="DM_DBR_SPARE2 [raw]", quantity="none")
<i>StringId</i>	DM_CS1C_PID (description="DM_CS1C_PID", quantity="none")
<i>LongId</i>	DM_CHOP_PID_ACC (description="DM_CHOP_PID_ACC [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_VCC_CUR (description="DM_SPU_VCC_CUR [eng, A]", quantity="none")
<i>LongId</i>	DM_DECR_CTRL_PA (description="DM_DECR_CTRL_PA [raw]", quantity="none")
<i>DoubleId</i>	DM_FW_PHOT_TEMP (description="DM_FW_PHOT_TEMP [eng, K]", quantity="none")

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<i>LongId</i>	SPL_SAMP_CORR (description="SPL_SAMP_CORR [raw]", quantity="none")
<i>StringId</i>	DP_OBCP_MANAGER (description="DP_OBCP_MANAGER", quantity="none")
<i>DoubleId</i>	BOL_CKRLH_R_1 (description="BOL_CKRLH_R_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_CKRLH_R_2 (description="BOL_CKRLH_R_2 [eng, V]", quantity="none")
<i>StringId</i>	DP_IRQ3_TASK (description="DP_IRQ3_TASK", quantity="none")
<i>LongId</i>	DM_HKCO_SPARE5 (description="DM_HKCO_SPARE5 [raw]", quantity="none")
<i>StringId</i>	SPS_DMC_LINK (description="SPS_DMC_LINK", quantity="none")
<i>StringId</i>	DP_RED_SCIENCE (description="DP_RED_SCIENCE", quantity="none")
<i>StringId</i>	DM_DRR_TASK_WR (description="DM_DRR_TASK_WR", quantity="none")
<i>LongId</i>	DM_DPUR_SPARE4 (description="DM_DPUR_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPL_NACK (description="DP_COM_SPL_NACK [raw]", quantity="none")
<i>LongId</i>	DM_CS2C_SPARE1B (description="DM_CS2C_SPARE1B [raw]", quantity="none")
<i>LongId</i>	SID (description="SID [raw]", quantity="none")
<i>LongId</i>	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
<i>LongId</i>	DM_FWPC_SPARE1B (description="DM_FWPC_SPARE1B [raw]", quantity="none")
<i>LongId</i>	DM_FWPC_SPARE1A (description="DM_FWPC_SPARE1A [raw]", quantity="none")
<i>DoubleId</i>	SPL_CPUWORKLOAD (description="SPL_CPUWORKLOAD [eng, %]", quantity="none")
<i>LongId</i>	DP_GEN_TM_LOST (description="DP_GEN_TM_LOST [raw]", quantity="none")
<i>DoubleId</i>	BOL_CKRLB_B_1 (description="BOL_CKRLB_B_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ERR_ID (description="DM_LAST_ERR_ID [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDD_R_2 (description="BOL_VDD_R_2 [eng, V]", quantity="none")
<i>StringId</i>	DP_SPUS_LINK (description="DP_SPUS_LINK", quantity="none")
<i>StringId</i>	DM_SW_COPY_OBS (description="DM_SW_COPY_OBS", quantity="none")
<i>DoubleId</i>	BOL_VDD_R_1 (description="BOL_VDD_R_1 [eng, V]", quantity="none")
<i>StringId</i>	DP_HK_CHK (description="DP_HK_CHK", quantity="none")
<i>LongId</i>	DM_GC_LL_SC (description="DM_GC_LL_SC [raw]", quantity="none")

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<i>StringId</i>	DM_DRC_ERR_NS (description="DM_DRC_ERR_NS", quantity="none")
<i>LongId</i>	DM_RPE_SPARE4 (description="DM_RPE_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_DRC_ERROR (description="DM_DRC_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DP_WORK_LOAD (description="DP_WORK_LOAD [eng, %]", quantity="none")
<i>LongId</i>	SPL_OBSID (description="SPL_OBSID [raw]", quantity="none")
<i>StringId</i>	DP_DEC_LINK (description="DP_DEC_LINK", quantity="none")
<i>LongId</i>	DP_COM_DMC_PACK (description="DP_COM_DMC_PACK [raw]", quantity="none")
<i>StringId</i>	DM_GC_LL_LOCKED (description="DM_GC_LL_LOCKED", quantity="none")
<i>DoubleId</i>	BOL_VH_BLIND_B2 (description="BOL_VH_BLIND_B2 [eng, V]", quantity="none")
<i>StringId</i>	DP_EEPROM_PROT (description="DP_EEPROM_PROT", quantity="none")
<i>DoubleId</i>	BOL_VH_BLIND_B1 (description="BOL_VH_BLIND_B1 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF3 (description="DM_LAST_ER_BF3 [raw]", quantity="none")
<i>StringId</i>	DM_DSIM_B_SIMUL (description="DM_DSIM_B_SIMUL", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF4 (description="DM_LAST_ER_BF4 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF5 (description="DM_LAST_ER_BF5 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF6 (description="DM_LAST_ER_BF6 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF7 (description="DM_LAST_ER_BF7 [raw]", quantity="none")
<i>DoubleId</i>	BOL_VH_BLIND_B4 (description="BOL_VH_BLIND_B4 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF8 (description="DM_LAST_ER_BF8 [raw]", quantity="none")
<i>DoubleId</i>	BOL_VH_BLIND_B3 (description="BOL_VH_BLIND_B3 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF9 (description="DM_LAST_ER_BF9 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_2 (description="BOL_PWR_DIG_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_1 (description="BOL_PWR_DIG_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_4 (description="BOL_PWR_DIG_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_AL (description="DM_SEQ_TASK_AL", quantity="none")

<i>DoubleId</i>	BOL_PWR_DIG_3 (description="BOL_PWR_DIG_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_6 (description="BOL_PWR_DIG_6 [eng, V]", quantity="none")
<i>StringId</i>	DM_CS1C_TASK_WR (description="DM_CS1C_TASK_WR", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_5 (description="BOL_PWR_DIG_5 [eng, V]", quantity="none")
<i>LongId</i>	DM_FPU_T_SEN_ST (description="DM_FPU_T_SEN_ST [raw]", quantity="none")
<i>LongId</i>	DM_BOL_STATUS (description="DM_BOL_STATUS [raw]", quantity="none")
<i>StringId</i>	DM_BR_SIM_TIME (description="DM_BR_SIM_TIME", quantity="none")
<i>LongId</i>	SPS_SUBVERSION (description="SPS_SUBVERSION [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF2 (description="DM_LAST_ER_BF2 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_7 (description="BOL_PWR_DIG_7 [eng, V]", quantity="none")
<i>LongId</i>	DM_SEQ_WAIT_IND (description="DM_SEQ_WAIT_IND [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF1 (description="DM_LAST_ER_BF1 [raw]", quantity="none")
<i>LongId</i>	DM_DET_SIM_STAT (description="DM_DET_SIM_STAT [raw]", quantity="none")
<i>StringId</i>	DM_FPU_FWP_TS_S (description="DM_FPU_FWP_TS_S", quantity="none")
<i>LongId</i>	DP_1_2_REJECTED (description="DP_1_2_REJECTED [raw]", quantity="none")
<i>StringId</i>	DM_CS2C_POWER (description="DM_CS2C_POWER", quantity="none")
<i>StringId</i>	DM_CS2C_COMMUT (description="DM_CS2C_COMMUT", quantity="none")
<i>StringId</i>	DP_BUFFER_STAT (description="DP_BUFFER_STAT", quantity="none")
<i>StringId</i>	DM_FWSC_POSC_A (description="DM_FWSC_POSC_A", quantity="none")
<i>StringId</i>	DP_COUNTER_SPEC (description="DP_COUNTER_SPEC", quantity="none")
<i>StringId</i>	DM_FWSC_POSC_B (description="DM_FWSC_POSC_B", quantity="none")
<i>StringId</i>	SPS_SATUR_FLAG (description="SPS_SATUR_FLAG", quantity="none")
<i>LongId</i>	DM_BOL_READ_CNT (description="DM_BOL_READ_CNT [raw]", quantity="none")
<i>LongId</i>	DM_DECB_REC_PAC (description="DM_DECB_REC_PAC [raw]", quantity="none")

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<i>DoubleId</i>	BOL_GND_BU_B_3 (description="BOL_GND_BU_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_GND_BU_B_4 (description="BOL_GND_BU_B_4 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_GND_BU_B_1 (description="BOL_GND_BU_B_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_GND_BU_B_2 (description="BOL_GND_BU_B_2 [eng, V]", quantity="none")
<i>LongId</i>	DP_HK_LOST (description="DP_HK_LOST [raw]", quantity="none")
<i>StringId</i>	DP_CONTROLLER (description="DP_CONTROLLER", quantity="none")
<i>StringId</i>	DP_STABLE_SPL (description="DP_STABLE_SPL", quantity="none")
<i>StringId</i>	DM_HKD_TASK_AL (description="DM_HKD_TASK_AL", quantity="none")
<i>StringId</i>	DM_BPE_TASK_AL (description="DM_BPE_TASK_AL", quantity="none")
<i>StringId</i>	DM_DSIM_ERR_NS (description="DM_DSIM_ERR_NS", quantity="none")
<i>LongId</i>	SPL_PAR_MONITOR (description="SPL_PAR_MONITOR [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_POWER (description="DM_FWSC_POWER", quantity="none")
<i>StringId</i>	DM_SW_ALIVE (description="DM_SW_ALIVE", quantity="none")
<i>StringId</i>	DM_CC_POWER (description="DM_CC_POWER", quantity="none")
<i>DoubleId</i>	BOL_CKTRIL_R_R2 (description="BOL_CKTRIL_R_R2 [eng, V]", quantity="none")
<i>StringId</i>	DM_DBR_LINK (description="DM_DBR_LINK", quantity="none")
<i>DoubleId</i>	BOL_CKTRIL_R_R1 (description="BOL_CKTRIL_R_R1 [eng, V]", quantity="none")
<i>LongId</i>	DP_SPUS_LINK_PE (description="DP_SPUS_LINK_PE [raw]", quantity="none")
<i>StringId</i>	DP_STABLE_SPS (description="DP_STABLE_SPS", quantity="none")
<i>LongId</i>	DM_FWSC_SPARE4 (description="DM_FWSC_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_DRC_SPARE3 (description="DM_DRC_SPARE3 [raw]", quantity="none")
<i>LongId</i>	DM_GC_ERROR (description="DM_GC_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_AL (description="DM_DPUR_TASK_AL", quantity="none")
<i>DoubleId</i>	BOL_VRL_R_2 (description="BOL_VRL_R_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VRL_R_1 (description="BOL_VRL_R_1 [eng, V]", quantity="none")

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<i>StringId</i>	DM_BC_TASK_WR (description="DM_BC_TASK_WR", quantity="none")
<i>StringId</i>	DP_SPL_LINK (description="DP_SPL_LINK", quantity="none")
<i>StringId</i>	DM_FWPC_SEARCHA (description="DM_FWPC_SEARCHA", quantity="none")
<i>StringId</i>	DM_FWPC_SEARCHB (description="DM_FWPC_SEARCHB", quantity="none")
<i>LongId</i>	DM_DECR_REC_STA (description="DM_DECR_REC_STA [raw]", quantity="none")
<i>StringId</i>	DM_GC_ERR_NS (description="DM_GC_ERR_NS", quantity="none")
<i>StringId</i>	DM_DBR_SIM_TIME (description="DM_DBR_SIM_TIME", quantity="none")
<i>DoubleId</i>	BOL_VDDPRO_BUB1 (description="BOL_VDDPRO_BUB1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDDPRO_BUB2 (description="BOL_VDDPRO_BUB2 [eng, V]", quantity="none")
<i>LongId</i>	DP_COM_SPL_PACK (description="DP_COM_SPL_PACK [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDDPRO_BUB3 (description="BOL_VDDPRO_BUB3 [eng, V]", quantity="none")
<i>LongId</i>	DM_DBC_ERROR (description="DM_DBC_ERROR [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDDPRO_BUB4 (description="BOL_VDDPRO_BUB4 [eng, V]", quantity="none")
<i>StringId</i>	DM_HKCO_ERR_NS (description="DM_HKCO_ERR_NS", quantity="none")
<i>StringId</i>	DM_SEQ_OPTIONS (description="DM_SEQ_OPTIONS", quantity="none")
<i>DoubleId</i>	DM_DSP_TEMP (description="DM_DSP_TEMP [eng, K]", quantity="none")
<i>LongId</i>	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV_SWT (description="BOL_TEMP_EV_SWT [eng, K]", quantity="none")
<i>DoubleId</i>	DM_SPU_PS_TEMP (description="DM_SPU_PS_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_CS1C_SPARE1B (description="DM_CS1C_SPARE1B [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEAT_SP_SWT (description="BOL_HEAT_SP_SWT [eng, A]", quantity="none")
<i>LongId</i>	DM_BR_SPARE2 (description="DM_BR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_BOL_CTRL_PAC (description="DM_BOL_CTRL_PAC [raw]", quantity="none")
<i>LongId</i>	SPS_MEM_CNTS (description="SPS_MEM_CNTS [raw]", quantity="none")
<i>StringId</i>	SPL_DMC_LINK (description="SPL_DMC_LINK", quantity="none")

<i>StringId</i>	DM_RPE_TASK_AL (description="DM_RPE_TASK_AL", quantity="none")
<i>DoubleId</i>	BOL_VDECXH_R_1 (description="BOL_VDECXH_R_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_2 (description="DM_CUSTOM_ENT_2 [raw]", quantity="none")
<i>StringId</i>	DM_CC_UP (description="DM_CC_UP", quantity="none")
<i>StringId</i>	DM_GC_LL_UNLOCK (description="DM_GC_LL_UNLOCK", quantity="none")
<i>DoubleId</i>	BOL_CKRLR_R_2 (description="BOL_CKRLR_R_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_3 (description="DM_CUSTOM_ENT_3 [raw]", quantity="none")
<i>LongId</i>	DM_RPE_ERROR (description="DM_RPE_ERROR [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_6 (description="BOL_PWR_ANA_P_6 [eng, V]", quantity="none")
<i>LongId</i>	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
<i>StringId</i>	DP_SPUL_HK (description="DP_SPUL_HK", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_7 (description="BOL_PWR_ANA_P_7 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDECXH_R_2 (description="BOL_VDECXH_R_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_1 (description="DM_CUSTOM_ENT_1 [raw]", quantity="none")
<i>StringId</i>	DM_BR_TASK_WR (description="DM_BR_TASK_WR", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_4 (description="BOL_PWR_ANA_P_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_6 (description="DM_CUSTOM_ENT_6 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_5 (description="BOL_PWR_ANA_P_5 [eng, V]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_7 (description="DM_CUSTOM_ENT_7 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_4 (description="DM_CUSTOM_ENT_4 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_2 (description="BOL_PWR_ANA_P_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_GC_UP (description="DM_GC_UP", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_5 (description="DM_CUSTOM_ENT_5 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_3 (description="BOL_PWR_ANA_P_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VGL_BU_B_3 (description="BOL_VGL_BU_B_3 [eng, V]", quantity="none")

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<i>DoubleId</i>	BOL_PWR_ANA_P_1 (description="BOL_PWR_ANA_P_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VGL_BU_B_4 (description="BOL_VGL_BU_B_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_CS2C_ERR_NS (description="DM_CS2C_ERR_NS", quantity="none")
<i>DoubleId</i>	BOL_VGL_BU_B_1 (description="BOL_VGL_BU_B_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_8 (description="DM_CUSTOM_ENT_8 [raw]", quantity="none")
<i>LongId</i>	DM_OBSID (description="DM_OBSID [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_9 (description="DM_CUSTOM_ENT_9 [raw]", quantity="none")
<i>DoubleId</i>	BOL_VGL_BU_B_2 (description="BOL_VGL_BU_B_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VH_B_1 (description="BOL_VH_B_1 [eng, V]", quantity="none")
<i>StringId</i>	DP_EV_BOL_T_FPU (description="DP_EV_BOL_T_FPU", quantity="none")
<i>StringId</i>	DP_OBCP_RUN (description="DP_OBCP_RUN", quantity="none")
<i>DoubleId</i>	DM_CHOP_OUTPUT (description="DM_CHOP_OUTPUT [eng, mA]", quantity="none")
<i>LongId</i>	DM_DECB_CTRL_PA (description="DM_DECB_CTRL_PA [raw]", quantity="none")
<i>LongId</i>	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
<i>LongId</i>	DP_DEC_LINK_PE (description="DP_DEC_LINK_PE [raw]", quantity="none")
<i>LongId</i>	SPS_MAINT_RAMPS (description="SPS_MAINT_RAMPS [raw]", quantity="none")
<i>DoubleId</i>	BOL_CKRL_R_1 (description="BOL_CKRL_R_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_GC_DOWN (description="DM_GC_DOWN", quantity="none")
<i>DoubleId</i>	BOL_VH_B_4 (description="BOL_VH_B_4 [eng, V]", quantity="none")
<i>StringId</i>	SPL_DMC_ERROR (description="SPL_DMC_ERROR", quantity="none")
<i>DoubleId</i>	BOL_VH_B_2 (description="BOL_VH_B_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VH_B_3 (description="BOL_VH_B_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_SW_ERROR (description="DM_SW_ERROR [raw]", quantity="none")
<i>DoubleId</i>	BOL_VL_R_2 (description="BOL_VL_R_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VL_R_1 (description="BOL_VL_R_1 [eng, V]", quantity="none")

<i>DoubleId</i>	BOL_I_VSS_BU_B2 (description="BOL_I_VSS_BU_B2 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_VSS_BU_B1 (description="BOL_I_VSS_BU_B1 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_VSS_BU_B4 (description="BOL_I_VSS_BU_B4 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_VSS_BU_B3 (description="BOL_I_VSS_BU_B3 [eng, A]", quantity="none")
<i>StringId</i>	DM_FPU_GR_TS_ST (description="DM_FPU_GR_TS_ST", quantity="none")
<i>DoubleId</i>	DM_PSC_V4 (description="DM_PSC_V4 [eng, A]", quantity="none")
<i>DoubleId</i>	DM_PSC_V3 (description="DM_PSC_V3 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_PSC_V2 (description="DM_PSC_V2 [eng, mA]", quantity="none")
<i>StringId</i>	DM_CC_TASK_WR (description="DM_CC_TASK_WR", quantity="none")
<i>DoubleId</i>	DM_PSC_V1 (description="DM_PSC_V1 [eng, A]", quantity="none")
<i>LongId</i>	DM_DECR_REC_PAC (description="DM_DECR_REC_PAC [raw]", quantity="none")
<i>DoubleId</i>	BOL_VGL_B_3 (description="BOL_VGL_B_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_BPE_TASK_WR (description="DM_BPE_TASK_WR", quantity="none")
<i>LongId</i>	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
<i>DoubleId</i>	BOL_VGL_B_4 (description="BOL_VGL_B_4 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VGL_B_1 (description="BOL_VGL_B_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VGL_B_2 (description="BOL_VGL_B_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VH_R_1 (description="BOL_VH_R_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_CHOP_CTRL_ST (description="DM_CHOP_CTRL_ST [raw]", quantity="none")
<i>StringId</i>	DP_SPUL_LINK (description="DP_SPUL_LINK", quantity="none")
<i>DoubleId</i>	BOL_VH_R_2 (description="BOL_VH_R_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_HK_DIAG_STAT (description="DM_HK_DIAG_STAT [raw]", quantity="none")
<i>StringId</i>	DP_1355_HANDLER (description="DP_1355_HANDLER", quantity="none")
<i>StringId</i>	DM_FPU_CS_TS_ST (description="DM_FPU_CS_TS_ST", quantity="none")

<i>LongId</i>	DM_DM_DF_IND (description="DM_DM_DF_IND [raw]", quantity="none")
<i>DoubleId</i>	DM_CS1_TARGET (description="DM_CS1_TARGET [eng, Ohm]", quantity="none")
<i>LongId</i>	DM_FWPC_ERROR (description="DM_FWPC_ERROR [raw]", quantity="none")
<i>DoubleId</i>	BOL_VGL_BU_R_2 (description="BOL_VGL_BU_R_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VGL_BU_R_1 (description="BOL_VGL_BU_R_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_CKRLH_B_1 (description="BOL_CKRLH_B_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_CKRLH_B_2 (description="BOL_CKRLH_B_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU1 (description="BOL_TEMP_FPU1 [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_CKRLH_B_3 (description="BOL_CKRLH_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU2 (description="BOL_TEMP_FPU2 [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_CKRLH_B_4 (description="BOL_CKRLH_B_4 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_DAQ (description="BOL_TEMP_DAQ [eng, degC]", quantity="none")
<i>LongId</i>	DM_BPE_SPARE4 (description="DM_BPE_SPARE4 [raw]", quantity="none")
<i>LongId</i>	SPL_INTEG_RAMPS (description="SPL_INTEG_RAMPS [raw]", quantity="none")
<i>DoubleId</i>	BOL_VSMSL_B_3 (description="BOL_VSMSL_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VSMSL_B_4 (description="BOL_VSMSL_B_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_BC_ERROR (description="DM_BC_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_DBR_TASK_WR (description="DM_DBR_TASK_WR", quantity="none")
<i>DoubleId</i>	DM_FPU_T1_TEMP (description="DM_FPU_T1_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_DRR_ERR_NS (description="DM_DRR_ERR_NS", quantity="none")
<i>StringId</i>	DM_BR_TASK_AL (description="DM_BR_TASK_AL", quantity="none")
<i>DoubleId</i>	BOL_VDECXL_R_1 (description="BOL_VDECXL_R_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDECXL_R_2 (description="BOL_VDECXL_R_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_CS2C_ERROR (description="DM_CS2C_ERROR [raw]", quantity="none")

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<i>LongId</i>	DM_CHOP_MAX_DIT (description="DM_CHOP_MAX_DIT [raw]", quantity="none")
<i>LongId</i>	DM_TIME_2 (description="DM_TIME_2 [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEATER_FPU (description="BOL_HEATER_FPU [eng, A]", quantity="none")
<i>StringId</i>	DM_SEQ_RUNNING (description="DM_SEQ_RUNNING", quantity="none")
<i>LongId</i>	DM_TIME_1 (description="DM_TIME_1 [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_PSU_P15V (description="DM_SPU_PSU_P15V [eng, V]", quantity="none")
<i>LongId</i>	DM_BR_ERROR (description="DM_BR_ERROR [raw]", quantity="none")
<i>DoubleId</i>	BOL_GND_BU_R_2 (description="BOL_GND_BU_R_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_GND_BU_R_1 (description="BOL_GND_BU_R_1 [eng, V]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_RO (description="DP_EV_BOL_I_RO", quantity="none")
<i>StringId</i>	DP_SPUS_HK (description="DP_SPUS_HK", quantity="none")
<i>DoubleId</i>	DM_CPU_LOAD (description="DM_CPU_LOAD [eng, %]", quantity="none")
<i>StringId</i>	DM_RPE_ERR_NS (description="DM_RPE_ERR_NS", quantity="none")
<i>LongId</i>	DP_STATUS (description="DP_STATUS [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEATER_B_3 (description="BOL_HEATER_B_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_CS1C_SPARE1 (description="DM_CS1C_SPARE1 [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEATER_B_4 (description="BOL_HEATER_B_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_CS1C_SPARE4 (description="DM_CS1C_SPARE4 [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEATER_B_1 (description="BOL_HEATER_B_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_HEATER_B_2 (description="BOL_HEATER_B_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_CS2C_LOOP (description="DM_CS2C_LOOP", quantity="none")
<i>StringId</i>	DM_DBR_ERR_NS (description="DM_DBR_ERR_NS", quantity="none")
<i>StringId</i>	DM_DPUS_TASK_WR (description="DM_DPUS_TASK_WR", quantity="none")
<i>LongId</i>	DM_BBID (description="DM_BBID [raw]", quantity="none")
<i>LongId</i>	DM_DM_SF_IND (description="DM_DM_SF_IND [raw]", quantity="none")
<i>StringId</i>	DM_BR_LINK (description="DM_BR_LINK", quantity="none")
<i>StringId</i>	DM_SEQ_ERR_NS (description="DM_SEQ_ERR_NS", quantity="none")

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<i>StringId</i>	DM_CS1C_UP (description="DM_CS1C_UP", quantity="none")
<i>StringId</i>	DM_FWPC_TASK_WR (description="DM_FWPC_TASK_WR", quantity="none")
<i>DoubleId</i>	BOL_VSMSL_B_2 (description="BOL_VSMSL_B_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VSMSL_B_1 (description="BOL_VSMSL_B_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_GC_LL_MOVING (description="DM_GC_LL_MOVING", quantity="none")
<i>LongId</i>	DM_DPU_SEND_PAC (description="DM_DPU_SEND_PAC [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDDPRO_CLB4 (description="BOL_VDDPRO_CLB4 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDDPRO_CLB3 (description="BOL_VDDPRO_CLB3 [eng, V]", quantity="none")
<i>StringId</i>	DP_COUNTER_SPS (description="DP_COUNTER_SPS", quantity="none")
<i>StringId</i>	DP_BURST_MODE (description="DP_BURST_MODE", quantity="none")
<i>DoubleId</i>	BOL_VDDPRO_CLB2 (description="BOL_VDDPRO_CLB2 [eng, V]", quantity="none")
<i>LongId</i>	DP_DEC_LINK_DE (description="DP_DEC_LINK_DE [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDDPRO_CLB1 (description="BOL_VDDPRO_CLB1 [eng, V]", quantity="none")
<i>StringId</i>	DM_GC_DEGRADE (description="DM_GC_DEGRADE", quantity="none")
<i>StringId</i>	DP_1355_LINK (description="DP_1355_LINK", quantity="none")
<i>DoubleId</i>	BOL_VINJ_B_1 (description="BOL_VINJ_B_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_SW_ERR (description="DM_SW_ERR", quantity="none")
<i>LongId</i>	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")
<i>DoubleId</i>	BOL_VINJ_B_2 (description="BOL_VINJ_B_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VINJ_B_3 (description="BOL_VINJ_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VINJ_B_4 (description="BOL_VINJ_B_4 [eng, V]", quantity="none")
<i>StringId</i>	DP_COUNTER_SPL (description="DP_COUNTER_SPL", quantity="none")
<i>LongId</i>	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
<i>LongId</i>	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")
<i>LongId</i>	SPS_SAMP_CORR (description="SPS_SAMP_CORR [raw]", quantity="none")
<i>LongId</i>	SPL_MAINT_RAMPS (description="SPL_MAINT_RAMPS [raw]", quantity="none")
<i>LongId</i>	DP_SPUL_LINK_DE (description="DP_SPUL_LINK_DE [raw]", quantity="none")

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<i>StringId</i>	DP_EVENT_SPU (description="DP_EVENT_SPU", quantity="none")
<i>StringId</i>	DM_HKD_TASK_WR (description="DM_HKD_TASK_WR", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_2 (description="BOL_TEMP_B_2 [eng, degC]", quantity="none")
<i>StringId</i>	DM_BR_SENDING (description="DM_BR_SENDING", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_3 (description="BOL_TEMP_B_3 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_VDD_B_1 (description="BOL_VDD_B_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_1 (description="BOL_TEMP_B_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_VDD_B_3 (description="BOL_VDD_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDD_B_2 (description="BOL_VDD_B_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_PLL_RES_HI (description="DM_PLL_RES_HI [raw]", quantity="none")
<i>LongId</i>	DM_FW_SPEC_CTRL (description="DM_FW_SPEC_CTRL [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDD_B_4 (description="BOL_VDD_B_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID3 (description="DM_SEQ_LOOP_ID3 [raw]", quantity="none")
<i>DoubleId</i>	BOL_CKRLB_B_2 (description="BOL_CKRLB_B_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID2 (description="DM_SEQ_LOOP_ID2 [raw]", quantity="none")
<i>DoubleId</i>	BOL_CKRLB_B_3 (description="BOL_CKRLB_B_3 [eng, V]", quantity="none")
<i>LongId</i>	SPS_REAL (description="SPS_REAL [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID1 (description="DM_SEQ_LOOP_ID1 [raw]", quantity="none")
<i>DoubleId</i>	BOL_CKRLB_B_4 (description="BOL_CKRLB_B_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID0 (description="DM_SEQ_LOOP_ID0 [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_POS_B (description="DM_FWSC_POS_B", quantity="none")
<i>StringId</i>	DM_FWSC_POS_A (description="DM_FWSC_POS_A", quantity="none")
<i>StringId</i>	DP_BLUE_SCIENCE (description="DP_BLUE_SCIENCE", quantity="none")
<i>LongId</i>	DM_R_SPEC_READ (description="DM_R_SPEC_READ [raw]", quantity="none")
<i>LongId</i>	SPS_VID (description="SPS_VID [raw]", quantity="none")

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<i>LongId</i>	DM_SEQ_LOOP_ID4 (description="DM_SEQ_LOOP_ID4 [raw]", quantity="none")
<i>LongId</i>	DM_BC_SPARE4 (description="DM_BC_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_HKCO_ERROR (description="DM_HKCO_ERROR [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDECXL_B_2 (description="BOL_VDECXL_B_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_DRR_SENDING (description="DM_DRR_SENDING", quantity="none")
<i>DoubleId</i>	BOL_VDECXL_B_3 (description="BOL_VDECXL_B_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_DRR_SPARE2 (description="DM_DRR_SPARE2 [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDECXL_B_1 (description="BOL_VDECXL_B_1 [eng, V]", quantity="none")
<i>DoubleId</i>	SPS_CPUWORKLOAD (description="SPS_CPUWORKLOAD [eng, %]", quantity="none")
<i>LongId</i>	SPL_REAL (description="SPL_REAL [raw]", quantity="none")
<i>StringId</i>	DP_WHICH_OBCP (description="DP_WHICH_OBCP", quantity="none")
<i>StringId</i>	DP_TEST_MODE (description="DP_TEST_MODE", quantity="none")
<i>LongId</i>	SPS_CI (description="SPS_CI [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDECXL_B_4 (description="BOL_VDECXL_B_4 [eng, V]", quantity="none")
<i>LongId</i>	DP_SW_VERS_ID (description="DP_SW_VERS_ID [raw]", quantity="none")
<i>LongId</i>	DM_CHOP_TARGET (description="DM_CHOP_TARGET [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_ERR_NS (description="DM_FWPC_ERR_NS", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT10 (description="DM_CUSTOM_ENT10 [raw]", quantity="none")
<i>StringId</i>	DM_GC_LS (description="DM_GC_LS", quantity="none")
<i>DoubleId</i>	BOL_TEMP_SP (description="BOL_TEMP_SP [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_VINJ_R_2 (description="BOL_VINJ_R_2 [eng, V]", quantity="none")
<i>LongId</i>	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
<i>DoubleId</i>	DM_CS2_OUTPUT (description="DM_CS2_OUTPUT [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VINJ_R_1 (description="BOL_VINJ_R_1 [eng, V]", quantity="none")
<i>LongId</i>	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")

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<i>DoubleId</i>	BOL_HEATER_R_1 (description="BOL_HEATER_R_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_CS1_OUTPUT (description="DM_CS1_OUTPUT [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_HEATER_R_2 (description="BOL_HEATER_R_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_6 (description="BOL_PWR_ANA_N_6 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_7 (description="BOL_PWR_ANA_N_7 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_4 (description="BOL_PWR_ANA_N_4 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VL_B_1 (description="BOL_VL_B_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_5 (description="BOL_PWR_ANA_N_5 [eng, V]", quantity="none")
<i>StringId</i>	DM_CS2C_UP (description="DM_CS2C_UP", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_2 (description="BOL_PWR_ANA_N_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VL_B_3 (description="BOL_VL_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VL_B_2 (description="BOL_VL_B_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_3 (description="BOL_PWR_ANA_N_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_1 (description="BOL_PWR_ANA_N_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VL_B_4 (description="BOL_VL_B_4 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VRL_B_4 (description="BOL_VRL_B_4 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VRL_B_3 (description="BOL_VRL_B_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_FWSC_SEARCHB (description="DM_FWSC_SEARCHB", quantity="none")
<i>LongId</i>	DM_DPU_REC_STAT (description="DM_DPU_REC_STAT [raw]", quantity="none")
<i>DoubleId</i>	BOL_VRL_B_2 (description="BOL_VRL_B_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_FWSC_SEARCHA (description="DM_FWSC_SEARCHA", quantity="none")
<i>LongId</i>	DM_VID (description="DM_VID [raw]", quantity="none")
<i>DoubleId</i>	BOL_VRL_B_1 (description="BOL_VRL_B_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_SP_SWT (description="BOL_TEMP_SP_SWT [eng, K]", quantity="none")
<i>StringId</i>	DP_HK_MONITOR (description="DP_HK_MONITOR", quantity="none")

<i>StringId</i>	DM_CS1C_LOOP (description="DM_CS1C_LOOP", quantity="none")
<i>DoubleId</i>	BOL_TEMP_TS (description="BOL_TEMP_TS [eng, K]", quantity="none")
<i>LongId</i>	DM_SW_SPARE5 (description="DM_SW_SPARE5 [raw]", quantity="none")
<i>DoubleId</i>	DM_CHOPPER_TEMP (description="DM_CHOPPER_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_WR (description="DM_RPE_TASK_WR", quantity="none")
<i>StringId</i>	DP_EVENT_DPU (description="DP_EVENT_DPU", quantity="none")
<i>LongId</i>	DM_DRR_ERROR (description="DM_DRR_ERROR [raw]", quantity="none")
<i>LongId</i>	SPL_RCX (description="SPL_RCX [raw]", quantity="none")
<i>StringId</i>	DM_DSIM_TASK_WR (description="DM_DSIM_TASK_WR", quantity="none")
<i>LongId</i>	DM_BLUE_ENC_PAC (description="DM_BLUE_ENC_PAC [raw]", quantity="none")

9.1.7. HPGENHKS

<i>product</i> (type="HPGENHK", description="HPGENHKS")	
<i>Metadata</i>	
StringParameter	type (description="null")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="PACS Level 0 Product")
StringParameter	modelName (description="Model")
DateParameter	startDate (description="Start Date")
DateParameter	endDate (description="End Date")
StringParameter	fileName (description="null")
StringParameter	missionConfiguration (description="Mission Configuration")
StringParameter	formatVersion (description="Format Version of the Products")
LongParameter	obsid (description="Observation ID")
LongParameter	obsType (description="null")
LongParameter	obsCount (description="OBSID")
<i>table dataset</i>	(description="Generated from PacketSequence \$Revision: 1.3 \$")
<i>Metadata</i>	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
<i>LongId</i>	Time (description="Time [microseconds]", quantity="microsecond [1.0E-6 s]")
<i>LongId</i>	

	DP_1_8_REJECTED (description="DP_1_8_REJECTED [raw]", quantity="none")
<i>LongId</i>	SPL_PIX (description="SPL_PIX [raw]", quantity="none")
<i>LongId</i>	SPL_VID (description="SPL_VID [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_SWL_TEMP (description="DM_SPU_SWL_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DP_SPUL_LINK_PE (description="DP_SPUL_LINK_PE [raw]", quantity="none")
<i>StringId</i>	DP_SPS_LINK (description="DP_SPS_LINK", quantity="none")
<i>StringId</i>	DM_FPU_S2_TS_ST (description="DM_FPU_S2_TS_ST", quantity="none")
<i>LongId</i>	DM_HK_CTRL_STAT (description="DM_HK_CTRL_STAT [raw]", quantity="none")
<i>LongId</i>	DM_DBR_SPARE2 (description="DM_DBR_SPARE2 [raw]", quantity="none")
<i>StringId</i>	DP_DMC_CMD (description="DP_DMC_CMD", quantity="none")
<i>StringId</i>	DM_FPU_CH_TS_ST (description="DM_FPU_CH_TS_ST", quantity="none")
<i>DoubleId</i>	DM_SPU_VCC_CUR (description="DM_SPU_VCC_CUR [eng, A]", quantity="none")
<i>LongId</i>	DM_DECR_CTRL_PA (description="DM_DECR_CTRL_PA [raw]", quantity="none")
<i>DoubleId</i>	DM_FW_PHOT_TEMP (description="DM_FW_PHOT_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DP_OBCP_MANAGER (description="DP_OBCP_MANAGER", quantity="none")
<i>LongId</i>	DM_PM_SF_IND (description="DM_PM_SF_IND [raw]", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_AL (description="DM_HKCO_TASK_AL", quantity="none")
<i>StringId</i>	DP_IRQ3_TASK (description="DP_IRQ3_TASK", quantity="none")
<i>LongId</i>	DM_HKCO_SPARE5 (description="DM_HKCO_SPARE5 [raw]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_1R (description="BOL_I_HEATER_1R [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_PSU_1 (description="BOL_TEMP_PSU_1 [eng, degC]", quantity="none")
<i>StringId</i>	SPS_DMC_LINK (description="SPS_DMC_LINK", quantity="none")
<i>DoubleId</i>	BOL_TEMP_PSU_2 (description="BOL_TEMP_PSU_2 [eng, degC]", quantity="none")
<i>StringId</i>	DM_BPE_LINK (description="DM_BPE_LINK", quantity="none")
<i>StringId</i>	DP_RED_SCIENCE (description="DP_RED_SCIENCE", quantity="none")
<i>StringId</i>	DM_DRR_TASK_WR (description="DM_DRR_TASK_WR", quantity="none")
<i>LongId</i>	DM_DPUR_SPARE4 (description="DM_DPUR_SPARE4 [raw]", quantity="none")

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<i>StringId</i>	DM_FPU_FWS_TS_S (description="DM_FPU_FWS_TS_S", quantity="none")
<i>DoubleId</i>	BOL_HEAT_EV_SWT (description="BOL_HEAT_EV_SWT [eng, A]", quantity="none")
<i>LongId</i>	DP_COM_SPL_NACK (description="DP_COM_SPL_NACK [raw]", quantity="none")
<i>StringId</i>	DM_SEQ_IDLE (description="DM_SEQ_IDLE", quantity="none")
<i>LongId</i>	SID (description="SID [raw]", quantity="none")
<i>StringId</i>	DM_DRC_TASK_AL (description="DM_DRC_TASK_AL", quantity="none")
<i>LongId</i>	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
<i>StringId</i>	DM_HKD_ERR_NS (description="DM_HKD_ERR_NS", quantity="none")
<i>LongId</i>	DM_DPU_SEN_STAT (description="DM_DPU_SEN_STAT [raw]", quantity="none")
<i>LongId</i>	DM_BOL_CTRL_STA (description="DM_BOL_CTRL_STA [raw]", quantity="none")
<i>DoubleId</i>	SPL_CPUWORKLOAD (description="SPL_CPUWORKLOAD [eng, %]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_1 (description="BOL_TEMP_R_1 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_2 (description="BOL_TEMP_R_2 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_3 (description="BOL_TEMP_R_3 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_4 (description="BOL_TEMP_R_4 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_2R (description="BOL_I_HEATER_2R [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_R_5 (description="BOL_TEMP_R_5 [eng, degC]", quantity="none")
<i>StringId</i>	DP_DMC_HK (description="DP_DMC_HK", quantity="none")
<i>LongId</i>	DP_GEN_TM_LOST (description="DP_GEN_TM_LOST [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ERR_ID (description="DM_LAST_ERR_ID [raw]", quantity="none")
<i>StringId</i>	DP_SPUS_LINK (description="DP_SPUS_LINK", quantity="none")
<i>LongId</i>	DM_SW_GLOBAL_ST (description="DM_SW_GLOBAL_ST [raw]", quantity="none")
<i>LongId</i>	DM_BOL_REC_PAC (description="DM_BOL_REC_PAC [raw]", quantity="none")
<i>StringId</i>	DM_SW_COPY_OBS (description="DM_SW_COPY_OBS", quantity="none")
<i>StringId</i>	DP_HK_CHK (description="DP_HK_CHK", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF16 (description="DM_LAST_ER_BF16 [raw]", quantity="none")

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<i>StringId</i>	DM_DRC_ERR_NS (description="DM_DRC_ERR_NS", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF10 (description="DM_LAST_ER_BF10 [raw]", quantity="none")
<i>LongId</i>	DM_RPE_SPARE4 (description="DM_RPE_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF11 (description="DM_LAST_ER_BF11 [raw]", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_5V (description="DM_REF_VOLT_5V [eng, V]", quantity="none")
<i>LongId</i>	SPS_PIX (description="SPS_PIX [raw]", quantity="none")
<i>LongId</i>	DM_DRC_ERROR (description="DM_DRC_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF14 (description="DM_LAST_ER_BF14 [raw]", quantity="none")
<i>DoubleId</i>	DP_WORK_LOAD (description="DP_WORK_LOAD [eng, %]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF15 (description="DM_LAST_ER_BF15 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF12 (description="DM_LAST_ER_BF12 [raw]", quantity="none")
<i>StringId</i>	DP_DEC_LINK (description="DP_DEC_LINK", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF13 (description="DM_LAST_ER_BF13 [raw]", quantity="none")
<i>LongId</i>	DP_COM_DMC_PACK (description="DP_COM_DMC_PACK [raw]", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_WR (description="DM_DPUR_TASK_WR", quantity="none")
<i>StringId</i>	DP_EEPROM_PROT (description="DP_EEPROM_PROT", quantity="none")
<i>LongId</i>	DP_COM_SPS_PACK (description="DP_COM_SPS_PACK [raw]", quantity="none")
<i>DoubleId</i>	DP_VOL_5P (description="DP_VOL_5P [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF3 (description="DM_LAST_ER_BF3 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF4 (description="DM_LAST_ER_BF4 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF5 (description="DM_LAST_ER_BF5 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF6 (description="DM_LAST_ER_BF6 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF7 (description="DM_LAST_ER_BF7 [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_LINK (description="DM_DPUS_LINK", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF8 (description="DM_LAST_ER_BF8 [raw]", quantity="none")

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<i>DoubleId</i>	DP_VOL_25P (description="DP_VOL_25P [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF9 (description="DM_LAST_ER_BF9 [raw]", quantity="none")
<i>LongId</i>	DP_COM_DMC_NACK (description="DP_COM_DMC_NACK [raw]", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_AL (description="DM_SEQ_TASK_AL", quantity="none")
<i>LongId</i>	DM_FPU_T_SEN_ST (description="DM_FPU_T_SEN_ST [raw]", quantity="none")
<i>LongId</i>	DM_BOL_STATUS (description="DM_BOL_STATUS [raw]", quantity="none")
<i>StringId</i>	DM_BR_SIM_TIME (description="DM_BR_SIM_TIME", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF2 (description="DM_LAST_ER_BF2 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_7 (description="BOL_PWR_DIG_7 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF1 (description="DM_LAST_ER_BF1 [raw]", quantity="none")
<i>StringId</i>	DM_FPU_FWP_TS_S (description="DM_FPU_FWP_TS_S", quantity="none")
<i>LongId</i>	DP_1_2_REJECTED (description="DP_1_2_REJECTED [raw]", quantity="none")
<i>StringId</i>	DP_INIT (description="DP_INIT", quantity="none")
<i>LongId</i>	DM_BLUE_PAC_ENC (description="DM_BLUE_PAC_ENC [raw]", quantity="none")
<i>StringId</i>	DP_BUFFER_STAT (description="DP_BUFFER_STAT", quantity="none")
<i>StringId</i>	DP_COUNTER_SPEC (description="DP_COUNTER_SPEC", quantity="none")
<i>StringId</i>	DM_DBC_TASK_AL (description="DM_DBC_TASK_AL", quantity="none")
<i>LongId</i>	DM_BOL_READ_CNT (description="DM_BOL_READ_CNT [raw]", quantity="none")
<i>LongId</i>	DM_HK_DIAG_PERI (description="DM_HK_DIAG_PERI [raw]", quantity="none")
<i>LongId</i>	DM_DECB_REC_PAC (description="DM_DECB_REC_PAC [raw]", quantity="none")
<i>LongId</i>	SPL_MEM_CNTS (description="SPL_MEM_CNTS [raw]", quantity="none")
<i>LongId</i>	DM_DBR_ERROR (description="DM_DBR_ERROR [raw]", quantity="none")
<i>LongId</i>	DP_HK_LOST (description="DP_HK_LOST [raw]", quantity="none")
<i>StringId</i>	DP_CONTROLLER (description="DP_CONTROLLER", quantity="none")

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<i>StringId</i>	DP_EV_BOL_I_HEA (description="DP_EV_BOL_I_HEA", quantity="none")
<i>StringId</i>	DP_STABLE_SPL (description="DP_STABLE_SPL", quantity="none")
<i>StringId</i>	DP_EV_BOL_BIAS (description="DP_EV_BOL_BIAS", quantity="none")
<i>DoubleId</i>	DM_SPU_LWL_TEMP (description="DM_SPU_LWL_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_HKD_TASK_AL (description="DM_HKD_TASK_AL", quantity="none")
<i>StringId</i>	DM_BPE_TASK_AL (description="DM_BPE_TASK_AL", quantity="none")
<i>LongId</i>	DP_EVENT_LOST (description="DP_EVENT_LOST [raw]", quantity="none")
<i>StringId</i>	DM_SW_ALIVE (description="DM_SW_ALIVE", quantity="none")
<i>DoubleId</i>	DM_SPU_VP_CUR (description="DM_SPU_VP_CUR [eng, mA]", quantity="none")
<i>LongId</i>	DP_COM_REC_DPU (description="DP_COM_REC_DPU [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_ERR_NS (description="DM_DPUS_ERR_NS", quantity="none")
<i>StringId</i>	DM_DBR_LINK (description="DM_DBR_LINK", quantity="none")
<i>LongId</i>	DP_SW_SUBVERS_ID (description="DP_SW_SUBVERS_ID [raw]", quantity="none")
<i>LongId</i>	DP_SPUS_LINK_PE (description="DP_SPUS_LINK_PE [raw]", quantity="none")
<i>StringId</i>	DP_STABLE_SPS (description="DP_STABLE_SPS", quantity="none")
<i>LongId</i>	DM_DRC_SPARE3 (description="DM_DRC_SPARE3 [raw]", quantity="none")
<i>StringId</i>	DM_DBC_TASK_WR (description="DM_DBC_TASK_WR", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_AL (description="DM_DPUR_TASK_AL", quantity="none")
<i>StringId</i>	DM_BC_TASK_WR (description="DM_BC_TASK_WR", quantity="none")
<i>StringId</i>	DP_SPL_LINK (description="DP_SPL_LINK", quantity="none")
<i>StringId</i>	DP_UNIT (description="DP_UNIT", quantity="none")
<i>LongId</i>	DM_DECR_REC_STA (description="DM_DECR_REC_STA [raw]", quantity="none")
<i>StringId</i>	DM_DBR_TASK_AL (description="DM_DBR_TASK_AL", quantity="none")
<i>LongId</i>	DM_SEQ_ERROR (description="DM_SEQ_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_CAL_SRC_TEMP (description="DM_CAL_SRC_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_DBC_ERR_NS (description="DM_DBC_ERR_NS", quantity="none")

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<i>StringId</i>	DM_DBR_SIM_TIME (description="DM_DBR_SIM_TIME", quantity="none")
<i>StringId</i>	DM_DRC_POWER (description="DM_DRC_POWER", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_WR (description="DM_SEQ_TASK_WR", quantity="none")
<i>LongId</i>	DP_COM_SPL_PACK (description="DP_COM_SPL_PACK [raw]", quantity="none")
<i>LongId</i>	DM_DBC_ERROR (description="DM_DBC_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_HKCO_ERR_NS (description="DM_HKCO_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_DSP_TEMP (description="DM_DSP_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_FWSP_CUR_POS (description="DM_FWSP_CUR_POS", quantity="none")
<i>LongId</i>	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV_SWT (description="BOL_TEMP_EV_SWT [eng, K]", quantity="none")
<i>DoubleId</i>	DM_SPU_PS_TEMP (description="DM_SPU_PS_TEMP [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_HEAT_SP_SWT (description="BOL_HEAT_SP_SWT [eng, A]", quantity="none")
<i>StringId</i>	DM_DPUR_ERR_NS (description="DM_DPUR_ERR_NS", quantity="none")
<i>LongId</i>	DM_HKD_ERROR (description="DM_HKD_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_BR_SPARE2 (description="DM_BR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_BOL_CTRL_PAC (description="DM_BOL_CTRL_PAC [raw]", quantity="none")
<i>StringId</i>	DP_SPUS_CMD (description="DP_SPUS_CMD", quantity="none")
<i>LongId</i>	SPS_MEM_CNTS (description="SPS_MEM_CNTS [raw]", quantity="none")
<i>StringId</i>	DP_1553_HANDLER (description="DP_1553_HANDLER", quantity="none")
<i>DoubleId</i>	DM_SPU_VCC_VOL (description="DM_SPU_VCC_VOL [eng, V]", quantity="none")
<i>StringId</i>	SPL_DMC_LINK (description="SPL_DMC_LINK", quantity="none")
<i>LongId</i>	DM_DPUS_SPARE4 (description="DM_DPUS_SPARE4 [raw]", quantity="none")
<i>LongId</i>	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")
<i>DoubleId</i>	DM_GRATING_TEMP (description="DM_GRATING_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_AL (description="DM_RPE_TASK_AL", quantity="none")

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<i>LongId</i>	DM_CUSTOM_ENT_2 (description="DM_CUSTOM_ENT_2 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_3 (description="DM_CUSTOM_ENT_3 [raw]", quantity="none")
<i>LongId</i>	DM_RPE_ERROR (description="DM_RPE_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_TM_RATE (description="DP_TM_RATE", quantity="none")
<i>LongId</i>	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
<i>StringId</i>	DP_SPUL_HK (description="DP_SPUL_HK", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_7 (description="BOL_PWR_ANA_P_7 [eng, V]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_1 (description="DM_CUSTOM_ENT_1 [raw]", quantity="none")
<i>StringId</i>	DM_BR_TASK_WR (description="DM_BR_TASK_WR", quantity="none")
<i>StringId</i>	DM_DRR_SIM_TIME (description="DM_DRR_SIM_TIME", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_6 (description="DM_CUSTOM_ENT_6 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_7 (description="DM_CUSTOM_ENT_7 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_4 (description="DM_CUSTOM_ENT_4 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_5 (description="DM_CUSTOM_ENT_5 [raw]", quantity="none")
<i>StringId</i>	DM_DPUR_LINK (description="DM_DPUR_LINK", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_8 (description="DM_CUSTOM_ENT_8 [raw]", quantity="none")
<i>LongId</i>	DM_OBSID (description="DM_OBSID [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_9 (description="DM_CUSTOM_ENT_9 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_T_FPU (description="DP_EV_BOL_T_FPU", quantity="none")
<i>LongId</i>	DM_RED_ENC_PAC (description="DM_RED_ENC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_OBCP_RUN (description="DP_OBCP_RUN", quantity="none")
<i>LongId</i>	DM_DECB_CTRL_PA (description="DM_DECB_CTRL_PA [raw]", quantity="none")
<i>LongId</i>	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
<i>LongId</i>	DP_DEC_LINK_PE (description="DP_DEC_LINK_PE [raw]", quantity="none")
<i>StringId</i>	DP_DMC_LINK (description="DP_DMC_LINK", quantity="none")
<i>StringId</i>	SPL_DMC_ERROR (description="SPL_DMC_ERROR", quantity="none")
<i>StringId</i>	DM_RPE_LINK (description="DM_RPE_LINK", quantity="none")

<i>StringId</i>	DP_EV_BOL_V_PWR (description="DP_EV_BOL_V_PWR", quantity="none")
<i>LongId</i>	DM_SW_ERROR (description="DM_SW_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_SPUL_CMD (description="DP_SPUL_CMD", quantity="none")
<i>LongId</i>	DP_SPUS_LINK_DE (description="DP_SPUS_LINK_DE [raw]", quantity="none")
<i>LongId</i>	DM_DECB_CTRL_ST (description="DM_DECB_CTRL_ST [raw]", quantity="none")
<i>DoubleId</i>	DP_T (description="DP_T [eng, degC]", quantity="none")
<i>StringId</i>	DM_FPU_GR_TS_ST (description="DM_FPU_GR_TS_ST", quantity="none")
<i>DoubleId</i>	DM_PSC_V4 (description="DM_PSC_V4 [eng, A]", quantity="none")
<i>DoubleId</i>	DM_PSC_V3 (description="DM_PSC_V3 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_PSC_V2 (description="DM_PSC_V2 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_PSC_V1 (description="DM_PSC_V1 [eng, A]", quantity="none")
<i>LongId</i>	DM_DECR_REC_PAC (description="DM_DECR_REC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_STABLE_DEC (description="DP_STABLE_DEC", quantity="none")
<i>StringId</i>	SPS_DMC_ERROR (description="SPS_DMC_ERROR", quantity="none")
<i>StringId</i>	DM_BPE_TASK_WR (description="DM_BPE_TASK_WR", quantity="none")
<i>LongId</i>	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
<i>LongId</i>	DM_GRAT_CUR_POS (description="DM_GRAT_CUR_POS [raw]", quantity="none")
<i>StringId</i>	DP_SPUL_LINK (description="DP_SPUL_LINK", quantity="none")
<i>StringId</i>	DM_BC_LINK (description="DM_BC_LINK", quantity="none")
<i>LongId</i>	DM_HK_DIAG_STAT (description="DM_HK_DIAG_STAT [raw]", quantity="none")
<i>StringId</i>	DP_1355_HANDLER (description="DP_1355_HANDLER", quantity="none")
<i>StringId</i>	DM_FPU_CS_TS_ST (description="DM_FPU_CS_TS_ST", quantity="none")
<i>LongId</i>	DM_DM_DF_IND (description="DM_DM_DF_IND [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP2 (description="DP_EV_BOL_I_SP2", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP1 (description="DP_EV_BOL_I_SP1", quantity="none")
<i>LongId</i>	DM_DPU_REC_PAC (description="DM_DPU_REC_PAC [raw]", quantity="none")

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<i>StringId</i>	DP_COUNTER_PHOT (description="DP_COUNTER_PHOT", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU1 (description="BOL_TEMP_FPU1 [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU2 (description="BOL_TEMP_FPU2 [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_DAQ (description="BOL_TEMP_DAQ [eng, degC]", quantity="none")
<i>LongId</i>	DM_SEQ_STATUS (description="DM_SEQ_STATUS [raw]", quantity="none")
<i>LongId</i>	DM_BPE_SPARE4 (description="DM_BPE_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_BC_ERROR (description="DM_BC_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_DRC_LINK (description="DM_DRC_LINK", quantity="none")
<i>StringId</i>	DM_DBR_TASK_WR (description="DM_DBR_TASK_WR", quantity="none")
<i>DoubleId</i>	DM_FPU_T1_TEMP (description="DM_FPU_T1_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_DRR_ERR_NS (description="DM_DRR_ERR_NS", quantity="none")
<i>StringId</i>	DM_BR_TASK_AL (description="DM_BR_TASK_AL", quantity="none")
<i>StringId</i>	DM_FPU_S1_TS_ST (description="DM_FPU_S1_TS_ST", quantity="none")
<i>LongId</i>	DM_TIME_2 (description="DM_TIME_2 [raw]", quantity="none")
<i>StringId</i>	DM_BC_TASK_AL (description="DM_BC_TASK_AL", quantity="none")
<i>DoubleId</i>	BOL_HEATER_FPU (description="BOL_HEATER_FPU [eng, A]", quantity="none")
<i>StringId</i>	DM_SEQ_RUNNING (description="DM_SEQ_RUNNING", quantity="none")
<i>LongId</i>	DM_TIME_1 (description="DM_TIME_1 [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPS_NACK (description="DP_COM_SPS_NACK [raw]", quantity="none")
<i>StringId</i>	DM_BC_ERR_NS (description="DM_BC_ERR_NS", quantity="none")
<i>StringId</i>	DM_DBC_POWER (description="DM_DBC_POWER", quantity="none")
<i>DoubleId</i>	DM_SPU_PSU_P15V (description="DM_SPU_PSU_P15V [eng, V]", quantity="none")
<i>LongId</i>	DM_RED_PAC_ENC (description="DM_RED_PAC_ENC [raw]", quantity="none")
<i>LongId</i>	DM_BR_ERROR (description="DM_BR_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_SPUS_HK (description="DP_SPUS_HK", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_RO (description="DP_EV_BOL_I_RO", quantity="none")

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<i>LongId</i>	DM_DBC_SPARE3 (description="DM_DBC_SPARE3 [raw]", quantity="none")
<i>DoubleId</i>	DM_CPU_LOAD (description="DM_CPU_LOAD [eng, %]", quantity="none")
<i>DoubleId</i>	DM_FPU_T2_TEMP (description="DM_FPU_T2_TEMP [eng, K]", quantity="none")
<i>LongId</i>	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
<i>StringId</i>	DP_EV_DEC_SPC (description="DP_EV_DEC_SPC", quantity="none")
<i>StringId</i>	DP_EVENT_DEC (description="DP_EVENT_DEC", quantity="none")
<i>StringId</i>	DM_RPE_ERR_NS (description="DM_RPE_ERR_NS", quantity="none")
<i>LongId</i>	DP_STATUS (description="DP_STATUS [raw]", quantity="none")
<i>LongId</i>	DP_COM_DMC (description="DP_COM_DMC [raw]", quantity="none")
<i>StringId</i>	DM_DBR_ERR_NS (description="DM_DBR_ERR_NS", quantity="none")
<i>StringId</i>	DM_DPUS_TASK_WR (description="DM_DPUS_TASK_WR", quantity="none")
<i>LongId</i>	DM_BBID (description="DM_BBID [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_T_WE (description="DP_EV_BOL_T_WE", quantity="none")
<i>LongId</i>	DM_DM_SF_IND (description="DM_DM_SF_IND [raw]", quantity="none")
<i>StringId</i>	DM_BR_LINK (description="DM_BR_LINK", quantity="none")
<i>StringId</i>	DM_SEQ_ERR_NS (description="DM_SEQ_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_DCDC_TEMP (description="DM_DCDC_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_HKD_DIAGMODE (description="DM_HKD_DIAGMODE", quantity="none")
<i>LongId</i>	DM_DPU_SEND_PAC (description="DM_DPU_SEND_PAC [raw]", quantity="none")
<i>StringId</i>	DM_DRR_LINK (description="DM_DRR_LINK", quantity="none")
<i>StringId</i>	DP_AF_24_SPARE (description="DP_AF_24_SPARE", quantity="none")
<i>StringId</i>	DP_BURST_MODE (description="DP_BURST_MODE", quantity="none")
<i>StringId</i>	DP_COUNTER_SPS (description="DP_COUNTER_SPS", quantity="none")
<i>LongId</i>	DP_DEC_LINK_DE (description="DP_DEC_LINK_DE [raw]", quantity="none")
<i>StringId</i>	DP_1355_LINK (description="DP_1355_LINK", quantity="none")
<i>StringId</i>	DP_1553CHANNEL (description="DP_1553CHANNEL", quantity="none")

<i>DoubleId</i>	DM_FW_SPEC_TEMP (description="DM_FW_SPEC_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_SW_ERR (description="DM_SW_ERR", quantity="none")
<i>LongId</i>	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")
<i>StringId</i>	DM_DBR_SENDING (description="DM_DBR_SENDING", quantity="none")
<i>StringId</i>	DP_COUNTER_SPL (description="DP_COUNTER_SPL", quantity="none")
<i>StringId</i>	DM_DRR_TASK_AL (description="DM_DRR_TASK_AL", quantity="none")
<i>LongId</i>	DM_SEQ_SPARE1 (description="DM_SEQ_SPARE1 [raw]", quantity="none")
<i>LongId</i>	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_SPARE2 (description="DM_SEQ_SPARE2 [raw]", quantity="none")
<i>LongId</i>	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")
<i>LongId</i>	DM_DPUS_ERROR (description="DM_DPUS_ERROR [raw]", quantity="none")
<i>LongId</i>	DP_SPUL_LINK_DE (description="DP_SPUL_LINK_DE [raw]", quantity="none")
<i>StringId</i>	DP_EVENT_SPU (description="DP_EVENT_SPU", quantity="none")
<i>StringId</i>	DM_HKD_TASK_WR (description="DM_HKD_TASK_WR", quantity="none")
<i>StringId</i>	DM_DRC_TASK_WR (description="DM_DRC_TASK_WR", quantity="none")
<i>LongId</i>	DP_COM_SPUS (description="DP_COM_SPUS [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_2 (description="BOL_TEMP_B_2 [eng, degC]", quantity="none")
<i>StringId</i>	DM_BR_SENDING (description="DM_BR_SENDING", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_3 (description="BOL_TEMP_B_3 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_1 (description="BOL_TEMP_B_1 [eng, degC]", quantity="none")
<i>LongId</i>	DP_COM_SPUL (description="DP_COM_SPUL [raw]", quantity="none")
<i>LongId</i>	DM_HKD_SPARE3 (description="DM_HKD_SPARE3 [raw]", quantity="none")
<i>LongId</i>	DP_AF_STATUS (description="DP_AF_STATUS [raw]", quantity="none")
<i>StringId</i>	DP_BLUE_SCIENCE (description="DP_BLUE_SCIENCE", quantity="none")
<i>StringId</i>	DM_DPUS_TASK_AL (description="DM_DPUS_TASK_AL", quantity="none")
<i>LongId</i>	DP_SPARE (description="DP_SPARE [raw]", quantity="none")

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<i>LongId</i>	DM_R_SPEC_READ (description="DM_R_SPEC_READ [raw]", quantity="none")
<i>LongId</i>	SPS_VID (description="SPS_VID [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEATER_SP (description="BOL_HEATER_SP [eng, A]", quantity="none")
<i>LongId</i>	DM_BC_SPARE4 (description="DM_BC_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_HKCO_ERROR (description="DM_HKCO_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_DRR_SENDING (description="DM_DRR_SENDING", quantity="none")
<i>LongId</i>	DM_DRR_SPARE2 (description="DM_DRR_SPARE2 [raw]", quantity="none")
<i>StringId</i>	DM_BR_ERR_NS (description="DM_BR_ERR_NS", quantity="none")
<i>DoubleId</i>	SPS_CPUWORKLOAD (description="SPS_CPUWORKLOAD [eng, %]", quantity="none")
<i>LongId</i>	DM_PM_DF_IND (description="DM_PM_DF_IND [raw]", quantity="none")
<i>LongId</i>	DM_DPUR_ERROR (description="DM_DPUR_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_BOL_REC_STAT (description="DM_BOL_REC_STAT [raw]", quantity="none")
<i>StringId</i>	DP_WHICH_OBCP (description="DP_WHICH_OBCP", quantity="none")
<i>DoubleId</i>	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")
<i>StringId</i>	DP_TEST_MODE (description="DP_TEST_MODE", quantity="none")
<i>StringId</i>	DM_BPE_ERR_NS (description="DM_BPE_ERR_NS", quantity="none")
<i>LongId</i>	DM_IRS_CNT (description="DM_IRS_CNT [raw]", quantity="none")
<i>LongId</i>	SPS_CI (description="SPS_CI [raw]", quantity="none")
<i>LongId</i>	DM_CHOP_CUR_POS (description="DM_CHOP_CUR_POS [raw]", quantity="none")
<i>LongId</i>	DM_HKD_SPARE1 (description="DM_HKD_SPARE1 [raw]", quantity="none")
<i>LongId</i>	DP_SW_VERS_ID (description="DP_SW_VERS_ID [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT10 (description="DM_CUSTOM_ENT10 [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_SP (description="BOL_TEMP_SP [eng, K]", quantity="none")
<i>LongId</i>	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
<i>LongId</i>	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")

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<i>StringId</i>	DM_FWPH_CUR_POS (description="DM_FWPH_CUR_POS", quantity="none")
<i>StringId</i>	DM_DBC_LINK (description="DM_DBC_LINK", quantity="none")
<i>LongId</i>	DM_BPE_ERROR (description="DM_BPE_ERROR [raw]", quantity="none")
<i>LongId</i>	SPL_CI (description="SPL_CI [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_7 (description="BOL_PWR_ANA_N_7 [eng, V]", quantity="none")
<i>LongId</i>	DM_DECR_CTRL_ST (description="DM_DECR_CTRL_ST [raw]", quantity="none")
<i>LongId</i>	DP_TC_LOST (description="DP_TC_LOST [raw]", quantity="none")
<i>DoubleId</i>	DP_VOL_15P (description="DP_VOL_15P [eng, V]", quantity="none")
<i>DoubleId</i>	DP_VOL_15N (description="DP_VOL_15N [eng, V]", quantity="none")
<i>LongId</i>	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
<i>LongId</i>	DM_DPU_REC_STAT (description="DM_DPU_REC_STAT [raw]", quantity="none")
<i>LongId</i>	DM_VID (description="DM_VID [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_SP_SWT (description="BOL_TEMP_SP_SWT [eng, K]", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_0V (description="DM_REF_VOLT_0V [eng, V]", quantity="none")
<i>StringId</i>	DP_COUNTER_DEC (description="DP_COUNTER_DEC", quantity="none")
<i>LongId</i>	DM_B_SPEC_READ (description="DM_B_SPEC_READ [raw]", quantity="none")
<i>StringId</i>	DP_HK_MONITOR (description="DP_HK_MONITOR", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU_ST (description="BOL_TEMP_FPU_ST [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_TS (description="BOL_TEMP_TS [eng, K]", quantity="none")
<i>LongId</i>	DM_SW_SPARE5 (description="DM_SW_SPARE5 [raw]", quantity="none")
<i>LongId</i>	DP_COM_REJ_DPU (description="DP_COM_REJ_DPU [raw]", quantity="none")
<i>DoubleId</i>	DM_CHOPPER_TEMP (description="DM_CHOPPER_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_WR (description="DM_RPE_TASK_WR", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B4 (description="BOL_I_HEATER_B4 [eng, A]", quantity="none")
<i>LongId</i>	HD_APID (description="HD_APID [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_FPU (description="DP_EV_BOL_I_FPU", quantity="none")

<i>StringId</i>	DP_EVENT_DPU (description="DP_EVENT_DPU", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B2 (description="BOL_I_HEATER_B2 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B3 (description="BOL_I_HEATER_B3 [eng, A]", quantity="none")
<i>LongId</i>	DM_DRR_ERROR (description="DM_DRR_ERROR [raw]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B1 (description="BOL_I_HEATER_B1 [eng, A]", quantity="none")
<i>LongId</i>	DM_DECB_REC_STA (description="DM_DECB_REC_STA [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV (description="BOL_TEMP_EV [eng, K]", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_WR (description="DM_HKCO_TASK_WR", quantity="none")
<i>LongId</i>	DM_BLUE_ENC_PAC (description="DM_BLUE_ENC_PAC [raw]", quantity="none")
	nbsp;

9.2. PACS Photometry Level-1 Products

9.2.1. HPPAVGBS: Frames

<i>list context (type="HPPAVGBS", description="Frames")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Relative time offset")
DoubleParameter	Apid (description="null")
DoubleParameter	subType (description="null")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")

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DoubleParameter	dxid (description="null")
LongParameter	qflag_pacs_phot_red_FailedSPUBuffer (description="null")
LongParameter	qflag_pacs_phot_blue_FailedSPUBuffer (description="null")
StringParameter	fileName (description="null")
StringParameter	qflag_BPSCISAT_p (description="null")
DoubleParameter	qflag_BPSCISAT_p_v (description="null")
<i>product</i>	(type="HPPAVGBS", description="Frames")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Relative time offset")
DoubleParameter	Apid (description="null")
DoubleParameter	subType (description="null")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="null")
LongParameter	qflag_pacs_phot_red_FailedSPUBuffer (description="null")
LongParameter	qflag_pacs_phot_blue_FailedSPUBuffer (description="null")
StringParameter	fileName (description="null")
StringParameter	qflag_BPSCISAT_p (description="null")
DoubleParameter	qflag_BPSCISAT_p_v (description="null")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>table dataset</i>	(description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")

<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status paramet", quantity="none")
<i>Long1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Long1d</i>	BBID (description="Building block type", quantity="none")
<i>Long1d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Int1d</i>	CPR (description="Chopper position", quantity="none")
<i>Int1d</i>	WPR (description="Filter wheel Position", quantity="none")
<i>Int1d</i>	CRDC (description="OBT clock tick counter since last time reset", quantity="none")
<i>Int1d</i>	CRDCCP (description="OBT clock tick counter in current chopper plate", quantity="none")
<i>Int1d</i>	DBID (description="Data Block ID", quantity="none")
<i>Bool1d</i>	DMCSEQACTIVE (description="Indicates if a DMC sequence executing", quantity="none")
<i>Int1d</i>	CALSOURCE (description="Chopper on Calibration source 1, 2 or off (0)", quantity="none")
<i>String1d</i>	BAND (description="Wavelength Band", quantity="none")
<i>Int1d</i>	BBTYPE (description="Building Block Type", quantity="none")
<i>Int1d</i>	BBSEQCNT (description="Building Block Sequence Count", quantity="none")
<i>Int1d</i>	DP_WHICH_OBCP (description="OBCP Number", quantity="none")
<i>Double1d</i>	CHOPFPUANGLE (description="chopper angle in degrees wrt. FPU", quantity="none")
<i>Double1d</i>	CHOPSKYANGLE (description="chopper angle in arc mins wrt. sky", quantity="none")
<i>Double1d</i>	RaArray (description="RA", quantity="none")
<i>Double1d</i>	DecArray (description="Declination", quantity="none")
<i>Double1d</i>	RaArrayErr (description="RA Error", quantity="none")
<i>Double1d</i>	DecArrayErr (description="Declination Error", quantity="none")
<i>String1d</i>	Mode (description="Pointing Mode", quantity="none")
<i>Long1d</i>	RasterLineNum (description="Pointing Raster Line Number", quantity="none")
<i>Long1d</i>	RasterColumnNum (description="Pointing Raster Column Number", quantity="none")
<i>Long1d</i>	NodCycleNum (description="Pointing Nod Cycle Number", quantity="none")
<i>Bool1d</i>	OnTarget (description="On Target flag", quantity="none")
<i>Bool1d</i>	AbPosId (description="onRaster and offRaster Nod information", quantity="none")
<i>Bool1d</i>	IsSlew (description="Slew of the Sattelite", quantity="none")
<i>Bool1d</i>	IsOffPos (description="Off Position flag", quantity="none")
<i>Long1d</i>	ScanLineNumber (description="Scan Line number", quantity="none")
<i>String1d</i>	AcmsMode (description="ACMS mode", quantity="none")
<i>String1d</i>	Aperture (description="Aperture", quantity="none")
<i>Bool1d</i>	IsAPosition (description="is A position", quantity="none")
<i>Bool1d</i>	IsBPosition (description="is B position", quantity="none")
<i>Bool1d</i>	IsOutOfField (description="Is Out of Field", quantity="none")

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<i>Bool1d</i>	IsSerendipity (description="is serendipity mode", quantity="none")
<i>Int1d</i>	DithPos (description="Dithering Position", quantity="none")
<i>Int1d</i>	OnRasterPosCount (description="On Raster Position Counter", quantity="none")
<i>Int1d</i>	OffRasterPosCount (description="Off Raster Position Counter", quantity="none")
<i>Int1d</i>	NrChopperPlateau (description="Number of valid readouts per chopper plateau", quantity="none")
<i>Int1d</i>	UnCleanChop (description="Continuous numbering of Plateaus", quantity="none")
<i>table dataset</i>	(description="BlockTable")
<i>Metadata</i>	
StringParameter	MODE (description="PACS Mode")
<i>Int1d</i>	Obcp (description="OBCP", quantity="none")
<i>Int1d</i>	DMSActive (description="Dec Mec Sequence Active", quantity="none")
<i>Int1d</i>	ChopperPlateau (description="Chopper Plateau", quantity="none")
<i>Int1d</i>	CalSource (description="Calibration Source", quantity="none")
<i>Int1d</i>	Filter (description="Filter", quantity="none")
<i>Int1d</i>	StartIdx (description="Start Index", quantity="none")
<i>Int1d</i>	EndIdx (description="End Index (NOT INCLUSIVE)", quantity="none")
<i>Int1d</i>	NrIdx (description="Number of Indexes", quantity="none")
<i>Double1d</i>	Raster (description="Raster Position", quantity="none")
<i>String1d</i>	Id (description="Block ID", quantity="none")
<i>String1d</i>	Description (description="Verbose Description", quantity="none")
<i>Int1d</i>	OnSource (description="On-Source Label", quantity="none")
<i>Int1d</i>	OffSource1 (description="First Off-Source Label", quantity="none")
<i>Int1d</i>	OffSource2 (description="Second Off-Source Label", quantity="none")
<i>Int1d</i>	NrAvg (description="Average number", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Bool2d</i>	(description="null", quantity="none")
<i>composite</i>	(description="Mask data stored in bit encoded arrays")
<i>Metadata</i>	
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
StringParameter	camName (description="Name of the Camera")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
<i>array dataset</i>	(description="Mask that flags the blind pixels")

<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="Mask that flags the blind pixels", quantity="none")
<i>array dataset</i>	(description="Bad pixels")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="Bad pixels", quantity="none")
<i>array dataset</i>	(description="saturated pixels")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="saturated pixels", quantity="none")
<i>array dataset</i>	(description="Contains OR operation on all masks.")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="Contains OR operation on all masks.", quantity="none")
<i>array dataset</i>	(description="frames that are affected by the chopper transitions")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="frames that are affected by the chopper transitions", quantity="none")
<i>array dataset</i>	(description="null")

<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Int3d</i>	(description="null", quantity="none")

9.2.2. HPPAVGRS: Frames

	<i>list context (type="HPPAVGRS", description="Frames")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Relative time offset")
DoubleParameter	Apid (description="null")
DoubleParameter	subType (description="null")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="null")
LongParameter	qflag_pacs_phot_red_FailedSPUBuffer (description="null")
LongParameter	qflag_pacs_phot_blue_FailedSPUBuffer (description="null")
StringParameter	fileName (description="null")

StringParameter	qflag_RPSCISAT_p (description="null")
DoubleParameter	qflag_RPSCISAT_p_v (description="null")
<i>product</i>	(type="HPPAVGRS", description="Frames")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Relative time offset")
DoubleParameter	Apid (description="null")
DoubleParameter	subType (description="null")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="null")
LongParameter	qflag_pacs_phot_red_FailedSPUBuffer (description="null")
LongParameter	qflag_pacs_phot_blue_FailedSPUBuffer (description="null")
StringParameter	fileName (description="null")
StringParameter	qflag_RPSCISAT_p (description="null")
DoubleParameter	qflag_RPSCISAT_p_v (description="null")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>table dataset</i>	(description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status paramet", quantity="none")
<i>Long1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Long1d</i>	BBID (description="Building block type", quantity="none")

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<i>LongId</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>IntId</i>	CPR (description="Chopper position", quantity="none")
<i>IntId</i>	WPR (description="Filter wheel Position", quantity="none")
<i>IntId</i>	CRDC (description="OBT clock tick counter since last time reset", quantity="none")
<i>IntId</i>	CRDCCP (description="OBT clock tick counter in current chopper plate", quantity="none")
<i>IntId</i>	DBID (description="Data Block ID", quantity="none")
<i>BoolId</i>	DMCSEQACTIVE (description="Indicates if a DMC sequence executing", quantity="none")
<i>IntId</i>	CALSOURCE (description="Chopper on Calibration source 1, 2 or off (0)", quantity="none")
<i>StringId</i>	BAND (description="Wavelength Band", quantity="none")
<i>IntId</i>	BBTYPE (description="Building Block Type", quantity="none")
<i>IntId</i>	BBSEQCNT (description="Building Block Sequence Count", quantity="none")
<i>IntId</i>	DP_WHICH_OBCP (description="OBCP Number", quantity="none")
<i>DoubleId</i>	CHOPFPUANGLE (description="chopper angle in degrees wrt. FPU", quantity="none")
<i>DoubleId</i>	CHOPSKYANGLE (description="chopper angle in arc mins wrt. sky", quantity="none")
<i>DoubleId</i>	RaArray (description="RA", quantity="none")
<i>DoubleId</i>	DecArray (description="Declination", quantity="none")
<i>DoubleId</i>	RaArrayErr (description="RA Error", quantity="none")
<i>DoubleId</i>	DecArrayErr (description="Declination Error", quantity="none")
<i>StringId</i>	Mode (description="Pointing Mode", quantity="none")
<i>LongId</i>	RasterLineNum (description="Pointing Raster Line Number", quantity="none")
<i>LongId</i>	RasterColumnNum (description="Pointing Raster Column Number", quantity="none")
<i>LongId</i>	NodCycleNum (description="Pointing Nod Cycle Number", quantity="none")
<i>BoolId</i>	OnTarget (description="On Target flag", quantity="none")
<i>BoolId</i>	AbPosId (description="onRaster and offRaster Nod information", quantity="none")
<i>BoolId</i>	IsSlew (description="Slew of the Sattelite", quantity="none")
<i>BoolId</i>	IsOffPos (description="Off Position flag", quantity="none")
<i>LongId</i>	ScanLineNumber (description="Scan Line number", quantity="none")
<i>StringId</i>	AcmsMode (description="ACMS mode", quantity="none")
<i>StringId</i>	Aperture (description="Aperture", quantity="none")
<i>BoolId</i>	IsAPosition (description="is A position", quantity="none")
<i>BoolId</i>	IsBPosition (description="is B position", quantity="none")
<i>BoolId</i>	IsOutOfField (description="Is Out of Field", quantity="none")
<i>BoolId</i>	IsSerendipity (description="is serendipity mode", quantity="none")
<i>IntId</i>	DithPos (description="Dithering Position", quantity="none")
<i>IntId</i>	OnRasterPosCount (description="On Raster Position Counter", quantity="none")

<i>Int1d</i>	OffRasterPosCount (description="Off Raster Position Counter", quantity="none")
<i>Int1d</i>	NrChopperPlateau (description="Number of valid readouts per chopper plateau", quantity="none")
<i>Int1d</i>	UnCleanChop (description="Continuous numbering of Plateaus", quantity="none")
<i>table dataset</i>	(description="BlockTable")
<i>Metadata</i>	
StringParameter	MODE (description="PACS Mode")
<i>Int1d</i>	Obcp (description="OBCP", quantity="none")
<i>Int1d</i>	DMSActive (description="Dec Mec Sequence Active", quantity="none")
<i>Int1d</i>	ChopperPlateau (description="Chopper Plateau", quantity="none")
<i>Int1d</i>	CalSource (description="Calibration Source", quantity="none")
<i>Int1d</i>	Filter (description="Filter", quantity="none")
<i>Int1d</i>	StartIdx (description="Start Index", quantity="none")
<i>Int1d</i>	EndIdx (description="End Index (NOT INCLUSIVE)", quantity="none")
<i>Int1d</i>	NrIdx (description="Number of Indexes", quantity="none")
<i>Double1d</i>	Raster (description="Raster Position", quantity="none")
<i>String1d</i>	Id (description="Block ID", quantity="none")
<i>String1d</i>	Description (description="Verbose Description", quantity="none")
<i>Int1d</i>	OnSource (description="On-Source Label", quantity="none")
<i>Int1d</i>	OffSource1 (description="First Off-Source Label", quantity="none")
<i>Int1d</i>	OffSource2 (description="Second Off-Source Label", quantity="none")
<i>Int1d</i>	NrAvg (description="Average number", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Bool2d</i>	(description="null", quantity="none")
<i>composite</i>	(description="Mask data stored in bit encoded arrays")
<i>Metadata</i>	
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
StringParameter	camName (description="Name of the Camera")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
<i>array dataset</i>	(description="Mask that flags the blind pixels")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")

LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="Mask that flags the blind pixels", quantity="none")
<i>array dataset</i>	(description="Bad pixels")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="Bad pixels", quantity="none")
<i>array dataset</i>	(description="saturated pixels")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="saturated pixels", quantity="none")
<i>array dataset</i>	(description="Contains OR operation on all masks.")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="Contains OR operation on all masks.", quantity="none")
<i>array dataset</i>	(description="frames that are affected by the chopper transitions")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="frames that are affected by the chopper transitions", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="none")
<i>array dataset</i>	(description="null")

<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Int3d</i>	(description="null", quantity="none")

9.3. PACS Photometry Level-2 Products

9.3.1. HPPAVGBS: Frames

<i>product (type="HPPAVGBS", description="Frames")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Relative time offset")
DoubleParameter	Apid (description="null")
DoubleParameter	subType (description="null")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="null")
LongParameter	qflag_pacs_phot_red_FailedSPUBuffer (description="null")
LongParameter	qflag_pacs_phot_blue_FailedSPUBuffer (description="null")
StringParameter	fileName (description="null")
StringParameter	qflag_BPSCISAT_p (description="null")
DoubleParameter	qflag_BPSCISAT_p_v (description="null")

<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>table dataset</i>	(description="Status")
<i>Metadata</i>	
<i>StringParameter</i>	MODE (description="null")
<i>LongParameter</i>	DIM1 (description="Number of measures per status parameter")
<i>LongId</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>LongId</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>IntId</i>	DP_WHICH_OBCP (description="OBCP Number", quantity="none")
<i>DoubleId</i>	CHOPFPUANGLE (description="chopper angle in degrees wrt. FPU", quantity="none")
<i>DoubleId</i>	CHOPSKYANGLE (description="chopper angle in arc mins wrt. sky", quantity="none")
<i>DoubleId</i>	RaArray (description="RA", quantity="none")
<i>DoubleId</i>	DecArray (description="Declination", quantity="none")
<i>DoubleId</i>	RaArrayErr (description="RA Error", quantity="none")
<i>DoubleId</i>	DecArrayErr (description="Declination Error", quantity="none")
<i>StringId</i>	Mode (description="Pointing Mode", quantity="none")
<i>LongId</i>	RasterLineNum (description="Pointing Raster Line Number", quantity="none")
<i>LongId</i>	RasterColumnNum (description="Pointing Raster Column Number", quantity="none")
<i>LongId</i>	NodCycleNum (description="Pointing Nod Cycle Number", quantity="none")
<i>BoolId</i>	OnTarget (description="On Target flag", quantity="none")
<i>BoolId</i>	AbPosId (description="onRaster and offRaster Nod information", quantity="none")
<i>BoolId</i>	IsSlew (description="Slew of the Sattelite", quantity="none")
<i>BoolId</i>	IsOffPos (description="Off Position flag", quantity="none")
<i>LongId</i>	ScanLineNumber (description="Scan Line number", quantity="none")
<i>StringId</i>	AcmsMode (description="ACMS mode", quantity="none")
<i>StringId</i>	Aperture (description="Aperture", quantity="none")
<i>BoolId</i>	IsAPosition (description="is A position", quantity="none")
<i>BoolId</i>	IsBPosition (description="is B position", quantity="none")
<i>BoolId</i>	IsOutOfField (description="Is Out of Field", quantity="none")
<i>BoolId</i>	IsSerendipity (description="is serendipity mode", quantity="none")
<i>IntId</i>	OnRasterPosCount (description="On Raster Position Counter", quantity="none")
<i>IntId</i>	OffRasterPosCount (description="Off Raster Position Counter", quantity="none")
<i>array dataset</i>	(description="null")

<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Int3d</i>	(description="null", quantity="none")
<i>table dataset</i>	(description="BlockTable")
<i>Metadata</i>	
<i>StringParameter</i>	MODE (description="PACS Mode")
<i>Int1d</i>	Obcp (description="OBCP", quantity="none")
<i>Int1d</i>	DMSActive (description="Dec Mec Sequence Active", quantity="none")
<i>Int1d</i>	ChopperPlateau (description="Chopper Plateau", quantity="none")
<i>Int1d</i>	CalSource (description="Calibration Source", quantity="none")
<i>Int1d</i>	Filter (description="Filter", quantity="none")
<i>Int1d</i>	StartIdx (description="Start Index", quantity="none")
<i>Int1d</i>	EndIdx (description="End Index (NOT INCLUSIVE)", quantity="none")
<i>Int1d</i>	NrIdx (description="Number of Indexes", quantity="none")
<i>Double1d</i>	Raster (description="Raster Position", quantity="none")
<i>String1d</i>	Id (description="Block ID", quantity="none")
<i>String1d</i>	Description (description="Verbose Description", quantity="none")
<i>Int1d</i>	OnSource (description="On-Source Label", quantity="none")
<i>Int1d</i>	OffSource1 (description="First Off-Source Label", quantity="none")
<i>Int1d</i>	OffSource2 (description="Second Off-Source Label", quantity="none")
<i>Int1d</i>	NrAvg (description="Average number", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Bool2d</i>	(description="null", quantity="none")
<i>composite</i>	(description="null")
<i>Metadata</i>	
<i>LongParameter</i>	number of rows (description="null")
<i>LongParameter</i>	number of columns (description="null")
<i>LongParameter</i>	number of resets (description="null")
<i>LongParameter</i>	number of samples (description="null")

StringParameter	camName (description="Name of the Camera")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
array dataset	(description="Mask that flags the blind pixels")
Metadata	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
Int3d	(description="Mask that flags the blind pixels", quantity="none")
array dataset	(description="Bad pixels")
Metadata	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
Int3d	(description="Bad pixels", quantity="none")
array dataset	(description="saturated pixels")
Metadata	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
Int3d	(description="saturated pixels", quantity="none")
array dataset	(description="Contains OR operation on all masks.")
Metadata	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
Int3d	(description="Contains OR operation on all masks.", quantity="none")
array dataset	(description="frames that are affected by the chopper transitions")
Metadata	
LongParameter	Mask dimension (description="null")

LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="frames that are affected by the chopper transitions", quantity="none")

9.3.2. HPPAVGRS: Frames

<i>product</i> (type="HPPAVGRS", description="Frames")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="Relative time offset")
DoubleParameter	Apid (description="null")
DoubleParameter	subType (description="null")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="null")
LongParameter	qflag_pacs_phot_red_FailedSPUBuffer (description="null")
LongParameter	qflag_pacs_phot_blue_FailedSPUBuffer (description="null")
StringParameter	fileName (description="null")
StringParameter	qflag_RPSCISAT_p (description="null")
DoubleParameter	qflag_RPSCISAT_p_v (description="null")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>table dataset</i>	(description="Status")

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<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
<i>LongId</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>LongId</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>IntId</i>	DP_WHICH_OBCP (description="OBCP Number", quantity="none")
<i>DoubleId</i>	CHOPFPUANGLE (description="chopper angle in degrees wrt. FPU", quantity="none")
<i>DoubleId</i>	CHOPSKYANGLE (description="chopper angle in arc mins wrt. sky", quantity="none")
<i>DoubleId</i>	RaArray (description="RA", quantity="none")
<i>DoubleId</i>	DecArray (description="Declination", quantity="none")
<i>DoubleId</i>	RaArrayErr (description="RA Error", quantity="none")
<i>DoubleId</i>	DecArrayErr (description="Declination Error", quantity="none")
<i>StringId</i>	Mode (description="Pointing Mode", quantity="none")
<i>LongId</i>	RasterLineNum (description="Pointing Raster Line Number", quantity="none")
<i>LongId</i>	RasterColumnNum (description="Pointing Raster Column Number", quantity="none")
<i>LongId</i>	NodCycleNum (description="Pointing Nod Cycle Number", quantity="none")
<i>BoolId</i>	OnTarget (description="On Target flag", quantity="none")
<i>BoolId</i>	AbPosId (description="onRaster and offRaster Nod information", quantity="none")
<i>BoolId</i>	IsSlew (description="Slew of the Sattelite", quantity="none")
<i>BoolId</i>	IsOffPos (description="Off Position flag", quantity="none")
<i>LongId</i>	ScanLineNumber (description="Scan Line number", quantity="none")
<i>StringId</i>	AcmsMode (description="ACMS mode", quantity="none")
<i>StringId</i>	Aperture (description="Aperture", quantity="none")
<i>BoolId</i>	IsAPosition (description="is A position", quantity="none")
<i>BoolId</i>	IsBPosition (description="is B position", quantity="none")
<i>BoolId</i>	IsOutOfField (description="Is Out of Field", quantity="none")
<i>BoolId</i>	IsSerendipity (description="is serendipity mode", quantity="none")
<i>IntId</i>	OnRasterPosCount (description="On Raster Position Counter", quantity="none")
<i>IntId</i>	OffRasterPosCount (description="Off Raster Position Counter", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="none")

<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Int3d</i>	(description="null", quantity="none")
<i>table dataset</i>	(description="BlockTable")
<i>Metadata</i>	
StringParameter	MODE (description="PACS Mode")
<i>Int1d</i>	Obcp (description="OBCP", quantity="none")
<i>Int1d</i>	DMSActive (description="Dec Mec Sequence Active", quantity="none")
<i>Int1d</i>	ChopperPlateau (description="Chopper Plateau", quantity="none")
<i>Int1d</i>	CalSource (description="Calibration Source", quantity="none")
<i>Int1d</i>	Filter (description="Filter", quantity="none")
<i>Int1d</i>	StartIdx (description="Start Index", quantity="none")
<i>Int1d</i>	EndIdx (description="End Index (NOT INCLUSIVE)", quantity="none")
<i>Int1d</i>	NrIdx (description="Number of Indexes", quantity="none")
<i>Double1d</i>	Raster (description="Raster Position", quantity="none")
<i>String1d</i>	Id (description="Block ID", quantity="none")
<i>String1d</i>	Description (description="Verbose Description", quantity="none")
<i>Int1d</i>	OnSource (description="On-Source Label", quantity="none")
<i>Int1d</i>	OffSource1 (description="First Off-Source Label", quantity="none")
<i>Int1d</i>	OffSource2 (description="Second Off-Source Label", quantity="none")
<i>Int1d</i>	NrAvg (description="Average number", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Bool2d</i>	(description="null", quantity="none")
<i>composite</i>	(description="null")
<i>Metadata</i>	
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
StringParameter	camName (description="Name of the Camera")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
<i>array dataset</i>	(description="Mask that flags the blind pixels")

<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="Mask that flags the blind pixels", quantity="none")
<i>array</i> <i>dataset</i>	(description="Bad pixels")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="Bad pixels", quantity="none")
<i>array</i> <i>dataset</i>	(description="saturated pixels")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="saturated pixels", quantity="none")
<i>array</i> <i>dataset</i>	(description="Contains OR operation on all masks.")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="Contains OR operation on all masks.", quantity="none")
<i>array</i> <i>dataset</i>	(description="frames that are affected by the chopper transitions")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")

<i>Int3d</i>	(description="frames that are affected by the chopper transitions", quantity="none")

9.4. PACS Spectroscopy Level-0 Products

9.4.1. HPSRAWBS: Raw Ramps. Readouts stored in a TableDataset.

<i>product</i> (type="HPSRAWBS", description="Raw Ramps. Readouts stored in a TableDataset.")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	camName (description="Name of the Camera")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
BooleanParameter	Initialized (description="null")
DoubleParameter	Apid (description="null")
DoubleParameter	subType (description="null")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="null")
LongParameter	RELTIMEOFFSET (description="null")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="Table for science data.")
<i>Metadata</i>	
<i>Int1d</i>	detnum (description="null", quantity="none")
<i>Int1d</i>	row (description="null", quantity="none")
<i>Int1d</i>	column (description="null", quantity="none")
<i>Int1d</i>	reset (description="null", quantity="none")
<i>Double2d</i>	readouts (description="null", quantity="none")
<i>table dataset</i>	(description="Status")

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<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status paramet", quantity="none")
<i>Long1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Int1d</i>	BBID (description="Building block type", quantity="none")
<i>Int2d</i>	LBL (description="Label", quantity="none")
<i>Int2d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
<i>Int2d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
<i>Long2d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Bool2d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
<i>Int2d</i>	CPR (description="Chopper position", quantity="none")
<i>Int2d</i>	WPR (description="Filter wheel Position", quantity="none")
<i>Int2d</i>	GPR (description="Grating Position", quantity="none")
<i>Int2d</i>	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
<i>Int2d</i>	RRR (description="Readouts in Ramp", quantity="none")
<i>Int2d</i>	CRDC (description="Current Readout counter since last time reset", quantity="none")
<i>Int2d</i>	CRECR (description="CRE status word", quantity="none")
<i>Bool2d</i>	DMCSEQACTIVE (description="Indicates if a DMC sequence executing", quantity="none")
<i>Int2d</i>	CHOPPERPLATEAU (description="Indicates the chopper plateau within a sequence", quantity="none")
<i>Int2d</i>	CALSOURCE (description="Chopper on Calibration source 1, 2 or off (0)", quantity="none")
<i>Int2d</i>	SCANDIR (description="Scan Direction", quantity="none")
<i>Bool2d</i>	WASWITCH (description="Indicates that we are in Wavelength switching", quantity="none")
<i>Int2d</i>	WASWITCHPOS (description="Give wavelength switch position (0,1,2)", quantity="none")
<i>Int2d</i>	PIX (description="PIX counter for synchronisation to SPU housekeeping (CompressedEntHeader", quantity="none")
<i>Int2d</i>	RCX (description="Raw Channel Index in CompressedEntHeader", quantity="none")
<i>Int2d</i>	RESETCNT (description="Reset counter to identify frames belonging to a", quantity="none")
<i>Int1d</i>	BLOCKIDX (description="Reference to the BlockTable entry", quantity="none")
<i>composite</i>	(description="Mask data stored in a table")
<i>Metadata</i>	

LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
StringParameter	camName (description="Name of the Camera")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
<i>table dataset</i>	<i>(description="Mask data stored bit encoded in a table")</i>
<i>Metadata</i>	
<i>Int1d</i>	detnum (description="null", quantity="none")
<i>Int1d</i>	row (description="null", quantity="none")
<i>Int1d</i>	column (description="null", quantity="none")
<i>Int1d</i>	reset (description="null", quantity="none")
<i>Int2d</i>	BLINDPIXELS (description="4 D Mask", quantity="none")

9.4.2. HPSRAWRS: Raw Ramps. Readouts stored in a TableDataset.

<i>product (type="HPSRAWRS", description="Raw Ramps. Readouts stored in a TableDataset.")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	camName (description="Name of the Camera")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
BooleanParameter	Initialized (description="null")
DoubleParameter	Apid (description="null")
DoubleParameter	subType (description="null")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="null")
LongParameter	RELTIMEOFFSET (description="null")

StringParameter	fileName (description="null")
<i>table dataset</i>	(description="Table for science data.")
<i>Metadata</i>	
<i>Int1d</i>	detnum (description="null", quantity="none")
<i>Int1d</i>	row (description="null", quantity="none")
<i>Int1d</i>	column (description="null", quantity="none")
<i>Int1d</i>	reset (description="null", quantity="none")
<i>Double2d</i>	readouts (description="null", quantity="none")
<i>table dataset</i>	(description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status paramet", quantity="none")
<i>Long1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Int1d</i>	BBID (description="Building block type", quantity="none")
<i>Int2d</i>	LBL (description="Label", quantity="none")
<i>Int2d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
<i>Int2d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
<i>Long2d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Bool2d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
<i>Int2d</i>	CPR (description="Chopper position", quantity="none")
<i>Int2d</i>	WPR (description="Filter wheel Position", quantity="none")
<i>Int2d</i>	GPR (description="Grating Position", quantity="none")
<i>Int2d</i>	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
<i>Int2d</i>	RRR (description="Readouts in Ramp", quantity="none")
<i>Int2d</i>	CRDC (description="Current Readout counter since last time reset", quantity="none")
<i>Int2d</i>	CRECR (description="CRE status word", quantity="none")
<i>Bool2d</i>	DMCSEQACTIVE (description="Indicates if a DMC sequence executing", quantity="none")
<i>Int2d</i>	CHOPPERPLATEAU (description="Indicates the chopper plateau within a sequence", quantity="none")
<i>Int2d</i>	CALSOURCE (description="Chopper on Calibration source 1, 2 or off (0)", quantity="none")
<i>Int2d</i>	SCANDIR (description="Scan Direction", quantity="none")
<i>Bool2d</i>	WASWITCH (description="Indicates that we are in Wavelength switching", quantity="none")

	<i>Int2d</i>	WASWITCHPOS (description="Give wavelength switch position (0,1,2)", quantity="none")
	<i>Int2d</i>	PIX (description="PIX counter for synchronisation to SPU housekeeping (CompressedEntHeader", quantity="none")
	<i>Int2d</i>	RCX (description="Raw Channel Index in CompressedEntHeader", quantity="none")
	<i>Int2d</i>	RESETCNT (description="Reset counter to identify frames belonging to a", quantity="none")
	<i>Int1d</i>	BLOCKIDX (description="Reference to the BlockTable entry", quantity="none")
<i>composite</i> (description="Mask data stored in a table")		
<i>Metadata</i>		
	LongParameter	number of rows (description="null")
	LongParameter	number of columns (description="null")
	LongParameter	number of resets (description="null")
	LongParameter	number of samples (description="null")
	StringParameter	camName (description="Name of the Camera")
	LongParameter	detRow (description="Number of detector rows")
	LongParameter	detCol (description="Number of detector columns")
<i>table dataset</i> (description="Mask data stored bit encoded in a table")		
<i>Metadata</i>		
	<i>Int1d</i>	detnum (description="null", quantity="none")
	<i>Int1d</i>	row (description="null", quantity="none")
	<i>Int1d</i>	column (description="null", quantity="none")
	<i>Int1d</i>	reset (description="null", quantity="none")
	<i>Int2d</i>	BLINDPIXELS (description="4 D Mask", quantity="none")

9.4.3. HPSAVGBS: Complete (Sub-) Ramps. Readouts stored in an ArrayDataset

<i>product</i> (type="HPSAVGBS", description="Complete (Sub-) Ramps. Readouts stored in an ArrayDataset")		
<i>Metadata</i>		
	StringParameter	type (description="Product Type Identification")
	StringParameter	creator (description="Generator of this product")
	DateParameter	creationDate (description="Creation date of this product")
	StringParameter	description (description="Name of this product")
	StringParameter	instrument (description="Instrument attached to this product")
	StringParameter	modelName (description="Model name attached to this product")
	DateParameter	startDate (description="Start date of this product")
	DateParameter	endDate (description="End date of this product")
	StringParameter	camName (description="Name of the Camera")
	LongParameter	detRow (description="Number of detector rows")

LongParameter	detCol (description="Number of detector columns")
BooleanParameter	Initialized (description="null")
DoubleParameter	Apid (description="null")
DoubleParameter	subType (description="null")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="null")
LongParameter	RELTIMEOFFSET (description="null")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status paramet", quantity="none")
<i>Long1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Int1d</i>	BBID (description="Building block type", quantity="none")
<i>Int2d</i>	LBL (description="Label", quantity="none")
<i>Int2d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
<i>Int2d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
<i>Long2d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Bool2d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
<i>Int2d</i>	CPR (description="Chopper position", quantity="none")
<i>Int2d</i>	WPR (description="Filter wheel Position", quantity="none")
<i>Int2d</i>	GPR (description="Grating Position", quantity="none")
<i>Int2d</i>	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
<i>Int2d</i>	RRR (description="Readouts in Ramp", quantity="none")
<i>Int2d</i>	CRDC (description="Current Readout counter since last time reset", quantity="none")
<i>Int2d</i>	CRECR (description="CRE status word", quantity="none")
<i>Bool2d</i>	DMCSEQACTIVE (description="Indicates if a DMC sequence executing", quantity="none")
<i>Int2d</i>	CHOPPERPLATEAU (description="Indicates the chopper plateau within a sequence", quantity="none")
<i>Int2d</i>	CALSOURCE (description="Chopper on Calibration source 1, 2 or off (0)", quantity="none")

	<i>Int2d</i>	SCANDIR (description="Scan Direction", quantity="none")
	<i>Bool2d</i>	WASWITCH (description="Indicates that we are in Wavelength switching", quantity="none")
	<i>Int2d</i>	WASWITCHPOS (description="Give wavelength switch position (0,1,2)", quantity="none")
	<i>Int2d</i>	PIX (description="PIX counter for synchronisation to SPU housekeeping (CompressedEntHeader", quantity="none")
	<i>Int2d</i>	RCX (description="Raw Channel Index in CompressedEntHeader", quantity="none")
	<i>Int2d</i>	RESETCNT (description="Reset counter to identify frames belonging to a", quantity="none")
	<i>Int1d</i>	BLOCKIDX (description="Reference to the BlockTable entry", quantity="none")
	<i>Int1d</i>	DP_WHICH_OBCP (description="OBCP Number", quantity="none")
<i>array dataset</i>		(description="null")
	<i>Metadata</i>	
	<i>Double4d</i>	(description="null", quantity="none")
<i>composite</i>		(description="Mask data stored in bit encoded arrays")
	<i>Metadata</i>	
	LongParameter	number of rows (description="null")
	LongParameter	number of columns (description="null")
	LongParameter	number of resets (description="null")
	LongParameter	number of samples (description="null")
	StringParameter	camName (description="Name of the Camera")
	LongParameter	detRow (description="Number of detector rows")
	LongParameter	detCol (description="Number of detector columns")
<i>array dataset</i>		(description="Mask that flags the blind pixels")
	<i>Metadata</i>	
	LongParameter	Mask dimension (description="null")
	LongParameter	number of rows (description="null")
	LongParameter	number of columns (description="null")
	LongParameter	number of resets (description="null")
	LongParameter	number of samples (description="null")
	<i>Int3d</i>	(description="Mask that flags the blind pixels", quantity="none")

9.4.4. HPSAVGRS: Complete (Sub-) Ramps. Readouts stored in an ArrayDataset

<i>product (type="HPSAVGRS", description="Complete (Sub-) Ramps. Readouts stored in an ArrayDataset")</i>		
	<i>Metadata</i>	
	StringParameter	type (description="Product Type Identification")

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StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	camName (description="Name of the Camera")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
BooleanParameter	Initialized (description="null")
DoubleParameter	Apid (description="null")
DoubleParameter	subType (description="null")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
StringParameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="null")
LongParameter	RELTIMEOFFSET (description="null")
StringParameter	fileName (description="null")
<i>table</i> <i>dataset</i>	(description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status paramet", quantity="none")
<i>Long1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Int1d</i>	BBID (description="Building block type", quantity="none")
<i>Int2d</i>	LBL (description="Label", quantity="none")
<i>Int2d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
<i>Int2d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
<i>Long2d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Bool2d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
<i>Int2d</i>	CPR (description="Chopper position", quantity="none")
<i>Int2d</i>	WPR (description="Filter wheel Position", quantity="none")
<i>Int2d</i>	GPR (description="Grating Position", quantity="none")

	<i>Int2d</i>	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
	<i>Int2d</i>	RRR (description="Readouts in Ramp", quantity="none")
	<i>Int2d</i>	CRDC (description="Current Readout counter since last time reset", quantity="none")
	<i>Int2d</i>	CRECR (description="CRE status word", quantity="none")
	<i>Bool2d</i>	DMCSEQACTIVE (description="Indicates if a DMC sequence executing", quantity="none")
	<i>Int2d</i>	CHOPPERPLATEAU (description="Indicates the chopper plateau within a sequence", quantity="none")
	<i>Int2d</i>	CALSOURCE (description="Chopper on Calibration source 1, 2 or off (0)", quantity="none")
	<i>Int2d</i>	SCANDIR (description="Scan Direction", quantity="none")
	<i>Bool2d</i>	WASWITCH (description="Indicates that we are in Wavelength switching", quantity="none")
	<i>Int2d</i>	WASWITCHPOS (description="Give wavelength switch position (0,1,2)", quantity="none")
	<i>Int2d</i>	PIX (description="PIX counter for synchronisation to SPU housekeeping (CompressedEntHeader", quantity="none")
	<i>Int2d</i>	RCX (description="Raw Channel Index in CompressedEntHeader", quantity="none")
	<i>Int2d</i>	RESETCNT (description="Reset counter to identify frames belonging to a", quantity="none")
	<i>Int1d</i>	BLOCKIDX (description="Reference to the BlockTable entry", quantity="none")
	<i>Int1d</i>	DP_WHICH_OBCP (description="OBCP Number", quantity="none")
<i>array dataset</i>		(description="null")
<i>Metadata</i>		
<i>Double4d</i>		(description="null", quantity="none")
<i>composite</i>		(description="Mask data stored in bit encoded arrays")
<i>Metadata</i>		
<i>LongParameter</i>		number of rows (description="null")
<i>LongParameter</i>		number of columns (description="null")
<i>LongParameter</i>		number of resets (description="null")
<i>LongParameter</i>		number of samples (description="null")
<i>StringParameter</i>		camName (description="Name of the Camera")
<i>LongParameter</i>		detRow (description="Number of detector rows")
<i>LongParameter</i>		detCol (description="Number of detector columns")
<i>array dataset</i>		(description="Mask that flags the blind pixels")
<i>Metadata</i>		
<i>LongParameter</i>		Mask dimension (description="null")
<i>LongParameter</i>		number of rows (description="null")
<i>LongParameter</i>		number of columns (description="null")
<i>LongParameter</i>		number of resets (description="null")

LongParameter	number of samples (description="null")
Int3d	(description="Mask that flags the blind pixels", quantity="none")

9.5. PACS Spectroscopy Level-1 Products

9.5.1. HPS3D: PACS Cube

<i>list context (type="HPS3D", description="PACS Spectral Cube")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="null")
LongParameter	obsid (description="null")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
StringParameter	band (description="null")
<i>product (type="HPS3D", description="PACS Spectral Cube")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
LongParameter	relTimeOffset (description="null")
LongParameter	obsid (description="null")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")

StringParameter	band (description="null")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="none")
<i>table dataset</i>	(description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status paramet", quantity="none")
<i>Long1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Int1d</i>	BBID (description="Building block type", quantity="none")
<i>Long1d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Int1d</i>	CPR (description="Chopper position", quantity="none")
<i>Int1d</i>	WPR (description="Filter wheel Position", quantity="none")
<i>Int1d</i>	GPR (description="Grating Position", quantity="none")
<i>Int1d</i>	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
<i>Int1d</i>	RRR (description="Readouts in Ramp", quantity="none")
<i>Int1d</i>	CRDC (description="Current Readout counter since last time reset", quantity="none")
<i>Int1d</i>	CRECR (description="CRE status word", quantity="none")
<i>Bool1d</i>	DMCSEQACTIVE (description="Indicates if a DMC sequence executing", quantity="none")
<i>Int1d</i>	CHOPPERPLATEAU (description="Indicates the chopper plateau within a sequence", quantity="none")
<i>Int1d</i>	CALSOURCE (description="Chopper on Calibration source 1, 2 or off (0)", quantity="none")
<i>Int1d</i>	SCANDIR (description="Scan Direction", quantity="none")
<i>Bool1d</i>	WASWITCH (description="Indicates that we are in Wavelength switching", quantity="none")
<i>Int1d</i>	WASWITCHPOS (description="Give wavelength switch position (0,1,2)", quantity="none")
<i>Int1d</i>	BLOCKIDX (description="Reference to the BlockTable entry", quantity="none")
<i>String1d</i>	BAND (description="Wavelength Band", quantity="none")
<i>Int1d</i>	DP_WHICH_OBCP (description="OBCP Number", quantity="none")
<i>Double1d</i>	CHOPPFUANGLE (description="chopper angle in degrees wrt. FPU", quantity="none")
<i>Double1d</i>	CHOPSKYANGLE (description="chopper angle in arc mins wrt. sky", quantity="none")
<i>Double1d</i>	RaArray (description="RA", quantity="none")
<i>Double1d</i>	DecArray (description="Declination", quantity="none")

<i>Double1d</i>	PaArray (description="Position Angle", quantity="none")
<i>Double1d</i>	RaArrayErr (description="RA Error", quantity="none")
<i>Double1d</i>	DecArrayErr (description="Declination Error", quantity="none")
<i>Double1d</i>	PaArrayErr (description="Position Angle Error", quantity="none")
<i>String1d</i>	Mode (description="Pointing Mode", quantity="none")
<i>Long1d</i>	RasterLineNum (description="Pointing Raster Line Number", quantity="none")
<i>Long1d</i>	RasterColumnNum (description="Pointing Raster Column Number", quantity="none")
<i>Long1d</i>	NodCycleNum (description="Pointing Nod Cycle Number", quantity="none")
<i>Bool1d</i>	OnTarget (description="On Target flag", quantity="none")
<i>Bool1d</i>	AbPosId (description="onRaster and offRaster Nod information", quantity="none")
<i>Bool1d</i>	IsSlew (description="Slew of the Sattelite", quantity="none")
<i>Bool1d</i>	IsOffPos (description="Off Position flag", quantity="none")
<i>Long1d</i>	ScanLineNumber (description="Scan Line number", quantity="none")
<i>String1d</i>	AcmsMode (description="ACMS mode", quantity="none")
<i>String1d</i>	Aperture (description="Aperture", quantity="none")
<i>Bool1d</i>	IsAPosition (description="is A position", quantity="none")
<i>Bool1d</i>	IsBPosition (description="is B position", quantity="none")
<i>Bool1d</i>	IsOutOfField (description="Is Out of Field", quantity="none")
<i>Bool1d</i>	IsSerendipity (description="is serendipity mode", quantity="none")
<i>Int1d</i>	RollArray (description="roll", quantity="none")
<i>Int1d</i>	GRATSCAN (description="counter of grating scans", quantity="none")
<i>Int1d</i>	CHOPPER (description="or combination of CHOPPERPLATEAU and CALSOURCE", quantity="none")
<i>String1d</i>	CHOPPOS (description="verbal description of chopper position from cal", quantity="none")
<i>Int1d</i>	NrChopperPlateau (description="Number of valid readouts per chopper plateau", quantity="none")
<i>Int1d</i>	UnCleanChop (description="Number of discarded samples on plateau", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="none")
<i>table dataset</i>	(description="BlockTable")
<i>Metadata</i>	
<i>StringParameter</i>	MODE (description="PACS Mode")
<i>Int1d</i>	Obcp (description="OBCP", quantity="none")
<i>Int1d</i>	DMSActive (description="Dec Mec Sequence Active", quantity="none")
<i>Int1d</i>	ChopperPlateau (description="Chopper Plateau", quantity="none")
<i>Int1d</i>	CalSource (description="Calibration Source", quantity="none")
<i>Int1d</i>	Filter (description="Filter", quantity="none")

<i>Int1d</i>	StartIdx (description="Start Index", quantity="none")
<i>Int1d</i>	EndIdx (description="End Index (NOT INCLUSIVE)", quantity="none")
<i>Int1d</i>	NrIdx (description="Number of Indexes", quantity="none")
<i>Double1d</i>	Raster (description="Raster Position", quantity="none")
<i>String1d</i>	Id (description="Block ID", quantity="none")
<i>String1d</i>	Description (description="Verbose Description", quantity="none")
<i>Int1d</i>	OnSource (description="On-Source Label", quantity="none")
<i>Int1d</i>	OffSource1 (description="First Off-Source Label", quantity="none")
<i>Int1d</i>	OffSource2 (description="Second Off-Source Label", quantity="none")
<i>Int1d</i>	ScanDir (description="Scan Direction", quantity="none")
<i>Int1d</i>	WaSwitch (description="Wavelength switch active", quantity="none")
<i>Int1d</i>	GPRMin (description="Minimum grating position", quantity="none")
<i>Int1d</i>	GPRMax (description="Maximum grating position", quantity="none")
<i>Int1d</i>	ResLen (description="Reset length", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Bool2d</i>	(description="null", quantity="none")
<i>composite</i>	(description="Mask data stored in bit encoded arrays")
<i>Metadata</i>	
<i>LongParameter</i>	number of rows (description="null")
<i>LongParameter</i>	number of columns (description="null")
<i>LongParameter</i>	number of resets (description="null")
<i>LongParameter</i>	number of samples (description="null")
<i>StringParameter</i>	camName (description="Name of the Camera")
<i>LongParameter</i>	detRow (description="Number of detector rows")
<i>LongParameter</i>	detCol (description="Number of detector columns")
<i>array dataset</i>	(description="copied mask from Ramps object")
<i>Metadata</i>	
<i>LongParameter</i>	Mask dimension (description="null")
<i>LongParameter</i>	number of rows (description="null")
<i>LongParameter</i>	number of columns (description="null")
<i>LongParameter</i>	number of resets (description="null")
<i>LongParameter</i>	number of samples (description="null")
<i>Int3d</i>	(description="copied mask from Ramps object", quantity="none")
<i>array dataset</i>	(description="copied mask from Ramps object")
<i>Metadata</i>	
<i>LongParameter</i>	Mask dimension (description="null")
<i>LongParameter</i>	number of rows (description="null")
<i>LongParameter</i>	number of columns (description="null")
<i>LongParameter</i>	number of resets (description="null")

LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="copied mask from Ramps object", quantity="none")
<i>array</i> <i>dataset</i>	(description="copied mask from Ramps object")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="copied mask from Ramps object", quantity="none")
<i>array</i> <i>dataset</i>	(description="copied mask from Ramps object")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="copied mask from Ramps object", quantity="none")
<i>array</i> <i>dataset</i>	(description="copied mask from Ramps object")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="copied mask from Ramps object", quantity="none")
<i>array</i> <i>dataset</i>	(description="copied mask from Ramps object")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="copied mask from Ramps object", quantity="none")
<i>array</i> <i>dataset</i>	(description="copied mask from Ramps object")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")

LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
Int3d	(description="copied mask from Ramps object", quantity="none")
array dataset	(description="the ramp fit failed at these detectors")
Metadata	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
Int3d	(description="the ramp fit failed at these detectors", quantity="none")
array dataset	(description="null")
Metadata	
Double3d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Double3d	(description="null", quantity="none")
composite	(description="History of product")
Metadata	
LongParameter	id (description="Unique ID")
table dataset	(description="History as Jython script")
Metadata	
StringParameter	outvar (description="last output variable")
StringId	Lines (description="script lines", quantity="none")
table dataset	(description="History of tasks")
Metadata	
LongId	ID (description="Links the parameter and task table", quantity="none")
StringId	Name (description="The name of the task", quantity="none")
LongId	ExecDate (description="Time of execution (FINETIME)", quantity="none")
BoolId	Succeeded (description="Flag for success/failed", quantity="none")
LongId	HistoryId (description="Id of current history", quantity="none")
table dataset	(description="The parameters belonging to the task history")
Metadata	
LongId	TaskID (description="Links the parameter and task table", quantity="none")
StringId	Name (description="The name of the parameter", quantity="none")
StringId	Type (description="Type of parameter", quantity="none")
StringId	Value (description="String representation of the parameter value", quantity="none")

<i>BoolId</i>	IsDefault (description="True if the default value has been used", quantity="none")
<i>LongId</i>	IncHistoryId (description="ID of the history of an included product", quantity="none")
<i>IntId</i>	IncNumTask (description="Number of tasks to include from history", quantity="none")
<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
<i>BoolId</i>	UserInput (description="Needs user input", quantity="none")

9.6. PACS Spectroscopy Level-2 Products

Chapter 10. PACS Calibration Products

10.1. PACS Common Calibration History Products

10.1.1. ChopperAngle

<i>product</i> (type="ChopperAngle", description="Chopper position readout versus chopper angle calibration")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
StringParameter	calFileId (description="Calfile type identifier")
StringParameter	formatVersion (description="Calfile format version")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
<i>array dataset</i>	(description="FP I Voltage readback")
<i>Metadata</i>	
<i>DoubleId</i>	(description="FP I Voltage readback", quantity="none")
<i>array dataset</i>	(description="Deflection angle")
<i>Metadata</i>	
<i>DoubleId</i>	(description="Deflection angle", quantity="none")
<i>array dataset</i>	(description="zero offset corrected FP I Voltage readback")
<i>Metadata</i>	
<i>DoubleId</i>	(description="zero offset corrected FP I Voltage readback", quantity="none")
<i>array dataset</i>	(description="zero offset corrected deflection angle")
<i>Metadata</i>	
<i>DoubleId</i>	(description="zero offset corrected deflection angle", quantity="none")
<i>array dataset</i>	(description="Zeiss amplification factor")

<i>Metadata</i>	
<i>DoubleId</i>	(description="Zeiss amplification factor", quantity="none")
<i>array dataset</i>	(description="CSL amplification factor")
<i>Metadata</i>	
<i>DoubleId</i>	(description="CSL amplification factor", quantity="none")
<i>array dataset</i>	(description="Zero point offset")
<i>Metadata</i>	
<i>DoubleId</i>	(description="Zero point offset", quantity="none")
<i>array dataset</i>	(description="conversion factor to convert decmec readouts to voltages")
<i>Metadata</i>	
<i>DoubleId</i>	(description="conversion factor to convert decmec readouts to voltages", quantity="none")
<i>array dataset</i>	(description="3 deflection angle ranges of polynomial fits (Science, Calibration w)")
<i>Metadata</i>	
<i>DoubleId</i>	(description="3 deflection angle ranges of polynomial fits (Science, Calibration w)", quantity="none")
<i>array dataset</i>	(description="fitted polynomial coefficients of calibration window for conversion")
<i>Metadata</i>	
<i>DoubleId</i>	(description="fitted polynomial coefficients of calibration window for conversion", quantity="none")
<i>array dataset</i>	(description="fitted polynomial coefficients of calibration window for conversion")
<i>Metadata</i>	
<i>DoubleId</i>	(description="fitted polynomial coefficients of calibration window for conversion", quantity="none")
<i>array dataset</i>	(description="fitted polynomial coefficients of science window for conversion volt")
<i>Metadata</i>	
<i>DoubleId</i>	(description="fitted polynomial coefficients of science window for conversion volt", quantity="none")
<i>array dataset</i>	(description="fitted polynomial coefficients of calibration window for conversion")
<i>Metadata</i>	
<i>DoubleId</i>	(description="fitted polynomial coefficients of calibration window for conversion", quantity="none")
<i>array dataset</i>	(description="fitted polynomial coefficients of calibration window for conversion")
<i>Metadata</i>	
<i>DoubleId</i>	(description="fitted polynomial coefficients of calibration window for conversion", quantity="none")

<i>array dataset</i>	(description="fitted polynomial coefficients of science window for conversion angl")
<i>Metadata</i>	
<i>DoubleId</i>	(description="fitted polynomial coefficients of science window for conversion angl", quantity="none")

10.1.2. ChopperAngleRedundant

<i>product</i> (type="ChopperAngleRedundant", description="Chopper position readout versus chopper angle calibration for redundant chopper")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	calFileId (description="null")
StringParameter	formatVersion (description="Calfile format version")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
<i>array dataset</i>	(description="FP II Voltage readback")
<i>Metadata</i>	
<i>DoubleId</i>	(description="FP II Voltage readback", quantity="none")
<i>array dataset</i>	(description="Deflection angle")
<i>Metadata</i>	
<i>DoubleId</i>	(description="Deflection angle", quantity="none")
<i>array dataset</i>	(description="zero offset corrected FP II Voltage readback")
<i>Metadata</i>	
<i>DoubleId</i>	(description="zero offset corrected FP II Voltage readback", quantity="none")
<i>array dataset</i>	(description="zero offset corrected deflection angle")
<i>Metadata</i>	
<i>DoubleId</i>	(description="zero offset corrected deflection angle", quantity="none")
<i>array dataset</i>	(description="Zeiss amplification factor")
<i>Metadata</i>	
<i>DoubleId</i>	(description="Zeiss amplification factor", quantity="none")

<i>array</i>	<i>(description="CSL amplification factor")</i>
<i>dataset</i>	
<i>Metadata</i>	
<i>DoubleId</i>	<i>(description="CSL amplification factor", quantity="none")</i>
<i>array</i>	<i>(description="Zero point offset")</i>
<i>dataset</i>	
<i>Metadata</i>	
<i>DoubleId</i>	<i>(description="Zero point offset", quantity="none")</i>
<i>array</i>	<i>(description="conversion factor to convert decmec readouts to voltages")</i>
<i>dataset</i>	
<i>Metadata</i>	
<i>DoubleId</i>	<i>(description="conversion factor to convert decmec readouts to voltages", quantity="none")</i>
<i>array</i>	<i>(description="3 deflection angle ranges of polynomial fits (Science, Calibration w")</i>
<i>dataset</i>	
<i>Metadata</i>	
<i>DoubleId</i>	<i>(description="3 deflection angle ranges of polynomial fits (Science, Calibration w", quantity="none")</i>
<i>array</i>	<i>(description="fitted polynomial coefficients of calibration window for conversion")</i>
<i>dataset</i>	
<i>Metadata</i>	
<i>DoubleId</i>	<i>(description="fitted polynomial coefficients of calibration window for conversion", quantity="none")</i>
<i>array</i>	<i>(description="fitted polynomial coefficients of calibration window for conversion")</i>
<i>dataset</i>	
<i>Metadata</i>	
<i>DoubleId</i>	<i>(description="fitted polynomial coefficients of calibration window for conversion", quantity="none")</i>
<i>array</i>	<i>(description="fitted polynomial coefficients of science window for conversion volt")</i>
<i>dataset</i>	
<i>Metadata</i>	
<i>DoubleId</i>	<i>(description="fitted polynomial coefficients of science window for conversion volt", quantity="none")</i>
<i>array</i>	<i>(description="fitted polynomial coefficients of calibration window for conversion")</i>
<i>dataset</i>	
<i>Metadata</i>	
<i>DoubleId</i>	<i>(description="fitted polynomial coefficients of calibration window for conversion", quantity="none")</i>
<i>array</i>	<i>(description="fitted polynomial coefficients of calibration window for conversion")</i>
<i>dataset</i>	
<i>Metadata</i>	
<i>DoubleId</i>	<i>(description="fitted polynomial coefficients of calibration window for conversion", quantity="none")</i>
<i>array</i>	<i>(description="fitted polynomial coefficients of science window for conversion angl")</i>
<i>dataset</i>	

<i>Metadata</i>	
<i>DoubleId</i>	(description="fitted polynomial coefficients of science window for conversion angl", quantity="none")

10.1.3. ChopperJitterThreshold

product (type="ChopperJitterThreshold", description="Defines the thresholds in position readouts for the required accuracy of the final chopper positions for the science and calibration window")

<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
StringParameter	calFileId (description="Product Type Identification")
StringParameter	formatVersion (description="Calfile format version")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
<i>array dataset</i>	(description="specified position accuracy threshold for a plateaux in calibration")
<i>Metadata</i>	
<i>DoubleId</i>	(description="specified position accuracy threshold for a plateaux in calibration", quantity="none")
<i>array dataset</i>	(description="specified position accuracy threshold for a plateaux in science wind")
<i>Metadata</i>	
<i>DoubleId</i>	(description="specified position accuracy threshold for a plateaux in science wind", quantity="none")

10.1.4. ChopperSkyAngle

product (type="ChopperSkyAngle", description="Conversion factor for chopper physical deflection angle (degrees) to angle on sky (arcmin), and zero offset between mechanical and optical zero")

<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")

StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	calFileId (description="null")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
<i>array dataset</i>	(description="zero offset between mechanical and optical zero")
<i>Metadata</i>	
<i>Int1d</i>	(description="zero offset between mechanical and optical zero", quantity="none")
<i>array dataset</i>	(description="conversion factor from chopper deflection (degrees) to angle on sky&")
<i>Metadata</i>	
<i>Double1d</i>	(description="conversion factor from chopper deflection (degrees) to angle on sky&", quantity="none")

10.1.5. FilterWheel2Band

<i>product (type="FilterWheel2Band", description="Defines the wheel position (wpr) readout to band conversion")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
StringParameter	calFileId (description="null")
StringParameter	formatVersion (description="Calfile format version")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="FilterWheel to Band Conversion")
<i>Metadata</i>	
<i>Int1d</i>	wpr (description="0.0 1", quantity="none")
<i>String1d</i>	band (description="0.0 1", quantity="none")
<i>String1d</i>	camera (description="0.0 1", quantity="none")
<i>String1d</i>	description (description="0.0 1", quantity="none")

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10.1.6. ObcpDescription

<i>product (type="ObcpDescription", description="Holds a description of the OBCP and DecMec Sequences, and the blocks which they contain")</i>				
<i>Metadata</i>				
StringParameter	type	(description="Product Type Identification")		
StringParameter	creator	(description="Generator of this product")		
DateParameter	creationDate	(description="Creation date of this product")		
StringParameter	description	(description="Name of this product")		
StringParameter	instrument	(description="Instrument attached to this product")		
StringParameter	modelName	(description="Model name attached to this product")		
DateParameter	startDate	(description="Start date of this product")		
DateParameter	endDate	(description="End date of this product")		
StringParameter	calFileId	(description="Filename used for saving FITS file")		
LongParameter	calFileVersion	(description="Calfile version")		
StringParameter	formatVersion	(description="Calfile Format version")		
StringParameter	fileName	(description="null")		
StringParameter	author	(description="null")		
<i>table dataset</i>	<i>(description="OBCP and DMCS Description")</i>			
<i>Metadata</i>				
	<i>IntId</i>	OBCPNumber	(description="OBCP Number", quantity="none")	
	<i>StringId</i>	OBCPDescription	(description="OBCP Description", quantity="none")	
	<i>IntId</i>	DMCSNumber	(description="DMC Sequence Number", quantity="none")	
	<i>StringId</i>	DMCSDescription	(description="DMC Sequence Description", quantity="none")	
<i>table dataset</i>	<i>(description="OBCP Block descriptions")</i>			
<i>Metadata</i>				
	<i>IntId</i>	OBCPNumber	(description="OBCP Number", quantity="none")	
	<i>StringId</i>	BlockId	(description="Block ID", quantity="none")	
	<i>StringId</i>	BlockDesc	(description="Block Description", quantity="none")	
	<i>BoolId</i>	IsSpec	(description="True if it is a Spectrometer OBCP", quantity="none")	
	<i>StringId</i>	Labels	(description="Identification Labels", quantity="none")	

10.1.7. Siam

<i>product (type="Siam", description="Spacecraft-Instrument alignment matrices")</i>				
<i>Metadata</i>				
StringParameter	type	(description="Product Type Identification")		

StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
StringParameter	calFileId (description="Calfile type identifier")
StringParameter	formatVersion (description="Calfile format version")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
StringParameter	starTracker (description="Active Star-tracker ID")
<i>array</i> <i>dataset</i>	(description="Photometer SIAM")
<i>Metadata</i>	
StringParameter	apertureId (description="Aperture identifier")
DateParameter	validityStart (description="Start of calibration validity")
LongParameter	nSaa (description="Number of reference Solar Aspect Angles")
<i>Double2d</i>	(description="Photometer SIAM", quantity="none")
<i>array</i> <i>dataset</i>	(description="Photometer SIAM")
<i>Metadata</i>	
StringParameter	apertureId (description="Aperture identifier")
DateParameter	validityStart (description="Start of calibration validity")
LongParameter	nSaa (description="Number of reference Solar Aspect Angles")
<i>Double2d</i>	(description="Photometer SIAM", quantity="none")

10.1.8. TimeDependency

<i>product (type="TimeDependency", description="Defines time dependency for calibration products.")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	calFileId (description="Calfile Type identifier")

StringParameter	formatVersion (description="Calfile Format version")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	scope (description="null")
StringParameter	fileName (description="Filename used for saving FITS file")
StringParameter	author (description="null")
StringParameter	versionNotes (description="null")
<i>table dataset</i>	(description="Time Dependency Table for FM")
<i>Metadata</i>	
StringParameter	modelName (description="The instrument model name")
DateParameter	lastUpdated (description="null")
StringParameter	lastUpdatedBy (description="null")
StringParameter	scope (description="scope can take values of BASE, TEST, or PRIVATE")
<i>StringId</i>	type (description="null", quantity="none")
<i>StringId</i>	unit (description="null", quantity="none")
<i>LongId</i>	time (description="null", quantity="none")
<i>LongId</i>	version (description="null", quantity="none")
<i>StringId</i>	comment (description="null", quantity="none")

10.2. PACS Photometer Calibration Products

10.2.1. Absorption

<i>product (type="Absorption", description="Absorption values Photometer")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	calFileId (description="Calfile type identifier")
StringParameter	formatVersion (description="Calfile format version")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	bands (description="PACS band")
StringParameter	fileName (description="null")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	

	<i>Float1d</i>	(description="null", quantity="none")
<i>array</i>	<i>dataset</i>	(description="null")
	<i>Metadata</i>	
	<i>Float1d</i>	(description="null", quantity="none")

10.2.2. ArrayInstrument

<i>product (type="ArrayInstrument", description="Array to Instrument coordinate conversion")</i>		
<i>Metadata</i>		
StringParameter	type	(description="Product Type Identification")
StringParameter	creator	(description="Generator of this product")
DateParameter	creationDate	(description="Date of file creation")
StringParameter	description	(description="Name of this product")
StringParameter	instrument	(description="Instrument attached to this product")
StringParameter	modelName	(description="Model name attached to this product")
DateParameter	startDate	(description="Start date of this product")
DateParameter	endDate	(description="End date of this product")
StringParameter	calFileId	(description="Calfile type identifier")
StringParameter	formatVersion	(description="Calfile format version")
LongParameter	calFileVersion	(description="Calfile version")
StringParameter	author	(description="Author of the data")
StringParameter	fileName	(description="null")
<i>array</i>	<i>dataset</i>	(description="Maximum polynomial orders for y (blue)")
<i>Metadata</i>		
	<i>Int1d</i>	(description="Maximum polynomial orders for y (blue)", quantity="none")
<i>array</i>	<i>dataset</i>	(description="Cube with coefficients for y (blue)")
<i>Metadata</i>		
	<i>Double3d</i>	(description="Cube with coefficients for y (blue)", quantity="none")
<i>array</i>	<i>dataset</i>	(description="Maximum polynomial orders for z (blue)")
<i>Metadata</i>		
	<i>Int1d</i>	(description="Maximum polynomial orders for z (blue)", quantity="none")
<i>array</i>	<i>dataset</i>	(description="Cube with coefficients for z (blue)")
<i>Metadata</i>		
	<i>Double3d</i>	(description="Cube with coefficients for z (blue)", quantity="none")
<i>array</i>	<i>dataset</i>	(description="Maximum polynomial orders for y (red)")
<i>Metadata</i>		
	<i>Int1d</i>	(description="Maximum polynomial orders for y (red)", quantity="none")

<i>array dataset</i>	(description="Cube with coefficients for y (red)")
<i>Metadata</i>	
<i>Double3d</i>	(description="Cube with coefficients for y (red)", quantity="none")
<i>array dataset</i>	(description="Maximum polynomial orders for z (red)")
<i>Metadata</i>	
<i>Int1d</i>	(description="Maximum polynomial orders for z (red)", quantity="none")
<i>array dataset</i>	(description="Cube with coefficients for z (red)")
<i>Metadata</i>	
<i>Double3d</i>	(description="Cube with coefficients for z (red)", quantity="none")

10.2.3. BadPixelMask

<i>product (type="BadPixelMask", description="Bad pixels mask for PACS Photometer")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	calFileId (description="Calfile type identifier")
StringParameter	formatVersion (description="Calfile format version")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")
<i>array dataset</i>	(description="Bad Pixels mask for the Red Photometer")
<i>Metadata</i>	
<i>Bool2d</i>	(description="Bad Pixels mask for the Red Photometer", quantity="none")
<i>array dataset</i>	(description="Bad Pixels mask for the Blue Photometer")
<i>Metadata</i>	
<i>Bool2d</i>	(description="Bad Pixels mask for the Blue Photometer", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	

<i>Bool2d</i>	(description="null", quantity="none")

10.2.4. CalSources

<i>product</i> (type="CalSources", description="Flux per pixel from the internal calibration sources (CSs) in the blue and red channel")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	calFileId (description="Calfile type identifier")
StringParameter	formatVersion (description="Calfile format version")
StringParameter	calFieldVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="Calibration product fits filename")
LongParameter	calFileVersion (description="Calfile version")
<i>array dataset</i>	(description="CSs image cube through 70 microns filter")
<i>Metadata</i>	
<i>Double3d</i>	(description="CSs image cube through 70 microns filter", quantity="none")
<i>array dataset</i>	(description="Chopper positions of CSs70")
<i>Metadata</i>	
<i>Int1d</i>	(description="Chopper positions of CSs70", quantity="none")
<i>array dataset</i>	(description="CSs image cube through 100 microns filter")
<i>Metadata</i>	
<i>Double3d</i>	(description="CSs image cube through 100 microns filter", quantity="none")
<i>array dataset</i>	(description="Chopper positions of CSs100")
<i>Metadata</i>	
<i>Int1d</i>	(description="Chopper positions of CSs100", quantity="none")
<i>array dataset</i>	(description="CSs image cube through 160 microns filter")
<i>Metadata</i>	
<i>Double3d</i>	(description="CSs image cube through 160 microns filter", quantity="none")
<i>array dataset</i>	(description="Chopper positions of CSs160")

<i>Metadata</i>	
<i>Int1d</i>	(description="Chopper positions of CSs160", quantity="none")

10.2.5. CorrZeroLevel

<i>product (type="CorrZeroLevel", description="Zero-level correction for PACS Photometer.")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
StringParameter	calFileId (description="Calfile type identifier")
StringParameter	formatVersion (description="Calfile format version")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
<i>array dataset</i>	(description="Zero-level for the Red Photometer")
<i>Metadata</i>	
<i>Float2d</i>	(description="Zero-level for the Red Photometer", quantity="none")
<i>array dataset</i>	(description="Zero-level corr for the Blue Photometer")
<i>Metadata</i>	
<i>Float2d</i>	(description="Zero-level corr for the Blue Photometer", quantity="none")

10.2.6. CrosstalkMatrix

<i>product (type="CrosstalkMatrix", description="Photometer Crosstalk matrix for red and blue channel")</i>	
<i>Metadata</i>	
StringParameter	type (description="Photometer Crosstalk Matrix")
StringParameter	creator (description="creator of this calfile")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="description of this calfile")
StringParameter	instrument (description="null")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")

LongParameter	creationDate_ILLEGAL_FORMAT (description="Date of file creation")
StringParameter	calFileId (description="Photometer Crosstalk Matrix")
StringParameter	formatVersion (description="Calfile format version")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of Data")
StringParameter	fileName (description="Calfile product fits filename")
array dataset	(description="Photometer Crosstalk matrix for red channel")
Metadata	
Double2d	(description="Photometer Crosstalk matrix for red channel", quantity="none")
array dataset	(description="Photometer Crosstalk matrix for blue channel")
Metadata	
Double2d	(description="Photometer Crosstalk matrix for blue channel", quantity="none")

10.2.7. DetectorSortMatrix

<i>product (type="DetectorSortMatrix", description="Detector sorting matrices for the red and blue photometer.")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
StringParameter	calFileId (description="Calfile type identifier")
StringParameter	formatVersion (description="Calfile format version")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="Calibration product fits file")
array dataset	(description="null")
Metadata	
Int2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Int2d	(description="null", quantity="none")

10.2.8. DiffCS

<i>product (type="DiffCS", description="dCSRef, CS1-CS2 used as reference")</i>	
<i>Metadata</i>	
StringParameter	type (description="null")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	fileName (description="null")
StringParameter	calfileId (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")
StringParameter	channel (description="channel(s) stored")
StringParameter	author (description="null")
StringParameter	calFileId (description="null")
<i>composite (description="red")</i>	
<i>Metadata</i>	
DoubleParameter	cs1CPR (description="chopper position unit=(CU)")
DoubleParameter	cs1Bias (description=" VH-VL , unit=V")
StringParameter	Mode (description="{Direct,DDCS}")
DoubleParameter	cs1Gain (description="{0=high,1=low}, unit=none")
DoubleParameter	cs1Temperature (description="unit=Kelvin")
DateParameter	cs1Time (description="date")
DoubleParameter	cs2CPR (description="chopper position unit=(CU)")
DoubleParameter	cs2Bias (description=" VH-VL , unit=V")
DoubleParameter	cs2Gain (description="{0=high,1=low}, unit=none")
DoubleParameter	cs2Temperature (description="unit=Kelvin")
DateParameter	cs2Time (description="date")
<i>array dataset (description="CS1-CS2, unit=V")</i>	
<i>Metadata</i>	
Double2d	(description="CS1-CS2, unit=V", quantity="V")
<i>array dataset (description="CS1-CS2 noise, unit=V")</i>	
<i>Metadata</i>	
Double2d	(description="CS1-CS2 noise, unit=V", quantity="V")
<i>composite (description="blue")</i>	
<i>Metadata</i>	

StringParameter	creator (description="null")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	calFileId (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="null")
StringParameter	formatVersion (description="null")
StringParameter	bands (description="PACS band")
StringParameter	fileName (description="null")
StringParameter	title (description="null")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")
<i>table dataset</i>	(description="Filter transmission")
<i>Metadata</i>	
DoubleParameter	incidentAngleX (description="Euler X angle(deg) of incident ray in instrument frame (ZY=plane filter)")
DoubleParameter	incidentAngleY (description="Euler Y angle(deg) of incident ray in instrument frame (ZY=plane filter)")
DoubleParameter	incidentAngleZ (description="Euler Z angle(deg) of incident ray in instrument frame (ZY=plane filter)")
StringParameter	band (description="Filter band")
StringParameter	sourceFile (description="Source file used to build this transmission")
<i>Float1d</i>	transmission (description="Wavelengths", quantity="")
<i>Float1d</i>	wavelength (description="Transmission", quantity="micron [1.0E-6 m]")
<i>table dataset</i>	(description="Filter transmission")
<i>Metadata</i>	
DoubleParameter	incidentAngleX (description="Euler X angle(deg) of incident ray in instrument frame (ZY=plane filter)")
DoubleParameter	incidentAngleY (description="Euler Y angle(deg) of incident ray in instrument frame (ZY=plane filter)")
DoubleParameter	incidentAngleZ (description="Euler Z angle(deg) of incident ray in instrument frame (ZY=plane filter)")
StringParameter	band (description="Filter band")
StringParameter	sourceFile (description="Source file used to build this transmission")
<i>Float1d</i>	transmission (description="Wavelengths", quantity="")
<i>Float1d</i>	wavelength (description="Transmission", quantity="micron [1.0E-6 m]")
<i>table dataset</i>	(description="Filter transmission")

<i>Metadata</i>	
DoubleParameter	incidentAngleX (description="Euler X angle(deg) of incident ray in instrument frame (ZY=plane filter)")
DoubleParameter	incidentAngleY (description="Euler Y angle(deg) of incident ray in instrument frame (ZY=plane filter)")
DoubleParameter	incidentAngleZ (description="Euler Z angle(deg) of incident ray in instrument frame (ZY=plane filter)")
StringParameter	band (description="Filter band")
StringParameter	sourceFile (description="Source file used to build this transmission")
<i>Float1d</i>	transmission (description="Wavelengths", quantity="")
<i>Float1d</i>	wavelength (description="Transmission", quantity="micron [1.0E-6 m]")

10.2.10. FlatField

<i>product (type="FlatField", description="Flat field for Bolometer")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="null")
StringParameter	fileName (description="null")
StringParameter	calFileId (description="CalFile Type identifier")
StringParameter	formatVersion (description="Calfile Format Version")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")
<i>composite (description="Flat field for red channel")</i>	
<i>Metadata</i>	
DoubleParameter	MeanFlux (description="$\langle f_1 - f_2 \rangle$; unit=Jy/px")
DoubleParameter	DeltaFlux (description="$F_1 - F_2$; unit=Jy/px")
StringParameter	Summary (description="Flat field building context")
DateParameter	CreationDate (description="Creation date")
LongParameter	Obsid (description="obsid")
<i>array dataset (description="FlatField dimensionless")</i>	
<i>Metadata</i>	
<i>Double2d</i>	(description="FlatField dimensionless", quantity="")
<i>array dataset (description="Noise dimensionless")</i>	

<i>Metadata</i>	
<i>Double2d</i>	(description="Noise dimensionsless", quantity="")
<i>composite</i>	(description="Flat field for blue channel")
<i>Metadata</i>	
<i>DoubleParameter</i>	MeanFlux (description="<f1-f2>; unit=Jy/px")
<i>DoubleParameter</i>	DeltaFlux (description=" F1-F2 ; unit=Jy/px")
<i>StringParameter</i>	Summary (description="Flat field building context")
<i>DateParameter</i>	CreationDate (description="Creation date")
<i>LongParameter</i>	Obsid (description="obsid")
<i>array dataset</i>	(description="FlatField dimensionless")
<i>Metadata</i>	
<i>Double2d</i>	(description="FlatField dimensionless", quantity="")
<i>array dataset</i>	(description="Noise dimensionsless")
<i>Metadata</i>	
<i>Double2d</i>	(description="Noise dimensionsless", quantity="")
<i>composite</i>	(description="Flat field for green channel")
<i>Metadata</i>	
<i>DoubleParameter</i>	MeanFlux (description="<f1-f2>; unit=Jy/px")
<i>DoubleParameter</i>	DeltaFlux (description=" F1-F2 ; unit=Jy/px")
<i>StringParameter</i>	Summary (description="Flat field building context")
<i>DateParameter</i>	CreationDate (description="Creation date")
<i>LongParameter</i>	Obsid (description="obsid")
<i>array dataset</i>	(description="FlatField dimensionless")
<i>Metadata</i>	
<i>Double2d</i>	(description="FlatField dimensionless", quantity="")
<i>array dataset</i>	(description="Noise dimensionsless")
<i>Metadata</i>	
<i>Double2d</i>	(description="Noise dimensionsless", quantity="")

10.2.11. Gain

<i>product (type="Gain", description="Photometer Gain parameters for Digits to Volts conversion")</i>	
<i>Metadata</i>	
<i>StringParameter</i>	type (description="Product Type Identification")
<i>StringParameter</i>	creator (description="Generator of this product")
<i>DateParameter</i>	creationDate (description="Date of file creation")
<i>StringParameter</i>	description (description="Name of this product")
<i>StringParameter</i>	instrument (description="Instrument attached to this product")
<i>StringParameter</i>	modelName (description="Model name attached to this product")
<i>DateParameter</i>	startDate (description="Start time of this product")
<i>DateParameter</i>	endDate (description="End time of this product")
<i>StringParameter</i>	calFileId (description="Calfile type identifier")

StringParameter	formatVersion (description="Calfile format version")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
array dataset	(description="null")
Metadata	
Double1d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Double1d	(description="null", quantity="none")

10.2.12. Invntt

<i>product (type="Invntt", description="Noise2Noise correlation for MadMap")</i>	
Metadata	
StringParameter	type (description="null")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	calFileId (description="null")
StringParameter	formatVersion (description="Calfile format version")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
array dataset	(description="null")
Metadata	
Double2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Int1d	(description="null", quantity="none")

10.2.13. InvnttBL

<i>product (type="InvnttBL", description="BL band inverse noise time-time correlation for MadMap")</i>

<i>Metadata</i>	
StringParameter	type (description="null")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	calFileId (description="null")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	author (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	fileName (description="null")
array dataset	(description="null")
<i>Metadata</i>	
Double2d	(description="null", quantity="none")
array dataset	(description="null")
<i>Metadata</i>	
IntId	(description="null", quantity="none")

10.2.14. InvnttBS

<i>product (type="InvnttBS", description="BS band inverse noise time-time correlation for MadMap")</i>	
<i>Metadata</i>	
StringParameter	type (description="null")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	calFileId (description="null")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	author (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	fileName (description="null")
array dataset	(description="null")

<i>Metadata</i>		
<i>Double2d</i>		(description="null", quantity="none")
<i>array</i> <i>dataset</i>	(description="null")	
<i>Metadata</i>		
<i>Int1d</i>		(description="null", quantity="none")

10.2.15. InvnttRED

<i>product (type="InvnttRED", description="RED band inverse noise time-time correlation for MadMap")</i>		
<i>Metadata</i>		
StringParameter	type	(description="null")
StringParameter	creator	(description="null")
DateParameter	creationDate	(description="Creation date of this product")
StringParameter	description	(description="null")
StringParameter	instrument	(description="null")
StringParameter	modelName	(description="null")
DateParameter	startDate	(description="Start date of this product")
DateParameter	endDate	(description="End date of this product")
StringParameter	calFileId	(description="null")
StringParameter	formatVersion	(description="Calfile Format version")
StringParameter	author	(description="null")
LongParameter	calFileVersion	(description="null")
StringParameter	fileName	(description="null")
<i>array</i> <i>dataset</i>	(description="null")	
<i>Metadata</i>		
<i>Double2d</i>		(description="null", quantity="none")
<i>array</i> <i>dataset</i>	(description="null")	
<i>Metadata</i>		
<i>Int1d</i>		(description="null", quantity="none")

10.2.16. Masks

<i>product (type="Masks", description="Boolean-2D arrays marking the positions of permanently damaged or u")</i>		
<i>Metadata</i>		
StringParameter	type	(description="Product Type Identification")
StringParameter	creator	(description="Generator of this product")
DateParameter	creationDate	(description="Date of file creation")
StringParameter	description	(description="Name of this product")

StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
StringParameter	calFileId (description="Calfile type identifier")
StringParameter	formatVersion (description="Calfile format version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="Calibration product fits filename")
LongParameter	calFileVersion (description="Calfile version")
<i>array dataset</i>	(description="Mask of operational pixels on bolometer red")
<i>Metadata</i>	
<i>Bool2d</i>	(description="Mask of operational pixels on bolometer red", quantity="none")
<i>array dataset</i>	(description="Mask of operational pixels on bolometer blue")
<i>Metadata</i>	
<i>Bool2d</i>	(description="Mask of operational pixels on bolometer blue", quantity="none")

10.2.17. Responsivity

<i>product (type="Responsivity", description="Responsivity for Bolometer")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="null")
StringParameter	fileName (description="null")
StringParameter	calFileId (description="CalFile Type identifier")
StringParameter	formatVersion (description="Calfile Format Version")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="oefs' /")
<i>composite</i>	(description="Responsivity for red channel")
<i>Metadata</i>	
DoubleParameter	ConversionFactor (description="unit=Jy/pW/px")
DoubleParameter	EffectiveAperture (description="Surface; unit=m^2")
DoubleParameter	Bandwidth (description="unit=Hz")

DoubleParameter	RefWavelength (description="unit=micrometer")
DateParameter	CreationDate (description="Creation date")
DoubleParameter	Responsivity (description="Responsivity Unit=V/Jy/px")
DoubleParameter	Bias (description="<Vh-Vl> , unit=Volt")
DoubleParameter	Vlow (description="<Vlow> , unit=Volt")
StringParameter	Mode (description="readout mode")
LongParameter	Gain (description="0=high, 1=low")
LongParameter	Obsid (description="obsid")
<i>array dataset</i>	<i>(description="Responsivity Unit=V/Jy/px")</i>
<i>Metadata</i>	
<i>DoubleId</i>	<i>(description="Responsivity Unit=V/Jy/px", quantity="V/(W.m2.Hz)")</i>
<i>composite</i>	<i>(description="Responsivity for blue channel")</i>
<i>Metadata</i>	
DoubleParameter	ConversionFactor (description="unit=Jy/pW/px")
DoubleParameter	EffectiveAperture (description="Surface; unit=m^2")
DoubleParameter	Bandwidth (description="unit=Hz")
DoubleParameter	RefWavelength (description="unit=micrometer")
DateParameter	CreationDate (description="Creation date")
DoubleParameter	Responsivity (description="Responsivity Unit=V/Jy/px")
DoubleParameter	Bias (description="<Vh-Vl> , unit=Volt")
DoubleParameter	Vlow (description="<Vlow> , unit=Volt")
StringParameter	Mode (description="readout mode")
LongParameter	Gain (description="0=high, 1=low")
LongParameter	Obsid (description="obsid")
<i>array dataset</i>	<i>(description="Responsivity Unit=V/Jy/px")</i>
<i>Metadata</i>	
<i>DoubleId</i>	<i>(description="Responsivity Unit=V/Jy/px", quantity="V/(W.m2.Hz)")</i>
<i>composite</i>	<i>(description="Responsivity for green channel")</i>
<i>Metadata</i>	
DoubleParameter	ConversionFactor (description="unit=Jy/pW/px")
DoubleParameter	EffectiveAperture (description="Surface; unit=m^2")
DoubleParameter	Bandwidth (description="unit=Hz")
DoubleParameter	RefWavelength (description="unit=micrometer")
DateParameter	CreationDate (description="Creation date")
DoubleParameter	Responsivity (description="Responsivity Unit=V/Jy/px")
DoubleParameter	Bias (description="<Vh-Vl> , unit=Volt")
DoubleParameter	Vlow (description="<Vlow> , unit=Volt")
StringParameter	Mode (description="readout mode")
LongParameter	Gain (description="0=high, 1=low")
LongParameter	Obsid (description="obsid")
<i>array dataset</i>	<i>(description="Responsivity Unit=V/Jy/px")</i>

<i>Metadata</i>		
<i>DoubleId</i>		(description="Responsivity Unit=V/Jy/px", quantity="V/(W.m2.Hz)")

10.2.18. SatLimits

<i>product (type="SatLimits", description="Matrix of saturation values for Photometer")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
StringParameter	calFileId (description="Calfile type identifier")
StringParameter	formatVersion (description="Calfile format version")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
<i>array dataset</i>	(description="Saturation values signed modes")
<i>Metadata</i>	
<i>IntId</i> (description="Saturation values signed modes", quantity="none")	
<i>array dataset</i>	(description="Saturation values unsigned modes")
<i>Metadata</i>	
<i>IntId</i> (description="Saturation values unsigned modes", quantity="none")	

10.2.19. SubArrayArray

<i>product (type="SubArrayArray", description="Coordinate conversion (row, col) -> (U,V) for the bolometer arrays")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Creator of this Product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Description of this Product")
StringParameter	instrument (description="instrument attached to this Product")
StringParameter	modelName (description="model name attached to this Product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")

StringParameter	calFileId (description="Calfile Type identifier")
StringParameter	formatVersion (description="Calfile Format version")
LongParameter	calFileVersion (description="Calfile format version")
StringParameter	fileName (description="filename of the calfile")
StringParameter	author (description="Author of this Product")
array dataset	(description="u coordinates for red array - pixel center")
Metadata	
Double2d	(description="u coordinates for red array - pixel center", quantity="none")
array dataset	(description="v coordinates for red array - pixel center")
Metadata	
Double2d	(description="v coordinates for red array - pixel center", quantity="none")
array dataset	(description="u coordinates for blue array - pixel center")
Metadata	
Double2d	(description="u coordinates for blue array - pixel center", quantity="none")
array dataset	(description="b coordinates for blue array - pixel center")
Metadata	
Double2d	(description="b coordinates for blue array - pixel center", quantity="none")
array dataset	(description="u coordinates for red array - top left pixel corner")
Metadata	
Double2d	(description="u coordinates for red array - top left pixel corner", quantity="none")
array dataset	(description="v coordinates for red array - top left pixel corner")
Metadata	
Double2d	(description="v coordinates for red array - top left pixel corner", quantity="none")
array dataset	(description="u coordinates for blue array - top left pixel corner")
Metadata	
Double2d	(description="u coordinates for blue array - top left pixel corner", quantity="none")
array dataset	(description="b coordinates for blue array - top left pixel corner")
Metadata	
Double2d	(description="b coordinates for blue array - top left pixel corner", quantity="none")
array dataset	(description="u coordinates for red array - top right pixel corner")
Metadata	
Double2d	(description="u coordinates for red array - top right pixel corner", quantity="none")
array dataset	(description="v coordinates for red array - top right pixel corner")
Metadata	
Double2d	(description="v coordinates for red array - top right pixel corner", quantity="none")

array dataset	(description="u coordinates for blue array - top right pixel corner")
Metadata	
Double2d	(description="u coordinates for blue array - top right pixel corner", quantity="none")
array dataset	(description="b coordinates for blue array - top right pixel corner")
Metadata	
Double2d	(description="b coordinates for blue array - top right pixel corner", quantity="none")
array dataset	(description="u coordinates for red array - bottom right pixel corner")
Metadata	
Double2d	(description="u coordinates for red array - bottom right pixel corner", quantity="none")
array dataset	(description="v coordinates for red array - bottom right pixel corner")
Metadata	
Double2d	(description="v coordinates for red array - bottom right pixel corner", quantity="none")
array dataset	(description="u coordinates for blue array - bottom right pixel corner")
Metadata	
Double2d	(description="u coordinates for blue array - bottom right pixel corner", quantity="none")
array dataset	(description="b coordinates for blue array - bottom right pixel corner")
Metadata	
Double2d	(description="b coordinates for blue array - bottom right pixel corner", quantity="none")
array dataset	(description="u coordinates for red array - bottom left pixel corner")
Metadata	
Double2d	(description="u coordinates for red array - bottom left pixel corner", quantity="none")
array dataset	(description="v coordinates for red array - bottom left pixel corner")
Metadata	
Double2d	(description="v coordinates for red array - bottom left pixel corner", quantity="none")
array dataset	(description="u coordinates for blue array - bottom left pixel corner")
Metadata	
Double2d	(description="u coordinates for blue array - bottom left pixel corner", quantity="none")
array dataset	(description="b coordinates for blue array - bottom left pixel corner")
Metadata	
Double2d	(description="b coordinates for blue array - bottom left pixel corner", quantity="none")

10.2.20. TimeDependency

product (type="TimeDependency", description="Defines time dependency for calibration products.")
--

<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	calFileId (description="Calfile Type identifier")
StringParameter	formatVersion (description="Calfile Format version")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	scope (description="null")
StringParameter	fileName (description="Filename used for saving FITS file")
StringParameter	author (description="null")
StringParameter	versionNotes (description="null")
<i>table dataset (description="Time Dependency Table for FM")</i>	
<i>Metadata</i>	
StringParameter	modelName (description="The instrument model name")
DateParameter	lastUpdated (description="null")
StringParameter	lastUpdatedBy (description="null")
StringParameter	scope (description="scope can take values of BASE, TEST, or PRIVATE")
<i>StringId</i>	type (description="null", quantity="none")
<i>StringId</i>	unit (description="null", quantity="none")
<i>LongId</i>	time (description="null", quantity="none")
<i>LongId</i>	version (description="null", quantity="none")
<i>StringId</i>	comment (description="null", quantity="none")

10.3. PACS Spectrometer Calibration Products

10.3.1. ArrayInstrument

<i>product (type="ArrayInstrument", description="Array to Instrument coordinate conversion")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")

StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	calFileId (description="Calfile type identifier")
StringParameter	formatVersion (description="Calfile format version")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
array dataset	(description="Maximum polynomial orders for y (blue)")
Metadata	
Int1d	(description="Maximum polynomial orders for y (blue)", quantity="none")
array dataset	(description="Cube with coefficients for y (blue)")
Metadata	
Double3d	(description="Cube with coefficients for y (blue)", quantity="none")
array dataset	(description="Maximum polynomial orders for z (blue)")
Metadata	
Int1d	(description="Maximum polynomial orders for z (blue)", quantity="none")
array dataset	(description="Cube with coefficients for z (blue)")
Metadata	
Double3d	(description="Cube with coefficients for z (blue)", quantity="none")
array dataset	(description="Maximum polynomial orders for y (red)")
Metadata	
Int1d	(description="Maximum polynomial orders for y (red)", quantity="none")
array dataset	(description="Cube with coefficients for y (red)")
Metadata	
Double3d	(description="Cube with coefficients for y (red)", quantity="none")
array dataset	(description="Maximum polynomial orders for z (red)")
Metadata	
Int1d	(description="Maximum polynomial orders for z (red)", quantity="none")
array dataset	(description="Cube with coefficients for z (red)")
Metadata	
Double3d	(description="Cube with coefficients for z (red)", quantity="none")

10.3.2. BadPixelMask

product (type="BadPixelMask", description="Bad pixels mask for PACS Photometer")

<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	calFileId (description="Calfile type identifier")
StringParameter	formatVersion (description="Calfile format version")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")
array dataset	(description="Bad Pixels mask for the Red Photometer")
<i>Metadata</i>	
Bool2d	(description="Bad Pixels mask for the Red Photometer", quantity="none")
array dataset	(description="Bad Pixels mask for the Blue Photometer")
<i>Metadata</i>	
Bool2d	(description="Bad Pixels mask for the Blue Photometer", quantity="none")
array dataset	(description="null")
<i>Metadata</i>	
Bool2d	(description="null", quantity="none")

10.3.3. DetectorSortMatrix

<i>product (type="DetectorSortMatrix", description="Detector sorting matrices for the red and blue photometer.")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
StringParameter	calFileId (description="Calfile type identifier")

StringParameter	formatVersion (description="Calfile format version")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="Calibration product fits file")
array dataset	(description="null")
Metadata	
Int2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Int2d	(description="null", quantity="none")

10.3.4. CapacitanceRatios

<i>product (type="CapacitanceRatios", description="contains the capacitance ratios for the red and blue array")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	calFileId (description="null")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
array dataset	(description="capacitance ratios of red array referred to the smallest cap.")
Metadata	
Double3d	(description="capacitance ratios of red array referred to the smallest cap.", quantity="none")
array dataset	(description="capacitance ratios of blue array referred to the smallest cap.")
Metadata	
Double3d	(description="capacitance ratios of blue array referred to the smallest cap.", quantity="none")

10.3.5. ChopperThrowDescription

<i>product (type="ChopperThrowDescription", description="Defines the CPR (chopper position readouts) versus a verbal description")</i>			
<i>Metadata</i>			
StringParameter	type	(description="Product Type Identification")	
StringParameter	creator	(description="Generator of this product")	
DateParameter	creationDate	(description="Creation date of this product")	
StringParameter	description	(description="Name of this product")	
StringParameter	instrument	(description="Instrument attached to this product")	
StringParameter	modelName	(description="Model name attached to this product")	
DateParameter	startDate	(description="Start date of this product")	
DateParameter	endDate	(description="End date of this product")	
StringParameter	calFileId	(description="null")	
StringParameter	formatVersion	(description="Calfile Format version")	
StringParameter	fileName	(description="null")	
LongParameter	calFileVersion	(description="null")	
StringParameter	author	(description="Author of the data")	
<i>table dataset (description="verbal description of chopper throws")</i>			
<i>Metadata</i>			
	<i>StringId</i>	throwNames	(description="null", quantity="none")
	<i>IntId</i>	cprPos	(description="null", quantity="none")
	<i>IntId</i>	tolerance	(description="null", quantity="none")

10.3.6. CrosstalkMatrix

<i>product (type="CrosstalkMatrix", description="Photometer Crosstalk matrix for red and blue channel")</i>			
<i>Metadata</i>			
StringParameter	type	(description="Photometer Crosstalk Matrix")	
StringParameter	creator	(description="creator of this calfile")	
DateParameter	creationDate	(description="Creation date of this product")	
StringParameter	description	(description="description of this calfile")	
StringParameter	instrument	(description="null")	
StringParameter	modelName	(description="null")	
DateParameter	startDate	(description="Start date of this product")	
DateParameter	endDate	(description="End date of this product")	
LongParameter	creationDate_ILLEGAL_FORMAT	(description="Date of file creation")	
StringParameter	calFileId	(description="Photometer Crosstalk Matrix")	
StringParameter	formatVersion	(description="Calfile format version")	
LongParameter	calFileVersion	(description="Calfile version")	
StringParameter	author	(description="Author of Data")	

StringParameter	fileName (description="Calfile product fits filename")
array dataset	(description="Photometer Crosstalk matrix for red channel")
Metadata	
Double2d	(description="Photometer Crosstalk matrix for red channel", quantity="none")
array dataset	(description="Photometer Crosstalk matrix for blue channel")
Metadata	
Double2d	(description="Photometer Crosstalk matrix for blue channel", quantity="none")

10.3.7. DetectorSortMatrix

<i>product (type="DetectorSortMatrix", description="Detector sorting matrices for the red and blue photometer.")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
StringParameter	calFileId (description="Calfile type identifier")
StringParameter	formatVersion (description="Calfile format version")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="Calibration product fits file")
array dataset	(description="null")
Metadata	
Int2d	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
Int2d	(description="null", quantity="none")

10.3.8. DiscardRampHooks

<i>product (type="DiscardRampHooks", description="number of discarded readouts at the ramp start to account for the hook response")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")

StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	calFileId (description="null")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
array dataset	(description="number of full resolution red ramp readouts affected by the initial&")
Metadata	
IntId	(description="number of full resolution red ramp readouts affected by the initial&", quantity="none")

10.3.9. EffectiveCapacitance

<i>product (type="EffectiveCapacitance", description="Effective measured capacitances of the four possible commandable capacitances of the spectrometer")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	calFileId (description="Calfile type identifier")
StringParameter	formatVersion (description="Calfile format version")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
array dataset	(description="effective measured capacitances in pF")
Metadata	
DoubleId	(description="effective measured capacitances in pF", quantity="none")

10.3.10. GprHall

<i>product (type="GprHall", description="Defines the GPR (DM_GRAT_CUR_POS) versus Hall sensor readback calibration object")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	calFileId (description="null")
StringParameter	formatVersion (description="Calfile format version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
<i>array dataset</i>	<i>(description="Grating position readback")</i>
<i>Metadata</i>	
<i>DoubleId</i>	<i>(description="Grating position readback", quantity="none")</i>
<i>array dataset</i>	<i>(description="HALL A sensor")</i>
<i>Metadata</i>	
<i>DoubleId</i>	<i>(description="HALL A sensor", quantity="none")</i>
<i>array dataset</i>	<i>(description="HALL B sensor")</i>
<i>Metadata</i>	
<i>DoubleId</i>	<i>(description="HALL B sensor", quantity="none")</i>
<i>table dataset</i>	<i>(description="Sorted, Unique, Partitionned 0_A")</i>
<i>Metadata</i>	
<i>DoubleId</i>	<i>Hall (description="null", quantity="none")</i>
<i>DoubleId</i>	<i>GPR (description="null", quantity="none")</i>
<i>table dataset</i>	<i>(description="Sorted, Unique, Partitionned 1_A")</i>
<i>Metadata</i>	
<i>DoubleId</i>	<i>Hall (description="null", quantity="none")</i>
<i>DoubleId</i>	<i>GPR (description="null", quantity="none")</i>
<i>table dataset</i>	<i>(description="Sorted, Unique, Partitionned 2_A")</i>
<i>Metadata</i>	
<i>DoubleId</i>	<i>Hall (description="null", quantity="none")</i>

<i>DoubleId</i>	GPR (description="null", quantity="none")
<i>table dataset</i>	(description="Sorted, Unique, Partitionned 3_A")
<i>Metadata</i>	
<i>DoubleId</i>	Hall (description="null", quantity="none")
<i>DoubleId</i>	GPR (description="null", quantity="none")
<i>table dataset</i>	(description="Sorted, Unique, Partitionned 0_B")
<i>Metadata</i>	
<i>DoubleId</i>	Hall (description="null", quantity="none")
<i>DoubleId</i>	GPR (description="null", quantity="none")
<i>table dataset</i>	(description="Sorted, Unique, Partitionned 1_B")
<i>Metadata</i>	
<i>DoubleId</i>	Hall (description="null", quantity="none")
<i>DoubleId</i>	GPR (description="null", quantity="none")
<i>table dataset</i>	(description="Sorted, Unique, Partitionned 2_B")
<i>Metadata</i>	
<i>DoubleId</i>	Hall (description="null", quantity="none")
<i>DoubleId</i>	GPR (description="null", quantity="none")
<i>table dataset</i>	(description="Sorted, Unique, Partitionned 3_B")
<i>Metadata</i>	
<i>DoubleId</i>	Hall (description="null", quantity="none")
<i>DoubleId</i>	GPR (description="null", quantity="none")

10.3.11. GratingJitterThreshold

<i>product (type="GratingJitterThreshold", description="value for the jitter threshold of the final grating positions in readout units")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	calFileId (description="null")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	fileName (description="null")

LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
array dataset	(description="accuracy of final grating position in readouts")
Metadata	
DoubleId	(description="accuracy of final grating position in readouts", quantity="none")

10.3.12. LabelDescription

<i>product (type="LabelDescription", description="defines the bit coded labels vs. a verbal description")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	calFileId (description="null")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
array dataset	(description="Label descriptions for Spectrometer")
Metadata	
StringId	(description="Label descriptions for Spectrometer", quantity="none")
array dataset	(description="Label bit setting for Spectrometer")
Metadata	
IntId	(description="Label bit setting for Spectrometer", quantity="none")

10.3.13. LittrowParameters

<i>product (type="LittrowParameters", description="Littrow parameters for wavelength calibration")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")

StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
StringParameter	calFileId (description="null")
StringParameter	formatVersion (description="Calfile format version")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
array dataset	(description="Grating Constant")
Metadata	
DoubleId	(description="Grating Constant", quantity="none")
array dataset	(description="Grating readout steps per degree")
Metadata	
DoubleId	(description="Grating readout steps per degree", quantity="none")
array dataset	(description="Angular deviation from ideal Littrow case (input angle)")
Metadata	
DoubleId	(description="Angular deviation from ideal Littrow case (input angle)", quantity="none")
array dataset	(description="Angular deviation from ideal Littrow case (output angle)")
Metadata	
DoubleId	(description="Angular deviation from ideal Littrow case (output angle)", quantity="none")
array dataset	(description="Correction of output angle per pixel unit offset to central pixel")
Metadata	
DoubleId	(description="Correction of output angle per pixel unit offset to central pixel", quantity="none")
array dataset	(description="Correction of output angle per pixel unit offset to central pixel")
Metadata	
DoubleId	(description="Correction of output angle per pixel unit offset to central pixel", quantity="none")
array dataset	(description="Grating angle at grating zero position")
Metadata	
DoubleId	(description="Grating angle at grating zero position", quantity="none")
array dataset	(description="Grating angle at grating zero position")
Metadata	
DoubleId	(description="Grating angle at grating zero position", quantity="none")

<i>array dataset</i>	(<i>description="null"</i>)
<i>Metadata</i>	
<i>Double2d</i>	(<i>description="null", quantity="none"</i>)
<i>array dataset</i>	(<i>description="null"</i>)
<i>Metadata</i>	
<i>Double2d</i>	(<i>description="null", quantity="none"</i>)
<i>array dataset</i>	(<i>description="null"</i>)
<i>Metadata</i>	
<i>Double2d</i>	(<i>description="null", quantity="none"</i>)
<i>array dataset</i>	(<i>description="null"</i>)
<i>Metadata</i>	
<i>Double2d</i>	(<i>description="null", quantity="none"</i>)
<i>composite</i>	(<i>description="null"</i>)
<i>Metadata</i>	
<i>array dataset</i>	(<i>description="null"</i>)
<i>Metadata</i>	
<i>Double1d</i>	(<i>description="null", quantity="none"</i>)
<i>array dataset</i>	(<i>description="null"</i>)
<i>Metadata</i>	
<i>Double1d</i>	(<i>description="null", quantity="none"</i>)
<i>array dataset</i>	(<i>description="null"</i>)
<i>Metadata</i>	
<i>Double1d</i>	(<i>description="null", quantity="none"</i>)
<i>array dataset</i>	(<i>description="null"</i>)
<i>Metadata</i>	
<i>Double1d</i>	(<i>description="null", quantity="none"</i>)
<i>array dataset</i>	(<i>description="null"</i>)
<i>Metadata</i>	
<i>Double1d</i>	(<i>description="null", quantity="none"</i>)
<i>array dataset</i>	(<i>description="null"</i>)
<i>Metadata</i>	
<i>Double2d</i>	(<i>description="null", quantity="none"</i>)
<i>array dataset</i>	(<i>description="null"</i>)

<i>Metadata</i>	
<i>Double2d</i>	(description="null", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double2d</i>	(description="null", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double2d</i>	(description="null", quantity="none")
<i>composite</i>	(description="null")
<i>Metadata</i>	
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double1d</i>	(description="null", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double1d</i>	(description="null", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double1d</i>	(description="null", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double1d</i>	(description="null", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double1d</i>	(description="null", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double1d</i>	(description="null", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double2d</i>	(description="null", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double2d</i>	(description="null", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double2d</i>	(description="null", quantity="none")

<i>array dataset</i>	(<i>description="null"</i>)
<i>Metadata</i>	
<i>Double2d</i>	(<i>description="null", quantity="none"</i>)
<i>composite</i>	(<i>description="null"</i>)
<i>Metadata</i>	
<i>array dataset</i>	(<i>description="null"</i>)
<i>Metadata</i>	
<i>Double1d</i>	(<i>description="null", quantity="none"</i>)
<i>array dataset</i>	(<i>description="null"</i>)
<i>Metadata</i>	
<i>Double1d</i>	(<i>description="null", quantity="none"</i>)
<i>array dataset</i>	(<i>description="null"</i>)
<i>Metadata</i>	
<i>Double1d</i>	(<i>description="null", quantity="none"</i>)
<i>array dataset</i>	(<i>description="null"</i>)
<i>Metadata</i>	
<i>Double1d</i>	(<i>description="null", quantity="none"</i>)
<i>array dataset</i>	(<i>description="null"</i>)
<i>Metadata</i>	
<i>Double1d</i>	(<i>description="null", quantity="none"</i>)
<i>array dataset</i>	(<i>description="null"</i>)
<i>Metadata</i>	
<i>Double1d</i>	(<i>description="null", quantity="none"</i>)
<i>array dataset</i>	(<i>description="null"</i>)
<i>Metadata</i>	
<i>Double2d</i>	(<i>description="null", quantity="none"</i>)
<i>array dataset</i>	(<i>description="null"</i>)
<i>Metadata</i>	
<i>Double2d</i>	(<i>description="null", quantity="none"</i>)
<i>array dataset</i>	(<i>description="null"</i>)
<i>Metadata</i>	
<i>Double2d</i>	(<i>description="null", quantity="none"</i>)
<i>array dataset</i>	(<i>description="null"</i>)
<i>Metadata</i>	
<i>Double2d</i>	(<i>description="null", quantity="none"</i>)

10.3.15. ModuleArray

<i>product (type="ModuleArray", description="Module to Array coordinate conversion calibration object")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	calFileId (description="null")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
<i>array dataset</i>	<i>(description="y-stage (y-sky) coordinate of the blue module w.r.t module 12 as re&")</i>
<i>Metadata</i>	
<i>DoubleId</i>	<i>(description="y-stage (y-sky) coordinate of the blue module w.r.t module 12 as re&", quantity="none")</i>
<i>array dataset</i>	<i>(description="x-stage (-z-sky) coordinate of the blue module w.r.t module 12 as r&")</i>
<i>Metadata</i>	
<i>DoubleId</i>	<i>(description="x-stage (-z-sky) coordinate of the blue module w.r.t module 12 as r&", quantity="none")</i>
<i>array dataset</i>	<i>(description="y-stage (y-sky) coordinate of the red module w.r.t module 12 as ref&")</i>
<i>Metadata</i>	
<i>DoubleId</i>	<i>(description="y-stage (y-sky) coordinate of the red module w.r.t module 12 as ref&", quantity="none")</i>
<i>array dataset</i>	<i>(description="x-stage (-z-sky) coordinate of the red module w.r.t module 12 as re&")</i>
<i>Metadata</i>	
<i>DoubleId</i>	<i>(description="x-stage (-z-sky) coordinate of the red module w.r.t module 12 as re&", quantity="none")</i>

10.3.16. NonLinearity

<i>product (type="NonLinearity", description="contains coefficients of a second order polynomial to linearize signals for the red and blue array stored in a Double3d(18, 25, 3)")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")

StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	calFileId (description="null")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
array dataset	(description="Linearisation coefficients of ramp slopes (V/s) for red array store&")
Metadata	
Double3d	(description="Linearisation coefficients of ramp slopes (V/s) for red array store&", quantity="none")
array dataset	(description="Linearisation coefficients of ramp slopes (V/s) for blue array stor&")
Metadata	
Double3d	(description="Linearisation coefficients of ramp slopes (V/s) for blue array stor&", quantity="none")

10.3.17. Psf

<i>product (type="Psf", description="Point spread functions for the red and blue spectrometer.")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	calFileId (description="null")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
array dataset	(description="3D dataset with x,y 27X27 red PSF points, z are the spectrally aver&")
Metadata	

<i>Double3d</i>	(description="3D dataset with x,y 27X27 red PSF points, z are the spectrally averaged", quantity="none")
<i>array dataset</i>	(description="3D dataset with x,y 27X27 blue PSF points, z are the spectrally averaged")
<i>Metadata</i>	
<i>Double3d</i>	(description="3D dataset with x,y 27X27 blue PSF points, z are the spectrally averaged", quantity="none")
<i>array dataset</i>	(description="4D dataset with x,y 27X27 red PSF points, z are the 25 modules, 4th")
<i>Metadata</i>	
<i>Double4d</i>	(description="4D dataset with x,y 27X27 red PSF points, z are the 25 modules, 4th", quantity="none")
<i>array dataset</i>	(description="4D dataset with x,y 27X27 blue PSF points, z are the 25 modules, 4th")
<i>Metadata</i>	
<i>Double4d</i>	(description="4D dataset with x,y 27X27 blue PSF points, z are the 25 modules, 4th", quantity="none")

10.3.18. RampSatLimits

<i>product</i> (type="RampSatLimits", description="contains the ramp saturation limits (digits) for the red and blue array")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	calFileId (description="null")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
<i>array dataset</i>	(description="saturation limits of the red array in digits depend on the capacity")
<i>Metadata</i>	
<i>Double3d</i>	(description="saturation limits of the red array in digits depend on the capacity", quantity="none")
<i>array dataset</i>	(description="saturation limits of the blue array in digits depend on the capacity")
<i>Metadata</i>	
<i>Double3d</i>	

					(description="saturation limits of the blue array in digits depend on the capa&", quantity="none")

10.3.19. RsrFB3A

<i>product (type="RsrFB3A", description="Relative spectral Response Function for one spectral band")</i>					
<i>Metadata</i>					
StringParameter	type (description="Product Type Identification")				
StringParameter	creator (description="Generator of this product")				
DateParameter	creationDate (description="Creation date of this product")				
StringParameter	description (description="Name of this product")				
StringParameter	instrument (description="Instrument attached to this product")				
StringParameter	modelName (description="Model name attached to this product")				
DateParameter	startDate (description="Start date of this product")				
DateParameter	endDate (description="End date of this product")				
StringParameter	calFileId (description="null")				
StringParameter	formatVersion (description="null")				
StringParameter	productNotes (description="null")				
StringParameter	versionNotes (description="null")				
StringParameter	band (description="null")				
StringParameter	author (description="null")				
StringParameter	fileName (description="null")				
LongParameter	calFileVersion (description="Calfile version")				
<i>array dataset (description="null")</i>					
<i>Metadata</i>					
<i>Double1d</i> (description="null", quantity="none")					
<i>array dataset (description="null")</i>					
<i>Metadata</i>					
<i>Double3d</i> (description="null", quantity="none")					
<i>array dataset (description="null")</i>					
<i>Metadata</i>					
<i>Double3d</i> (description="null", quantity="none")					

10.3.20. Readouts2Volts

<i>product (type="Readouts2Volts", description="Defines the ramp readout to volt conversion")</i>					
<i>Metadata</i>					
StringParameter	type (description="Product Type Identification")				
StringParameter	creator (description="Generator of this product")				

DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	calFileId (description="null")
StringParameter	formatVersion (description="Calfile format version")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
array dataset	(description="Start value Digits")
Metadata	
DoubleId	(description="Start value Digits", quantity="none")
array dataset	(description="End value Digits")
Metadata	
DoubleId	(description="End value Digits", quantity="none")
array dataset	(description="Start value Voltage")
Metadata	
DoubleId	(description="Start value Voltage", quantity="none")
array dataset	(description="End value Voltage")
Metadata	
DoubleId	(description="End value Voltage", quantity="none")
array dataset	(description="Start value Digits")
Metadata	
DoubleId	(description="Start value Digits", quantity="none")
array dataset	(description="End value Digits")
Metadata	
DoubleId	(description="End value Digits", quantity="none")
array dataset	(description="Start value Voltage")
Metadata	
DoubleId	(description="Start value Voltage", quantity="none")
array dataset	(description="End value Voltage")
Metadata	
DoubleId	(description="End value Voltage", quantity="none")

10.3.21. Sensitivity

<i>product (type="Sensitivity", description="contains the line and continuum RMS noise fluctuations for 1 sec integration time")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	calFileId (description="null")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
<i>array dataset</i>	<i>(description="wavelengths for order 1")</i>
<i>Metadata</i>	
<i>DoubleId</i>	<i>(description="wavelengths for order 1", quantity="micron [1.0E-6 m])</i>
<i>array dataset</i>	<i>(description="wavelengths for order 2")</i>
<i>Metadata</i>	
<i>DoubleId</i>	<i>(description="wavelengths for order 2", quantity="micron [1.0E-6 m])</i>
<i>array dataset</i>	<i>(description="wavelengths for extreme order 2")</i>
<i>Metadata</i>	
<i>DoubleId</i>	<i>(description="wavelengths for extreme order 2", quantity="micron [1.0E-6 m])</i>
<i>array dataset</i>	<i>(description="wavelengths for order 3")</i>
<i>Metadata</i>	
<i>DoubleId</i>	<i>(description="wavelengths for order 3", quantity="micron [1.0E-6 m])</i>
<i>array dataset</i>	<i>(description="continuum rms noise unit jy for order 1")</i>
<i>Metadata</i>	
<i>DoubleId</i>	<i>(description="continuum rms noise unit jy for order 1", quantity="Jy [1.0E-26 W/m2/Hz])</i>
<i>array dataset</i>	<i>(description="continuum rms noise unit jy for order 2")</i>
<i>Metadata</i>	
<i>DoubleId</i>	<i>(description="continuum rms noise unit jy for order 2", quantity="Jy [1.0E-26 W/m2/Hz])</i>
	<i>(description="continuum rms noise unit jy for order 23")</i>

array dataset	
Metadata	
DoubleId	(description="continuum rms noise unit jy for order 23", quantity="Jy [1.0E-26 W/m2/Hz]")
array dataset	(description="continuum rms noise unit jy for order 3")
Metadata	
DoubleId	(description="continuum rms noise unit jy for order 3", quantity="Jy [1.0E-26 W/m2/Hz]")
array dataset	(description="line rms noise unit W/m^2 for order 1")
Metadata	
DoubleId	(description="line rms noise unit W/m^2 for order 1", quantity="W/m2")
array dataset	(description="line rms noise unit W/m^2 for order 2")
Metadata	
DoubleId	(description="line rms noise unit W/m^2 for order 2", quantity="W/m2")
array dataset	(description="line rms noise unit W/m^2 for order 23")
Metadata	
DoubleId	(description="line rms noise unit W/m^2 for order 23", quantity="W/m2")
array dataset	(description="line rms noise unit W/m^2 for order 3")
Metadata	
DoubleId	(description="line rms noise unit W/m^2 for order 3", quantity="W/m2")

10.3.22. SignalSatLimits

<i>product (type="SignalSatLimits", description="contains the signal saturation limits (digits/second) for the red and blue array scaled for 1 second reset interval")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	calFileId (description="null")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")

StringParameter	author (description="Author of the data")
array dataset	(description="dynamic range of red array for 1 sec reset interval, sat limit for &")
Metadata	
Double3d	(description="dynamic range of red array for 1 sec reset interval, sat limit for &", quantity="1/s")
array dataset	(description="dynamic range of blue array for 1 sec reset interval, sat limit for&")
Metadata	
Double3d	(description="dynamic range of blue array for 1 sec reset interval, sat limit for&", quantity="none")

10.3.23. SpecProperties

<i>product (type="SpecProperties", description="spectrometer constants to calculate spectral resolution vs. wavelength")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	calFileId (description="null")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
array dataset	(description="grating constant in grooves per mm")
Metadata	
Double1d	(description="grating constant in grooves per mm", quantity="1/mm [1000.0 m-1]")
array dataset	(description="beam diameter in mm")
Metadata	
Double1d	(description="beam diameter in mm", quantity="mm [0.0010 m]")
array dataset	(description="scale")
Metadata	
Double1d	(description="scale", quantity="")
	(description="speed of light in km/s")

<i>array</i>	
<i>dataset</i>	
<i>Metadata</i>	
<i>DoubleId</i>	(description="speed of light in km/s", quantity="km/s [1000.0 m/s]")

10.3.24. TelescopeBackground

<i>product</i> (type="TelescopeBackground", description="SED of the telescope background")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	calFileId (description="null")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
<i>array</i>	(description="wavelengths")
<i>dataset</i>	
<i>Metadata</i>	
<i>DoubleId</i>	(description="wavelengths", quantity="micron [1.0E-6 m]")
<i>array</i>	(description="telescope flux in unit jy")
<i>dataset</i>	
<i>Metadata</i>	
<i>DoubleId</i>	(description="telescope flux in unit jy", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>array</i>	(description="telescope flux in unit W/pix")
<i>dataset</i>	
<i>Metadata</i>	
<i>DoubleId</i>	(description="telescope flux in unit W/pix", quantity="W")

10.3.25. TimeDependency

<i>product</i> (type="TimeDependency", description="Defines time dependency for calibration products.")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")

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StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	calFileId (description="Calfile Type identifier")
StringParameter	formatVersion (description="Calfile Format version")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	scope (description="null")
StringParameter	fileName (description="Filename used for saving FITS file")
StringParameter	author (description="null")
StringParameter	versionNotes (description="null")
<i>table dataset</i>	(<i>description="Time Dependency Table for FM"</i>)
<i>Metadata</i>	
StringParameter	modelName (description="The instrument model name")
DateParameter	lastUpdated (description="null")
StringParameter	lastUpdatedBy (description="null")
StringParameter	scope (description="scope can take values of BASE, TEST, or PRIVATE")
<i>StringId</i>	type (description="null", quantity="none")
<i>StringId</i>	unit (description="null", quantity="none")
<i>LongId</i>	time (description="null", quantity="none")
<i>LongId</i>	version (description="null", quantity="none")
<i>StringId</i>	comment (description="null", quantity="none")

Chapter 11. SPIRE Observational Products

11.1. SPIRE Level-0 Products

11.1.1. RPDT: Raw Photometer Detector Timeline

<i>product (type="RPDT", description="Raw Photometer Detector Timeline")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
StringParameter	author (description="Author of the Data")
StringParameter	cusMode (description="null")
DoubleParameter	dec (description="Actual Declination of pointing")
DoubleParameter	decNominal (description="Requested Declination of pointing")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	instMode (description="null")
StringParameter	fileName (description="file name for export")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	naifId (description="SSO NAIF identifier")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
LongParameter	obsid (description="null")
StringParameter	obsMode (description="null")
LongParameter	odNumber (description="null")
StringParameter	pointingMode (description="Pointing mode")
DoubleParameter	posAngle (description="Position Angle of pointing")
StringParameter	proposal (description="Proposal name")
DoubleParameter	ra (description="Actual Right Ascension of pointing")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing")
StringParameter	telescope (description="Name of telescope")
StringParameter	subsystem (description="Instrument subsystem")

LongParameter	bbid (description="Building Block Identifier")	
StringParameter	source (description="TM source packet name")	
StringParameter	elecSide (description="Electronic side")	
StringParameter	bbTypeName (description="Building block type name")	
table dataset	(description="Photometer Full Array (Nominal Science Report)")	
	Metadata	
	Int1d	PHOTFARRAY001 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY002 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY003 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY004 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY005 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY006 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY007 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY008 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY009 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY010 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY011 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY012 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY013 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY014 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY015 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY016 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY017 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY018 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY019 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY020 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY021 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY022 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY023 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY024 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY025 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY026 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY027 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY028 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY029 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY030 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY031 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY032 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY033 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY034 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY035 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY036 (description="Parameter Value", quantity="")

<i>IntId</i>	PHOTFADCFLGS (description="Parameter Value", quantity="")
<i>LongId</i>	PHOTFFRAMETIME (description="Parameter Value", quantity="")
<i>LongId</i>	sdfTime (description="SpireDataFrame time", quantity="")
<i>LongId</i>	packetTime (description="TM packet time", quantity="")
<i>IntId</i>	seqCount (description="Sequence count", quantity="")

11.1.2. RPOT: Raw Photometer Offset Timeline

<i>product (type="RPOT", description="Raw Photometer Offset Timeline")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
StringParameter	author (description="Author of the Data")
StringParameter	cusMode (description="null")
DoubleParameter	dec (description="Actual Declination of pointing")
DoubleParameter	decNominal (description="Requested Declination of pointing")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	instMode (description="null")
StringParameter	fileName (description="file name for export")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	naifId (description="SSO NAIF identifier")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
LongParameter	obsid (description="null")
StringParameter	obsMode (description="null")
LongParameter	odNumber (description="null")
StringParameter	pointingMode (description="Pointing mode")
DoubleParameter	posAngle (description="Position Angle of pointing")
StringParameter	proposal (description="Proposal name")
DoubleParameter	ra (description="Actual Right Ascension of pointing")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing")
StringParameter	telescope (description="Name of telescope")
StringParameter	subsystem (description="Instrument subsystem")

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LongParameter	bbid (description="Building Block Identifier")	
StringParameter	source (description="TM source packet name")	
StringParameter	elecSide (description="Electronic side")	
StringParameter	bbTypeName (description="Building block type name")	
table dataset	(description="Photometer Offsets")	
	Metadata	
	Int1d	PHOTOFF001 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF002 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF003 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF004 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF005 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF006 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF007 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF008 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF009 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF010 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF011 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF012 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF013 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF014 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF015 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF016 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF017 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF018 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF019 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF020 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF021 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF022 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF023 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF024 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF025 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF026 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF027 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF028 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF029 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF030 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF031 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF032 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF033 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF034 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF035 (description="Parameter Value", quantity="")
	Int1d	PHOTOFF036 (description="Parameter Value", quantity="")

<i>IntId</i>	PHOTOFFADCFLGS (description="Parameter Value", quantity="")
<i>LongId</i>	PHOTOFFFRAMETIME (description="Parameter Value", quantity="")
<i>LongId</i>	sdfTime (description="SpireDataFrame time", quantity="")
<i>LongId</i>	packetTime (description="TM packet time", quantity="")
<i>IntId</i>	seqCount (description="Sequence count", quantity="")

11.1.3. RSDT: Raw Spectrometer Detector Timeline

<i>product (type="RSDT", description="Raw Spectrometer Detector Timeline")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
StringParameter	author (description="Author of the Data")
StringParameter	cusMode (description="CUS observation mode")
DoubleParameter	dec (description="Actual Declination of pointing")
DoubleParameter	decNominal (description="Requested Declination of pointing")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	instMode (description="Instrument mode")
StringParameter	fileName (description="file name for export")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	naifId (description="SSO NAIF identifier")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
LongParameter	obsid (description="Observation identifier")
StringParameter	obsMode (description="Observing mode")
LongParameter	odNumber (description="Operational day number")
StringParameter	pointingMode (description="Pointing mode")
DoubleParameter	posAngle (description="Position Angle of pointing")
StringParameter	proposal (description="Proposal name")
DoubleParameter	ra (description="Actual Right Ascension of pointing")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing")
StringParameter	telescope (description="Name of telescope")

StringParameter	subsystem (description="Instrument subsystem")	
LongParameter	bbid (description="Building Block Identifier")	
StringParameter	source (description="TM source packet name")	
StringParameter	bbTypeName (description="Building block type name")	
table dataset	(description="Spectrometer Full Array (Nominal Science Report)")	
	Metadata	
	IntId	SPECFARRAY001 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY002 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY003 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY004 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY005 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY006 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY007 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY008 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY009 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY010 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY011 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY012 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY013 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY014 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY015 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY016 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY017 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY018 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY019 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY020 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY021 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY022 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY023 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY024 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY025 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY026 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY027 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY028 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY029 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY030 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY031 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY032 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY033 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY034 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY035 (description="Parameter Value", quantity="")
	IntId	SPECFARRAY036 (description="Parameter Value", quantity="")

<i>IntId</i>	SPECFARRAY037 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY038 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY039 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY040 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY041 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY042 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY043 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY044 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY045 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY046 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY047 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY048 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY049 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY050 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY051 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY052 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY053 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY054 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY055 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY056 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY057 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY058 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY059 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY060 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY061 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY062 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY063 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY064 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY065 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY066 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY067 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY068 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY069 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY070 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY071 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFARRAY072 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECFADCFLGS (description="Parameter Value", quantity="")
<i>LongId</i>	SPECFFRAMETIME (description="Parameter Value", quantity="")
<i>LongId</i>	sdfTime (description="SpireDataFrame time", quantity="")
<i>LongId</i>	packetTime (description="TM packet time", quantity="")
<i>LongId</i>	seqCount (description="Sequence count", quantity="")

11.1.4. RSOT: Raw Spectrometer Offset Timeline

<i>product (type="RSOT", description="Raw Spectrometer Offset Timeline")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
StringParameter	author (description="Author of the Data")
StringParameter	cusMode (description="CUS observation mode")
DoubleParameter	dec (description="Actual Declination of pointing")
DoubleParameter	decNominal (description="Requested Declination of pointing")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	instMode (description="Instrument mode")
StringParameter	fileName (description="file name for export")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	naifId (description="SSO NAIF identifier")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
LongParameter	obsid (description="Observation identifier")
StringParameter	obsMode (description="Observing mode")
LongParameter	odNumber (description="Operational day number")
StringParameter	pointingMode (description="Pointing mode")
DoubleParameter	posAngle (description="Position Angle of pointing")
StringParameter	proposal (description="Proposal name")
DoubleParameter	ra (description="Actual Right Ascension of pointing")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing")
StringParameter	telescope (description="Name of telescope")
StringParameter	subsystem (description="Instrument subsystem")
LongParameter	bbid (description="Building Block Identifier")
StringParameter	source (description="TM source packet name")
StringParameter	bbTypeName (description="Building block type name")
<i>table dataset</i>	<i>(description="Spectrometer Offsets")</i>
<i>Metadata</i>	
<i>IntId</i>	SPECOFF001 (description="Parameter Value", quantity="")

<i>IntId</i>	SPECOFF044 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF045 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF046 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF047 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF048 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF049 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF050 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF051 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF052 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF053 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF054 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF055 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF056 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF057 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF058 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF059 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF060 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF061 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF062 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF063 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF064 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF065 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF066 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF067 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF068 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF069 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF070 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF071 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF072 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFFADCFLGS (description="Parameter Value", quantity="")
<i>LongId</i>	SPECOFFFRAMETIME (description="Parameter Value", quantity="")
<i>LongId</i>	sdfTime (description="SpireDataFrame time", quantity="")
<i>LongId</i>	packetTime (description="TM packet time", quantity="")
<i>LongId</i>	seqCount (description="Sequence count", quantity="")

11.1.5. RNHKT: Raw Nominal House Keeping Timeline

<i>product</i> (type="RNHKT", description="Raw Nominal House Keeping Timeline")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")

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DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
StringParameter	author (description="Author of the Data")
StringParameter	cusMode (description="null")
DoubleParameter	dec (description="Actual Declination of pointing")
DoubleParameter	decNominal (description="Requested Declination of pointing")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	instMode (description="null")
StringParameter	fileName (description="file name for export")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	naifId (description="SSO NAIF identifier")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
LongParameter	obsid (description="null")
StringParameter	obsMode (description="null")
LongParameter	odNumber (description="null")
StringParameter	pointingMode (description="Pointing mode")
DoubleParameter	posAngle (description="Position Angle of pointing")
StringParameter	proposal (description="Proposal name")
DoubleParameter	ra (description="Actual Right Ascension of pointing")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing")
StringParameter	telescope (description="Name of telescope")
StringParameter	subsystem (description="Instrument subsystem")
LongParameter	bbid (description="Building Block Identifier")
StringParameter	source (description="TM source packet name")
StringParameter	elecSide (description="Electronic side")
StringParameter	bbTypeName (description="Building block type name")
<i>table dataset</i>	<i>(description="Nominal HK Parameter Report")</i>
<i>Metadata</i>	
<i>ShortId</i>	NHK_VERS (description="Parameter Value", quantity="")
<i>ShortId</i>	NHK_TYPE (description="Parameter Value", quantity="")
<i>ShortId</i>	NHK_DFHFLAG (description="Parameter Value", quantity="")
<i>ShortId</i>	NHK_APID (description="Parameter Value", quantity="")
<i>ShortId</i>	NHK_SEGFLAG (description="Parameter Value", quantity="")
<i>ShortId</i>	NHK_SSC (description="Parameter Value", quantity="")

<i>Int1d</i>	NHK_PKTLEN (description="Parameter Value", quantity="")
<i>Short1d</i>	NHK_PUSVERS (description="Parameter Value", quantity="")
<i>Short1d</i>	NHK_PKTTYPE (description="Parameter Value", quantity="")
<i>Short1d</i>	NHK_PKTSTYPE (description="Parameter Value", quantity="")
<i>Long1d</i>	NHK_PKTCTIME (description="Parameter Value", quantity="")
<i>Int1d</i>	NHK_PKTFTIME (description="Parameter Value", quantity="")
<i>Int1d</i>	BBFULLTYPE (description="Parameter Value", quantity="")
<i>Int1d</i>	MODE (description="Parameter Value", quantity="")
<i>Int1d</i>	STEP (description="Parameter Value", quantity="")
<i>Long1d</i>	THSK (description="Parameter Value", quantity="")
<i>Long1d</i>	TRESET (description="Parameter Value", quantity="")
<i>Int1d</i>	TCRECV (description="Parameter Value", quantity="")
<i>Int1d</i>	TCRECN (description="Parameter Value", quantity="")
<i>Int1d</i>	TCEXEC (description="Parameter Value", quantity="")
<i>Int1d</i>	TCEXEN (description="Parameter Value", quantity="")
<i>Int1d</i>	TM1N (description="Parameter Value", quantity="")
<i>Int1d</i>	TM2N (description="Parameter Value", quantity="")
<i>Int1d</i>	TM3N (description="Parameter Value", quantity="")
<i>Int1d</i>	TM4N (description="Parameter Value", quantity="")
<i>Int1d</i>	TM5N (description="Parameter Value", quantity="")
<i>Int1d</i>	DCUFRAMECNT (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUFRAMECNT (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUFRAMECNT (description="Parameter Value", quantity="")
<i>Long1d</i>	TSYNC (description="Parameter Value", quantity="")
<i>Long1d</i>	TDIFF (description="Parameter Value", quantity="")
<i>Int1d</i>	MEMSTAT_1 (description="Parameter Value", quantity="")
<i>Int1d</i>	MEMSTAT_2 (description="Parameter Value", quantity="")
<i>Int1d</i>	MEMSTAT_3 (description="Parameter Value", quantity="")
<i>Int1d</i>	MONSTAT (description="Parameter Value", quantity="")
<i>Short1d</i>	DCULSIFSTAT (description="Parameter Value", quantity="")
<i>Short1d</i>	DCUHSIFMODE (description="Parameter Value", quantity="")
<i>Short1d</i>	MCULSIFSTAT (description="Parameter Value", quantity="")
<i>Short1d</i>	MCUHSIFMODE (description="Parameter Value", quantity="")
<i>Short1d</i>	SCULSIFSTAT (description="Parameter Value", quantity="")
<i>Short1d</i>	SCUHSIFMODE (description="Parameter Value", quantity="")
<i>Int1d</i>	BBCOUNT (description="Parameter Value", quantity="")
<i>Int1d</i>	VMSTAT (description="Parameter Value", quantity="")
<i>Int1d</i>	VM1STAT (description="Parameter Value", quantity="")
<i>Int1d</i>	VM2STAT (description="Parameter Value", quantity="")
<i>Int1d</i>	VM3STAT (description="Parameter Value", quantity="")
<i>Int1d</i>	VMSTATAFX (description="Parameter Value", quantity="")
<i>Int1d</i>	SD_VALUE0 (description="Parameter Value", quantity="")

<i>Int1d</i>	SD_ADDRESS0 (description="Parameter Value", quantity="")
<i>Int1d</i>	SD_VALUE1 (description="Parameter Value", quantity="")
<i>Int1d</i>	SD_ADDRESS1 (description="Parameter Value", quantity="")
<i>Int1d</i>	SD_VALUE2 (description="Parameter Value", quantity="")
<i>Int1d</i>	SD_ADDRESS2 (description="Parameter Value", quantity="")
<i>Int1d</i>	SD_VALUE3 (description="Parameter Value", quantity="")
<i>Int1d</i>	SD_ADDRESS3 (description="Parameter Value", quantity="")
<i>Int1d</i>	DPUP5V (description="Parameter Value", quantity="")
<i>Int1d</i>	DPUP15V (description="Parameter Value", quantity="")
<i>Int1d</i>	DPUM15V (description="Parameter Value", quantity="")
<i>Int1d</i>	DPUTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	CPULOAD (description="Parameter Value", quantity="")
<i>Long1d</i>	LSLOAD (description="Parameter Value", quantity="")
<i>Int1d</i>	DPUP2_5V (description="Parameter Value", quantity="")
<i>Int1d</i>	DCUDATAMODE (description="Parameter Value", quantity="")
<i>Int1d</i>	DCUDATAFRMS (description="Parameter Value", quantity="")
<i>Int1d</i>	DCUDATASTAT (description="Parameter Value", quantity="")
<i>Int1d</i>	PHOTBIASDIV (description="Parameter Value", quantity="")
<i>Int1d</i>	PHOTBIASMODE (description="Parameter Value", quantity="")
<i>Int1d</i>	PHOTMCLKDIV (description="Parameter Value", quantity="")
<i>Int1d</i>	PSWBIAS (description="Parameter Value", quantity="")
<i>Int1d</i>	PMWBIAS (description="Parameter Value", quantity="")
<i>Int1d</i>	PLWBIAS (description="Parameter Value", quantity="")
<i>Int1d</i>	TCBIAS (description="Parameter Value", quantity="")
<i>Int1d</i>	PSWPHASE (description="Parameter Value", quantity="")
<i>Int1d</i>	PMWPHASE (description="Parameter Value", quantity="")
<i>Int1d</i>	PLWPHASE (description="Parameter Value", quantity="")
<i>Int1d</i>	TCPHASE (description="Parameter Value", quantity="")
<i>Int1d</i>	PSWJFETSTAT (description="Parameter Value", quantity="")
<i>Short1d</i>	PSW_VDD_JFET1 (description="Parameter Value", quantity="")
<i>Short1d</i>	PSW_VDD_JFET2 (description="Parameter Value", quantity="")
<i>Short1d</i>	PSW_VDD_JFET3 (description="Parameter Value", quantity="")
<i>Short1d</i>	PSW_VDD_JFET4 (description="Parameter Value", quantity="")
<i>Short1d</i>	PSW_VDD_JFET5 (description="Parameter Value", quantity="")
<i>Short1d</i>	PSW_VDD_JFET6 (description="Parameter Value", quantity="")
<i>Int1d</i>	PMLWJFETSTAT (description="Parameter Value", quantity="")
<i>Short1d</i>	PMW_VDD_JFET1 (description="Parameter Value", quantity="")
<i>Short1d</i>	PMW_VDD_JFET2 (description="Parameter Value", quantity="")
<i>Short1d</i>	PMW_VDD_JFET3 (description="Parameter Value", quantity="")
<i>Short1d</i>	PMW_VDD_JFET4 (description="Parameter Value", quantity="")
<i>Short1d</i>	PLW_VDD_JFET1 (description="Parameter Value", quantity="")
<i>Short1d</i>	PLW_VDD_JFET2 (description="Parameter Value", quantity="")

<i>ShortId</i>	TC_VDD_JFET (description="Parameter Value", quantity="")
<i>IntId</i>	PSWJFET1V (description="Parameter Value", quantity="")
<i>IntId</i>	PSWJFET2V (description="Parameter Value", quantity="")
<i>IntId</i>	PSWJFET3V (description="Parameter Value", quantity="")
<i>IntId</i>	PSWJFET4V (description="Parameter Value", quantity="")
<i>IntId</i>	PSWJFET5V (description="Parameter Value", quantity="")
<i>IntId</i>	PSWJFET6V (description="Parameter Value", quantity="")
<i>IntId</i>	PMWJFET1V (description="Parameter Value", quantity="")
<i>IntId</i>	PMWJFET2V (description="Parameter Value", quantity="")
<i>IntId</i>	PMWJFET3V (description="Parameter Value", quantity="")
<i>IntId</i>	PMWJFET4V (description="Parameter Value", quantity="")
<i>IntId</i>	PLWJFET1V (description="Parameter Value", quantity="")
<i>IntId</i>	PLWJFET2V (description="Parameter Value", quantity="")
<i>IntId</i>	PHOTHTRV (description="Parameter Value", quantity="")
<i>IntId</i>	TCJFETV (description="Parameter Value", quantity="")
<i>IntId</i>	SPECBIASDIV (description="Parameter Value", quantity="")
<i>IntId</i>	SPECBIASMODE (description="Parameter Value", quantity="")
<i>IntId</i>	SPECMCLKDIV (description="Parameter Value", quantity="")
<i>IntId</i>	SSWBIAS (description="Parameter Value", quantity="")
<i>IntId</i>	SLWBIAS (description="Parameter Value", quantity="")
<i>IntId</i>	SSWPHASE (description="Parameter Value", quantity="")
<i>IntId</i>	SLWPHASE (description="Parameter Value", quantity="")
<i>IntId</i>	SPECJFETSTAT (description="Parameter Value", quantity="")
<i>ShortId</i>	SLW_VDD_JFET1 (description="Parameter Value", quantity="")
<i>ShortId</i>	SSW_VDD_JFET1 (description="Parameter Value", quantity="")
<i>ShortId</i>	SSW_VDD_JFET2 (description="Parameter Value", quantity="")
<i>IntId</i>	SSWJFET1V (description="Parameter Value", quantity="")
<i>IntId</i>	SSWJFET2V (description="Parameter Value", quantity="")
<i>IntId</i>	SLWJFET1V (description="Parameter Value", quantity="")
<i>IntId</i>	SPECHTRV (description="Parameter Value", quantity="")
<i>IntId</i>	TC1TEMP (description="Parameter Value", quantity="")
<i>IntId</i>	TC2TEMP (description="Parameter Value", quantity="")
<i>IntId</i>	TC3TEMP (description="Parameter Value", quantity="")
<i>IntId</i>	BIASP5V (description="Parameter Value", quantity="")
<i>IntId</i>	BIASP9V (description="Parameter Value", quantity="")
<i>IntId</i>	BIASM9V (description="Parameter Value", quantity="")
<i>IntId</i>	OBSVER (description="Parameter Value", quantity="")
<i>ShortId</i>	OBSVER1 (description="Parameter Value", quantity="")
<i>ShortId</i>	OBSVER2 (description="Parameter Value", quantity="")
<i>ShortId</i>	OBSVER3 (description="Parameter Value", quantity="")
<i>IntId</i>	TMMODE (description="Parameter Value", quantity="")
<i>IntId</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="")

<i>Int1d</i>	PLIAP5V (description="Parameter Value", quantity="")
<i>Int1d</i>	PLIAP9V (description="Parameter Value", quantity="")
<i>Int1d</i>	PLIAM9V (description="Parameter Value", quantity="")
<i>Int1d</i>	SLIAP5V (description="Parameter Value", quantity="")
<i>Int1d</i>	SLIAP9V (description="Parameter Value", quantity="")
<i>Int1d</i>	SLIAM9V (description="Parameter Value", quantity="")
<i>Int1d</i>	LIAP9TEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	LIAP8TEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	LIAP7TEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	LIAP6TEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	LIAP5TEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	LIAP4TEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	LIAP3TEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	LIAP2TEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	LIAP1TEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	LIAS1TEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	LIAS2TEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	LIAS3TEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	BIASTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	DAQTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	LIASSTAT (description="Parameter Value", quantity="")
<i>Short1d</i>	LIAP1STAT (description="Parameter Value", quantity="")
<i>Short1d</i>	LIAP2STAT (description="Parameter Value", quantity="")
<i>Short1d</i>	LIAP3STAT (description="Parameter Value", quantity="")
<i>Short1d</i>	LIAP4STAT (description="Parameter Value", quantity="")
<i>Short1d</i>	LIAP5STAT (description="Parameter Value", quantity="")
<i>Short1d</i>	LIAP6STAT (description="Parameter Value", quantity="")
<i>Short1d</i>	LIAP7STAT (description="Parameter Value", quantity="")
<i>Short1d</i>	LIAP8STAT (description="Parameter Value", quantity="")
<i>Short1d</i>	LIAP9STAT (description="Parameter Value", quantity="")
<i>Short1d</i>	LIAS1STAT (description="Parameter Value", quantity="")
<i>Short1d</i>	LIAS2STAT (description="Parameter Value", quantity="")
<i>Short1d</i>	LIAS3STAT (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUIFSTAT (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUIFCTRL (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUSSDEL (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUP5V (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUP14V (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUM14V (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUP15V (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUM15V (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUMACTEMP (description="Parameter Value", quantity="")

<i>Int1d</i>	MCUSMECTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUBSMTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUERR (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUSCHEDCNTLSW (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUTM10TSAMPLE (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUFRAMESTART (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUTM12TSAMPLE (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUFRAMES (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUTM14TSAMPLE (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUTM15TSAMPLE (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUTMSTATUS (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUBOOTSTAT (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUDLOADCONF (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECLOSTCOUNT (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECENCPWR (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECLVDTPWR (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECLATCHSTAT (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECLOOPMODE (description="Parameter Value", quantity="")
<i>Int1d</i>	SCANSTART (description="Parameter Value", quantity="")
<i>Int1d</i>	SCANEND (description="Parameter Value", quantity="")
<i>Int1d</i>	SCANFSPEED (description="Parameter Value", quantity="")
<i>Int1d</i>	SCANS (description="Parameter Value", quantity="")
<i>Int1d</i>	SCANMODE (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECKP (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECKD (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECDFILT (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECKI (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECINTLIMIT (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECINTTHRESH (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECRATELIMIT (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECDFILT2 (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECFFGAIN (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECFFOFFSET (description="Parameter Value", quantity="")
<i>Int1d</i>	SCANRSPEED (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECBEMFGAIN (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECMOTORRES (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECMOTORBEMF (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECRATESCALE (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECLVDTOFFSET (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECLVDTSSCALE (description="Parameter Value", quantity="")

<i>Int1d</i>	SMECSTAT (description="Parameter Value", quantity="")
<i>Short1d</i>	SMECFLAG (description="Parameter Value", quantity="")
<i>Short1d</i>	SMECLVDTSIGN (description="Parameter Value", quantity="")
<i>Short1d</i>	SMECINIT (description="Parameter Value", quantity="")
<i>Short1d</i>	SMECSCANDIR (description="Parameter Value", quantity="")
<i>Short1d</i>	SMECSCANCNT (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECENCPOSN (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECENCSIG1 (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECENCSIG2 (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECENCSIG3 (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECLVDTPOSN (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECLVDTACSIG (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECLVDTDCSIG (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECTRAJPOSN (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECDACVAL (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECPOSNDELTA (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECENCFINEPOSN (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECMEANSPEED (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECSKANPOSNERR (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECMOTORCURR (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECMOTORVOLT (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECENCSIG1AMP (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECENCSIG1OFF (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECENCSIG2AMP (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECENCSIG2OFF (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECENCSIG3AMP (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECENCSIG3OFF (description="Parameter Value", quantity="")
<i>Int1d</i>	CHOPSENSPWR (description="Parameter Value", quantity="")
<i>Int1d</i>	CHOPLOOPMODE (description="Parameter Value", quantity="")
<i>Int1d</i>	CHOPPOSN (description="Parameter Value", quantity="")
<i>Int1d</i>	CHOPPOSN2 (description="Parameter Value", quantity="")
<i>Int1d</i>	BSMMODE (description="Parameter Value", quantity="")
<i>Int1d</i>	CHOPFFOFFSET (description="Parameter Value", quantity="")
<i>Int1d</i>	CHOPKP (description="Parameter Value", quantity="")
<i>Int1d</i>	CHOPKD (description="Parameter Value", quantity="")
<i>Int1d</i>	CHOPKI (description="Parameter Value", quantity="")
<i>Int1d</i>	CHOPINTREF (description="Parameter Value", quantity="")
<i>Int1d</i>	CHOPINTLIMIT (description="Parameter Value", quantity="")
<i>Int1d</i>	CHOPFFGAIN (description="Parameter Value", quantity="")
<i>Int1d</i>	CHOPFFGAINDIFF (description="Parameter Value", quantity="")
<i>Int1d</i>	CHOPDIFFTC1 (description="Parameter Value", quantity="")

<i>Int1d</i>	CHOPDIFFTC2 (description="Parameter Value", quantity="")
<i>Int1d</i>	CHOPRATELIMIT (description="Parameter Value", quantity="")
<i>Int1d</i>	CHOPMOTBEMFGAIN (description="Parameter Value", quantity="")
<i>Int1d</i>	CHOPMOTRES (description="Parameter Value", quantity="")
<i>Int1d</i>	CHOPMOTIND (description="Parameter Value", quantity="")
<i>Int1d</i>	CHOPRATESCALE (description="Parameter Value", quantity="")
<i>Int1d</i>	CHOPPOSNSCALE (description="Parameter Value", quantity="")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="Parameter Value", quantity="")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="Parameter Value", quantity="")
<i>Int1d</i>	CHOPJIGGCOUPLE (description="Parameter Value", quantity="")
<i>Int1d</i>	BSMSTAT (description="Parameter Value", quantity="")
<i>Int1d</i>	CHOPPOSNERR (description="Parameter Value", quantity="")
<i>Int1d</i>	CHOPSENSSIG (description="Parameter Value", quantity="")
<i>Int1d</i>	CHOPDACVAL (description="Parameter Value", quantity="")
<i>Int1d</i>	CHOPMOTORCURR (description="Parameter Value", quantity="")
<i>Int1d</i>	CHOPMOTORVOLT (description="Parameter Value", quantity="")
<i>Int1d</i>	JIGGSENSPWR (description="Parameter Value", quantity="")
<i>Int1d</i>	JIGGLOOPMODE (description="Parameter Value", quantity="")
<i>Int1d</i>	JIGGPOSN (description="Parameter Value", quantity="")
<i>Int1d</i>	JIGGPOSN2 (description="Parameter Value", quantity="")
<i>Int1d</i>	JIGGFFOFFSET (description="Parameter Value", quantity="")
<i>Int1d</i>	JIGGKP (description="Parameter Value", quantity="")
<i>Int1d</i>	JIGGKD (description="Parameter Value", quantity="")
<i>Int1d</i>	JIGGKI (description="Parameter Value", quantity="")
<i>Int1d</i>	JIGGINTREF (description="Parameter Value", quantity="")
<i>Int1d</i>	JIGGINTLIMIT (description="Parameter Value", quantity="")
<i>Int1d</i>	JIGGFFGAIN (description="Parameter Value", quantity="")
<i>Int1d</i>	JIGGFFGAINDIFF (description="Parameter Value", quantity="")
<i>Int1d</i>	JIGGDIFFTC1 (description="Parameter Value", quantity="")
<i>Int1d</i>	JIGGDIFFTC2 (description="Parameter Value", quantity="")
<i>Int1d</i>	JIGGRATELIMIT (description="Parameter Value", quantity="")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="Parameter Value", quantity="")
<i>Int1d</i>	JIGGMOTRES (description="Parameter Value", quantity="")
<i>Int1d</i>	JIGGMOTIND (description="Parameter Value", quantity="")
<i>Int1d</i>	JIGGRATESCALE (description="Parameter Value", quantity="")
<i>Int1d</i>	JIGGPOSNSCALE (description="Parameter Value", quantity="")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="Parameter Value", quantity="")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="Parameter Value", quantity="")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="Parameter Value", quantity="")
<i>Int1d</i>	JIGGPOSNERR (description="Parameter Value", quantity="")
<i>Int1d</i>	JIGGSENSSIG (description="Parameter Value", quantity="")

<i>Int1d</i>	JIGGDACVAL (description="Parameter Value", quantity="")
<i>Int1d</i>	JIGGMOTORCURR (description="Parameter Value", quantity="")
<i>Int1d</i>	JIGGMOTORVOLT (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUPCKT10PARM05 (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUPCKT10PARM01 (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUPCKT10PARM02 (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUPCKT10PARM03 (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUPCKT10PARM04 (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUPCKT12PARM01 (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUPCKT12PARM02 (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUPCKT12PARM03 (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUPCKT12PARM04 (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUPCKT12PARM05 (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUPCKT12PARM06 (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUPCKT14PARM01 (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUPCKT14PARM02 (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUPCKT14PARM03 (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUPCKT14PARM04 (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUPCKT14PARM05 (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUPCKT14PARM06 (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUPCKT14PARM07 (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUPCKT14PARM08 (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUPCKT14PARM09 (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUPCKT14PARM10 (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUPCKT14PARM11 (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUPCKT14PARM12 (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUPCKT14PARM13 (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUPCKT14PARM14 (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUIFSTAT (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUIFCTRL (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUSSDEL (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUSTAT (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUTEMPSTAT (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUDCDCSTAT (description="Parameter Value", quantity="")
<i>Short1d</i>	PLIABITSTAT (description="Parameter Value", quantity="")
<i>Short1d</i>	SLIABITSTAT (description="Parameter Value", quantity="")
<i>Short1d</i>	MCUBITSTAT (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUP5V (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUP9V (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUM9V (description="Parameter Value", quantity="")
<i>Int1d</i>	EVHSV (description="Parameter Value", quantity="")
<i>Int1d</i>	SPHSV (description="Parameter Value", quantity="")

<i>Int1d</i>	TCHTRV (description="Parameter Value", quantity="")
<i>Int1d</i>	SPHTRV (description="Parameter Value", quantity="")
<i>Int1d</i>	CCUTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	TCUTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	PSUTEMP1 (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUFRAMECONF (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUFRAMES (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUFRAMESTAT (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUCTRL (description="Parameter Value", quantity="")
<i>Int1d</i>	PCALV (description="Parameter Value", quantity="")
<i>Int1d</i>	SCAL2V (description="Parameter Value", quantity="")
<i>Int1d</i>	SCAL4V (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUCHT2_5V (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUCHTREF (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUCHTGND (description="Parameter Value", quantity="")
<i>Int1d</i>	PCALCURR (description="Parameter Value", quantity="")
<i>Int1d</i>	SCAL2CURR (description="Parameter Value", quantity="")
<i>Int1d</i>	SCAL4CURR (description="Parameter Value", quantity="")
<i>Int1d</i>	PSUTEMP2 (description="Parameter Value", quantity="")
<i>Int1d</i>	SUBKSTAT (description="Parameter Value", quantity="")
<i>Int1d</i>	PUMPHTRTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	PUMPHSTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	EVAPHSTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	SHUNTTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	EMCFILTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	SL0TEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	PL0TEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	OPTTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	BAFTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	BSMIFTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	SCAL2TEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	SCAL4TEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	SCALTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECIFTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	BSMTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	SUBKTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUTHTREF (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUTHTGND (description="Parameter Value", quantity="")
<i>Int1d</i>	LOSTTCBLOCK (description="Parameter Value", quantity="")
<i>Int1d</i>	LOSTVBLOCK (description="Parameter Value", quantity="")
<i>Int1d</i>	LOSTHKBLOCK (description="Parameter Value", quantity="")

<i>Int1d</i>	LOSTSDBLOCK (description="Parameter Value", quantity="")
<i>Int1d</i>	LOSTNTBLOCK (description="Parameter Value", quantity="")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="Parameter Value", quantity="")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="Parameter Value", quantity="")
<i>Short1d</i>	MCUPCKT10STAT (description="Parameter Value", quantity="")
<i>Short1d</i>	MCUPCKT12STAT (description="Parameter Value", quantity="")
<i>Short1d</i>	MCUPCKT14STAT (description="Parameter Value", quantity="")
<i>Short1d</i>	MCUPCKT15STAT (description="Parameter Value", quantity="")
<i>Short1d</i>	MCURAMINTEGRITY (description="Parameter Value", quantity="")
<i>Short1d</i>	MCURAMTSTPROG (description="Parameter Value", quantity="")
<i>Short1d</i>	MCURAMTSTDATA (description="Parameter Value", quantity="")
<i>Short1d</i>	MCUPROM2RAMCOPY (description="Parameter Value", quantity="")
<i>Short1d</i>	MCUBOOTMODE (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECSELECTTAB (description="Parameter Value", quantity="")
<i>Int1d</i>	CREC_STEP (description="Parameter Value", quantity="")
<i>Int1d</i>	PTC_STAGE (description="Parameter Value", quantity="")
<i>Int1d</i>	SCAL_STAGE (description="Parameter Value", quantity="")
<i>Int1d</i>	JIGGLE_STEP (description="Parameter Value", quantity="")
<i>Int1d</i>	LOSTRPBLOCK (description="Parameter Value", quantity="")
<i>Int1d</i>	LIAFAILCOUNT (description="Parameter Value", quantity="")
<i>Int1d</i>	SCANRES (description="Parameter Value", quantity="")
<i>Int1d</i>	TABLE7_07_LWORD (description="Parameter Value", quantity="")
<i>Int1d</i>	TABLE7_08_LWORD (description="Parameter Value", quantity="")
<i>Int1d</i>	TABLE7_09_LWORD (description="Parameter Value", quantity="")
<i>Long1d</i>	TABLE7_10 (description="Parameter Value", quantity="")
<i>Long1d</i>	TABLE7_11 (description="Parameter Value", quantity="")
<i>Long1d</i>	TABLE7_12 (description="Parameter Value", quantity="")
<i>Int1d</i>	HK_00 (description="Parameter Value", quantity="")
<i>Int1d</i>	HK_01 (description="Parameter Value", quantity="")
<i>Int1d</i>	HK_02 (description="Parameter Value", quantity="")
<i>Int1d</i>	HK_03 (description="Parameter Value", quantity="")
<i>Int1d</i>	HK_04 (description="Parameter Value", quantity="")
<i>Int1d</i>	HK_05 (description="Parameter Value", quantity="")
<i>Int1d</i>	HK_06 (description="Parameter Value", quantity="")
<i>Int1d</i>	HK_07 (description="Parameter Value", quantity="")
<i>Int1d</i>	HK_08 (description="Parameter Value", quantity="")
<i>Int1d</i>	HK_09 (description="Parameter Value", quantity="")
<i>Int1d</i>	HK_10 (description="Parameter Value", quantity="")
<i>Int1d</i>	HK_11 (description="Parameter Value", quantity="")
<i>Int1d</i>	HK_12 (description="Parameter Value", quantity="")

<i>IntId</i>	HK_13 (description="Parameter Value", quantity="")
<i>IntId</i>	HK_14 (description="Parameter Value", quantity="")
<i>IntId</i>	HK_15 (description="Parameter Value", quantity="")
<i>IntId</i>	HK_16 (description="Parameter Value", quantity="")
<i>IntId</i>	HK_17 (description="Parameter Value", quantity="")
<i>IntId</i>	HK_18 (description="Parameter Value", quantity="")
<i>IntId</i>	HK_19 (description="Parameter Value", quantity="")
<i>IntId</i>	HK_20 (description="Parameter Value", quantity="")
<i>IntId</i>	HK_21 (description="Parameter Value", quantity="")
<i>IntId</i>	HK_22 (description="Parameter Value", quantity="")
<i>IntId</i>	HK_23 (description="Parameter Value", quantity="")
<i>LongId</i>	sdfTime (description="SpireDataFrame time", quantity="")
<i>LongId</i>	packetTime (description="TM packet time", quantity="")
<i>IntId</i>	seqCount (description="Sequence count", quantity="")

11.1.6. RCHKT: Raw Critical House Keeping Timeline

<i>product (type="RCHKT", description="Raw Critical House Keeping Timeline")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
StringParameter	author (description="Author of the Data")
StringParameter	cusMode (description="null")
DoubleParameter	dec (description="Actual Declination of pointing")
DoubleParameter	decNominal (description="Requested Declination of pointing")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	instMode (description="null")
StringParameter	fileName (description="file name for export")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	naifId (description="SSO NAIF identifier")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
LongParameter	obsid (description="null")
StringParameter	obsMode (description="null")

LongParameter	odNumber (description="null")
StringParameter	pointingMode (description="Pointing mode")
DoubleParameter	posAngle (description="Position Angle of pointing")
StringParameter	proposal (description="Proposal name")
DoubleParameter	ra (description="Actual Right Ascension of pointing")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing")
StringParameter	telescope (description="Name of telescope")
StringParameter	subsystem (description="Instrument subsystem")
LongParameter	bbid (description="Building Block Identifier")
StringParameter	source (description="TM source packet name")
StringParameter	elecSide (description="Electronic side")
StringParameter	bbTypeName (description="Building block type name")
<i>table dataset</i> (description="Critical HK Parameter Report")	
<i>Metadata</i>	
<i>IntId</i>	SID_C (description="Parameter Value", quantity="")
<i>LongId</i>	OBSID_C (description="Parameter Value", quantity="")
<i>LongId</i>	BBID_C (description="Parameter Value", quantity="")
<i>IntId</i>	MODE_C (description="Parameter Value", quantity="")
<i>IntId</i>	STEP_C (description="Parameter Value", quantity="")
<i>IntId</i>	TCRECV_C (description="Parameter Value", quantity="")
<i>IntId</i>	TCEXEC_C (description="Parameter Value", quantity="")
<i>IntId</i>	MEMSTAT1_C (description="Parameter Value", quantity="")
<i>IntId</i>	MEMSTAT2_C (description="Parameter Value", quantity="")
<i>IntId</i>	MEMSTAT3_C (description="Parameter Value", quantity="")
<i>IntId</i>	MONSTAT_C (description="Parameter Value", quantity="")
<i>IntId</i>	SCUDCDCSTAT_C (description="Parameter Value", quantity="")
<i>IntId</i>	MCUIFSTAT_C (description="Parameter Value", quantity="")
<i>IntId</i>	SCUIFSTAT_C (description="Parameter Value", quantity="")
<i>IntId</i>	PSWJFETSTAT_C (description="Parameter Value", quantity="")
<i>ShortId</i>	PSW_VDD_JFET1_C (description="Parameter Value", quantity="")
<i>ShortId</i>	PSW_VDD_JFET2_C (description="Parameter Value", quantity="")
<i>ShortId</i>	PSW_VDD_JFET3_C (description="Parameter Value", quantity="")
<i>ShortId</i>	PSW_VDD_JFET4_C (description="Parameter Value", quantity="")
<i>ShortId</i>	PSW_VDD_JFET5_C (description="Parameter Value", quantity="")
<i>ShortId</i>	PSW_VDD_JFET6_C (description="Parameter Value", quantity="")
<i>IntId</i>	PMLWJFETSTAT_C (description="Parameter Value", quantity="")
<i>ShortId</i>	PMW_VDD_JFET1_C (description="Parameter Value", quantity="")
<i>ShortId</i>	PMW_VDD_JFET2_C (description="Parameter Value", quantity="")
<i>ShortId</i>	PMW_VDD_JFET3_C (description="Parameter Value", quantity="")
<i>ShortId</i>	PMW_VDD_JFET4_C (description="Parameter Value", quantity="")
<i>ShortId</i>	PLW_VDD_JFET1_C (description="Parameter Value", quantity="")

<i>ShortId</i>	PLW_VDD_JFET2_C (description="Parameter Value", quantity="")
<i>ShortId</i>	TC_VDD_JFET_C (description="Parameter Value", quantity="")
<i>IntId</i>	SPECJFETSTAT_C (description="Parameter Value", quantity="")
<i>ShortId</i>	SLW_VDD_JFET1_C (description="Parameter Value", quantity="")
<i>ShortId</i>	SSW_VDD_JFET1_C (description="Parameter Value", quantity="")
<i>ShortId</i>	SSW_VDD_JFET2_C (description="Parameter Value", quantity="")
<i>IntId</i>	LIASSTAT_C (description="Parameter Value", quantity="")
<i>ShortId</i>	LIAP1STAT_C (description="Parameter Value", quantity="")
<i>ShortId</i>	LIAP2STAT_C (description="Parameter Value", quantity="")
<i>ShortId</i>	LIAP3STAT_C (description="Parameter Value", quantity="")
<i>ShortId</i>	LIAP4STAT_C (description="Parameter Value", quantity="")
<i>ShortId</i>	LIAP5STAT_C (description="Parameter Value", quantity="")
<i>ShortId</i>	LIAP6STAT_C (description="Parameter Value", quantity="")
<i>ShortId</i>	LIAP7STAT_C (description="Parameter Value", quantity="")
<i>ShortId</i>	LIAP8STAT_C (description="Parameter Value", quantity="")
<i>ShortId</i>	LIAP9STAT_C (description="Parameter Value", quantity="")
<i>ShortId</i>	LIAS1STAT_C (description="Parameter Value", quantity="")
<i>ShortId</i>	LIAS2STAT_C (description="Parameter Value", quantity="")
<i>ShortId</i>	LIAS3STAT_C (description="Parameter Value", quantity="")
<i>IntId</i>	MCUERR_C (description="Parameter Value", quantity="")
<i>IntId</i>	SMECSTAT_C (description="Parameter Value", quantity="")
<i>IntId</i>	BSMSTAT_C (description="Parameter Value", quantity="")
<i>IntId</i>	SCUSTAT_C (description="Parameter Value", quantity="")
<i>IntId</i>	SUBKTEMP_C (description="Parameter Value", quantity="")
<i>IntId</i>	OBSVER_C (description="Parameter Value", quantity="")
<i>ShortId</i>	OBSVER1_C (description="Parameter Value", quantity="")
<i>ShortId</i>	OBSVER2_C (description="Parameter Value", quantity="")
<i>ShortId</i>	OBSVER3_C (description="Parameter Value", quantity="")
<i>ShortId</i>	CHK_VERS (description="Parameter Value", quantity="")
<i>ShortId</i>	CHK_TYPE (description="Parameter Value", quantity="")
<i>ShortId</i>	CHK_DFHFLAG (description="Parameter Value", quantity="")
<i>ShortId</i>	CHK_APID (description="Parameter Value", quantity="")
<i>ShortId</i>	CHK_SEGFLAG (description="Parameter Value", quantity="")
<i>ShortId</i>	CHK_SSC (description="Parameter Value", quantity="")
<i>IntId</i>	CHK_PKTLEN (description="Parameter Value", quantity="")
<i>ShortId</i>	CHK_PUSVERS (description="Parameter Value", quantity="")
<i>ShortId</i>	CHK_PKTTYPE (description="Parameter Value", quantity="")
<i>ShortId</i>	CHK_PKTSTYPE (description="Parameter Value", quantity="")
<i>LongId</i>	CHK_PKTCTIME (description="Parameter Value", quantity="")
<i>IntId</i>	CHK_PKTFTIME (description="Parameter Value", quantity="")
<i>LongId</i>	sdfTime (description="SpireDataFrame time", quantity="")
<i>LongId</i>	packetTime (description="TM packet time", quantity="")

<i>table dataset</i>	<i>(description="BSM Block (Nominal Science Report)")</i>		
<i>Metadata</i>			
<i>LongId</i>	BSMACQTIME	<i>(description="Parameter Value", quantity="")</i>	
<i>IntId</i>	BSMCHOPSENSSIG	<i>(description="Parameter Value", quantity="")</i>	
<i>IntId</i>	BSMCHOPMOTORCURR	<i>(description="Parameter Value", quantity="")</i>	
<i>IntId</i>	BSMCHOPMOTORVOLT	<i>(description="Parameter Value", quantity="")</i>	
<i>IntId</i>	BSMJIGSENSSIG	<i>(description="Parameter Value", quantity="")</i>	
<i>IntId</i>	BSMJIGGMOTORCURR	<i>(description="Parameter Value", quantity="")</i>	
<i>IntId</i>	BSMJIGGMOTORVOLT	<i>(description="Parameter Value", quantity="")</i>	
<i>LongId</i>	BSMTTIME	<i>(description="Parameter Value", quantity="")</i>	
<i>LongId</i>	sdfTime	<i>(description="SpireDataFrame time", quantity="")</i>	
<i>LongId</i>	packetTime	<i>(description="TM packet time", quantity="")</i>	
<i>IntId</i>	seqCount	<i>(description="Sequence count", quantity="")</i>	

11.1.8. RSMECT: Raw Spectrometer Mechanism Timeline

<i>product</i>	<i>(type="RSMECT", description="Raw Spectrometer Mechanism Timeline")</i>		
<i>Metadata</i>			
StringParameter	type	<i>(description="Product Type Identification")</i>	
StringParameter	creator	<i>(description="Generator of this product")</i>	
DateParameter	creationDate	<i>(description="Creation date of this product")</i>	
StringParameter	description	<i>(description="Name of this product")</i>	
StringParameter	instrument	<i>(description="Instrument attached to this product")</i>	
StringParameter	modelName	<i>(description="Model name attached to this product")</i>	
DateParameter	startDate	<i>(description="Start date of this product")</i>	
DateParameter	endDate	<i>(description="End date of this product")</i>	
StringParameter	aorLabel	<i>(description="AOR Label as entered in HSpot")</i>	
StringParameter	aot	<i>(description="AOT Identifier")</i>	
StringParameter	author	<i>(description="Author of the Data")</i>	
StringParameter	cusMode	<i>(description="CUS observation mode")</i>	
DoubleParameter	dec	<i>(description="Actual Declination of pointing")</i>	
DoubleParameter	decNominal	<i>(description="Requested Declination of pointing")</i>	
DoubleParameter	equinox	<i>(description="Equinox of celestial coordinate system")</i>	
StringParameter	instMode	<i>(description="Instrument mode")</i>	
StringParameter	fileName	<i>(description="file name for export")</i>	
StringParameter	missionConfig	<i>(description="Mission configuration")</i>	
StringParameter	naifId	<i>(description="SSO NAIF identifier")</i>	

StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
LongParameter	obsid (description="Observation identifier")
StringParameter	obsMode (description="Observing mode")
LongParameter	odNumber (description="Operational day number")
StringParameter	pointingMode (description="Pointing mode")
DoubleParameter	posAngle (description="Position Angle of pointing")
StringParameter	proposal (description="Proposal name")
DoubleParameter	ra (description="Actual Right Ascension of pointing")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing")
StringParameter	telescope (description="Name of telescope")
StringParameter	subsystem (description="Instrument subsystem")
LongParameter	bbid (description="Building Block Identifier")
StringParameter	source (description="TM source packet name")
StringParameter	bbTypeName (description="Building block type name")
<i>table dataset</i>	<i>(description="SMEC Continuous Scan Frame (Nominal Science Report)")</i>
<i>Metadata</i>	
<i>LongId</i>	SMECACQTIME (description="Parameter Value", quantity="")
<i>IntId</i>	SMECOPTENCPOSN (description="Parameter Value", quantity="")
<i>IntId</i>	SMECOPTENCFINEPOSN (description="Parameter Value", quantity="")
<i>IntId</i>	SMECSCANLVDTDCSIG (description="Parameter Value", quantity="")
<i>IntId</i>	SMECSCANMOTORCURR (description="Parameter Value", quantity="")
<i>IntId</i>	SMECSCANMOTORBEMF (description="Parameter Value", quantity="")
<i>LongId</i>	SMECTTIME (description="Parameter Value", quantity="")
<i>LongId</i>	sdfTime (description="SpireDataFrame time", quantity="")
<i>LongId</i>	packetTime (description="TM packet time", quantity="")
<i>LongId</i>	seqCount (description="Sequence count", quantity="")

11.1.9. RSCUT: Raw Subsystem Control Unit Timeline

<i>product (type="RSCUT", description="Raw Subsystem Control Unit Timeline")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")

DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
StringParameter	author (description="Author of the Data")
StringParameter	cusMode (description="null")
DoubleParameter	dec (description="Actual Declination of pointing")
DoubleParameter	decNominal (description="Requested Declination of pointing")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	instMode (description="null")
StringParameter	fileName (description="file name for export")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	naifId (description="SSO NAIF identifier")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
LongParameter	obsid (description="null")
StringParameter	obsMode (description="null")
LongParameter	odNumber (description="null")
StringParameter	pointingMode (description="Pointing mode")
DoubleParameter	posAngle (description="Position Angle of pointing")
StringParameter	proposal (description="Proposal name")
DoubleParameter	ra (description="Actual Right Ascension of pointing")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing")
StringParameter	telescope (description="Name of telescope")
StringParameter	subsystem (description="Instrument subsystem")
LongParameter	bbid (description="Building Block Identifier")
StringParameter	source (description="TM source packet name")
StringParameter	elecSide (description="Electronic side")
StringParameter	bbTypeName (description="Building block type name")
<i>table dataset</i>	<i>(description="SCU Block (Nominal Science Report)")</i>
<i>Metadata</i>	
<i>Int1d</i>	SCUPHTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUPHSTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUEVHSTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUSHUNTTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUEMCFILTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUSLOTTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUPL0TEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUOPTTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUBAFTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUBSMIFTEMP (description="Parameter Value", quantity="")

<i>Int1d</i>	SCUSCAL2TEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUSCAL4TEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUSCALTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUSMECIFTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUSMECTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUBSMTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUSUBKTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUTCHTRV (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUPCALCURR (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUPCALV (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUSCAL2CURR (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUSCAL2V (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUSCAL4CURR (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUSCAL4V (description="Parameter Value", quantity="")
<i>Int1d</i>	SCUADC_FLAGS (description="Parameter Value", quantity="")
<i>Long1d</i>	SCUFRAMETIME (description="Parameter Value", quantity="")
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="")

11.2. SPiRE Level-0.5 Products

11.2.1. PDT: Photometer Detector Timeline

<i>product (type="PDT", description="Photometer Detector Timeline")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
StringParameter	author (description="Author of the Data")
StringParameter	cusMode (description="null")
DoubleParameter	dec (description="Actual Declination of pointing")
DoubleParameter	decNominal (description="Requested Declination of pointing")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	instMode (description="null")

StringParameter	fileName (description="file name for export")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	naifId (description="SSO NAIF identifier")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
LongParameter	obsid (description="null")
StringParameter	obsMode (description="null")
LongParameter	odNumber (description="null")
StringParameter	pointingMode (description="Pointing mode")
DoubleParameter	posAngle (description="Position Angle of pointing")
StringParameter	proposal (description="Proposal name")
DoubleParameter	ra (description="Actual Right Ascension of pointing")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing")
StringParameter	telescope (description="Name of telescope")
StringParameter	subsystem (description="Instrument subsystem")
LongParameter	bbid (description="Building Block Identifier")
StringParameter	source (description="TM source packet name")
DoubleParameter	biasFreq (description="Bias frequency")
StringParameter	elecSide (description="Electronic side")
StringParameter	bbTypeName (description="Building block type name")
BooleanParameter	adcErr (description="Presence of ADC Latch errors")
BooleanParameter	offsetApp (description="Detector offsets applied")
DoubleParameter	plwBiasAmpl (description="PLW bias amplitude")
DoubleParameter	pmwBiasAmpl (description="PMW bias amplitude")
DoubleParameter	pswBiasAmpl (description="PSW bias amplitude")
DoubleParameter	ptcBiasAmpl (description="PTC bias amplitude")
BooleanParameter	rcRollApp (description="RC roll correction applied")
LongParameter	nodId (description="Nodding ID")
<i>table dataset</i>	<i>(description="Voltages table")</i>
<i>Metadata</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>FloatId</i>	PSWR1 (description="PHOTFARRAY001", quantity="V")
<i>FloatId</i>	PSWD16 (description="PHOTFARRAY002", quantity="V")
<i>FloatId</i>	PSWT1 (description="PHOTFARRAY003", quantity="V")
<i>FloatId</i>	PSWB16 (description="PHOTFARRAY004", quantity="V")
<i>FloatId</i>	PSWC15 (description="PHOTFARRAY005", quantity="V")
<i>FloatId</i>	PSWA15 (description="PHOTFARRAY006", quantity="V")
<i>FloatId</i>	PSWD15 (description="PHOTFARRAY007", quantity="V")
<i>FloatId</i>	PSWB15 (description="PHOTFARRAY008", quantity="V")
<i>FloatId</i>	PSWC14 (description="PHOTFARRAY009", quantity="V")

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<i>Float1d</i>	PSWD14 (description="PHOTFARRAY010", quantity="V")
<i>Float1d</i>	PSWA14 (description="PHOTFARRAY011", quantity="V")
<i>Float1d</i>	PSWA13 (description="PHOTFARRAY012", quantity="V")
<i>Float1d</i>	PSWB14 (description="PHOTFARRAY013", quantity="V")
<i>Float1d</i>	PSWC13 (description="PHOTFARRAY014", quantity="V")
<i>Float1d</i>	PSWB13 (description="PHOTFARRAY015", quantity="V")
<i>Float1d</i>	PSWD13 (description="PHOTFARRAY016", quantity="V")
<i>Float1d</i>	PSWA12 (description="PHOTFARRAY017", quantity="V")
<i>Float1d</i>	PSWC12 (description="PHOTFARRAY018", quantity="V")
<i>Float1d</i>	PSWD12 (description="PHOTFARRAY019", quantity="V")
<i>Float1d</i>	PSWB12 (description="PHOTFARRAY020", quantity="V")
<i>Float1d</i>	PSWE11 (description="PHOTFARRAY021", quantity="V")
<i>Float1d</i>	PSWA11 (description="PHOTFARRAY022", quantity="V")
<i>Float1d</i>	PSWC11 (description="PHOTFARRAY023", quantity="V")
<i>Float1d</i>	PSWB11 (description="PHOTFARRAY024", quantity="V")
<i>Float1d</i>	PSWE1 (description="PHOTFARRAY025", quantity="V")
<i>Float1d</i>	PSWF1 (description="PHOTFARRAY026", quantity="V")
<i>Float1d</i>	PSWT2 (description="PHOTFARRAY027", quantity="V")
<i>Float1d</i>	PSWH1 (description="PHOTFARRAY028", quantity="V")
<i>Float1d</i>	PSWG1 (description="PHOTFARRAY029", quantity="V")
<i>Float1d</i>	PSWJ1 (description="PHOTFARRAY030", quantity="V")
<i>Float1d</i>	PSWH2 (description="PHOTFARRAY031", quantity="V")
<i>Float1d</i>	PSWF2 (description="PHOTFARRAY032", quantity="V")
<i>Float1d</i>	PSWJ2 (description="PHOTFARRAY033", quantity="V")
<i>Float1d</i>	PSWG2 (description="PHOTFARRAY034", quantity="V")
<i>Float1d</i>	PSWH3 (description="PHOTFARRAY035", quantity="V")
<i>Float1d</i>	PSWJ3 (description="PHOTFARRAY036", quantity="V")
<i>Float1d</i>	PSWE2 (description="PHOTFARRAY037", quantity="V")
<i>Float1d</i>	PSWF3 (description="PHOTFARRAY038", quantity="V")
<i>Float1d</i>	PSWG3 (description="PHOTFARRAY039", quantity="V")
<i>Float1d</i>	PSWH4 (description="PHOTFARRAY040", quantity="V")
<i>Float1d</i>	PSWJ4 (description="PHOTFARRAY041", quantity="V")
<i>Float1d</i>	PSWE3 (description="PHOTFARRAY042", quantity="V")
<i>Float1d</i>	PSWF4 (description="PHOTFARRAY043", quantity="V")
<i>Float1d</i>	PSWG4 (description="PHOTFARRAY044", quantity="V")
<i>Float1d</i>	PSWH5 (description="PHOTFARRAY045", quantity="V")
<i>Float1d</i>	PSWE4 (description="PHOTFARRAY046", quantity="V")
<i>Float1d</i>	PSWJ5 (description="PHOTFARRAY047", quantity="V")
<i>Float1d</i>	PSWF5 (description="PHOTFARRAY048", quantity="V")
<i>Float1d</i>	PSWD6 (description="PHOTFARRAY049", quantity="V")
<i>Float1d</i>	PSWB6 (description="PHOTFARRAY050", quantity="V")
<i>Float1d</i>	PSWC5 (description="PHOTFARRAY051", quantity="V")

<i>Float1d</i>	PSWA5 (description="PHOTFARRAY052", quantity="V")
<i>Float1d</i>	PSWE5 (description="PHOTFARRAY053", quantity="V")
<i>Float1d</i>	PSWB5 (description="PHOTFARRAY054", quantity="V")
<i>Float1d</i>	PSWD5 (description="PHOTFARRAY055", quantity="V")
<i>Float1d</i>	PSWC4 (description="PHOTFARRAY056", quantity="V")
<i>Float1d</i>	PSWA4 (description="PHOTFARRAY057", quantity="V")
<i>Float1d</i>	PSWD4 (description="PHOTFARRAY058", quantity="V")
<i>Float1d</i>	PSWB4 (description="PHOTFARRAY059", quantity="V")
<i>Float1d</i>	PSWC3 (description="PHOTFARRAY060", quantity="V")
<i>Float1d</i>	PSWB3 (description="PHOTFARRAY061", quantity="V")
<i>Float1d</i>	PSWA3 (description="PHOTFARRAY062", quantity="V")
<i>Float1d</i>	PSWA2 (description="PHOTFARRAY063", quantity="V")
<i>Float1d</i>	PSWD3 (description="PHOTFARRAY064", quantity="V")
<i>Float1d</i>	PSWC2 (description="PHOTFARRAY065", quantity="V")
<i>Float1d</i>	PSWB2 (description="PHOTFARRAY066", quantity="V")
<i>Float1d</i>	PSWD2 (description="PHOTFARRAY067", quantity="V")
<i>Float1d</i>	PSWA1 (description="PHOTFARRAY068", quantity="V")
<i>Float1d</i>	PSWC1 (description="PHOTFARRAY069", quantity="V")
<i>Float1d</i>	PSWB1 (description="PHOTFARRAY070", quantity="V")
<i>Float1d</i>	PSWDP1 (description="PHOTFARRAY071", quantity="V")
<i>Float1d</i>	PSWD1 (description="PHOTFARRAY072", quantity="V")
<i>Float1d</i>	PSWF12 (description="PHOTFARRAY073", quantity="V")
<i>Float1d</i>	PSWJ11 (description="PHOTFARRAY074", quantity="V")
<i>Float1d</i>	PSWE12 (description="PHOTFARRAY075", quantity="V")
<i>Float1d</i>	PSWH12 (description="PHOTFARRAY076", quantity="V")
<i>Float1d</i>	PSWG12 (description="PHOTFARRAY077", quantity="V")
<i>Float1d</i>	PSWF13 (description="PHOTFARRAY078", quantity="V")
<i>Float1d</i>	PSWE13 (description="PHOTFARRAY079", quantity="V")
<i>Float1d</i>	PSWJ12 (description="PHOTFARRAY080", quantity="V")
<i>Float1d</i>	PSWH13 (description="PHOTFARRAY081", quantity="V")
<i>Float1d</i>	PSWG13 (description="PHOTFARRAY082", quantity="V")
<i>Float1d</i>	PSWF14 (description="PHOTFARRAY083", quantity="V")
<i>Float1d</i>	PSWE14 (description="PHOTFARRAY084", quantity="V")
<i>Float1d</i>	PSWJ13 (description="PHOTFARRAY085", quantity="V")
<i>Float1d</i>	PSWH14 (description="PHOTFARRAY086", quantity="V")
<i>Float1d</i>	PSWG14 (description="PHOTFARRAY087", quantity="V")
<i>Float1d</i>	PSWJ14 (description="PHOTFARRAY088", quantity="V")
<i>Float1d</i>	PSWF15 (description="PHOTFARRAY089", quantity="V")
<i>Float1d</i>	PSWH15 (description="PHOTFARRAY090", quantity="V")
<i>Float1d</i>	PSWJ15 (description="PHOTFARRAY091", quantity="V")
<i>Float1d</i>	PSWG15 (description="PHOTFARRAY092", quantity="V")
<i>Float1d</i>	PSWH16 (description="PHOTFARRAY093", quantity="V")

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<i>FloatId</i>	PSWDP2 (description="PHOTFARRAY094", quantity="V")
<i>FloatId</i>	PSWF16 (description="PHOTFARRAY095", quantity="V")
<i>FloatId</i>	PSWE15 (description="PHOTFARRAY096", quantity="V")
<i>FloatId</i>	PSWD11 (description="PHOTFARRAY097", quantity="V")
<i>FloatId</i>	PSWA10 (description="PHOTFARRAY098", quantity="V")
<i>FloatId</i>	PSWE10 (description="PHOTFARRAY099", quantity="V")
<i>FloatId</i>	PSWC10 (description="PHOTFARRAY100", quantity="V")
<i>FloatId</i>	PSWB10 (description="PHOTFARRAY101", quantity="V")
<i>FloatId</i>	PSWD10 (description="PHOTFARRAY102", quantity="V")
<i>FloatId</i>	PSWA9 (description="PHOTFARRAY103", quantity="V")
<i>FloatId</i>	PSWE9 (description="PHOTFARRAY104", quantity="V")
<i>FloatId</i>	PSWC9 (description="PHOTFARRAY105", quantity="V")
<i>FloatId</i>	PSWB9 (description="PHOTFARRAY106", quantity="V")
<i>FloatId</i>	PSWD9 (description="PHOTFARRAY107", quantity="V")
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<i>FloatId</i>	PLWD4 (description="PHOTFARRAY176", quantity="V")
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<i>FloatId</i>	PSWA2 (description="PHOTFARRAY063", quantity="?")
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<i>FloatId</i>	PSWG13 (description="PHOTFARRAY082", quantity="?")
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<i>FloatId</i>	PSWA7 (description="PHOTFARRAY115", quantity="?")
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<i>FloatId</i>	PSWB7 (description="PHOTFARRAY117", quantity="?")
<i>FloatId</i>	PSWC6 (description="PHOTFARRAY118", quantity="?")
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<i>FloatId</i>	PSWG7 (description="PHOTFARRAY129", quantity="?")
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<i>FloatId</i>	PSWF8 (description="PHOTFARRAY131", quantity="?")
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<i>FloatId</i>	PSWJ9 (description="PHOTFARRAY137", quantity="?")

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<i>FloatId</i>	PSWG10 (description="PHOTFARRAY140", quantity="?")
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<i>FloatId</i>	PSWJ10 (description="PHOTFARRAY142", quantity="?")
<i>FloatId</i>	PSWH11 (description="PHOTFARRAY143", quantity="?")
<i>FloatId</i>	PSWG11 (description="PHOTFARRAY144", quantity="?")
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<i>FloatId</i>	PLWA8 (description="PHOTFARRAY146", quantity="?")
<i>FloatId</i>	PLWA7 (description="PHOTFARRAY147", quantity="?")
<i>FloatId</i>	PLWA6 (description="PHOTFARRAY148", quantity="?")
<i>FloatId</i>	PLWA9 (description="PHOTFARRAY149", quantity="?")
<i>FloatId</i>	PLWC9 (description="PHOTFARRAY150", quantity="?")
<i>FloatId</i>	PLWB8 (description="PHOTFARRAY151", quantity="?")
<i>FloatId</i>	PLWB7 (description="PHOTFARRAY152", quantity="?")
<i>FloatId</i>	PLWC7 (description="PHOTFARRAY153", quantity="?")
<i>FloatId</i>	PLWB5 (description="PHOTFARRAY154", quantity="?")
<i>FloatId</i>	PLWB6 (description="PHOTFARRAY155", quantity="?")
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<i>FloatId</i>	PLWC4 (description="PHOTFARRAY159", quantity="?")
<i>FloatId</i>	PLWB3 (description="PHOTFARRAY160", quantity="?")
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<i>FloatId</i>	PLWB2 (description="PHOTFARRAY162", quantity="?")
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<i>FloatId</i>	PLWA4 (description="PHOTFARRAY165", quantity="?")
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<i>FloatId</i>	PLWA2 (description="PHOTFARRAY168", quantity="?")
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<i>FloatId</i>	PLWE3 (description="PHOTFARRAY171", quantity="?")
<i>FloatId</i>	PLWE4 (description="PHOTFARRAY172", quantity="?")
<i>FloatId</i>	PLWD1 (description="PHOTFARRAY173", quantity="?")
<i>FloatId</i>	PLWD2 (description="PHOTFARRAY174", quantity="?")
<i>FloatId</i>	PLWD3 (description="PHOTFARRAY175", quantity="?")
<i>FloatId</i>	PLWD4 (description="PHOTFARRAY176", quantity="?")
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<i>FloatId</i>	PLWC3 (description="PHOTFARRAY178", quantity="?")
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<i>FloatId</i>	PLWT2 (description="PHOTFARRAY180", quantity="?")
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<i>FloatId</i>	PMWC9 (description="PHOTFARRAY210", quantity="?")
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<i>FloatId</i>	PMWB7 (description="PHOTFARRAY216", quantity="?")
<i>FloatId</i>	PMWR1 (description="PHOTFARRAY217", quantity="?")
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<i>FloatId</i>	PMWF1 (description="PHOTFARRAY222", quantity="?")
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<i>FloatId</i>	PMWF4 (description="PHOTFARRAY232", quantity="?")
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<i>FloatId</i>	PMWF8 (description="PHOTFARRAY255", quantity="?")
<i>FloatId</i>	PMWE9 (description="PHOTFARRAY256", quantity="?")
<i>FloatId</i>	PMWG9 (description="PHOTFARRAY257", quantity="?")
<i>FloatId</i>	PMWD9 (description="PHOTFARRAY258", quantity="?")
<i>FloatId</i>	PMWF9 (description="PHOTFARRAY259", quantity="?")
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<i>FloatId</i>	PMWG10 (description="PHOTFARRAY261", quantity="?")
<i>FloatId</i>	PMWC4 (description="PHOTFARRAY262", quantity="?")
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<i>Float1d</i>	PMWC3 (description="PHOTFARRAY264", quantity="?")
<i>Float1d</i>	PMWB2 (description="PHOTFARRAY265", quantity="?")
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<i>Float1d</i>	PMWB1 (description="PHOTFARRAY270", quantity="?")
<i>Float1d</i>	PMWA1 (description="PHOTFARRAY271", quantity="?")
<i>Float1d</i>	PMWDP1 (description="PHOTFARRAY272", quantity="?")
<i>Float1d</i>	PMWC1 (description="PHOTFARRAY273", quantity="?")
<i>Float1d</i>	PMWA7 (description="PHOTFARRAY274", quantity="?")
<i>Float1d</i>	PMWA6 (description="PHOTFARRAY275", quantity="?")
<i>Float1d</i>	PMWB6 (description="PHOTFARRAY276", quantity="?")
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<i>Float1d</i>	PMWA5 (description="PHOTFARRAY278", quantity="?")
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<i>Float1d</i>	PMWC6 (description="PHOTFARRAY280", quantity="?")
<i>Float1d</i>	PMWD6 (description="PHOTFARRAY281", quantity="?")
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<i>Float1d</i>	PMWC5 (description="PHOTFARRAY283", quantity="?")
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<i>Double1d</i>	sampleTime (description="Sample time", quantity="TAI")
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<i>Int1d</i>	PSWD16 (description="PHOTFARRAY002", quantity="")
<i>Int1d</i>	PSWT1 (description="PHOTFARRAY003", quantity="")
<i>Int1d</i>	PSWB16 (description="PHOTFARRAY004", quantity="")
<i>Int1d</i>	PSWC15 (description="PHOTFARRAY005", quantity="")
<i>Int1d</i>	PSWA15 (description="PHOTFARRAY006", quantity="")
<i>Int1d</i>	PSWD15 (description="PHOTFARRAY007", quantity="")
<i>Int1d</i>	PSWB15 (description="PHOTFARRAY008", quantity="")
<i>Int1d</i>	PSWC14 (description="PHOTFARRAY009", quantity="")
<i>Int1d</i>	PSWD14 (description="PHOTFARRAY010", quantity="")
<i>Int1d</i>	PSWA14 (description="PHOTFARRAY011", quantity="")
<i>Int1d</i>	PSWA13 (description="PHOTFARRAY012", quantity="")
<i>Int1d</i>	PSWB14 (description="PHOTFARRAY013", quantity="")

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<i>Int1d</i>	PSWC13 (description="PHOTFARRAY014", quantity="")
<i>Int1d</i>	PSWB13 (description="PHOTFARRAY015", quantity="")
<i>Int1d</i>	PSWD13 (description="PHOTFARRAY016", quantity="")
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<i>Int1d</i>	PSWH1 (description="PHOTFARRAY028", quantity="")
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<i>Int1d</i>	PSWB5 (description="PHOTFARRAY054", quantity="")
<i>Int1d</i>	PSWD5 (description="PHOTFARRAY055", quantity="")

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<i>Int1d</i>	PSWA4 (description="PHOTFARRAY057", quantity="")
<i>Int1d</i>	PSWD4 (description="PHOTFARRAY058", quantity="")
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<i>Int1d</i>	PSWD3 (description="PHOTFARRAY064", quantity="")
<i>Int1d</i>	PSWC2 (description="PHOTFARRAY065", quantity="")
<i>Int1d</i>	PSWB2 (description="PHOTFARRAY066", quantity="")
<i>Int1d</i>	PSWD2 (description="PHOTFARRAY067", quantity="")
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<i>Int1d</i>	PSWC1 (description="PHOTFARRAY069", quantity="")
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<i>Int1d</i>	PSWD1 (description="PHOTFARRAY072", quantity="")
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<i>Int1d</i>	PSWF16 (description="PHOTFARRAY095", quantity="")
<i>Int1d</i>	PSWE15 (description="PHOTFARRAY096", quantity="")
<i>Int1d</i>	PSWD11 (description="PHOTFARRAY097", quantity="")

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<i>Int1d</i>	PSWA10 (description="PHOTFARRAY098", quantity="")
<i>Int1d</i>	PSWE10 (description="PHOTFARRAY099", quantity="")
<i>Int1d</i>	PSWC10 (description="PHOTFARRAY100", quantity="")
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<i>Int1d</i>	PSWA9 (description="PHOTFARRAY103", quantity="")
<i>Int1d</i>	PSWE9 (description="PHOTFARRAY104", quantity="")
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<i>Int1d</i>	PSWB9 (description="PHOTFARRAY106", quantity="")
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<i>Int1d</i>	PSWC7 (description="PHOTFARRAY113", quantity="")
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<i>Int1d</i>	PSWA7 (description="PHOTFARRAY115", quantity="")
<i>Int1d</i>	PSWD7 (description="PHOTFARRAY116", quantity="")
<i>Int1d</i>	PSWB7 (description="PHOTFARRAY117", quantity="")
<i>Int1d</i>	PSWC6 (description="PHOTFARRAY118", quantity="")
<i>Int1d</i>	PSWE6 (description="PHOTFARRAY119", quantity="")
<i>Int1d</i>	PSWA6 (description="PHOTFARRAY120", quantity="")
<i>Int1d</i>	PSWG5 (description="PHOTFARRAY121", quantity="")
<i>Int1d</i>	PSWH6 (description="PHOTFARRAY122", quantity="")
<i>Int1d</i>	PSWJ6 (description="PHOTFARRAY123", quantity="")
<i>Int1d</i>	PSWF6 (description="PHOTFARRAY124", quantity="")
<i>Int1d</i>	PSWG6 (description="PHOTFARRAY125", quantity="")
<i>Int1d</i>	PSWH7 (description="PHOTFARRAY126", quantity="")
<i>Int1d</i>	PSWF7 (description="PHOTFARRAY127", quantity="")
<i>Int1d</i>	PSWJ7 (description="PHOTFARRAY128", quantity="")
<i>Int1d</i>	PSWG7 (description="PHOTFARRAY129", quantity="")
<i>Int1d</i>	PSWH8 (description="PHOTFARRAY130", quantity="")
<i>Int1d</i>	PSWF8 (description="PHOTFARRAY131", quantity="")
<i>Int1d</i>	PSWG8 (description="PHOTFARRAY132", quantity="")
<i>Int1d</i>	PSWJ8 (description="PHOTFARRAY133", quantity="")
<i>Int1d</i>	PSWF9 (description="PHOTFARRAY134", quantity="")
<i>Int1d</i>	PSWH9 (description="PHOTFARRAY135", quantity="")
<i>Int1d</i>	PSWG9 (description="PHOTFARRAY136", quantity="")
<i>Int1d</i>	PSWJ9 (description="PHOTFARRAY137", quantity="")
<i>Int1d</i>	PSWF10 (description="PHOTFARRAY138", quantity="")
<i>Int1d</i>	PSWH10 (description="PHOTFARRAY139", quantity="")

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<i>IntId</i>	PSWG10 (description="PHOTFARRAY140", quantity="")
<i>IntId</i>	PSWF11 (description="PHOTFARRAY141", quantity="")
<i>IntId</i>	PSWJ10 (description="PHOTFARRAY142", quantity="")
<i>IntId</i>	PSWH11 (description="PHOTFARRAY143", quantity="")
<i>IntId</i>	PSWG11 (description="PHOTFARRAY144", quantity="")
<i>IntId</i>	PLWR1 (description="PHOTFARRAY145", quantity="")
<i>IntId</i>	PLWA8 (description="PHOTFARRAY146", quantity="")
<i>IntId</i>	PLWA7 (description="PHOTFARRAY147", quantity="")
<i>IntId</i>	PLWA6 (description="PHOTFARRAY148", quantity="")
<i>IntId</i>	PLWA9 (description="PHOTFARRAY149", quantity="")
<i>IntId</i>	PLWC9 (description="PHOTFARRAY150", quantity="")
<i>IntId</i>	PLWB8 (description="PHOTFARRAY151", quantity="")
<i>IntId</i>	PLWB7 (description="PHOTFARRAY152", quantity="")
<i>IntId</i>	PLWC7 (description="PHOTFARRAY153", quantity="")
<i>IntId</i>	PLWB5 (description="PHOTFARRAY154", quantity="")
<i>IntId</i>	PLWB6 (description="PHOTFARRAY155", quantity="")
<i>IntId</i>	PLWA5 (description="PHOTFARRAY156", quantity="")
<i>IntId</i>	PLWT1 (description="PHOTFARRAY157", quantity="")
<i>IntId</i>	PLWB4 (description="PHOTFARRAY158", quantity="")
<i>IntId</i>	PLWC4 (description="PHOTFARRAY159", quantity="")
<i>IntId</i>	PLWB3 (description="PHOTFARRAY160", quantity="")
<i>IntId</i>	PLWC2 (description="PHOTFARRAY161", quantity="")
<i>IntId</i>	PLWB2 (description="PHOTFARRAY162", quantity="")
<i>IntId</i>	PLWB1 (description="PHOTFARRAY163", quantity="")
<i>IntId</i>	PLWA3 (description="PHOTFARRAY164", quantity="")
<i>IntId</i>	PLWA4 (description="PHOTFARRAY165", quantity="")
<i>IntId</i>	PLWA1 (description="PHOTFARRAY166", quantity="")
<i>IntId</i>	PLWDP1 (description="PHOTFARRAY167", quantity="")
<i>IntId</i>	PLWA2 (description="PHOTFARRAY168", quantity="")
<i>IntId</i>	PLWE1 (description="PHOTFARRAY169", quantity="")
<i>IntId</i>	PLWE2 (description="PHOTFARRAY170", quantity="")
<i>IntId</i>	PLWE3 (description="PHOTFARRAY171", quantity="")
<i>IntId</i>	PLWE4 (description="PHOTFARRAY172", quantity="")
<i>IntId</i>	PLWD1 (description="PHOTFARRAY173", quantity="")
<i>IntId</i>	PLWD2 (description="PHOTFARRAY174", quantity="")
<i>IntId</i>	PLWD3 (description="PHOTFARRAY175", quantity="")
<i>IntId</i>	PLWD4 (description="PHOTFARRAY176", quantity="")
<i>IntId</i>	PLWC1 (description="PHOTFARRAY177", quantity="")
<i>IntId</i>	PLWC3 (description="PHOTFARRAY178", quantity="")
<i>IntId</i>	PLWC5 (description="PHOTFARRAY179", quantity="")
<i>IntId</i>	PLWT2 (description="PHOTFARRAY180", quantity="")
<i>IntId</i>	PLWE5 (description="PHOTFARRAY181", quantity="")

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<i>Int1d</i>	PLWC6 (description="PHOTFARRAY182", quantity="")
<i>Int1d</i>	PLWC8 (description="PHOTFARRAY183", quantity="")
<i>Int1d</i>	PLWD5 (description="PHOTFARRAY184", quantity="")
<i>Int1d</i>	PLWD6 (description="PHOTFARRAY185", quantity="")
<i>Int1d</i>	PLWD7 (description="PHOTFARRAY186", quantity="")
<i>Int1d</i>	PLWD8 (description="PHOTFARRAY187", quantity="")
<i>Int1d</i>	PLWE7 (description="PHOTFARRAY188", quantity="")
<i>Int1d</i>	PLWE6 (description="PHOTFARRAY189", quantity="")
<i>Int1d</i>	PLWE8 (description="PHOTFARRAY190", quantity="")
<i>Int1d</i>	PLWDP2 (description="PHOTFARRAY191", quantity="")
<i>Int1d</i>	PLWE9 (description="PHOTFARRAY192", quantity="")
<i>Int1d</i>	PMWA13 (description="PHOTFARRAY193", quantity="")
<i>Int1d</i>	PMWT1 (description="PHOTFARRAY194", quantity="")
<i>Int1d</i>	PMWB12 (description="PHOTFARRAY195", quantity="")
<i>Int1d</i>	PMWC13 (description="PHOTFARRAY196", quantity="")
<i>Int1d</i>	PMWA12 (description="PHOTFARRAY197", quantity="")
<i>Int1d</i>	PMWD12 (description="PHOTFARRAY198", quantity="")
<i>Int1d</i>	PMWC12 (description="PHOTFARRAY199", quantity="")
<i>Int1d</i>	PMWB11 (description="PHOTFARRAY200", quantity="")
<i>Int1d</i>	PMWA11 (description="PHOTFARRAY201", quantity="")
<i>Int1d</i>	PMWE13 (description="PHOTFARRAY202", quantity="")
<i>Int1d</i>	PMWD11 (description="PHOTFARRAY203", quantity="")
<i>Int1d</i>	PMWC11 (description="PHOTFARRAY204", quantity="")
<i>Int1d</i>	PMWB10 (description="PHOTFARRAY205", quantity="")
<i>Int1d</i>	PMWA10 (description="PHOTFARRAY206", quantity="")
<i>Int1d</i>	PMWD10 (description="PHOTFARRAY207", quantity="")
<i>Int1d</i>	PMWB9 (description="PHOTFARRAY208", quantity="")
<i>Int1d</i>	PMWC10 (description="PHOTFARRAY209", quantity="")
<i>Int1d</i>	PMWC9 (description="PHOTFARRAY210", quantity="")
<i>Int1d</i>	PMWA9 (description="PHOTFARRAY211", quantity="")
<i>Int1d</i>	PMWB8 (description="PHOTFARRAY212", quantity="")
<i>Int1d</i>	PMWA8 (description="PHOTFARRAY213", quantity="")
<i>Int1d</i>	PMWD8 (description="PHOTFARRAY214", quantity="")
<i>Int1d</i>	PMWC8 (description="PHOTFARRAY215", quantity="")
<i>Int1d</i>	PMWB7 (description="PHOTFARRAY216", quantity="")
<i>Int1d</i>	PMWR1 (description="PHOTFARRAY217", quantity="")
<i>Int1d</i>	PMWG1 (description="PHOTFARRAY218", quantity="")
<i>Int1d</i>	PMWT2 (description="PHOTFARRAY219", quantity="")
<i>Int1d</i>	PMWE1 (description="PHOTFARRAY220", quantity="")
<i>Int1d</i>	PMWD1 (description="PHOTFARRAY221", quantity="")
<i>Int1d</i>	PMWF1 (description="PHOTFARRAY222", quantity="")
<i>Int1d</i>	PMWE2 (description="PHOTFARRAY223", quantity="")

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<i>Int1d</i>	PMWG2 (description="PHOTFARRAY224", quantity="")
<i>Int1d</i>	PMWF2 (description="PHOTFARRAY225", quantity="")
<i>Int1d</i>	PMWG3 (description="PHOTFARRAY226", quantity="")
<i>Int1d</i>	PMWE3 (description="PHOTFARRAY227", quantity="")
<i>Int1d</i>	PMWD3 (description="PHOTFARRAY228", quantity="")
<i>Int1d</i>	PMWF3 (description="PHOTFARRAY229", quantity="")
<i>Int1d</i>	PMWG4 (description="PHOTFARRAY230", quantity="")
<i>Int1d</i>	PMWE4 (description="PHOTFARRAY231", quantity="")
<i>Int1d</i>	PMWF4 (description="PHOTFARRAY232", quantity="")
<i>Int1d</i>	PMWE5 (description="PHOTFARRAY233", quantity="")
<i>Int1d</i>	PMWD5 (description="PHOTFARRAY234", quantity="")
<i>Int1d</i>	PMWF5 (description="PHOTFARRAY235", quantity="")
<i>Int1d</i>	PMWG5 (description="PHOTFARRAY236", quantity="")
<i>Int1d</i>	PMWE6 (description="PHOTFARRAY237", quantity="")
<i>Int1d</i>	PMWG6 (description="PHOTFARRAY238", quantity="")
<i>Int1d</i>	PMWF6 (description="PHOTFARRAY239", quantity="")
<i>Int1d</i>	PMWG7 (description="PHOTFARRAY240", quantity="")
<i>Int1d</i>	PMWF10 (description="PHOTFARRAY241", quantity="")
<i>Int1d</i>	PMWE11 (description="PHOTFARRAY242", quantity="")
<i>Int1d</i>	PMWG11 (description="PHOTFARRAY243", quantity="")
<i>Int1d</i>	PMWF11 (description="PHOTFARRAY244", quantity="")
<i>Int1d</i>	PMWE12 (description="PHOTFARRAY245", quantity="")
<i>Int1d</i>	PMWG12 (description="PHOTFARRAY246", quantity="")
<i>Int1d</i>	PMWF12 (description="PHOTFARRAY247", quantity="")
<i>Int1d</i>	PMWG13 (description="PHOTFARRAY248", quantity="")
<i>Int1d</i>	PMWDP2 (description="PHOTFARRAY249", quantity="")
<i>Int1d</i>	PMWE7 (description="PHOTFARRAY250", quantity="")
<i>Int1d</i>	PMWD7 (description="PHOTFARRAY251", quantity="")
<i>Int1d</i>	PMWF7 (description="PHOTFARRAY252", quantity="")
<i>Int1d</i>	PMWE8 (description="PHOTFARRAY253", quantity="")
<i>Int1d</i>	PMWG8 (description="PHOTFARRAY254", quantity="")
<i>Int1d</i>	PMWF8 (description="PHOTFARRAY255", quantity="")
<i>Int1d</i>	PMWE9 (description="PHOTFARRAY256", quantity="")
<i>Int1d</i>	PMWG9 (description="PHOTFARRAY257", quantity="")
<i>Int1d</i>	PMWD9 (description="PHOTFARRAY258", quantity="")
<i>Int1d</i>	PMWF9 (description="PHOTFARRAY259", quantity="")
<i>Int1d</i>	PMWE10 (description="PHOTFARRAY260", quantity="")
<i>Int1d</i>	PMWG10 (description="PHOTFARRAY261", quantity="")
<i>Int1d</i>	PMWC4 (description="PHOTFARRAY262", quantity="")
<i>Int1d</i>	PMWB3 (description="PHOTFARRAY263", quantity="")
<i>Int1d</i>	PMWC3 (description="PHOTFARRAY264", quantity="")
<i>Int1d</i>	PMWB2 (description="PHOTFARRAY265", quantity="")

<i>Int1d</i>	PMWD2 (description="PHOTFARRAY266", quantity="")
<i>Int1d</i>	PMWA3 (description="PHOTFARRAY267", quantity="")
<i>Int1d</i>	PMWA2 (description="PHOTFARRAY268", quantity="")
<i>Int1d</i>	PMWC2 (description="PHOTFARRAY269", quantity="")
<i>Int1d</i>	PMWB1 (description="PHOTFARRAY270", quantity="")
<i>Int1d</i>	PMWA1 (description="PHOTFARRAY271", quantity="")
<i>Int1d</i>	PMWDPI (description="PHOTFARRAY272", quantity="")
<i>Int1d</i>	PMWC1 (description="PHOTFARRAY273", quantity="")
<i>Int1d</i>	PMWA7 (description="PHOTFARRAY274", quantity="")
<i>Int1d</i>	PMWA6 (description="PHOTFARRAY275", quantity="")
<i>Int1d</i>	PMWB6 (description="PHOTFARRAY276", quantity="")
<i>Int1d</i>	PMWC7 (description="PHOTFARRAY277", quantity="")
<i>Int1d</i>	PMWA5 (description="PHOTFARRAY278", quantity="")
<i>Int1d</i>	PMWB5 (description="PHOTFARRAY279", quantity="")
<i>Int1d</i>	PMWC6 (description="PHOTFARRAY280", quantity="")
<i>Int1d</i>	PMWD6 (description="PHOTFARRAY281", quantity="")
<i>Int1d</i>	PMWB4 (description="PHOTFARRAY282", quantity="")
<i>Int1d</i>	PMWC5 (description="PHOTFARRAY283", quantity="")
<i>Int1d</i>	PMWD4 (description="PHOTFARRAY284", quantity="")
<i>Int1d</i>	PMWA4 (description="PHOTFARRAY285", quantity="")
<i>Int1d</i>	PTCP1 (description="PHOTFARRAY286", quantity="")
<i>Int1d</i>	PTCP2 (description="PHOTFARRAY287", quantity="")
<i>Int1d</i>	PTCP3 (description="PHOTFARRAY288", quantity="")
<i>table dataset</i>	(description="Quality control metric quantities")
<i>Metadata</i>	
<i>StringId</i>	channelName (description="Channel name", quantity="")
<i>Float1d</i>	adcErrors (description="Fraction of ADC errors", quantity="")
<i>Float1d</i>	truncation (description="Fraction of out of range values", quantity="")
<i>composite</i>	(description="History of product")
<i>Metadata</i>	
<i>LongParameter</i>	id (description="Unique ID")
<i>table dataset</i>	(description="History as Jython script")
<i>Metadata</i>	
<i>StringParameter</i>	outvar (description="last output variable")
<i>StringId</i>	Lines (description="script lines", quantity="none")
<i>table dataset</i>	(description="History of tasks")
<i>Metadata</i>	
<i>LongId</i>	ID (description="Links the parameter and task table", quantity="none")
<i>StringId</i>	Name (description="The name of the task", quantity="none")
<i>LongId</i>	ExecDate (description="Time of execution (FINETIME)", quantity="none")

	<i>BoolId</i>	Succeeded (description="Flag for success/failed", quantity="none")
	<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
<i>table dataset</i>	(description="The parameters belonging to the task history")	
	<i>Metadata</i>	
	<i>LongId</i>	TaskID (description="Links the parameter and task table", quantity="none")
	<i>StringId</i>	Name (description="The name of the parameter", quantity="none")
	<i>StringId</i>	Type (description="Type of parameter", quantity="none")
	<i>StringId</i>	Value (description="String representation of the parameter value", quantity="none")
	<i>BoolId</i>	IsDefault (description="True if the default value has been used", quantity="none")
	<i>LongId</i>	IncHistoryId (description="ID of the history of an included product", quantity="none")
	<i>IntId</i>	IncNumTask (description="Number of tasks to include from history", quantity="none")
	<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
	<i>BoolId</i>	UserInput (description="Needs user input", quantity="none")
<i>table dataset</i>	(description="Temperature")	
	<i>Metadata</i>	
	<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
	<i>FloatId</i>	PSWT1 (description="Thermistor temperature", quantity="K")
	<i>FloatId</i>	PSWT2 (description="Thermistor temperature", quantity="K")
	<i>FloatId</i>	PLWT1 (description="Thermistor temperature", quantity="K")
	<i>FloatId</i>	PLWT2 (description="Thermistor temperature", quantity="K")
	<i>FloatId</i>	PMWT1 (description="Thermistor temperature", quantity="K")
	<i>FloatId</i>	PMWT2 (description="Thermistor temperature", quantity="K")

11.2.2. SDT: Spectrometer Detector Timeline

<i>product (type="SDT", description="Spectrometer Detector Timeline")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")

StringParameter	author (description="Author of the Data")
StringParameter	cusMode (description="CUS observation mode")
DoubleParameter	dec (description="Actual Declination of pointing")
DoubleParameter	decNominal (description="Requested Declination of pointing")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	instMode (description="Instrument mode")
StringParameter	fileName (description="file name for export")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	naifId (description="SSO NAIF identifier")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
LongParameter	obsid (description="Observation identifier")
StringParameter	obsMode (description="Observing mode")
LongParameter	odNumber (description="Operational day number")
StringParameter	pointingMode (description="Pointing mode")
DoubleParameter	posAngle (description="Position Angle of pointing")
StringParameter	proposal (description="Proposal name")
DoubleParameter	ra (description="Actual Right Ascension of pointing")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing")
StringParameter	telescope (description="Name of telescope")
StringParameter	subsystem (description="Instrument subsystem")
LongParameter	bbid (description="Building Block Identifier")
StringParameter	source (description="TM source packet name")
StringParameter	commandedResolution (description="Commanded Spectral Resolution")
StringParameter	bbTypeName (description="Building block type name")
BooleanParameter	offsetApp (description="Detector offsets applied")
DoubleParameter	biasFreq (description="Bias frequency")
BooleanParameter	rcRollApp (description="RC roll correction applied")
<i>table dataset</i>	(description="Signal timelines")
<i>Metadata</i>	
<i>Double1d</i>	sampleTime (description="SpireDataFrame time", quantity="s")
<i>Double1d</i>	SSWR1 (description="SPECFARRAY001", quantity="V")
<i>Double1d</i>	SSWA4 (description="SPECFARRAY002", quantity="V")
<i>Double1d</i>	SSWA3 (description="SPECFARRAY003", quantity="V")
<i>Double1d</i>	SSWA2 (description="SPECFARRAY004", quantity="V")
<i>Double1d</i>	SSWA1 (description="SPECFARRAY005", quantity="V")
<i>Double1d</i>	SSWDP1 (description="SPECFARRAY006", quantity="V")
<i>Double1d</i>	SSWB3 (description="SPECFARRAY007", quantity="V")
<i>Double1d</i>	SSWB2 (description="SPECFARRAY008", quantity="V")
<i>Double1d</i>	SSWB1 (description="SPECFARRAY009", quantity="V")

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<i>Double1d</i>	SSWC3 (description="SPECFARRAY010", quantity="V")
<i>Double1d</i>	SSWC2 (description="SPECFARRAY011", quantity="V")
<i>Double1d</i>	SSWC1 (description="SPECFARRAY012", quantity="V")
<i>Double1d</i>	SSWD3 (description="SPECFARRAY013", quantity="V")
<i>Double1d</i>	SSWD2 (description="SPECFARRAY014", quantity="V")
<i>Double1d</i>	SSWD1 (description="SPECFARRAY015", quantity="V")
<i>Double1d</i>	SSWE3 (description="SPECFARRAY016", quantity="V")
<i>Double1d</i>	SSWE2 (description="SPECFARRAY017", quantity="V")
<i>Double1d</i>	SSWE1 (description="SPECFARRAY018", quantity="V")
<i>Double1d</i>	SSWF3 (description="SPECFARRAY019", quantity="V")
<i>Double1d</i>	SSWF2 (description="SPECFARRAY020", quantity="V")
<i>Double1d</i>	SSWF1 (description="SPECFARRAY021", quantity="V")
<i>Double1d</i>	SSWG1 (description="SPECFARRAY022", quantity="V")
<i>Double1d</i>	SSWT1 (description="SPECFARRAY023", quantity="V")
<i>Double1d</i>	SSWG2 (description="SPECFARRAY024", quantity="V")
<i>Double1d</i>	SSWE5 (description="SPECFARRAY025", quantity="V")
<i>Double1d</i>	SSWE4 (description="SPECFARRAY026", quantity="V")
<i>Double1d</i>	SSWD7 (description="SPECFARRAY027", quantity="V")
<i>Double1d</i>	SSWD6 (description="SPECFARRAY028", quantity="V")
<i>Double1d</i>	SSWD5 (description="SPECFARRAY029", quantity="V")
<i>Double1d</i>	SSWD4 (description="SPECFARRAY030", quantity="V")
<i>Double1d</i>	SSWC6 (description="SPECFARRAY031", quantity="V")
<i>Double1d</i>	SSWC5 (description="SPECFARRAY032", quantity="V")
<i>Double1d</i>	SSWC4 (description="SPECFARRAY033", quantity="V")
<i>Double1d</i>	SSWB5 (description="SPECFARRAY034", quantity="V")
<i>Double1d</i>	SSWB4 (description="SPECFARRAY035", quantity="V")
<i>Double1d</i>	SSWT2 (description="SPECFARRAY036", quantity="V")
<i>Double1d</i>	SSWG3 (description="SPECFARRAY037", quantity="V")
<i>Double1d</i>	SSWG4 (description="SPECFARRAY038", quantity="V")
<i>Double1d</i>	SSWDP2 (description="SPECFARRAY039", quantity="V")
<i>Double1d</i>	SSWF5 (description="SPECFARRAY040", quantity="V")
<i>Double1d</i>	SSWF4 (description="SPECFARRAY041", quantity="V")
<i>Double1d</i>	SSWE6 (description="SPECFARRAY042", quantity="V")
<i>Double1d</i>	SLWR1 (description="SPECFARRAY049", quantity="V")
<i>Double1d</i>	SLWT1 (description="SPECFARRAY050", quantity="V")
<i>Double1d</i>	SLWC1 (description="SPECFARRAY051", quantity="V")
<i>Double1d</i>	SLWDP1 (description="SPECFARRAY052", quantity="V")
<i>Double1d</i>	SLWB1 (description="SPECFARRAY053", quantity="V")
<i>Double1d</i>	SLWD1 (description="SPECFARRAY054", quantity="V")
<i>Double1d</i>	SLWE1 (description="SPECFARRAY055", quantity="V")
<i>Double1d</i>	SLWA1 (description="SPECFARRAY056", quantity="V")
<i>Double1d</i>	SLWC2 (description="SPECFARRAY057", quantity="V")

<i>DoubleId</i>	SLWD2 (description="SPECFARRAY058", quantity="V")
<i>DoubleId</i>	SLWB2 (description="SPECFARRAY059", quantity="V")
<i>DoubleId</i>	SLWE2 (description="SPECFARRAY060", quantity="V")
<i>DoubleId</i>	SLWA2 (description="SPECFARRAY061", quantity="V")
<i>DoubleId</i>	SLWC3 (description="SPECFARRAY062", quantity="V")
<i>DoubleId</i>	SLWD3 (description="SPECFARRAY063", quantity="V")
<i>DoubleId</i>	SLWB3 (description="SPECFARRAY064", quantity="V")
<i>DoubleId</i>	SLWE3 (description="SPECFARRAY065", quantity="V")
<i>DoubleId</i>	SLWC4 (description="SPECFARRAY066", quantity="V")
<i>DoubleId</i>	SLWDP2 (description="SPECFARRAY067", quantity="V")
<i>DoubleId</i>	SLWD4 (description="SPECFARRAY068", quantity="V")
<i>DoubleId</i>	SLWC5 (description="SPECFARRAY069", quantity="V")
<i>DoubleId</i>	SLWB4 (description="SPECFARRAY070", quantity="V")
<i>DoubleId</i>	SLWA3 (description="SPECFARRAY071", quantity="V")
<i>DoubleId</i>	SLWT2 (description="SPECFARRAY072", quantity="V")
<i>table dataset</i>	(description="Signal timelines")
<i>Metadata</i>	
<i>DoubleId</i>	sampleTime (description="SpireDataFrame time", quantity="s")
<i>DoubleId</i>	SSWR1 (description="SPECFARRAY001", quantity="?")
<i>DoubleId</i>	SSWA4 (description="SPECFARRAY002", quantity="?")
<i>DoubleId</i>	SSWA3 (description="SPECFARRAY003", quantity="?")
<i>DoubleId</i>	SSWA2 (description="SPECFARRAY004", quantity="?")
<i>DoubleId</i>	SSWA1 (description="SPECFARRAY005", quantity="?")
<i>DoubleId</i>	SSWDP1 (description="SPECFARRAY006", quantity="?")
<i>DoubleId</i>	SSWB3 (description="SPECFARRAY007", quantity="?")
<i>DoubleId</i>	SSWB2 (description="SPECFARRAY008", quantity="?")
<i>DoubleId</i>	SSWB1 (description="SPECFARRAY009", quantity="?")
<i>DoubleId</i>	SSWC3 (description="SPECFARRAY010", quantity="?")
<i>DoubleId</i>	SSWC2 (description="SPECFARRAY011", quantity="?")
<i>DoubleId</i>	SSWC1 (description="SPECFARRAY012", quantity="?")
<i>DoubleId</i>	SSWD3 (description="SPECFARRAY013", quantity="?")
<i>DoubleId</i>	SSWD2 (description="SPECFARRAY014", quantity="?")
<i>DoubleId</i>	SSWD1 (description="SPECFARRAY015", quantity="?")
<i>DoubleId</i>	SSWE3 (description="SPECFARRAY016", quantity="?")
<i>DoubleId</i>	SSWE2 (description="SPECFARRAY017", quantity="?")
<i>DoubleId</i>	SSWE1 (description="SPECFARRAY018", quantity="?")
<i>DoubleId</i>	SSWF3 (description="SPECFARRAY019", quantity="?")
<i>DoubleId</i>	SSWF2 (description="SPECFARRAY020", quantity="?")
<i>DoubleId</i>	SSWF1 (description="SPECFARRAY021", quantity="?")
<i>DoubleId</i>	SSWG1 (description="SPECFARRAY022", quantity="?")
<i>DoubleId</i>	SSWT1 (description="SPECFARRAY023", quantity="?")

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<i>Double1d</i>	SSWG2 (description="SPECFARRAY024", quantity="?")
<i>Double1d</i>	SSWE5 (description="SPECFARRAY025", quantity="?")
<i>Double1d</i>	SSWE4 (description="SPECFARRAY026", quantity="?")
<i>Double1d</i>	SSWD7 (description="SPECFARRAY027", quantity="?")
<i>Double1d</i>	SSWD6 (description="SPECFARRAY028", quantity="?")
<i>Double1d</i>	SSWD5 (description="SPECFARRAY029", quantity="?")
<i>Double1d</i>	SSWD4 (description="SPECFARRAY030", quantity="?")
<i>Double1d</i>	SSWC6 (description="SPECFARRAY031", quantity="?")
<i>Double1d</i>	SSWC5 (description="SPECFARRAY032", quantity="?")
<i>Double1d</i>	SSWC4 (description="SPECFARRAY033", quantity="?")
<i>Double1d</i>	SSWB5 (description="SPECFARRAY034", quantity="?")
<i>Double1d</i>	SSWB4 (description="SPECFARRAY035", quantity="?")
<i>Double1d</i>	SSWT2 (description="SPECFARRAY036", quantity="?")
<i>Double1d</i>	SSWG3 (description="SPECFARRAY037", quantity="?")
<i>Double1d</i>	SSWG4 (description="SPECFARRAY038", quantity="?")
<i>Double1d</i>	SSWDP2 (description="SPECFARRAY039", quantity="?")
<i>Double1d</i>	SSWF5 (description="SPECFARRAY040", quantity="?")
<i>Double1d</i>	SSWF4 (description="SPECFARRAY041", quantity="?")
<i>Double1d</i>	SSWE6 (description="SPECFARRAY042", quantity="?")
<i>Double1d</i>	SLWR1 (description="SPECFARRAY049", quantity="?")
<i>Double1d</i>	SLWT1 (description="SPECFARRAY050", quantity="?")
<i>Double1d</i>	SLWC1 (description="SPECFARRAY051", quantity="?")
<i>Double1d</i>	SLWDP1 (description="SPECFARRAY052", quantity="?")
<i>Double1d</i>	SLWB1 (description="SPECFARRAY053", quantity="?")
<i>Double1d</i>	SLWD1 (description="SPECFARRAY054", quantity="?")
<i>Double1d</i>	SLWE1 (description="SPECFARRAY055", quantity="?")
<i>Double1d</i>	SLWA1 (description="SPECFARRAY056", quantity="?")
<i>Double1d</i>	SLWC2 (description="SPECFARRAY057", quantity="?")
<i>Double1d</i>	SLWD2 (description="SPECFARRAY058", quantity="?")
<i>Double1d</i>	SLWB2 (description="SPECFARRAY059", quantity="?")
<i>Double1d</i>	SLWE2 (description="SPECFARRAY060", quantity="?")
<i>Double1d</i>	SLWA2 (description="SPECFARRAY061", quantity="?")
<i>Double1d</i>	SLWC3 (description="SPECFARRAY062", quantity="?")
<i>Double1d</i>	SLWD3 (description="SPECFARRAY063", quantity="?")
<i>Double1d</i>	SLWB3 (description="SPECFARRAY064", quantity="?")
<i>Double1d</i>	SLWE3 (description="SPECFARRAY065", quantity="?")
<i>Double1d</i>	SLWC4 (description="SPECFARRAY066", quantity="?")
<i>Double1d</i>	SLWDP2 (description="SPECFARRAY067", quantity="?")
<i>Double1d</i>	SLWD4 (description="SPECFARRAY068", quantity="?")
<i>Double1d</i>	SLWC5 (description="SPECFARRAY069", quantity="?")
<i>Double1d</i>	SLWB4 (description="SPECFARRAY070", quantity="?")
<i>Double1d</i>	SLWA3 (description="SPECFARRAY071", quantity="?")

	<i>Double1d</i>	SLWT2 (description="SPECFARRAY072", quantity="?")
<i>table dataset</i>		(description="Mask timelines")
	<i>Metadata</i>	
	<i>Double1d</i>	sampleTime (description="SpireDataFrame time", quantity="s")
	<i>Int1d</i>	SSWR1 (description="SPECFARRAY001", quantity="")
	<i>Int1d</i>	SSWA4 (description="SPECFARRAY002", quantity="")
	<i>Int1d</i>	SSWA3 (description="SPECFARRAY003", quantity="")
	<i>Int1d</i>	SSWA2 (description="SPECFARRAY004", quantity="")
	<i>Int1d</i>	SSWA1 (description="SPECFARRAY005", quantity="")
	<i>Int1d</i>	SSWDP1 (description="SPECFARRAY006", quantity="")
	<i>Int1d</i>	SSWB3 (description="SPECFARRAY007", quantity="")
	<i>Int1d</i>	SSWB2 (description="SPECFARRAY008", quantity="")
	<i>Int1d</i>	SSWB1 (description="SPECFARRAY009", quantity="")
	<i>Int1d</i>	SSWC3 (description="SPECFARRAY010", quantity="")
	<i>Int1d</i>	SSWC2 (description="SPECFARRAY011", quantity="")
	<i>Int1d</i>	SSWC1 (description="SPECFARRAY012", quantity="")
	<i>Int1d</i>	SSWD3 (description="SPECFARRAY013", quantity="")
	<i>Int1d</i>	SSWD2 (description="SPECFARRAY014", quantity="")
	<i>Int1d</i>	SSWD1 (description="SPECFARRAY015", quantity="")
	<i>Int1d</i>	SSWE3 (description="SPECFARRAY016", quantity="")
	<i>Int1d</i>	SSWE2 (description="SPECFARRAY017", quantity="")
	<i>Int1d</i>	SSWE1 (description="SPECFARRAY018", quantity="")
	<i>Int1d</i>	SSWF3 (description="SPECFARRAY019", quantity="")
	<i>Int1d</i>	SSWF2 (description="SPECFARRAY020", quantity="")
	<i>Int1d</i>	SSWF1 (description="SPECFARRAY021", quantity="")
	<i>Int1d</i>	SSWG1 (description="SPECFARRAY022", quantity="")
	<i>Int1d</i>	SSWT1 (description="SPECFARRAY023", quantity="")
	<i>Int1d</i>	SSWG2 (description="SPECFARRAY024", quantity="")
	<i>Int1d</i>	SSWE5 (description="SPECFARRAY025", quantity="")
	<i>Int1d</i>	SSWE4 (description="SPECFARRAY026", quantity="")
	<i>Int1d</i>	SSWD7 (description="SPECFARRAY027", quantity="")
	<i>Int1d</i>	SSWD6 (description="SPECFARRAY028", quantity="")
	<i>Int1d</i>	SSWD5 (description="SPECFARRAY029", quantity="")
	<i>Int1d</i>	SSWD4 (description="SPECFARRAY030", quantity="")
	<i>Int1d</i>	SSWC6 (description="SPECFARRAY031", quantity="")
	<i>Int1d</i>	SSWC5 (description="SPECFARRAY032", quantity="")
	<i>Int1d</i>	SSWC4 (description="SPECFARRAY033", quantity="")
	<i>Int1d</i>	SSWB5 (description="SPECFARRAY034", quantity="")
	<i>Int1d</i>	SSWB4 (description="SPECFARRAY035", quantity="")
	<i>Int1d</i>	SSWT2 (description="SPECFARRAY036", quantity="")
	<i>Int1d</i>	SSWG3 (description="SPECFARRAY037", quantity="")

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<i>Int1d</i>	SSWG4 (description="SPECFARRAY038", quantity="")
<i>Int1d</i>	SSWDP2 (description="SPECFARRAY039", quantity="")
<i>Int1d</i>	SSWF5 (description="SPECFARRAY040", quantity="")
<i>Int1d</i>	SSWF4 (description="SPECFARRAY041", quantity="")
<i>Int1d</i>	SSWE6 (description="SPECFARRAY042", quantity="")
<i>Int1d</i>	SLWR1 (description="SPECFARRAY049", quantity="")
<i>Int1d</i>	SLWT1 (description="SPECFARRAY050", quantity="")
<i>Int1d</i>	SLWC1 (description="SPECFARRAY051", quantity="")
<i>Int1d</i>	SLWDP1 (description="SPECFARRAY052", quantity="")
<i>Int1d</i>	SLWB1 (description="SPECFARRAY053", quantity="")
<i>Int1d</i>	SLWD1 (description="SPECFARRAY054", quantity="")
<i>Int1d</i>	SLWE1 (description="SPECFARRAY055", quantity="")
<i>Int1d</i>	SLWA1 (description="SPECFARRAY056", quantity="")
<i>Int1d</i>	SLWC2 (description="SPECFARRAY057", quantity="")
<i>Int1d</i>	SLWD2 (description="SPECFARRAY058", quantity="")
<i>Int1d</i>	SLWB2 (description="SPECFARRAY059", quantity="")
<i>Int1d</i>	SLWE2 (description="SPECFARRAY060", quantity="")
<i>Int1d</i>	SLWA2 (description="SPECFARRAY061", quantity="")
<i>Int1d</i>	SLWC3 (description="SPECFARRAY062", quantity="")
<i>Int1d</i>	SLWD3 (description="SPECFARRAY063", quantity="")
<i>Int1d</i>	SLWB3 (description="SPECFARRAY064", quantity="")
<i>Int1d</i>	SLWE3 (description="SPECFARRAY065", quantity="")
<i>Int1d</i>	SLWC4 (description="SPECFARRAY066", quantity="")
<i>Int1d</i>	SLWDP2 (description="SPECFARRAY067", quantity="")
<i>Int1d</i>	SLWD4 (description="SPECFARRAY068", quantity="")
<i>Int1d</i>	SLWC5 (description="SPECFARRAY069", quantity="")
<i>Int1d</i>	SLWB4 (description="SPECFARRAY070", quantity="")
<i>Int1d</i>	SLWA3 (description="SPECFARRAY071", quantity="")
<i>Int1d</i>	SLWT2 (description="SPECFARRAY072", quantity="")
<i>table dataset</i>	(description="Time quantities")
<i>Metadata</i>	
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="")
<i>Long1d</i>	seqCount (description="Sequence count", quantity="")
<i>Long1d</i>	frameTime (description="SPECFFRAMETIME", quantity="")
<i>table dataset</i>	(description="Quality control metric quantities")
<i>Metadata</i>	
<i>String1d</i>	channelName (description="Channel name", quantity="")
<i>Float1d</i>	adcErrors (description="Fraction of ADC errors", quantity="")
<i>Float1d</i>	truncation (description="Fraction of out of range values", quantity="")

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11.2.3. POT: Photometer Offset Timeline

<i>product (type="POT", description="Photometer Offset Timeline")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
StringParameter	author (description="Author of the Data")
StringParameter	cusMode (description="null")
DoubleParameter	dec (description="Actual Declination of pointing")
DoubleParameter	decNominal (description="Requested Declination of pointing")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	instMode (description="null")
StringParameter	fileName (description="file name for export")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	naifId (description="SSO NAIF identifier")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
LongParameter	obsid (description="null")
StringParameter	obsMode (description="null")
LongParameter	odNumber (description="null")
StringParameter	pointingMode (description="Pointing mode")
DoubleParameter	posAngle (description="Position Angle of pointing")
StringParameter	proposal (description="Proposal name")
DoubleParameter	ra (description="Actual Right Ascension of pointing")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing")
StringParameter	telescope (description="Name of telescope")
StringParameter	subsystem (description="Instrument subsystem")
LongParameter	bbid (description="Building Block Identifier")
StringParameter	source (description="TM source packet name")
StringParameter	elecSide (description="Electronic side")
StringParameter	bbTypeName (description="Building block type name")
	<i>(description="Signal timelines")</i>

<i>table dataset</i>	
<i>Metadata</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>IntId</i>	PSWR1 (description="PHOTOFF001", quantity="")
<i>IntId</i>	PSWD16 (description="PHOTOFF002", quantity="")
<i>IntId</i>	PSWT1 (description="PHOTOFF003", quantity="")
<i>IntId</i>	PSWB16 (description="PHOTOFF004", quantity="")
<i>IntId</i>	PSWC15 (description="PHOTOFF005", quantity="")
<i>IntId</i>	PSWA15 (description="PHOTOFF006", quantity="")
<i>IntId</i>	PSWD15 (description="PHOTOFF007", quantity="")
<i>IntId</i>	PSWB15 (description="PHOTOFF008", quantity="")
<i>IntId</i>	PSWC14 (description="PHOTOFF009", quantity="")
<i>IntId</i>	PSWD14 (description="PHOTOFF010", quantity="")
<i>IntId</i>	PSWA14 (description="PHOTOFF011", quantity="")
<i>IntId</i>	PSWA13 (description="PHOTOFF012", quantity="")
<i>IntId</i>	PSWB14 (description="PHOTOFF013", quantity="")
<i>IntId</i>	PSWC13 (description="PHOTOFF014", quantity="")
<i>IntId</i>	PSWB13 (description="PHOTOFF015", quantity="")
<i>IntId</i>	PSWD13 (description="PHOTOFF016", quantity="")
<i>IntId</i>	PSWA12 (description="PHOTOFF017", quantity="")
<i>IntId</i>	PSWC12 (description="PHOTOFF018", quantity="")
<i>IntId</i>	PSWD12 (description="PHOTOFF019", quantity="")
<i>IntId</i>	PSWB12 (description="PHOTOFF020", quantity="")
<i>IntId</i>	PSWE11 (description="PHOTOFF021", quantity="")
<i>IntId</i>	PSWA11 (description="PHOTOFF022", quantity="")
<i>IntId</i>	PSWC11 (description="PHOTOFF023", quantity="")
<i>IntId</i>	PSWB11 (description="PHOTOFF024", quantity="")
<i>IntId</i>	PSWE1 (description="PHOTOFF025", quantity="")
<i>IntId</i>	PSWF1 (description="PHOTOFF026", quantity="")
<i>IntId</i>	PSWT2 (description="PHOTOFF027", quantity="")
<i>IntId</i>	PSWH1 (description="PHOTOFF028", quantity="")
<i>IntId</i>	PSWG1 (description="PHOTOFF029", quantity="")
<i>IntId</i>	PSWJ1 (description="PHOTOFF030", quantity="")
<i>IntId</i>	PSWH2 (description="PHOTOFF031", quantity="")
<i>IntId</i>	PSWF2 (description="PHOTOFF032", quantity="")
<i>IntId</i>	PSWJ2 (description="PHOTOFF033", quantity="")
<i>IntId</i>	PSWG2 (description="PHOTOFF034", quantity="")
<i>IntId</i>	PSWH3 (description="PHOTOFF035", quantity="")
<i>IntId</i>	PSWJ3 (description="PHOTOFF036", quantity="")
<i>IntId</i>	PSWE2 (description="PHOTOFF037", quantity="")
<i>IntId</i>	PSWF3 (description="PHOTOFF038", quantity="")

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<i>Int1d</i>	PSWG3 (description="PHOTOFF039", quantity="")
<i>Int1d</i>	PSWH4 (description="PHOTOFF040", quantity="")
<i>Int1d</i>	PSWJ4 (description="PHOTOFF041", quantity="")
<i>Int1d</i>	PSWE3 (description="PHOTOFF042", quantity="")
<i>Int1d</i>	PSWF4 (description="PHOTOFF043", quantity="")
<i>Int1d</i>	PSWG4 (description="PHOTOFF044", quantity="")
<i>Int1d</i>	PSWH5 (description="PHOTOFF045", quantity="")
<i>Int1d</i>	PSWE4 (description="PHOTOFF046", quantity="")
<i>Int1d</i>	PSWJ5 (description="PHOTOFF047", quantity="")
<i>Int1d</i>	PSWF5 (description="PHOTOFF048", quantity="")
<i>Int1d</i>	PSWD6 (description="PHOTOFF049", quantity="")
<i>Int1d</i>	PSWB6 (description="PHOTOFF050", quantity="")
<i>Int1d</i>	PSWC5 (description="PHOTOFF051", quantity="")
<i>Int1d</i>	PSWA5 (description="PHOTOFF052", quantity="")
<i>Int1d</i>	PSWE5 (description="PHOTOFF053", quantity="")
<i>Int1d</i>	PSWB5 (description="PHOTOFF054", quantity="")
<i>Int1d</i>	PSWD5 (description="PHOTOFF055", quantity="")
<i>Int1d</i>	PSWC4 (description="PHOTOFF056", quantity="")
<i>Int1d</i>	PSWA4 (description="PHOTOFF057", quantity="")
<i>Int1d</i>	PSWD4 (description="PHOTOFF058", quantity="")
<i>Int1d</i>	PSWB4 (description="PHOTOFF059", quantity="")
<i>Int1d</i>	PSWC3 (description="PHOTOFF060", quantity="")
<i>Int1d</i>	PSWB3 (description="PHOTOFF061", quantity="")
<i>Int1d</i>	PSWA3 (description="PHOTOFF062", quantity="")
<i>Int1d</i>	PSWA2 (description="PHOTOFF063", quantity="")
<i>Int1d</i>	PSWD3 (description="PHOTOFF064", quantity="")
<i>Int1d</i>	PSWC2 (description="PHOTOFF065", quantity="")
<i>Int1d</i>	PSWB2 (description="PHOTOFF066", quantity="")
<i>Int1d</i>	PSWD2 (description="PHOTOFF067", quantity="")
<i>Int1d</i>	PSWA1 (description="PHOTOFF068", quantity="")
<i>Int1d</i>	PSWC1 (description="PHOTOFF069", quantity="")
<i>Int1d</i>	PSWB1 (description="PHOTOFF070", quantity="")
<i>Int1d</i>	PSWDP1 (description="PHOTOFF071", quantity="")
<i>Int1d</i>	PSWD1 (description="PHOTOFF072", quantity="")
<i>Int1d</i>	PSWF12 (description="PHOTOFF073", quantity="")
<i>Int1d</i>	PSWJ11 (description="PHOTOFF074", quantity="")
<i>Int1d</i>	PSWE12 (description="PHOTOFF075", quantity="")
<i>Int1d</i>	PSWH12 (description="PHOTOFF076", quantity="")
<i>Int1d</i>	PSWG12 (description="PHOTOFF077", quantity="")
<i>Int1d</i>	PSWF13 (description="PHOTOFF078", quantity="")
<i>Int1d</i>	PSWE13 (description="PHOTOFF079", quantity="")
<i>Int1d</i>	PSWJ12 (description="PHOTOFF080", quantity="")

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<i>Int1d</i>	PSWH13 (description="PHOTOFF081", quantity="")
<i>Int1d</i>	PSWG13 (description="PHOTOFF082", quantity="")
<i>Int1d</i>	PSWF14 (description="PHOTOFF083", quantity="")
<i>Int1d</i>	PSWE14 (description="PHOTOFF084", quantity="")
<i>Int1d</i>	PSWJ13 (description="PHOTOFF085", quantity="")
<i>Int1d</i>	PSWH14 (description="PHOTOFF086", quantity="")
<i>Int1d</i>	PSWG14 (description="PHOTOFF087", quantity="")
<i>Int1d</i>	PSWJ14 (description="PHOTOFF088", quantity="")
<i>Int1d</i>	PSWF15 (description="PHOTOFF089", quantity="")
<i>Int1d</i>	PSWH15 (description="PHOTOFF090", quantity="")
<i>Int1d</i>	PSWJ15 (description="PHOTOFF091", quantity="")
<i>Int1d</i>	PSWG15 (description="PHOTOFF092", quantity="")
<i>Int1d</i>	PSWH16 (description="PHOTOFF093", quantity="")
<i>Int1d</i>	PSWDP2 (description="PHOTOFF094", quantity="")
<i>Int1d</i>	PSWF16 (description="PHOTOFF095", quantity="")
<i>Int1d</i>	PSWE15 (description="PHOTOFF096", quantity="")
<i>Int1d</i>	PSWD11 (description="PHOTOFF097", quantity="")
<i>Int1d</i>	PSWA10 (description="PHOTOFF098", quantity="")
<i>Int1d</i>	PSWE10 (description="PHOTOFF099", quantity="")
<i>Int1d</i>	PSWC10 (description="PHOTOFF100", quantity="")
<i>Int1d</i>	PSWB10 (description="PHOTOFF101", quantity="")
<i>Int1d</i>	PSWD10 (description="PHOTOFF102", quantity="")
<i>Int1d</i>	PSWA9 (description="PHOTOFF103", quantity="")
<i>Int1d</i>	PSWE9 (description="PHOTOFF104", quantity="")
<i>Int1d</i>	PSWC9 (description="PHOTOFF105", quantity="")
<i>Int1d</i>	PSWB9 (description="PHOTOFF106", quantity="")
<i>Int1d</i>	PSWD9 (description="PHOTOFF107", quantity="")
<i>Int1d</i>	PSWA8 (description="PHOTOFF108", quantity="")
<i>Int1d</i>	PSWC8 (description="PHOTOFF109", quantity="")
<i>Int1d</i>	PSWE8 (description="PHOTOFF110", quantity="")
<i>Int1d</i>	PSWD8 (description="PHOTOFF111", quantity="")
<i>Int1d</i>	PSWB8 (description="PHOTOFF112", quantity="")
<i>Int1d</i>	PSWC7 (description="PHOTOFF113", quantity="")
<i>Int1d</i>	PSWE7 (description="PHOTOFF114", quantity="")
<i>Int1d</i>	PSWA7 (description="PHOTOFF115", quantity="")
<i>Int1d</i>	PSWD7 (description="PHOTOFF116", quantity="")
<i>Int1d</i>	PSWB7 (description="PHOTOFF117", quantity="")
<i>Int1d</i>	PSWC6 (description="PHOTOFF118", quantity="")
<i>Int1d</i>	PSWE6 (description="PHOTOFF119", quantity="")
<i>Int1d</i>	PSWA6 (description="PHOTOFF120", quantity="")
<i>Int1d</i>	PSWG5 (description="PHOTOFF121", quantity="")
<i>Int1d</i>	PSWH6 (description="PHOTOFF122", quantity="")

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<i>IntId</i>	PSWJ6 (description="PHOTOFF123", quantity="")
<i>IntId</i>	PSWF6 (description="PHOTOFF124", quantity="")
<i>IntId</i>	PSWG6 (description="PHOTOFF125", quantity="")
<i>IntId</i>	PSWH7 (description="PHOTOFF126", quantity="")
<i>IntId</i>	PSWF7 (description="PHOTOFF127", quantity="")
<i>IntId</i>	PSWJ7 (description="PHOTOFF128", quantity="")
<i>IntId</i>	PSWG7 (description="PHOTOFF129", quantity="")
<i>IntId</i>	PSWH8 (description="PHOTOFF130", quantity="")
<i>IntId</i>	PSWF8 (description="PHOTOFF131", quantity="")
<i>IntId</i>	PSWG8 (description="PHOTOFF132", quantity="")
<i>IntId</i>	PSWJ8 (description="PHOTOFF133", quantity="")
<i>IntId</i>	PSWF9 (description="PHOTOFF134", quantity="")
<i>IntId</i>	PSWH9 (description="PHOTOFF135", quantity="")
<i>IntId</i>	PSWG9 (description="PHOTOFF136", quantity="")
<i>IntId</i>	PSWJ9 (description="PHOTOFF137", quantity="")
<i>IntId</i>	PSWF10 (description="PHOTOFF138", quantity="")
<i>IntId</i>	PSWH10 (description="PHOTOFF139", quantity="")
<i>IntId</i>	PSWG10 (description="PHOTOFF140", quantity="")
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<i>IntId</i>	PLWB1 (description="PHOTOFF163", quantity="")
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<i>IntId</i>	PLWDP1 (description="PHOTOFF167", quantity="")
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SPIRE Observational Products

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<i>IntId</i>	PSWF2 (description="PHOTOFF032", quantity="")
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<i>IntId</i>	PSWG2 (description="PHOTOFF034", quantity="")
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<i>IntId</i>	PLWB1 (description="PHOTOFF163", quantity="")
<i>IntId</i>	PLWA3 (description="PHOTOFF164", quantity="")

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<i>IntId</i>	PLWA4 (description="PHOTOFF165", quantity="")
<i>IntId</i>	PLWA1 (description="PHOTOFF166", quantity="")
<i>IntId</i>	PLWDP1 (description="PHOTOFF167", quantity="")
<i>IntId</i>	PLWA2 (description="PHOTOFF168", quantity="")
<i>IntId</i>	PLWE1 (description="PHOTOFF169", quantity="")
<i>IntId</i>	PLWE2 (description="PHOTOFF170", quantity="")
<i>IntId</i>	PLWE3 (description="PHOTOFF171", quantity="")
<i>IntId</i>	PLWE4 (description="PHOTOFF172", quantity="")
<i>IntId</i>	PLWD1 (description="PHOTOFF173", quantity="")
<i>IntId</i>	PLWD2 (description="PHOTOFF174", quantity="")
<i>IntId</i>	PLWD3 (description="PHOTOFF175", quantity="")
<i>IntId</i>	PLWD4 (description="PHOTOFF176", quantity="")
<i>IntId</i>	PLWC1 (description="PHOTOFF177", quantity="")
<i>IntId</i>	PLWC3 (description="PHOTOFF178", quantity="")
<i>IntId</i>	PLWC5 (description="PHOTOFF179", quantity="")
<i>IntId</i>	PLWT2 (description="PHOTOFF180", quantity="")
<i>IntId</i>	PLWE5 (description="PHOTOFF181", quantity="")
<i>IntId</i>	PLWC6 (description="PHOTOFF182", quantity="")
<i>IntId</i>	PLWC8 (description="PHOTOFF183", quantity="")
<i>IntId</i>	PLWD5 (description="PHOTOFF184", quantity="")
<i>IntId</i>	PLWD6 (description="PHOTOFF185", quantity="")
<i>IntId</i>	PLWD7 (description="PHOTOFF186", quantity="")
<i>IntId</i>	PLWD8 (description="PHOTOFF187", quantity="")
<i>IntId</i>	PLWE7 (description="PHOTOFF188", quantity="")
<i>IntId</i>	PLWE6 (description="PHOTOFF189", quantity="")
<i>IntId</i>	PLWE8 (description="PHOTOFF190", quantity="")
<i>IntId</i>	PLWDP2 (description="PHOTOFF191", quantity="")
<i>IntId</i>	PLWE9 (description="PHOTOFF192", quantity="")
<i>IntId</i>	PMWA13 (description="PHOTOFF193", quantity="")
<i>IntId</i>	PMWT1 (description="PHOTOFF194", quantity="")
<i>IntId</i>	PMWB12 (description="PHOTOFF195", quantity="")
<i>IntId</i>	PMWC13 (description="PHOTOFF196", quantity="")
<i>IntId</i>	PMWA12 (description="PHOTOFF197", quantity="")
<i>IntId</i>	PMWD12 (description="PHOTOFF198", quantity="")
<i>IntId</i>	PMWC12 (description="PHOTOFF199", quantity="")
<i>IntId</i>	PMWB11 (description="PHOTOFF200", quantity="")
<i>IntId</i>	PMWA11 (description="PHOTOFF201", quantity="")
<i>IntId</i>	PMWE13 (description="PHOTOFF202", quantity="")
<i>IntId</i>	PMWD11 (description="PHOTOFF203", quantity="")
<i>IntId</i>	PMWC11 (description="PHOTOFF204", quantity="")
<i>IntId</i>	PMWB10 (description="PHOTOFF205", quantity="")
<i>IntId</i>	PMWA10 (description="PHOTOFF206", quantity="")

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<i>Int1d</i>	PMWD10 (description="PHOTOFF207", quantity="")
<i>Int1d</i>	PMWB9 (description="PHOTOFF208", quantity="")
<i>Int1d</i>	PMWC10 (description="PHOTOFF209", quantity="")
<i>Int1d</i>	PMWC9 (description="PHOTOFF210", quantity="")
<i>Int1d</i>	PMWA9 (description="PHOTOFF211", quantity="")
<i>Int1d</i>	PMWB8 (description="PHOTOFF212", quantity="")
<i>Int1d</i>	PMWA8 (description="PHOTOFF213", quantity="")
<i>Int1d</i>	PMWD8 (description="PHOTOFF214", quantity="")
<i>Int1d</i>	PMWC8 (description="PHOTOFF215", quantity="")
<i>Int1d</i>	PMWB7 (description="PHOTOFF216", quantity="")
<i>Int1d</i>	PMWR1 (description="PHOTOFF217", quantity="")
<i>Int1d</i>	PMWG1 (description="PHOTOFF218", quantity="")
<i>Int1d</i>	PMWT2 (description="PHOTOFF219", quantity="")
<i>Int1d</i>	PMWE1 (description="PHOTOFF220", quantity="")
<i>Int1d</i>	PMWD1 (description="PHOTOFF221", quantity="")
<i>Int1d</i>	PMWF1 (description="PHOTOFF222", quantity="")
<i>Int1d</i>	PMWE2 (description="PHOTOFF223", quantity="")
<i>Int1d</i>	PMWG2 (description="PHOTOFF224", quantity="")
<i>Int1d</i>	PMWF2 (description="PHOTOFF225", quantity="")
<i>Int1d</i>	PMWG3 (description="PHOTOFF226", quantity="")
<i>Int1d</i>	PMWE3 (description="PHOTOFF227", quantity="")
<i>Int1d</i>	PMWD3 (description="PHOTOFF228", quantity="")
<i>Int1d</i>	PMWF3 (description="PHOTOFF229", quantity="")
<i>Int1d</i>	PMWG4 (description="PHOTOFF230", quantity="")
<i>Int1d</i>	PMWE4 (description="PHOTOFF231", quantity="")
<i>Int1d</i>	PMWF4 (description="PHOTOFF232", quantity="")
<i>Int1d</i>	PMWE5 (description="PHOTOFF233", quantity="")
<i>Int1d</i>	PMWD5 (description="PHOTOFF234", quantity="")
<i>Int1d</i>	PMWF5 (description="PHOTOFF235", quantity="")
<i>Int1d</i>	PMWG5 (description="PHOTOFF236", quantity="")
<i>Int1d</i>	PMWE6 (description="PHOTOFF237", quantity="")
<i>Int1d</i>	PMWG6 (description="PHOTOFF238", quantity="")
<i>Int1d</i>	PMWF6 (description="PHOTOFF239", quantity="")
<i>Int1d</i>	PMWG7 (description="PHOTOFF240", quantity="")
<i>Int1d</i>	PMWF10 (description="PHOTOFF241", quantity="")
<i>Int1d</i>	PMWE11 (description="PHOTOFF242", quantity="")
<i>Int1d</i>	PMWG11 (description="PHOTOFF243", quantity="")
<i>Int1d</i>	PMWF11 (description="PHOTOFF244", quantity="")
<i>Int1d</i>	PMWE12 (description="PHOTOFF245", quantity="")
<i>Int1d</i>	PMWG12 (description="PHOTOFF246", quantity="")
<i>Int1d</i>	PMWF12 (description="PHOTOFF247", quantity="")
<i>Int1d</i>	PMWG13 (description="PHOTOFF248", quantity="")

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<i>Int1d</i>	PMWDP2 (description="PHOTOFF249", quantity="")
<i>Int1d</i>	PMWE7 (description="PHOTOFF250", quantity="")
<i>Int1d</i>	PMWD7 (description="PHOTOFF251", quantity="")
<i>Int1d</i>	PMWF7 (description="PHOTOFF252", quantity="")
<i>Int1d</i>	PMWE8 (description="PHOTOFF253", quantity="")
<i>Int1d</i>	PMWG8 (description="PHOTOFF254", quantity="")
<i>Int1d</i>	PMWF8 (description="PHOTOFF255", quantity="")
<i>Int1d</i>	PMWE9 (description="PHOTOFF256", quantity="")
<i>Int1d</i>	PMWG9 (description="PHOTOFF257", quantity="")
<i>Int1d</i>	PMWD9 (description="PHOTOFF258", quantity="")
<i>Int1d</i>	PMWF9 (description="PHOTOFF259", quantity="")
<i>Int1d</i>	PMWE10 (description="PHOTOFF260", quantity="")
<i>Int1d</i>	PMWG10 (description="PHOTOFF261", quantity="")
<i>Int1d</i>	PMWC4 (description="PHOTOFF262", quantity="")
<i>Int1d</i>	PMWB3 (description="PHOTOFF263", quantity="")
<i>Int1d</i>	PMWC3 (description="PHOTOFF264", quantity="")
<i>Int1d</i>	PMWB2 (description="PHOTOFF265", quantity="")
<i>Int1d</i>	PMWD2 (description="PHOTOFF266", quantity="")
<i>Int1d</i>	PMWA3 (description="PHOTOFF267", quantity="")
<i>Int1d</i>	PMWA2 (description="PHOTOFF268", quantity="")
<i>Int1d</i>	PMWC2 (description="PHOTOFF269", quantity="")
<i>Int1d</i>	PMWB1 (description="PHOTOFF270", quantity="")
<i>Int1d</i>	PMWA1 (description="PHOTOFF271", quantity="")
<i>Int1d</i>	PMWDP1 (description="PHOTOFF272", quantity="")
<i>Int1d</i>	PMWC1 (description="PHOTOFF273", quantity="")
<i>Int1d</i>	PMWA7 (description="PHOTOFF274", quantity="")
<i>Int1d</i>	PMWA6 (description="PHOTOFF275", quantity="")
<i>Int1d</i>	PMWB6 (description="PHOTOFF276", quantity="")
<i>Int1d</i>	PMWC7 (description="PHOTOFF277", quantity="")
<i>Int1d</i>	PMWA5 (description="PHOTOFF278", quantity="")
<i>Int1d</i>	PMWB5 (description="PHOTOFF279", quantity="")
<i>Int1d</i>	PMWC6 (description="PHOTOFF280", quantity="")
<i>Int1d</i>	PMWD6 (description="PHOTOFF281", quantity="")
<i>Int1d</i>	PMWB4 (description="PHOTOFF282", quantity="")
<i>Int1d</i>	PMWC5 (description="PHOTOFF283", quantity="")
<i>Int1d</i>	PMWD4 (description="PHOTOFF284", quantity="")
<i>Int1d</i>	PMWA4 (description="PHOTOFF285", quantity="")
<i>Int1d</i>	PTCP1 (description="PHOTOFF286", quantity="")
<i>Int1d</i>	PTCP2 (description="PHOTOFF287", quantity="")
<i>Int1d</i>	PTCP3 (description="PHOTOFF288", quantity="")
<i>Int1d</i>	adcFlags (description="PHOTOFFADCFLGS", quantity="")
<i>composite</i>	(description="History of product")

<i>Metadata</i>	
LongParameter	id (description="Unique ID")
table dataset	(description="History as Jython script")
<i>Metadata</i>	
StringParameter	outvar (description="last output variable")
StringId	Lines (description="script lines", quantity="none")
table dataset	(description="History of tasks")
<i>Metadata</i>	
LongId	ID (description="Links the parameter and task table", quantity="none")
StringId	Name (description="The name of the task", quantity="none")
LongId	ExecDate (description="Time of execution (FINETIME)", quantity="none")
BoolId	Succeeded (description="Flag for success/failed", quantity="none")
LongId	HistoryId (description="Id of current history", quantity="none")
table dataset	(description="The parameters belonging to the task history")
<i>Metadata</i>	
LongId	TaskID (description="Links the parameter and task table", quantity="none")
StringId	Name (description="The name of the parameter", quantity="none")
StringId	Type (description="Type of parameter", quantity="none")
StringId	Value (description="String representation of the parameter value", quantity="none")
BoolId	IsDefault (description="True if the default value has been used", quantity="none")
LongId	IncHistoryId (description="ID of the history of an included product", quantity="none")
IntId	IncNumTask (description="Number of tasks to include from history", quantity="none")
LongId	HistoryId (description="Id of current history", quantity="none")
BoolId	UserInput (description="Needs user input", quantity="none")

11.2.4. SOT: Spectrometer Offset Timeline

<i>product (type="SOT", description="Spectrometer Offset Timeline")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")

StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
StringParameter	author (description="Author of the Data")
StringParameter	cusMode (description="CUS observation mode")
DoubleParameter	dec (description="Actual Declination of pointing")
DoubleParameter	decNominal (description="Requested Declination of pointing")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	instMode (description="Instrument mode")
StringParameter	fileName (description="file name for export")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	naifId (description="SSO NAIF identifier")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
LongParameter	obsid (description="Observation identifier")
StringParameter	obsMode (description="Observing mode")
LongParameter	odNumber (description="Operational day number")
StringParameter	pointingMode (description="Pointing mode")
DoubleParameter	posAngle (description="Position Angle of pointing")
StringParameter	proposal (description="Proposal name")
DoubleParameter	ra (description="Actual Right Ascension of pointing")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing")
StringParameter	telescope (description="Name of telescope")
StringParameter	subsystem (description="Instrument subsystem")
LongParameter	bbid (description="Building Block Identifier")
StringParameter	source (description="TM source packet name")
StringParameter	bbTypeName (description="Building block type name")
<i>table dataset</i>	(description="Signal timelines")
<i>Metadata</i>	
<i>DoubleId</i>	sampleTime (description="SpireDataFrame time", quantity="s")
<i>IntId</i>	SSWR1 (description="SPECOFF001", quantity="")
<i>IntId</i>	SSWA4 (description="SPECOFF002", quantity="")
<i>IntId</i>	SSWA3 (description="SPECOFF003", quantity="")
<i>IntId</i>	SSWA2 (description="SPECOFF004", quantity="")
<i>IntId</i>	SSWA1 (description="SPECOFF005", quantity="")
<i>IntId</i>	SSWDP1 (description="SPECOFF006", quantity="")
<i>IntId</i>	SSWB3 (description="SPECOFF007", quantity="")
<i>IntId</i>	SSWB2 (description="SPECOFF008", quantity="")
<i>IntId</i>	SSWB1 (description="SPECOFF009", quantity="")
<i>IntId</i>	SSWC3 (description="SPECOFF010", quantity="")
<i>IntId</i>	SSWC2 (description="SPECOFF011", quantity="")

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<i>IntId</i>	SSWC1 (description="SPECOFF012", quantity="")
<i>IntId</i>	SSWD3 (description="SPECOFF013", quantity="")
<i>IntId</i>	SSWD2 (description="SPECOFF014", quantity="")
<i>IntId</i>	SSWD1 (description="SPECOFF015", quantity="")
<i>IntId</i>	SSWE3 (description="SPECOFF016", quantity="")
<i>IntId</i>	SSWE2 (description="SPECOFF017", quantity="")
<i>IntId</i>	SSWE1 (description="SPECOFF018", quantity="")
<i>IntId</i>	SSWF3 (description="SPECOFF019", quantity="")
<i>IntId</i>	SSWF2 (description="SPECOFF020", quantity="")
<i>IntId</i>	SSWF1 (description="SPECOFF021", quantity="")
<i>IntId</i>	SSWG1 (description="SPECOFF022", quantity="")
<i>IntId</i>	SSWT1 (description="SPECOFF023", quantity="")
<i>IntId</i>	SSWG2 (description="SPECOFF024", quantity="")
<i>IntId</i>	SSWE5 (description="SPECOFF025", quantity="")
<i>IntId</i>	SSWE4 (description="SPECOFF026", quantity="")
<i>IntId</i>	SSWD7 (description="SPECOFF027", quantity="")
<i>IntId</i>	SSWD6 (description="SPECOFF028", quantity="")
<i>IntId</i>	SSWD5 (description="SPECOFF029", quantity="")
<i>IntId</i>	SSWD4 (description="SPECOFF030", quantity="")
<i>IntId</i>	SSWC6 (description="SPECOFF031", quantity="")
<i>IntId</i>	SSWC5 (description="SPECOFF032", quantity="")
<i>IntId</i>	SSWC4 (description="SPECOFF033", quantity="")
<i>IntId</i>	SSWB5 (description="SPECOFF034", quantity="")
<i>IntId</i>	SSWB4 (description="SPECOFF035", quantity="")
<i>IntId</i>	SSWT2 (description="SPECOFF036", quantity="")
<i>IntId</i>	SSWG3 (description="SPECOFF037", quantity="")
<i>IntId</i>	SSWG4 (description="SPECOFF038", quantity="")
<i>IntId</i>	SSWDP2 (description="SPECOFF039", quantity="")
<i>IntId</i>	SSWF5 (description="SPECOFF040", quantity="")
<i>IntId</i>	SSWF4 (description="SPECOFF041", quantity="")
<i>IntId</i>	SSWE6 (description="SPECOFF042", quantity="")
<i>IntId</i>	SSWN1 (description="SPECOFF043", quantity="")
<i>IntId</i>	SSWN2 (description="SPECOFF044", quantity="")
<i>IntId</i>	SSWN3 (description="SPECOFF045", quantity="")
<i>IntId</i>	SSWN4 (description="SPECOFF046", quantity="")
<i>IntId</i>	SSWN5 (description="SPECOFF047", quantity="")
<i>IntId</i>	SSWN6 (description="SPECOFF048", quantity="")
<i>IntId</i>	SLWR1 (description="SPECOFF049", quantity="")
<i>IntId</i>	SLWT1 (description="SPECOFF050", quantity="")
<i>IntId</i>	SLWC1 (description="SPECOFF051", quantity="")
<i>IntId</i>	SLWDP1 (description="SPECOFF052", quantity="")
<i>IntId</i>	SLWB1 (description="SPECOFF053", quantity="")

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<i>Int1d</i>	SLWD1 (description="SPECOFF054", quantity="")
<i>Int1d</i>	SLWE1 (description="SPECOFF055", quantity="")
<i>Int1d</i>	SLWA1 (description="SPECOFF056", quantity="")
<i>Int1d</i>	SLWC2 (description="SPECOFF057", quantity="")
<i>Int1d</i>	SLWD2 (description="SPECOFF058", quantity="")
<i>Int1d</i>	SLWB2 (description="SPECOFF059", quantity="")
<i>Int1d</i>	SLWE2 (description="SPECOFF060", quantity="")
<i>Int1d</i>	SLWA2 (description="SPECOFF061", quantity="")
<i>Int1d</i>	SLWC3 (description="SPECOFF062", quantity="")
<i>Int1d</i>	SLWD3 (description="SPECOFF063", quantity="")
<i>Int1d</i>	SLWB3 (description="SPECOFF064", quantity="")
<i>Int1d</i>	SLWE3 (description="SPECOFF065", quantity="")
<i>Int1d</i>	SLWC4 (description="SPECOFF066", quantity="")
<i>Int1d</i>	SLWDP2 (description="SPECOFF067", quantity="")
<i>Int1d</i>	SLWD4 (description="SPECOFF068", quantity="")
<i>Int1d</i>	SLWC5 (description="SPECOFF069", quantity="")
<i>Int1d</i>	SLWB4 (description="SPECOFF070", quantity="")
<i>Int1d</i>	SLWA3 (description="SPECOFF071", quantity="")
<i>Int1d</i>	SLWT2 (description="SPECOFF072", quantity="")
<i>Int1d</i>	adcFlags (description="SPECOFFADCFLGS", quantity="")
<i>table dataset</i>	(description="Mask timelines")
<i>Metadata</i>	
<i>Double1d</i>	sampleTime (description="SpireDataFrame time", quantity="s")
<i>Int1d</i>	SSWR1 (description="SPECOFF001", quantity="")
<i>Int1d</i>	SSWA4 (description="SPECOFF002", quantity="")
<i>Int1d</i>	SSWA3 (description="SPECOFF003", quantity="")
<i>Int1d</i>	SSWA2 (description="SPECOFF004", quantity="")
<i>Int1d</i>	SSWA1 (description="SPECOFF005", quantity="")
<i>Int1d</i>	SSWDP1 (description="SPECOFF006", quantity="")
<i>Int1d</i>	SSWB3 (description="SPECOFF007", quantity="")
<i>Int1d</i>	SSWB2 (description="SPECOFF008", quantity="")
<i>Int1d</i>	SSWB1 (description="SPECOFF009", quantity="")
<i>Int1d</i>	SSWC3 (description="SPECOFF010", quantity="")
<i>Int1d</i>	SSWC2 (description="SPECOFF011", quantity="")
<i>Int1d</i>	SSWC1 (description="SPECOFF012", quantity="")
<i>Int1d</i>	SSWD3 (description="SPECOFF013", quantity="")
<i>Int1d</i>	SSWD2 (description="SPECOFF014", quantity="")
<i>Int1d</i>	SSWD1 (description="SPECOFF015", quantity="")
<i>Int1d</i>	SSWE3 (description="SPECOFF016", quantity="")
<i>Int1d</i>	SSWE2 (description="SPECOFF017", quantity="")
<i>Int1d</i>	SSWE1 (description="SPECOFF018", quantity="")

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<i>Int1d</i>	SSWF3 (description="SPECOFF019", quantity="")
<i>Int1d</i>	SSWF2 (description="SPECOFF020", quantity="")
<i>Int1d</i>	SSWF1 (description="SPECOFF021", quantity="")
<i>Int1d</i>	SSWG1 (description="SPECOFF022", quantity="")
<i>Int1d</i>	SSWT1 (description="SPECOFF023", quantity="")
<i>Int1d</i>	SSWG2 (description="SPECOFF024", quantity="")
<i>Int1d</i>	SSWE5 (description="SPECOFF025", quantity="")
<i>Int1d</i>	SSWE4 (description="SPECOFF026", quantity="")
<i>Int1d</i>	SSWD7 (description="SPECOFF027", quantity="")
<i>Int1d</i>	SSWD6 (description="SPECOFF028", quantity="")
<i>Int1d</i>	SSWD5 (description="SPECOFF029", quantity="")
<i>Int1d</i>	SSWD4 (description="SPECOFF030", quantity="")
<i>Int1d</i>	SSWC6 (description="SPECOFF031", quantity="")
<i>Int1d</i>	SSWC5 (description="SPECOFF032", quantity="")
<i>Int1d</i>	SSWC4 (description="SPECOFF033", quantity="")
<i>Int1d</i>	SSWB5 (description="SPECOFF034", quantity="")
<i>Int1d</i>	SSWB4 (description="SPECOFF035", quantity="")
<i>Int1d</i>	SSWT2 (description="SPECOFF036", quantity="")
<i>Int1d</i>	SSWG3 (description="SPECOFF037", quantity="")
<i>Int1d</i>	SSWG4 (description="SPECOFF038", quantity="")
<i>Int1d</i>	SSWDP2 (description="SPECOFF039", quantity="")
<i>Int1d</i>	SSWF5 (description="SPECOFF040", quantity="")
<i>Int1d</i>	SSWF4 (description="SPECOFF041", quantity="")
<i>Int1d</i>	SSWE6 (description="SPECOFF042", quantity="")
<i>Int1d</i>	SSWN1 (description="SPECOFF043", quantity="")
<i>Int1d</i>	SSWN2 (description="SPECOFF044", quantity="")
<i>Int1d</i>	SSWN3 (description="SPECOFF045", quantity="")
<i>Int1d</i>	SSWN4 (description="SPECOFF046", quantity="")
<i>Int1d</i>	SSWN5 (description="SPECOFF047", quantity="")
<i>Int1d</i>	SSWN6 (description="SPECOFF048", quantity="")
<i>Int1d</i>	SLWR1 (description="SPECOFF049", quantity="")
<i>Int1d</i>	SLWT1 (description="SPECOFF050", quantity="")
<i>Int1d</i>	SLWC1 (description="SPECOFF051", quantity="")
<i>Int1d</i>	SLWDP1 (description="SPECOFF052", quantity="")
<i>Int1d</i>	SLWB1 (description="SPECOFF053", quantity="")
<i>Int1d</i>	SLWD1 (description="SPECOFF054", quantity="")
<i>Int1d</i>	SLWE1 (description="SPECOFF055", quantity="")
<i>Int1d</i>	SLWA1 (description="SPECOFF056", quantity="")
<i>Int1d</i>	SLWC2 (description="SPECOFF057", quantity="")
<i>Int1d</i>	SLWD2 (description="SPECOFF058", quantity="")
<i>Int1d</i>	SLWB2 (description="SPECOFF059", quantity="")
<i>Int1d</i>	SLWE2 (description="SPECOFF060", quantity="")

<i>Int1d</i>	SLWA2 (description="SPECOFF061", quantity="")
<i>Int1d</i>	SLWC3 (description="SPECOFF062", quantity="")
<i>Int1d</i>	SLWD3 (description="SPECOFF063", quantity="")
<i>Int1d</i>	SLWB3 (description="SPECOFF064", quantity="")
<i>Int1d</i>	SLWE3 (description="SPECOFF065", quantity="")
<i>Int1d</i>	SLWC4 (description="SPECOFF066", quantity="")
<i>Int1d</i>	SLWDP2 (description="SPECOFF067", quantity="")
<i>Int1d</i>	SLWD4 (description="SPECOFF068", quantity="")
<i>Int1d</i>	SLWC5 (description="SPECOFF069", quantity="")
<i>Int1d</i>	SLWB4 (description="SPECOFF070", quantity="")
<i>Int1d</i>	SLWA3 (description="SPECOFF071", quantity="")
<i>Int1d</i>	SLWT2 (description="SPECOFF072", quantity="")
<i>Int1d</i>	adcFlags (description="SPECOFFADCFLGS", quantity="")
<i>table dataset</i>	(description="Time quantities")
<i>Metadata</i>	
<i>Long1d</i>	sdfTime (description="SpireDataFrame time", quantity="")
<i>Long1d</i>	packetTime (description="TM packet time", quantity="")
<i>Long1d</i>	seqCount (description="Sequence count", quantity="")
<i>Long1d</i>	frameTime (description="SPECOFFFRAMETIME", quantity="")

11.2.5. NHKT: Nominal House Keeping Timeline

<i>product (type="NHKT", description="Nominal House Keeping Timeline")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
StringParameter	author (description="Author of the Data")
StringParameter	cusMode (description="null")
DoubleParameter	dec (description="Actual Declination of pointing")
DoubleParameter	decNominal (description="Requested Declination of pointing")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	instMode (description="null")
StringParameter	fileName (description="file name for export")

StringParameter	missionConfig (description="Mission configuration")
StringParameter	naifId (description="SSO NAIF identifier")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
LongParameter	obsid (description="null")
StringParameter	obsMode (description="null")
LongParameter	odNumber (description="null")
StringParameter	pointingMode (description="Pointing mode")
DoubleParameter	posAngle (description="Position Angle of pointing")
StringParameter	proposal (description="Proposal name")
DoubleParameter	ra (description="Actual Right Ascension of pointing")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing")
StringParameter	telescope (description="Name of telescope")
StringParameter	subsystem (description="Instrument subsystem")
LongParameter	bbid (description="Building Block Identifier")
StringParameter	source (description="TM source packet name")
StringParameter	elecSide (description="Electronic side")
StringParameter	bbTypeName (description="Building block type name")
<i>table dataset</i>	(description="Signal timelines")
<i>Metadata</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>StringId</i>	NHK_VERS (description="NHK_VERS", quantity="")
<i>StringId</i>	NHK_TYPE (description="NHK_TYPE", quantity="")
<i>StringId</i>	NHK_DFHFLAG (description="NHK_DFHFLAG", quantity="")
<i>ShortId</i>	NHK_APID (description="NHK_APID", quantity="")
<i>StringId</i>	NHK_SEGFLAG (description="NHK_SEGFLAG", quantity="")
<i>ShortId</i>	NHK_SSC (description="NHK_SSC", quantity="")
<i>IntId</i>	NHK_PKTLEN (description="NHK_PKTLEN", quantity="")
<i>StringId</i>	NHK_PUSVERS (description="NHK_PUSVERS", quantity="")
<i>ShortId</i>	NHK_PKTTYPE (description="NHK_PKTTYPE", quantity="")
<i>ShortId</i>	NHK_PKTSTYPE (description="NHK_PKTSTYPE", quantity="")
<i>LongId</i>	NHK_PKTCTIME (description="NHK_PKTCTIME", quantity="")
<i>IntId</i>	NHK_PKTFTIME (description="NHK_PKTFTIME", quantity="")
<i>StringId</i>	BBFULLTYPE (description="BBFULLTYPE", quantity="")
<i>StringId</i>	MODE (description="MODE", quantity="")
<i>IntId</i>	STEP (description="STEP", quantity="")
<i>StringId</i>	THSK (description="THSK", quantity="")
<i>LongId</i>	TRESET (description="TRESET", quantity="")
<i>IntId</i>	TCRECV (description="TCRECV", quantity="")
<i>IntId</i>	TCRECN (description="TCRECN", quantity="")

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<i>Int1d</i>	TCEXEC (description="TCEXEC", quantity="")
<i>Int1d</i>	TCEXEN (description="TCEXEN", quantity="")
<i>Int1d</i>	TM1N (description="TM1N", quantity="")
<i>Int1d</i>	TM2N (description="TM2N", quantity="")
<i>Int1d</i>	TM3N (description="TM3N", quantity="")
<i>Int1d</i>	TM4N (description="TM4N", quantity="")
<i>Int1d</i>	TM5N (description="TM5N", quantity="")
<i>Int1d</i>	DCUFRAMECNT (description="DCUFRAMECNT", quantity="")
<i>Int1d</i>	MCUFRAMECNT (description="MCUFRAMECNT", quantity="")
<i>Int1d</i>	SCUFRAMECNT (description="SCUFRAMECNT", quantity="")
<i>String1d</i>	TSYNC (description="TSYNC", quantity="")
<i>String1d</i>	TDIFF (description="TDIFF", quantity="")
<i>String1d</i>	MEMSTAT_1 (description="MEMSTAT_1", quantity="")
<i>String1d</i>	MEMSTAT_2 (description="MEMSTAT_2", quantity="")
<i>String1d</i>	MEMSTAT_3 (description="MEMSTAT_3", quantity="")
<i>String1d</i>	MONSTAT (description="MONSTAT", quantity="")
<i>String1d</i>	DCULSIFSTAT (description="DCULSIFSTAT", quantity="")
<i>String1d</i>	DCUHSIFMODE (description="DCUHSIFMODE", quantity="")
<i>String1d</i>	MCULSIFSTAT (description="MCULSIFSTAT", quantity="")
<i>String1d</i>	MCUHSIFMODE (description="MCUHSIFMODE", quantity="")
<i>String1d</i>	SCULSIFSTAT (description="SCULSIFSTAT", quantity="")
<i>String1d</i>	SCUHSIFMODE (description="SCUHSIFMODE", quantity="")
<i>Int1d</i>	BBCOUNT (description="BBCOUNT", quantity="")
<i>Int1d</i>	VMSTAT (description="VMSTAT", quantity="")
<i>Int1d</i>	VM1STAT (description="VM1STAT", quantity="")
<i>Int1d</i>	VM2STAT (description="VM2STAT", quantity="")
<i>Int1d</i>	VM3STAT (description="VM3STAT", quantity="")
<i>Int1d</i>	VMSTATAFX (description="VMSTATAFX", quantity="")
<i>Int1d</i>	SD_VALUE0 (description="SD_VALUE0", quantity="")
<i>Int1d</i>	SD_ADDRESS0 (description="SD_ADDRESS0", quantity="")
<i>Int1d</i>	SD_VALUE1 (description="SD_VALUE1", quantity="")
<i>Int1d</i>	SD_ADDRESS1 (description="SD_ADDRESS1", quantity="")
<i>Int1d</i>	SD_VALUE2 (description="SD_VALUE2", quantity="")
<i>Int1d</i>	SD_ADDRESS2 (description="SD_ADDRESS2", quantity="")
<i>Int1d</i>	SD_VALUE3 (description="SD_VALUE3", quantity="")
<i>Int1d</i>	SD_ADDRESS3 (description="SD_ADDRESS3", quantity="")
<i>Double1d</i>	DPUP5V (description="DPUP5V", quantity="V")
<i>Double1d</i>	DPUP15V (description="DPUP15V", quantity="V")
<i>Double1d</i>	DPUM15V (description="DPUM15V", quantity="V")
<i>Double1d</i>	DPUTEMP (description="DPUTEMP", quantity="K")
<i>Int1d</i>	CPULOAD (description="CPULOAD", quantity="")
<i>Long1d</i>	LSLOAD (description="LSLOAD", quantity="")

<i>DoubleId</i>	DPUP2_5V (description="DPUP2_5V", quantity="V")
<i>StringId</i>	DCUDATAMODE (description="DCUDATAMODE", quantity="")
<i>StringId</i>	DCUDATAFRMS (description="DCUDATAFRMS", quantity="")
<i>StringId</i>	DCUDATASTAT (description="DCUDATASTAT", quantity="")
<i>IntId</i>	PHOTBIASDIV (description="PHOTBIASDIV", quantity="")
<i>StringId</i>	PHOTBIASMODE (description="PHOTBIASMODE", quantity="")
<i>IntId</i>	PHOTMCLKDIV (description="PHOTMCLKDIV", quantity="")
<i>DoubleId</i>	PSWBIAS (description="PSWBIAS", quantity="V")
<i>DoubleId</i>	PMWBIAS (description="PMWBIAS", quantity="V")
<i>DoubleId</i>	PLWBIAS (description="PLWBIAS", quantity="V")
<i>DoubleId</i>	TCBIAS (description="TCBIAS", quantity="V")
<i>DoubleId</i>	PSWPHASE (description="PSWPHASE", quantity="degree [0.017453292519943295 rad]")
<i>DoubleId</i>	PMWPHASE (description="PMWPHASE", quantity="degree [0.017453292519943295 rad]")
<i>DoubleId</i>	PLWPHASE (description="PLWPHASE", quantity="degree [0.017453292519943295 rad]")
<i>DoubleId</i>	TCPHASE (description="TCPHASE", quantity="degree [0.017453292519943295 rad]")
<i>IntId</i>	PSWJFETSTAT (description="PSWJFETSTAT", quantity="")
<i>StringId</i>	PSW_VDD_JFET1 (description="PSW_VDD_JFET1", quantity="")
<i>StringId</i>	PSW_VDD_JFET2 (description="PSW_VDD_JFET2", quantity="")
<i>StringId</i>	PSW_VDD_JFET3 (description="PSW_VDD_JFET3", quantity="")
<i>StringId</i>	PSW_VDD_JFET4 (description="PSW_VDD_JFET4", quantity="")
<i>StringId</i>	PSW_VDD_JFET5 (description="PSW_VDD_JFET5", quantity="")
<i>StringId</i>	PSW_VDD_JFET6 (description="PSW_VDD_JFET6", quantity="")
<i>IntId</i>	PMLWJFETSTAT (description="PMLWJFETSTAT", quantity="")
<i>StringId</i>	PMW_VDD_JFET1 (description="PMW_VDD_JFET1", quantity="")
<i>StringId</i>	PMW_VDD_JFET2 (description="PMW_VDD_JFET2", quantity="")
<i>StringId</i>	PMW_VDD_JFET3 (description="PMW_VDD_JFET3", quantity="")
<i>StringId</i>	PMW_VDD_JFET4 (description="PMW_VDD_JFET4", quantity="")
<i>StringId</i>	PLW_VDD_JFET1 (description="PLW_VDD_JFET1", quantity="")
<i>StringId</i>	PLW_VDD_JFET2 (description="PLW_VDD_JFET2", quantity="")
<i>StringId</i>	TC_VDD_JFET (description="TC_VDD_JFET", quantity="")
<i>DoubleId</i>	PSWJFET1V (description="PSWJFET1V", quantity="V")
<i>DoubleId</i>	PSWJFET2V (description="PSWJFET2V", quantity="V")
<i>DoubleId</i>	PSWJFET3V (description="PSWJFET3V", quantity="V")
<i>DoubleId</i>	PSWJFET4V (description="PSWJFET4V", quantity="V")
<i>DoubleId</i>	PSWJFET5V (description="PSWJFET5V", quantity="V")
<i>DoubleId</i>	PSWJFET6V (description="PSWJFET6V", quantity="V")
<i>DoubleId</i>	PMWJFET1V (description="PMWJFET1V", quantity="V")
<i>DoubleId</i>	PMWJFET2V (description="PMWJFET2V", quantity="V")
<i>DoubleId</i>	PMWJFET3V (description="PMWJFET3V", quantity="V")

<i>Double1d</i>	PMWJFET4V (description="PMWJFET4V", quantity="V")
<i>Double1d</i>	PLWJFET1V (description="PLWJFET1V", quantity="V")
<i>Double1d</i>	PLWJFET2V (description="PLWJFET2V", quantity="V")
<i>Double1d</i>	PHOTHTRV (description="PHOTHTRV", quantity="V")
<i>Double1d</i>	TCJFETV (description="TCJFETV", quantity="V")
<i>Int1d</i>	SPECBIASDIV (description="SPECBIASDIV", quantity="")
<i>String1d</i>	SPECBIASMODE (description="SPECBIASMODE", quantity="")
<i>Int1d</i>	SPECMCLKDIV (description="SPECMCLKDIV", quantity="")
<i>Double1d</i>	SSWBIAS (description="SSWBIAS", quantity="V")
<i>Double1d</i>	SLWBIAS (description="SLWBIAS", quantity="V")
<i>Double1d</i>	SSWPHASE (description="SSWPHASE", quantity="degree [0.017453292519943295 rad]")
<i>Double1d</i>	SLWPHASE (description="SLWPHASE", quantity="degree [0.017453292519943295 rad]")
<i>Int1d</i>	SPECJFETSTAT (description="SPECJFETSTAT", quantity="")
<i>String1d</i>	SLW_VDD_JFET1 (description="SLW_VDD_JFET1", quantity="")
<i>String1d</i>	SSW_VDD_JFET1 (description="SSW_VDD_JFET1", quantity="")
<i>String1d</i>	SSW_VDD_JFET2 (description="SSW_VDD_JFET2", quantity="")
<i>Double1d</i>	SSWJFET1V (description="SSWJFET1V", quantity="V")
<i>Double1d</i>	SSWJFET2V (description="SSWJFET2V", quantity="V")
<i>Double1d</i>	SLWJFET1V (description="SLWJFET1V", quantity="V")
<i>Double1d</i>	SPECHTRV (description="SPECHTRV", quantity="V")
<i>Double1d</i>	TC1TEMP (description="TC1TEMP", quantity="V")
<i>Double1d</i>	TC2TEMP (description="TC2TEMP", quantity="V")
<i>Double1d</i>	TC3TEMP (description="TC3TEMP", quantity="V")
<i>Double1d</i>	BIASP5V (description="BIASP5V", quantity="V")
<i>Double1d</i>	BIASP9V (description="BIASP9V", quantity="V")
<i>Double1d</i>	BIASM9V (description="BIASM9V", quantity="V")
<i>Int1d</i>	OBSVER (description="OBSVER", quantity="")
<i>Short1d</i>	OBSVER1 (description="OBSVER1", quantity="")
<i>Short1d</i>	OBSVER2 (description="OBSVER2", quantity="")
<i>String1d</i>	OBSVER3 (description="OBSVER3", quantity="")
<i>String1d</i>	TMMODE (description="TMMODE", quantity="")
<i>Int1d</i>	FIFO_DF_FLAG (description="FIFO_DF_FLAG", quantity="")
<i>Double1d</i>	PLIAP5V (description="PLIAP5V", quantity="V")
<i>Double1d</i>	PLIAP9V (description="PLIAP9V", quantity="V")
<i>Double1d</i>	PLIAM9V (description="PLIAM9V", quantity="V")
<i>Double1d</i>	SLIAP5V (description="SLIAP5V", quantity="V")
<i>Double1d</i>	SLIAP9V (description="SLIAP9V", quantity="V")
<i>Double1d</i>	SLIAM9V (description="SLIAM9V", quantity="V")
<i>Double1d</i>	LIAP9TEMP (description="LIAP9TEMP", quantity="K")
<i>Double1d</i>	LIAP8TEMP (description="LIAP8TEMP", quantity="K")

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<i>Double1d</i>	LIAP7TEMP (description="LIAP7TEMP", quantity="K")
<i>Double1d</i>	LIAP6TEMP (description="LIAP6TEMP", quantity="K")
<i>Double1d</i>	LIAP5TEMP (description="LIAP5TEMP", quantity="K")
<i>Double1d</i>	LIAP4TEMP (description="LIAP4TEMP", quantity="K")
<i>Double1d</i>	LIAP3TEMP (description="LIAP3TEMP", quantity="K")
<i>Double1d</i>	LIAP2TEMP (description="LIAP2TEMP", quantity="K")
<i>Double1d</i>	LIAP1TEMP (description="LIAP1TEMP", quantity="K")
<i>Double1d</i>	LIAS1TEMP (description="LIAS1TEMP", quantity="K")
<i>Double1d</i>	LIAS2TEMP (description="LIAS2TEMP", quantity="K")
<i>Double1d</i>	LIAS3TEMP (description="LIAS3TEMP", quantity="K")
<i>Double1d</i>	BIASTEMP (description="BIASTEMP", quantity="K")
<i>Double1d</i>	DAQTEMP (description="DAQTEMP", quantity="K")
<i>Int1d</i>	LIASSTAT (description="LIASSTAT", quantity="")
<i>String1d</i>	LIAP1STAT (description="LIAP1STAT", quantity="")
<i>String1d</i>	LIAP2STAT (description="LIAP2STAT", quantity="")
<i>String1d</i>	LIAP3STAT (description="LIAP3STAT", quantity="")
<i>String1d</i>	LIAP4STAT (description="LIAP4STAT", quantity="")
<i>String1d</i>	LIAP5STAT (description="LIAP5STAT", quantity="")
<i>String1d</i>	LIAP6STAT (description="LIAP6STAT", quantity="")
<i>String1d</i>	LIAP7STAT (description="LIAP7STAT", quantity="")
<i>String1d</i>	LIAP8STAT (description="LIAP8STAT", quantity="")
<i>String1d</i>	LIAP9STAT (description="LIAP9STAT", quantity="")
<i>String1d</i>	LIAS1STAT (description="LIAS1STAT", quantity="")
<i>String1d</i>	LIAS2STAT (description="LIAS2STAT", quantity="")
<i>String1d</i>	LIAS3STAT (description="LIAS3STAT", quantity="")
<i>Int1d</i>	MCUIFSTAT (description="MCUIFSTAT", quantity="")
<i>Int1d</i>	MCUIFCTRL (description="MCUIFCTRL", quantity="")
<i>Int1d</i>	MCUSSDEL (description="MCUSSDEL", quantity="")
<i>Double1d</i>	MCUP5V (description="MCUP5V", quantity="V")
<i>Double1d</i>	MCUP14V (description="MCUP14V", quantity="V")
<i>Double1d</i>	MCUM14V (description="MCUM14V", quantity="V")
<i>Double1d</i>	MCUP15V (description="MCUP15V", quantity="V")
<i>Double1d</i>	MCUM15V (description="MCUM15V", quantity="V")
<i>Double1d</i>	MCUMACTEMP (description="MCUMACTEMP", quantity="K")
<i>Double1d</i>	MCUSMECTEMP (description="MCUSMECTEMP", quantity="K")
<i>Double1d</i>	MCUBSMTEMP (description="MCUBSMTEMP", quantity="K")
<i>String1d</i>	MCUERR (description="MCUERR", quantity="")
<i>Int1d</i>	MCUSCHEDCNTLSW (description="MCUSCHEDCNTLSW", quantity="")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="MCUSCHEDCNTMSW", quantity="")
<i>Int1d</i>	MCUTM10TSAMPLE (description="MCUTM10TSAMPLE", quantity="")

<i>StringId</i>	MCUFRAMESTART (description="MCUFRAMESTART", quantity="")
<i>IntId</i>	MCUTM12TSAMPLE (description="MCUTM12TSAMPLE", quantity="")
<i>IntId</i>	MCUFRAMES (description="MCUFRAMES", quantity="")
<i>IntId</i>	MCUTM14TSAMPLE (description="MCUTM14TSAMPLE", quantity="")
<i>IntId</i>	MCUTM15TSAMPLE (description="MCUTM15TSAMPLE", quantity="")
<i>StringId</i>	MCUTMSTATUS (description="MCUTMSTATUS", quantity="")
<i>StringId</i>	MCUBOOTSTAT (description="MCUBOOTSTAT", quantity="")
<i>IntId</i>	MCUDLOADCONF (description="MCUDLOADCONF", quantity="")
<i>IntId</i>	SMECLOSTCOUNT (description="SMECLOSTCOUNT", quantity="")
<i>IntId</i>	SMECENCPWR (description="SMECENCPWR", quantity="")
<i>StringId</i>	SMECLVDTPWR (description="SMECLVDTPWR", quantity="")
<i>StringId</i>	SMECLATCHSTAT (description="SMECLATCHSTAT", quantity="")
<i>StringId</i>	SMECLOOPMODE (description="SMECLOOPMODE", quantity="")
<i>DoubleId</i>	SCANSTART (description="SCANSTART", quantity="cm [0.01 m]")
<i>DoubleId</i>	SCANEND (description="SCANEND", quantity="cm [0.01 m]")
<i>IntId</i>	SCANFSPEED (description="SCANFSPEED", quantity="")
<i>IntId</i>	SCANS (description="SCANS", quantity="")
<i>StringId</i>	SCANMODE (description="SCANMODE", quantity="")
<i>IntId</i>	SMECKP (description="SMECKP", quantity="")
<i>IntId</i>	SMECKD (description="SMECKD", quantity="")
<i>IntId</i>	SMECDFILT (description="SMECDFILT", quantity="")
<i>IntId</i>	SMECKI (description="SMECKI", quantity="")
<i>IntId</i>	SMECINTLIMIT (description="SMECINTLIMIT", quantity="")
<i>IntId</i>	SMECINTTHRESH (description="SMECINTTHRESH", quantity="")
<i>IntId</i>	SMECRATELIMIT (description="SMECRATELIMIT", quantity="")
<i>IntId</i>	SMECDFILT2 (description="SMECDFILT2", quantity="")
<i>IntId</i>	SMECFFGAIN (description="SMECFFGAIN", quantity="")
<i>IntId</i>	SMECFFOFFSET (description="SMECFFOFFSET", quantity="")
<i>IntId</i>	SCANRSPEED (description="SCANRSPEED", quantity="")
<i>IntId</i>	SMECBEMFGAIN (description="SMECBEMFGAIN", quantity="")
<i>IntId</i>	SMECMOTORRES (description="SMECMOTORRES", quantity="")
<i>IntId</i>	SMECMOTORBEMF (description="SMECMOTORBEMF", quantity="")
<i>IntId</i>	SMECRATESCALE (description="SMECRATESCALE", quantity="")
<i>DoubleId</i>	SMECLVDTOFFSET (description="SMECLVDTOFFSET", quantity="cm [0.01 m]")
<i>DoubleId</i>	SMECLVDTSKALE (description="SMECLVDTSKALE", quantity="cm [0.01 m]")
<i>StringId</i>	SMECSTAT (description="SMECSTAT", quantity="")
<i>StringId</i>	SMECFLAG (description="SMECFLAG", quantity="")
<i>StringId</i>	SMECLVDTSIGN (description="SMECLVDTSIGN", quantity="")
<i>StringId</i>	SMECINIT (description="SMECINIT", quantity="")
<i>StringId</i>	SMECSCANDIR (description="SMECSCANDIR", quantity="")

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<i>ShortId</i>	SMECSCANCNT (description="SMECSCANCNT", quantity="")
<i>DoubleId</i>	SMECENCPOSN (description="SMECENCPOSN", quantity="cm [0.01 m]")
<i>IntId</i>	SMECENC SIG1 (description="SMECENC SIG1", quantity="")
<i>IntId</i>	SMECENC SIG2 (description="SMECENC SIG2", quantity="")
<i>IntId</i>	SMECENC SIG3 (description="SMECENC SIG3", quantity="")
<i>DoubleId</i>	SMECLVDTPOSN (description="SMECLVDTPOSN", quantity="cm [0.01 m]")
<i>IntId</i>	SMECLVDTAC SIG (description="SMECLVDTAC SIG", quantity="")
<i>IntId</i>	SMECLVDTDC SIG (description="SMECLVDTDC SIG", quantity="")
<i>DoubleId</i>	SMECTRAJPOSN (description="SMECTRAJPOSN", quantity="cm [0.01 m]")
<i>IntId</i>	SMECDACVAL (description="SMECDACVAL", quantity="")
<i>DoubleId</i>	SMECPOSNDELTA (description="SMECPOSNDELTA", quantity="cm [0.01 m]")
<i>DoubleId</i>	SMECENC FINEPOSN (description="SMECENC FINEPOSN", quantity="cm [0.01 m]")
<i>IntId</i>	SMECMEANSPEED (description="SMECMEANSPEED", quantity="")
<i>DoubleId</i>	SMECSCANPOSNERR (description="SMECSCANPOSNERR", quantity="cm [0.01 m]")
<i>DoubleId</i>	SMECMOTORCURR (description="SMECMOTORCURR", quantity="A")
<i>DoubleId</i>	SMECMOTORVOLT (description="SMECMOTORVOLT", quantity="V")
<i>IntId</i>	SMECENC SIG1AMP (description="SMECENC SIG1AMP", quantity="")
<i>IntId</i>	SMECENC SIG1OFF (description="SMECENC SIG1OFF", quantity="")
<i>IntId</i>	SMECENC SIG2AMP (description="SMECENC SIG2AMP", quantity="")
<i>IntId</i>	SMECENC SIG2OFF (description="SMECENC SIG2OFF", quantity="")
<i>IntId</i>	SMECENC SIG3AMP (description="SMECENC SIG3AMP", quantity="")
<i>IntId</i>	SMECENC SIG3OFF (description="SMECENC SIG3OFF", quantity="")
<i>StringId</i>	CHOPSENSPWR (description="CHOPSENSPWR", quantity="")
<i>StringId</i>	CHOPLOOPMODE (description="CHOPLOOPMODE", quantity="")
<i>IntId</i>	CHOPPOSN (description="CHOPPOSN", quantity="")
<i>IntId</i>	CHOPPOSN2 (description="CHOPPOSN2", quantity="")
<i>StringId</i>	BSMMODE (description="BSMMODE", quantity="")
<i>IntId</i>	CHOPFFOFFSET (description="CHOPFFOFFSET", quantity="")
<i>IntId</i>	CHOPKP (description="CHOPKP", quantity="")
<i>IntId</i>	CHOPKD (description="CHOPKD", quantity="")
<i>IntId</i>	CHOPKI (description="CHOPKI", quantity="")
<i>IntId</i>	CHOPINTREF (description="CHOPINTREF", quantity="")
<i>IntId</i>	CHOPINTLIMIT (description="CHOPINTLIMIT", quantity="")
<i>IntId</i>	CHOPFFGAIN (description="CHOPFFGAIN", quantity="")
<i>IntId</i>	CHOPFFGAINDIFF (description="CHOPFFGAINDIFF", quantity="")
<i>IntId</i>	CHOPDIFFTC1 (description="CHOPDIFFTC1", quantity="")
<i>IntId</i>	CHOPDIFFTC2 (description="CHOPDIFFTC2", quantity="")

<i>Int1d</i>	CHOPRATELIMIT (description="CHOPRATELIMIT", quantity="")
<i>Int1d</i>	CHOPMOTBEMFGAIN (description="CHOPMOTBEMFGAIN", quantity="")
<i>Int1d</i>	CHOPMOTRES (description="CHOPMOTRES", quantity="")
<i>Int1d</i>	CHOPMOTIND (description="CHOPMOTIND", quantity="")
<i>Int1d</i>	CHOPRATESCALE (description="CHOPRATESCALE", quantity="")
<i>Int1d</i>	CHOPPOSNSCALE (description="CHOPPOSNSCALE", quantity="")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="CHOPBEMFRATFIL1", quantity="")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="CHOPBEMFRATFIL2", quantity="")
<i>Int1d</i>	CHOPJIGGCUPLE (description="CHOPJIGGCUPLE", quantity="")
<i>String1d</i>	BSMSTAT (description="BSMSTAT", quantity="")
<i>Int1d</i>	CHOPPOSNERR (description="CHOPPOSNERR", quantity="")
<i>Int1d</i>	CHOPSENSSIG (description="CHOPSENSSIG", quantity="")
<i>Double1d</i>	CHOPDACVAL (description="CHOPDACVAL", quantity="V")
<i>Double1d</i>	CHOPMOTORCURR (description="CHOPMOTORCURR", quantity="A")
<i>Double1d</i>	CHOPMOTORVOLT (description="CHOPMOTORVOLT", quantity="V")
<i>String1d</i>	JIGGSENSPWR (description="JIGGSENSPWR", quantity="")
<i>String1d</i>	JIGGLOOPMODE (description="JIGGLOOPMODE", quantity="")
<i>Int1d</i>	JIGGPOSN (description="JIGGPOSN", quantity="")
<i>Int1d</i>	JIGGPOSN2 (description="JIGGPOSN2", quantity="")
<i>Int1d</i>	JIGGFFOFFSET (description="JIGGFFOFFSET", quantity="")
<i>Int1d</i>	JIGGKP (description="JIGGKP", quantity="")
<i>Int1d</i>	JIGGKD (description="JIGGKD", quantity="")
<i>Int1d</i>	JIGGKI (description="JIGGKI", quantity="")
<i>Int1d</i>	JIGGINTREF (description="JIGGINTREF", quantity="")
<i>Int1d</i>	JIGGINTLIMIT (description="JIGGINTLIMIT", quantity="")
<i>Int1d</i>	JIGGFFGAIN (description="JIGGFFGAIN", quantity="")
<i>Int1d</i>	JIGGFFGAINDIFF (description="JIGGFFGAINDIFF", quantity="")
<i>Int1d</i>	JIGGDIFFTC1 (description="JIGGDIFFTC1", quantity="")
<i>Int1d</i>	JIGGDIFFTC2 (description="JIGGDIFFTC2", quantity="")
<i>Int1d</i>	JIGGRATELIMIT (description="JIGGRATELIMIT", quantity="")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="JIGGMOTBEMFGAIN", quantity="")
<i>Int1d</i>	JIGGMOTRES (description="JIGGMOTRES", quantity="")
<i>Int1d</i>	JIGGMOTIND (description="JIGGMOTIND", quantity="")
<i>Int1d</i>	JIGGRATESCALE (description="JIGGRATESCALE", quantity="")
<i>Int1d</i>	JIGGPOSNSCALE (description="JIGGPOSNSCALE", quantity="")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="JIGGBEMFRATFIL1", quantity="")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="JIGGBEMFRATFIL2", quantity="")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="JIGGCHOPCOUPLE", quantity="")
<i>Int1d</i>	JIGGPOSNERR (description="JIGGPOSNERR", quantity="")
<i>Int1d</i>	JIGGSENSSIG (description="JIGGSENSSIG", quantity="")

<i>DoubleId</i>	JIGGDACVAL (description="JIGGDACVAL", quantity="V")
<i>DoubleId</i>	JIGGMOTORCURR (description="JIGGMOTORCURR", quantity="A")
<i>DoubleId</i>	JIGGMOTORVOLT (description="JIGGMOTORVOLT", quantity="V")
<i>IntId</i>	MCUPCKT10PARM05 (description="MCUPCKT10PARM05", quantity="")
<i>IntId</i>	MCUPCKT10PARM01 (description="MCUPCKT10PARM01", quantity="")
<i>IntId</i>	MCUPCKT10PARM02 (description="MCUPCKT10PARM02", quantity="")
<i>IntId</i>	MCUPCKT10PARM03 (description="MCUPCKT10PARM03", quantity="")
<i>IntId</i>	MCUPCKT10PARM04 (description="MCUPCKT10PARM04", quantity="")
<i>IntId</i>	MCUPCKT12PARM01 (description="MCUPCKT12PARM01", quantity="")
<i>IntId</i>	MCUPCKT12PARM02 (description="MCUPCKT12PARM02", quantity="")
<i>IntId</i>	MCUPCKT12PARM03 (description="MCUPCKT12PARM03", quantity="")
<i>IntId</i>	MCUPCKT12PARM04 (description="MCUPCKT12PARM04", quantity="")
<i>IntId</i>	MCUPCKT12PARM05 (description="MCUPCKT12PARM05", quantity="")
<i>IntId</i>	MCUPCKT12PARM06 (description="MCUPCKT12PARM06", quantity="")
<i>IntId</i>	MCUPCKT14PARM01 (description="MCUPCKT14PARM01", quantity="")
<i>IntId</i>	MCUPCKT14PARM02 (description="MCUPCKT14PARM02", quantity="")
<i>IntId</i>	MCUPCKT14PARM03 (description="MCUPCKT14PARM03", quantity="")
<i>IntId</i>	MCUPCKT14PARM04 (description="MCUPCKT14PARM04", quantity="")
<i>IntId</i>	MCUPCKT14PARM05 (description="MCUPCKT14PARM05", quantity="")
<i>IntId</i>	MCUPCKT14PARM06 (description="MCUPCKT14PARM06", quantity="")
<i>IntId</i>	MCUPCKT14PARM07 (description="MCUPCKT14PARM07", quantity="")
<i>IntId</i>	MCUPCKT14PARM08 (description="MCUPCKT14PARM08", quantity="")
<i>IntId</i>	MCUPCKT14PARM09 (description="MCUPCKT14PARM09", quantity="")
<i>IntId</i>	MCUPCKT14PARM10 (description="MCUPCKT14PARM10", quantity="")
<i>IntId</i>	MCUPCKT14PARM11 (description="MCUPCKT14PARM11", quantity="")

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<i>Int1d</i>	MCUPCKT14PARM12 (description="MCUPCKT14PARM12", quantity="")
<i>Int1d</i>	MCUPCKT14PARM13 (description="MCUPCKT14PARM13", quantity="")
<i>Int1d</i>	MCUPCKT14PARM14 (description="MCUPCKT14PARM14", quantity="")
<i>Int1d</i>	SCUIFSTAT (description="SCUIFSTAT", quantity="")
<i>Int1d</i>	SCUIFCTRL (description="SCUIFCTRL", quantity="")
<i>Int1d</i>	SCUSSDEL (description="SCUSSDEL", quantity="")
<i>Int1d</i>	SCUSTAT (description="SCUSTAT", quantity="")
<i>Int1d</i>	SCUTEMPSTAT (description="SCUTEMPSTAT", quantity="")
<i>Int1d</i>	SCUDCDCSTAT (description="SCUDCDCSTAT", quantity="")
<i>String1d</i>	PLIABITSTAT (description="PLIABITSTAT", quantity="")
<i>String1d</i>	SLIABITSTAT (description="SLIABITSTAT", quantity="")
<i>String1d</i>	MCUBITSTAT (description="MCUBITSTAT", quantity="")
<i>Double1d</i>	SCUP5V (description="SCUP5V", quantity="V")
<i>Double1d</i>	SCUP9V (description="SCUP9V", quantity="V")
<i>Double1d</i>	SCUM9V (description="SCUM9V", quantity="V")
<i>Double1d</i>	EVHSV (description="EVHSV", quantity="V")
<i>Double1d</i>	SPHSV (description="SPHSV", quantity="V")
<i>Double1d</i>	TCHTRV (description="TCHTRV", quantity="V")
<i>Double1d</i>	SPHTRV (description="SPHTRV", quantity="V")
<i>Double1d</i>	CCUTEMP (description="CCUTEMP", quantity="K")
<i>Double1d</i>	TCUTEMP (description="TCUTEMP", quantity="K")
<i>Double1d</i>	PSUTEMP1 (description="PSUTEMP1", quantity="K")
<i>Int1d</i>	SCUFRAMECONF (description="SCUFRAMECONF", quantity="")
<i>Int1d</i>	SCUFRAMES (description="SCUFRAMES", quantity="")
<i>Int1d</i>	SCUFRAMESTAT (description="SCUFRAMESTAT", quantity="")
<i>Int1d</i>	SCUCTRL (description="SCUCTRL", quantity="")
<i>Double1d</i>	PCALV (description="PCALV", quantity="V")
<i>Double1d</i>	SCAL2V (description="SCAL2V", quantity="V")
<i>Double1d</i>	SCAL4V (description="SCAL4V", quantity="V")
<i>Double1d</i>	SCUCHT2_5V (description="SCUCHT2_5V", quantity="V")
<i>Double1d</i>	SCUCHTREF (description="SCUCHTREF", quantity="V")
<i>Double1d</i>	SCUCHTGND (description="SCUCHTGND", quantity="V")
<i>Double1d</i>	PCALCURR (description="PCALCURR", quantity="A")
<i>Double1d</i>	SCAL2CURR (description="SCAL2CURR", quantity="A")
<i>Double1d</i>	SCAL4CURR (description="SCAL4CURR", quantity="A")
<i>Double1d</i>	PSUTEMP2 (description="PSUTEMP2", quantity="K")
<i>String1d</i>	SUBKSTAT (description="SUBKSTAT", quantity="")
<i>Double1d</i>	PUMPHTRTEMP (description="PUMPHTRTEMP", quantity="K")
<i>Double1d</i>	PUMPHSTEMP (description="PUMPHSTEMP", quantity="K")
<i>Double1d</i>	EVAPHSTEMP (description="EVAPHSTEMP", quantity="K")

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<i>Double1d</i>	SHUNTTEMP (description="SHUNTTEMP", quantity="K")
<i>Double1d</i>	EMCFILTEMP (description="EMCFILTEMP", quantity="K")
<i>Double1d</i>	SL0TEMP (description="SL0TEMP", quantity="K")
<i>Double1d</i>	PL0TEMP (description="PL0TEMP", quantity="K")
<i>Double1d</i>	OPTTEMP (description="OPTTEMP", quantity="K")
<i>Double1d</i>	BAFTEMP (description="BAFTEMP", quantity="K")
<i>Double1d</i>	BSMIFTEMP (description="BSMIFTEMP", quantity="K")
<i>Double1d</i>	SCAL2TEMP (description="SCAL2TEMP", quantity="K")
<i>Double1d</i>	SCAL4TEMP (description="SCAL4TEMP", quantity="K")
<i>Double1d</i>	SCALTEMP (description="SCALTEMP", quantity="K")
<i>Double1d</i>	SMECIFTEMP (description="SMECIFTEMP", quantity="K")
<i>Double1d</i>	SMECTEMP (description="SMECTEMP", quantity="K")
<i>Double1d</i>	BSMTEMP (description="BSMTEMP", quantity="K")
<i>Double1d</i>	SUBKTEMP (description="SUBKTEMP", quantity="K")
<i>Double1d</i>	SCUTHTREF (description="SCUTHTREF", quantity="V")
<i>Double1d</i>	SCUTHTGND (description="SCUTHTGND", quantity="V")
<i>Int1d</i>	LOSTTCBLOCK (description="LOSTTCBLOCK", quantity="")
<i>Int1d</i>	LOSTEVBLOCK (description="LOSTEVBLOCK", quantity="")
<i>Int1d</i>	LOSTHKBLOCK (description="LOSTHKBLOCK", quantity="")
<i>Int1d</i>	LOSTSDBLOCK (description="LOSTSDBLOCK", quantity="")
<i>Int1d</i>	LOSTNTBLOCK (description="LOSTNTBLOCK", quantity="")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="LS_HP_FIFOSTAT", quantity="")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="LS_LP_FIFOSTAT", quantity="")
<i>String1d</i>	MCUPCKT10STAT (description="MCUPCKT10STAT", quantity="")
<i>String1d</i>	MCUPCKT12STAT (description="MCUPCKT12STAT", quantity="")
<i>String1d</i>	MCUPCKT14STAT (description="MCUPCKT14STAT", quantity="")
<i>String1d</i>	MCUPCKT15STAT (description="MCUPCKT15STAT", quantity="")
<i>String1d</i>	MCURAMINTEGRITY (description="MCURAMINTEGRITY", quantity="")
<i>String1d</i>	MCURAMTSTPROG (description="MCURAMTSTPROG", quantity="")
<i>String1d</i>	MCURAMTSTDATA (description="MCURAMTSTDATA", quantity="")
<i>String1d</i>	MCUPROM2RAMCOPY (description="MCUPROM2RAMCOPY", quantity="")
<i>String1d</i>	MCUBOOTMODE (description="MCUBOOTMODE", quantity="")
<i>Int1d</i>	SMECSELECTTAB (description="SMECSELECTTAB", quantity="")
<i>Int1d</i>	CREC_STEP (description="CREC_STEP", quantity="")
<i>Int1d</i>	PTC_STAGE (description="PTC_STAGE", quantity="")
<i>Int1d</i>	SCAL_STAGE (description="SCAL_STAGE", quantity="")
<i>Int1d</i>	JIGGLE_STEP (description="JIGGLE_STEP", quantity="")
<i>Int1d</i>	LOSTRPBLOCK (description="LOSTRPBLOCK", quantity="")
<i>Int1d</i>	LIAFAILCOUNT (description="LIAFAILCOUNT", quantity="")
<i>Int1d</i>	SCANRES (description="SCANRES", quantity="")

<i>IntId</i>	TABLE7_07_LWORD (description="TABLE7_07_LWORD", quantity="")
<i>IntId</i>	TABLE7_08_LWORD (description="TABLE7_08_LWORD", quantity="")
<i>IntId</i>	TABLE7_09_LWORD (description="TABLE7_09_LWORD", quantity="")
<i>LongId</i>	TABLE7_10 (description="TABLE7_10", quantity="")
<i>LongId</i>	TABLE7_11 (description="TABLE7_11", quantity="")
<i>LongId</i>	TABLE7_12 (description="TABLE7_12", quantity="")
<i>IntId</i>	HK_00 (description="HK_00", quantity="")
<i>IntId</i>	HK_01 (description="HK_01", quantity="")
<i>IntId</i>	HK_02 (description="HK_02", quantity="")
<i>IntId</i>	HK_03 (description="HK_03", quantity="")
<i>IntId</i>	HK_04 (description="HK_04", quantity="")
<i>IntId</i>	HK_05 (description="HK_05", quantity="")
<i>IntId</i>	HK_06 (description="HK_06", quantity="")
<i>IntId</i>	HK_07 (description="HK_07", quantity="")
<i>IntId</i>	HK_08 (description="HK_08", quantity="")
<i>IntId</i>	HK_09 (description="HK_09", quantity="")
<i>IntId</i>	HK_10 (description="HK_10", quantity="")
<i>IntId</i>	HK_11 (description="HK_11", quantity="")
<i>IntId</i>	HK_12 (description="HK_12", quantity="")
<i>IntId</i>	HK_13 (description="HK_13", quantity="")
<i>IntId</i>	HK_14 (description="HK_14", quantity="")
<i>IntId</i>	HK_15 (description="HK_15", quantity="")
<i>IntId</i>	HK_16 (description="HK_16", quantity="")
<i>IntId</i>	HK_17 (description="HK_17", quantity="")
<i>IntId</i>	HK_18 (description="HK_18", quantity="")
<i>IntId</i>	HK_19 (description="HK_19", quantity="")
<i>IntId</i>	HK_20 (description="HK_20", quantity="")
<i>IntId</i>	HK_21 (description="HK_21", quantity="")
<i>IntId</i>	HK_22 (description="HK_22", quantity="")
<i>IntId</i>	HK_23 (description="HK_23", quantity="")
<i>IntId</i>	seqCount (description="Sequence count", quantity="")
<i>table dataset</i>	(description="Mask timelines")
<i>Metadata</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>IntId</i>	NHK_VERS (description="NHK_VERS", quantity="")
<i>IntId</i>	NHK_TYPE (description="NHK_TYPE", quantity="")
<i>IntId</i>	NHK_DFHFLAG (description="NHK_DFHFLAG", quantity="")
<i>IntId</i>	NHK_APID (description="NHK_APID", quantity="")
<i>IntId</i>	NHK_SEGFLAG (description="NHK_SEGFLAG", quantity="")
<i>IntId</i>	NHK_SSC (description="NHK_SSC", quantity="")
<i>IntId</i>	NHK_PKTLEN (description="NHK_PKTLEN", quantity="")

<i>Int1d</i>	NHK_PUSVERS (description="NHK_PUSVERS", quantity="")
<i>Int1d</i>	NHK_PKTTYPE (description="NHK_PKTTYPE", quantity="")
<i>Int1d</i>	NHK_PKTSTYPE (description="NHK_PKTSTYPE", quantity="")
<i>Int1d</i>	NHK_PKTCTIME (description="NHK_PKTCTIME", quantity="")
<i>Int1d</i>	NHK_PKTFTIME (description="NHK_PKTFTIME", quantity="")
<i>Int1d</i>	BBFULLTYPE (description="BBFULLTYPE", quantity="")
<i>Int1d</i>	MODE (description="MODE", quantity="")
<i>Int1d</i>	STEP (description="STEP", quantity="")
<i>Int1d</i>	THSK (description="THSK", quantity="")
<i>Int1d</i>	TRESET (description="TRESET", quantity="")
<i>Int1d</i>	TCRECV (description="TCRECV", quantity="")
<i>Int1d</i>	TCRECN (description="TCRECN", quantity="")
<i>Int1d</i>	TCEXEC (description="TCEXEC", quantity="")
<i>Int1d</i>	TCEXEN (description="TCEXEN", quantity="")
<i>Int1d</i>	TM1N (description="TM1N", quantity="")
<i>Int1d</i>	TM2N (description="TM2N", quantity="")
<i>Int1d</i>	TM3N (description="TM3N", quantity="")
<i>Int1d</i>	TM4N (description="TM4N", quantity="")
<i>Int1d</i>	TM5N (description="TM5N", quantity="")
<i>Int1d</i>	DCUFRAMECNT (description="DCUFRAMECNT", quantity="")
<i>Int1d</i>	MCUFRAMECNT (description="MCUFRAMECNT", quantity="")
<i>Int1d</i>	SCUFRAMECNT (description="SCUFRAMECNT", quantity="")
<i>Int1d</i>	TSYNC (description="TSYNC", quantity="")
<i>Int1d</i>	TDIFF (description="TDIFF", quantity="")
<i>Int1d</i>	MEMSTAT_1 (description="MEMSTAT_1", quantity="")
<i>Int1d</i>	MEMSTAT_2 (description="MEMSTAT_2", quantity="")
<i>Int1d</i>	MEMSTAT_3 (description="MEMSTAT_3", quantity="")
<i>Int1d</i>	MONSTAT (description="MONSTAT", quantity="")
<i>Int1d</i>	DCULSIFSTAT (description="DCULSIFSTAT", quantity="")
<i>Int1d</i>	DCUHSIFMODE (description="DCUHSIFMODE", quantity="")
<i>Int1d</i>	MCULSIFSTAT (description="MCULSIFSTAT", quantity="")
<i>Int1d</i>	MCUHSIFMODE (description="MCUHSIFMODE", quantity="")
<i>Int1d</i>	SCULSIFSTAT (description="SCULSIFSTAT", quantity="")
<i>Int1d</i>	SCUHSIFMODE (description="SCUHSIFMODE", quantity="")
<i>Int1d</i>	BBCOUNT (description="BBCOUNT", quantity="")
<i>Int1d</i>	VMSTAT (description="VMSTAT", quantity="")
<i>Int1d</i>	VM1STAT (description="VM1STAT", quantity="")
<i>Int1d</i>	VM2STAT (description="VM2STAT", quantity="")
<i>Int1d</i>	VM3STAT (description="VM3STAT", quantity="")
<i>Int1d</i>	VMSTATAFX (description="VMSTATAFX", quantity="")
<i>Int1d</i>	SD_VALUE0 (description="SD_VALUE0", quantity="")
<i>Int1d</i>	SD_ADDRESS0 (description="SD_ADDRESS0", quantity="")

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<i>Int1d</i>	SD_VALUE1 (description="SD_VALUE1", quantity="")
<i>Int1d</i>	SD_ADDRESS1 (description="SD_ADDRESS1", quantity="")
<i>Int1d</i>	SD_VALUE2 (description="SD_VALUE2", quantity="")
<i>Int1d</i>	SD_ADDRESS2 (description="SD_ADDRESS2", quantity="")
<i>Int1d</i>	SD_VALUE3 (description="SD_VALUE3", quantity="")
<i>Int1d</i>	SD_ADDRESS3 (description="SD_ADDRESS3", quantity="")
<i>Int1d</i>	DPUP5V (description="DPUP5V", quantity="")
<i>Int1d</i>	DPUP15V (description="DPUP15V", quantity="")
<i>Int1d</i>	DPUM15V (description="DPUM15V", quantity="")
<i>Int1d</i>	DPUTEMP (description="DPUTEMP", quantity="")
<i>Int1d</i>	CPULOAD (description="CPULOAD", quantity="")
<i>Int1d</i>	LSLOAD (description="LSLOAD", quantity="")
<i>Int1d</i>	DPUP2_5V (description="DPUP2_5V", quantity="")
<i>Int1d</i>	DCUDATAMODE (description="DCUDATAMODE", quantity="")
<i>Int1d</i>	DCUDATAFRMS (description="DCUDATAFRMS", quantity="")
<i>Int1d</i>	DCUDATASTAT (description="DCUDATASTAT", quantity="")
<i>Int1d</i>	PHOTBIASDIV (description="PHOTBIASDIV", quantity="")
<i>Int1d</i>	PHOTBIASMODE (description="PHOTBIASMODE", quantity="")
<i>Int1d</i>	PHOTMCLKDIV (description="PHOTMCLKDIV", quantity="")
<i>Int1d</i>	PSWBIAS (description="PSWBIAS", quantity="")
<i>Int1d</i>	PMWBIAS (description="PMWBIAS", quantity="")
<i>Int1d</i>	PLWBIAS (description="PLWBIAS", quantity="")
<i>Int1d</i>	TCBIAS (description="TCBIAS", quantity="")
<i>Int1d</i>	PSWPHASE (description="PSWPHASE", quantity="")
<i>Int1d</i>	PMWPHASE (description="PMWPHASE", quantity="")
<i>Int1d</i>	PLWPHASE (description="PLWPHASE", quantity="")
<i>Int1d</i>	TCPHASE (description="TCPHASE", quantity="")
<i>Int1d</i>	PSWJFETSTAT (description="PSWJFETSTAT", quantity="")
<i>Int1d</i>	PSW_VDD_JFET1 (description="PSW_VDD_JFET1", quantity="")
<i>Int1d</i>	PSW_VDD_JFET2 (description="PSW_VDD_JFET2", quantity="")
<i>Int1d</i>	PSW_VDD_JFET3 (description="PSW_VDD_JFET3", quantity="")
<i>Int1d</i>	PSW_VDD_JFET4 (description="PSW_VDD_JFET4", quantity="")
<i>Int1d</i>	PSW_VDD_JFET5 (description="PSW_VDD_JFET5", quantity="")
<i>Int1d</i>	PSW_VDD_JFET6 (description="PSW_VDD_JFET6", quantity="")
<i>Int1d</i>	PMLWJFETSTAT (description="PMLWJFETSTAT", quantity="")
<i>Int1d</i>	PMW_VDD_JFET1 (description="PMW_VDD_JFET1", quantity="")
<i>Int1d</i>	PMW_VDD_JFET2 (description="PMW_VDD_JFET2", quantity="")
<i>Int1d</i>	PMW_VDD_JFET3 (description="PMW_VDD_JFET3", quantity="")
<i>Int1d</i>	PMW_VDD_JFET4 (description="PMW_VDD_JFET4", quantity="")
<i>Int1d</i>	PLW_VDD_JFET1 (description="PLW_VDD_JFET1", quantity="")
<i>Int1d</i>	PLW_VDD_JFET2 (description="PLW_VDD_JFET2", quantity="")
<i>Int1d</i>	TC_VDD_JFET (description="TC_VDD_JFET", quantity="")

<i>Int1d</i>	PSWJFET1V (description="PSWJFET1V", quantity="")
<i>Int1d</i>	PSWJFET2V (description="PSWJFET2V", quantity="")
<i>Int1d</i>	PSWJFET3V (description="PSWJFET3V", quantity="")
<i>Int1d</i>	PSWJFET4V (description="PSWJFET4V", quantity="")
<i>Int1d</i>	PSWJFET5V (description="PSWJFET5V", quantity="")
<i>Int1d</i>	PSWJFET6V (description="PSWJFET6V", quantity="")
<i>Int1d</i>	PMWJFET1V (description="PMWJFET1V", quantity="")
<i>Int1d</i>	PMWJFET2V (description="PMWJFET2V", quantity="")
<i>Int1d</i>	PMWJFET3V (description="PMWJFET3V", quantity="")
<i>Int1d</i>	PMWJFET4V (description="PMWJFET4V", quantity="")
<i>Int1d</i>	PLWJFET1V (description="PLWJFET1V", quantity="")
<i>Int1d</i>	PLWJFET2V (description="PLWJFET2V", quantity="")
<i>Int1d</i>	PHOTHTRV (description="PHOTHTRV", quantity="")
<i>Int1d</i>	TCJFETV (description="TCJFETV", quantity="")
<i>Int1d</i>	SPECBIASDIV (description="SPECBIASDIV", quantity="")
<i>Int1d</i>	SPECBIASMODE (description="SPECBIASMODE", quantity="")
<i>Int1d</i>	SPECMCLKDIV (description="SPECMCLKDIV", quantity="")
<i>Int1d</i>	SSWBIAS (description="SSWBIAS", quantity="")
<i>Int1d</i>	SLWBIAS (description="SLWBIAS", quantity="")
<i>Int1d</i>	SSWPHASE (description="SSWPHASE", quantity="")
<i>Int1d</i>	SLWPHASE (description="SLWPHASE", quantity="")
<i>Int1d</i>	SPECJFETSTAT (description="SPECJFETSTAT", quantity="")
<i>Int1d</i>	SLW_VDD_JFET1 (description="SLW_VDD_JFET1", quantity="")
<i>Int1d</i>	SSW_VDD_JFET1 (description="SSW_VDD_JFET1", quantity="")
<i>Int1d</i>	SSW_VDD_JFET2 (description="SSW_VDD_JFET2", quantity="")
<i>Int1d</i>	SSWJFET1V (description="SSWJFET1V", quantity="")
<i>Int1d</i>	SSWJFET2V (description="SSWJFET2V", quantity="")
<i>Int1d</i>	SLWJFET1V (description="SLWJFET1V", quantity="")
<i>Int1d</i>	SPECHTRV (description="SPECHTRV", quantity="")
<i>Int1d</i>	TC1TEMP (description="TC1TEMP", quantity="")
<i>Int1d</i>	TC2TEMP (description="TC2TEMP", quantity="")
<i>Int1d</i>	TC3TEMP (description="TC3TEMP", quantity="")
<i>Int1d</i>	BIASP5V (description="BIASP5V", quantity="")
<i>Int1d</i>	BIASP9V (description="BIASP9V", quantity="")
<i>Int1d</i>	BIASM9V (description="BIASM9V", quantity="")
<i>Int1d</i>	OBSVER (description="OBSVER", quantity="")
<i>Int1d</i>	OBSVER1 (description="OBSVER1", quantity="")
<i>Int1d</i>	OBSVER2 (description="OBSVER2", quantity="")
<i>Int1d</i>	OBSVER3 (description="OBSVER3", quantity="")
<i>Int1d</i>	TMMODE (description="TMMODE", quantity="")
<i>Int1d</i>	FIFO_DF_FLAG (description="FIFO_DF_FLAG", quantity="")
<i>Int1d</i>	PLIAP5V (description="PLIAP5V", quantity="")

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<i>Int1d</i>	PLIAP9V (description="PLIAP9V", quantity="")
<i>Int1d</i>	PLIAM9V (description="PLIAM9V", quantity="")
<i>Int1d</i>	SLIAP5V (description="SLIAP5V", quantity="")
<i>Int1d</i>	SLIAP9V (description="SLIAP9V", quantity="")
<i>Int1d</i>	SLIAM9V (description="SLIAM9V", quantity="")
<i>Int1d</i>	LIAP9TEMP (description="LIAP9TEMP", quantity="")
<i>Int1d</i>	LIAP8TEMP (description="LIAP8TEMP", quantity="")
<i>Int1d</i>	LIAP7TEMP (description="LIAP7TEMP", quantity="")
<i>Int1d</i>	LIAP6TEMP (description="LIAP6TEMP", quantity="")
<i>Int1d</i>	LIAP5TEMP (description="LIAP5TEMP", quantity="")
<i>Int1d</i>	LIAP4TEMP (description="LIAP4TEMP", quantity="")
<i>Int1d</i>	LIAP3TEMP (description="LIAP3TEMP", quantity="")
<i>Int1d</i>	LIAP2TEMP (description="LIAP2TEMP", quantity="")
<i>Int1d</i>	LIAP1TEMP (description="LIAP1TEMP", quantity="")
<i>Int1d</i>	LIAS1TEMP (description="LIAS1TEMP", quantity="")
<i>Int1d</i>	LIAS2TEMP (description="LIAS2TEMP", quantity="")
<i>Int1d</i>	LIAS3TEMP (description="LIAS3TEMP", quantity="")
<i>Int1d</i>	BIASTEMP (description="BIASTEMP", quantity="")
<i>Int1d</i>	DAQTEMP (description="DAQTEMP", quantity="")
<i>Int1d</i>	LIASSTAT (description="LIASSTAT", quantity="")
<i>Int1d</i>	LIAP1STAT (description="LIAP1STAT", quantity="")
<i>Int1d</i>	LIAP2STAT (description="LIAP2STAT", quantity="")
<i>Int1d</i>	LIAP3STAT (description="LIAP3STAT", quantity="")
<i>Int1d</i>	LIAP4STAT (description="LIAP4STAT", quantity="")
<i>Int1d</i>	LIAP5STAT (description="LIAP5STAT", quantity="")
<i>Int1d</i>	LIAP6STAT (description="LIAP6STAT", quantity="")
<i>Int1d</i>	LIAP7STAT (description="LIAP7STAT", quantity="")
<i>Int1d</i>	LIAP8STAT (description="LIAP8STAT", quantity="")
<i>Int1d</i>	LIAP9STAT (description="LIAP9STAT", quantity="")
<i>Int1d</i>	LIAS1STAT (description="LIAS1STAT", quantity="")
<i>Int1d</i>	LIAS2STAT (description="LIAS2STAT", quantity="")
<i>Int1d</i>	LIAS3STAT (description="LIAS3STAT", quantity="")
<i>Int1d</i>	MCUIFSTAT (description="MCUIFSTAT", quantity="")
<i>Int1d</i>	MCUIFCTRL (description="MCUIFCTRL", quantity="")
<i>Int1d</i>	MCUSSDEL (description="MCUSSDEL", quantity="")
<i>Int1d</i>	MCUP5V (description="MCUP5V", quantity="")
<i>Int1d</i>	MCUP14V (description="MCUP14V", quantity="")
<i>Int1d</i>	MCUM14V (description="MCUM14V", quantity="")
<i>Int1d</i>	MCUP15V (description="MCUP15V", quantity="")
<i>Int1d</i>	MCUM15V (description="MCUM15V", quantity="")
<i>Int1d</i>	MCUMACTEMP (description="MCUMACTEMP", quantity="")
<i>Int1d</i>	MCUSMECTEMP (description="MCUSMECTEMP", quantity="")

<i>Int1d</i>	MCUBSMTEMP (description="MCUBSMTEMP", quantity="")
<i>Int1d</i>	MCUERR (description="MCUERR", quantity="")
<i>Int1d</i>	MCUSCHEDCNTLSW (description="MCUSCHEDCNTLSW", quantity="")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="MCUSCHEDCNTMSW", quantity="")
<i>Int1d</i>	MCUTM10TSAMPLE (description="MCUTM10TSAMPLE", quantity="")
<i>Int1d</i>	MCUFRAMESTART (description="MCUFRAMESTART", quantity="")
<i>Int1d</i>	MCUTM12TSAMPLE (description="MCUTM12TSAMPLE", quantity="")
<i>Int1d</i>	MCUFRAMES (description="MCUFRAMES", quantity="")
<i>Int1d</i>	MCUTM14TSAMPLE (description="MCUTM14TSAMPLE", quantity="")
<i>Int1d</i>	MCUTM15TSAMPLE (description="MCUTM15TSAMPLE", quantity="")
<i>Int1d</i>	MCUTMSTATUS (description="MCUTMSTATUS", quantity="")
<i>Int1d</i>	MCUBOOTSTAT (description="MCUBOOTSTAT", quantity="")
<i>Int1d</i>	MCUDLOADCONF (description="MCUDLOADCONF", quantity="")
<i>Int1d</i>	SMECLOSTCOUNT (description="SMECLOSTCOUNT", quantity="")
<i>Int1d</i>	SMECENCPWR (description="SMECENCPWR", quantity="")
<i>Int1d</i>	SMECLVDTPWR (description="SMECLVDTPWR", quantity="")
<i>Int1d</i>	SMECLATCHSTAT (description="SMECLATCHSTAT", quantity="")
<i>Int1d</i>	SMECLOOPMODE (description="SMECLOOPMODE", quantity="")
<i>Int1d</i>	SCANSTART (description="SCANSTART", quantity="")
<i>Int1d</i>	SCANEND (description="SCANEND", quantity="")
<i>Int1d</i>	SCANFSPEED (description="SCANFSPEED", quantity="")
<i>Int1d</i>	SCANS (description="SCANS", quantity="")
<i>Int1d</i>	SCANMODE (description="SCANMODE", quantity="")
<i>Int1d</i>	SMECKP (description="SMECKP", quantity="")
<i>Int1d</i>	SMECKD (description="SMECKD", quantity="")
<i>Int1d</i>	SMECDFILT (description="SMECDFILT", quantity="")
<i>Int1d</i>	SMECKI (description="SMECKI", quantity="")
<i>Int1d</i>	SMECINTLIMIT (description="SMECINTLIMIT", quantity="")
<i>Int1d</i>	SMECINTTHRESH (description="SMECINTTHRESH", quantity="")
<i>Int1d</i>	SMECRATELIMIT (description="SMECRATELIMIT", quantity="")
<i>Int1d</i>	SMECDFILT2 (description="SMECDFILT2", quantity="")
<i>Int1d</i>	SMECFFGAIN (description="SMECFFGAIN", quantity="")
<i>Int1d</i>	SMECFFOFFSET (description="SMECFFOFFSET", quantity="")
<i>Int1d</i>	SCANRSPEED (description="SCANRSPEED", quantity="")
<i>Int1d</i>	SMECBEMFGAIN (description="SMECBEMFGAIN", quantity="")
<i>Int1d</i>	SMECMOTORRES (description="SMECMOTORRES", quantity="")
<i>Int1d</i>	SMECMOTORBEMF (description="SMECMOTORBEMF", quantity="")
<i>Int1d</i>	SMECRATESCALE (description="SMECRATESCALE", quantity="")
<i>Int1d</i>	SMECLVDTOFFSET (description="SMECLVDTOFFSET", quantity="")
<i>Int1d</i>	SMECLVDTSSCALE (description="SMECLVDTSSCALE", quantity="")

<i>Int1d</i>	SMECSTAT (description="SMECSTAT", quantity="")
<i>Int1d</i>	SMECFLAG (description="SMECFLAG", quantity="")
<i>Int1d</i>	SMECLVDTSIGN (description="SMECLVDTSIGN", quantity="")
<i>Int1d</i>	SMECINIT (description="SMECINIT", quantity="")
<i>Int1d</i>	SMECSCANDIR (description="SMECSCANDIR", quantity="")
<i>Int1d</i>	SMECSCANCNT (description="SMECSCANCNT", quantity="")
<i>Int1d</i>	SMECENCPOSN (description="SMECENCPOSN", quantity="")
<i>Int1d</i>	SMECENCSIG1 (description="SMECENCSIG1", quantity="")
<i>Int1d</i>	SMECENCSIG2 (description="SMECENCSIG2", quantity="")
<i>Int1d</i>	SMECENCSIG3 (description="SMECENCSIG3", quantity="")
<i>Int1d</i>	SMECLVDTPOSN (description="SMECLVDTPOSN", quantity="")
<i>Int1d</i>	SMECLVDTACSIG (description="SMECLVDTACSIG", quantity="")
<i>Int1d</i>	SMECLVDTDCSIG (description="SMECLVDTDCSIG", quantity="")
<i>Int1d</i>	SMECTRAJPOSN (description="SMECTRAJPOSN", quantity="")
<i>Int1d</i>	SMECDACVAL (description="SMECDACVAL", quantity="")
<i>Int1d</i>	SMECPOSNDELTA (description="SMECPOSNDELTA", quantity="")
<i>Int1d</i>	SMECENCFINEPOSN (description="SMECENCFINEPOSN", quantity="")
<i>Int1d</i>	SMECMEANSPEED (description="SMECMEANSPEED", quantity="")
<i>Int1d</i>	SMECSCANPOSNERR (description="SMECSCANPOSNERR", quantity="")
<i>Int1d</i>	SMECMOTORCURR (description="SMECMOTORCURR", quantity="")
<i>Int1d</i>	SMECMOTORVOLT (description="SMECMOTORVOLT", quantity="")
<i>Int1d</i>	SMECENCSIG1AMP (description="SMECENCSIG1AMP", quantity="")
<i>Int1d</i>	SMECENCSIG1OFF (description="SMECENCSIG1OFF", quantity="")
<i>Int1d</i>	SMECENCSIG2AMP (description="SMECENCSIG2AMP", quantity="")
<i>Int1d</i>	SMECENCSIG2OFF (description="SMECENCSIG2OFF", quantity="")
<i>Int1d</i>	SMECENCSIG3AMP (description="SMECENCSIG3AMP", quantity="")
<i>Int1d</i>	SMECENCSIG3OFF (description="SMECENCSIG3OFF", quantity="")
<i>Int1d</i>	CHOPSENSPWR (description="CHOPSENSPWR", quantity="")
<i>Int1d</i>	CHOPLOOPMODE (description="CHOPLOOPMODE", quantity="")
<i>Int1d</i>	CHOPPOSN (description="CHOPPOSN", quantity="")
<i>Int1d</i>	CHOPPOSN2 (description="CHOPPOSN2", quantity="")
<i>Int1d</i>	BSMMODE (description="BSMMODE", quantity="")
<i>Int1d</i>	CHOPFFOFFSET (description="CHOPFFOFFSET", quantity="")
<i>Int1d</i>	CHOPKP (description="CHOPKP", quantity="")
<i>Int1d</i>	CHOPKD (description="CHOPKD", quantity="")
<i>Int1d</i>	CHOPKI (description="CHOPKI", quantity="")
<i>Int1d</i>	CHOPINTREF (description="CHOPINTREF", quantity="")
<i>Int1d</i>	CHOPINTLIMIT (description="CHOPINTLIMIT", quantity="")
<i>Int1d</i>	CHOPFFGAIN (description="CHOPFFGAIN", quantity="")
<i>Int1d</i>	CHOPFFGAINDIFF (description="CHOPFFGAINDIFF", quantity="")
<i>Int1d</i>	CHOPDIFFTC1 (description="CHOPDIFFTC1", quantity="")

<i>Int1d</i>	CHOPDIFFTC2 (description="CHOPDIFFTC2", quantity="")
<i>Int1d</i>	CHOPRATELIMIT (description="CHOPRATELIMIT", quantity="")
<i>Int1d</i>	CHOPMOTBEMFGAIN (description="CHOPMOTBEMFGAIN", quantity="")
<i>Int1d</i>	CHOPMOTRES (description="CHOPMOTRES", quantity="")
<i>Int1d</i>	CHOPMOTIND (description="CHOPMOTIND", quantity="")
<i>Int1d</i>	CHOPRATESCALE (description="CHOPRATESCALE", quantity="")
<i>Int1d</i>	CHOPPOSNSCALE (description="CHOPPOSNSCALE", quantity="")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="CHOPBEMFRATFIL1", quantity="")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="CHOPBEMFRATFIL2", quantity="")
<i>Int1d</i>	CHOPJIGGCUPLE (description="CHOPJIGGCUPLE", quantity="")
<i>Int1d</i>	BSMSTAT (description="BSMSTAT", quantity="")
<i>Int1d</i>	CHOPPOSNERR (description="CHOPPOSNERR", quantity="")
<i>Int1d</i>	CHOPSENSSIG (description="CHOPSENSSIG", quantity="")
<i>Int1d</i>	CHOPDACVAL (description="CHOPDACVAL", quantity="")
<i>Int1d</i>	CHOPMOTORCURR (description="CHOPMOTORCURR", quantity="")
<i>Int1d</i>	CHOPMOTORVOLT (description="CHOPMOTORVOLT", quantity="")
<i>Int1d</i>	JIGGSENSPWR (description="JIGGSENSPWR", quantity="")
<i>Int1d</i>	JIGGLOOPMODE (description="JIGGLOOPMODE", quantity="")
<i>Int1d</i>	JIGGPOSN (description="JIGGPOSN", quantity="")
<i>Int1d</i>	JIGGPOSN2 (description="JIGGPOSN2", quantity="")
<i>Int1d</i>	JIGGFFOFFSET (description="JIGGFFOFFSET", quantity="")
<i>Int1d</i>	JIGGKP (description="JIGGKP", quantity="")
<i>Int1d</i>	JIGGKD (description="JIGGKD", quantity="")
<i>Int1d</i>	JIGGKI (description="JIGGKI", quantity="")
<i>Int1d</i>	JIGGINTREF (description="JIGGINTREF", quantity="")
<i>Int1d</i>	JIGGINTLIMIT (description="JIGGINTLIMIT", quantity="")
<i>Int1d</i>	JIGGFFGAIN (description="JIGGFFGAIN", quantity="")
<i>Int1d</i>	JIGGFFGAINDIFF (description="JIGGFFGAINDIFF", quantity="")
<i>Int1d</i>	JIGGDIFFTC1 (description="JIGGDIFFTC1", quantity="")
<i>Int1d</i>	JIGGDIFFTC2 (description="JIGGDIFFTC2", quantity="")
<i>Int1d</i>	JIGGRATELIMIT (description="JIGGRATELIMIT", quantity="")
<i>Int1d</i>	JIGGMOTBEMFGAIN (description="JIGGMOTBEMFGAIN", quantity="")
<i>Int1d</i>	JIGGMOTRES (description="JIGGMOTRES", quantity="")
<i>Int1d</i>	JIGGMOTIND (description="JIGGMOTIND", quantity="")
<i>Int1d</i>	JIGGRATESCALE (description="JIGGRATESCALE", quantity="")
<i>Int1d</i>	JIGGPOSNSCALE (description="JIGGPOSNSCALE", quantity="")
<i>Int1d</i>	JIGGBEMFRATFIL1 (description="JIGGBEMFRATFIL1", quantity="")
<i>Int1d</i>	JIGGBEMFRATFIL2 (description="JIGGBEMFRATFIL2", quantity="")
<i>Int1d</i>	JIGGCHOPCOUPLE (description="JIGGCHOPCOUPLE", quantity="")
<i>Int1d</i>	JIGGPOSNERR (description="JIGGPOSNERR", quantity="")

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<i>Int1d</i>	JIGGSENSSIG (description="JIGGSENSSIG", quantity="")
<i>Int1d</i>	JIGGDACVAL (description="JIGGDACVAL", quantity="")
<i>Int1d</i>	JIGGMOTORCURR (description="JIGGMOTORCURR", quantity="")
<i>Int1d</i>	JIGGMOTORVOLT (description="JIGGMOTORVOLT", quantity="")
<i>Int1d</i>	MCUPCKT10PARM05 (description="MCUPCKT10PARM05", quantity="")
<i>Int1d</i>	MCUPCKT10PARM01 (description="MCUPCKT10PARM01", quantity="")
<i>Int1d</i>	MCUPCKT10PARM02 (description="MCUPCKT10PARM02", quantity="")
<i>Int1d</i>	MCUPCKT10PARM03 (description="MCUPCKT10PARM03", quantity="")
<i>Int1d</i>	MCUPCKT10PARM04 (description="MCUPCKT10PARM04", quantity="")
<i>Int1d</i>	MCUPCKT12PARM01 (description="MCUPCKT12PARM01", quantity="")
<i>Int1d</i>	MCUPCKT12PARM02 (description="MCUPCKT12PARM02", quantity="")
<i>Int1d</i>	MCUPCKT12PARM03 (description="MCUPCKT12PARM03", quantity="")
<i>Int1d</i>	MCUPCKT12PARM04 (description="MCUPCKT12PARM04", quantity="")
<i>Int1d</i>	MCUPCKT12PARM05 (description="MCUPCKT12PARM05", quantity="")
<i>Int1d</i>	MCUPCKT12PARM06 (description="MCUPCKT12PARM06", quantity="")
<i>Int1d</i>	MCUPCKT14PARM01 (description="MCUPCKT14PARM01", quantity="")
<i>Int1d</i>	MCUPCKT14PARM02 (description="MCUPCKT14PARM02", quantity="")
<i>Int1d</i>	MCUPCKT14PARM03 (description="MCUPCKT14PARM03", quantity="")
<i>Int1d</i>	MCUPCKT14PARM04 (description="MCUPCKT14PARM04", quantity="")
<i>Int1d</i>	MCUPCKT14PARM05 (description="MCUPCKT14PARM05", quantity="")
<i>Int1d</i>	MCUPCKT14PARM06 (description="MCUPCKT14PARM06", quantity="")
<i>Int1d</i>	MCUPCKT14PARM07 (description="MCUPCKT14PARM07", quantity="")
<i>Int1d</i>	MCUPCKT14PARM08 (description="MCUPCKT14PARM08", quantity="")
<i>Int1d</i>	MCUPCKT14PARM09 (description="MCUPCKT14PARM09", quantity="")
<i>Int1d</i>	MCUPCKT14PARM10 (description="MCUPCKT14PARM10", quantity="")
<i>Int1d</i>	MCUPCKT14PARM11 (description="MCUPCKT14PARM11", quantity="")

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<i>Int1d</i>	MCUPCKT14PARM12 (description="MCUPCKT14PARM12", quantity="")
<i>Int1d</i>	MCUPCKT14PARM13 (description="MCUPCKT14PARM13", quantity="")
<i>Int1d</i>	MCUPCKT14PARM14 (description="MCUPCKT14PARM14", quantity="")
<i>Int1d</i>	SCUIFSTAT (description="SCUIFSTAT", quantity="")
<i>Int1d</i>	SCUIFCTRL (description="SCUIFCTRL", quantity="")
<i>Int1d</i>	SCUSSDEL (description="SCUSSDEL", quantity="")
<i>Int1d</i>	SCUSTAT (description="SCUSTAT", quantity="")
<i>Int1d</i>	SCUTEMPSTAT (description="SCUTEMPSTAT", quantity="")
<i>Int1d</i>	SCUDCDCSTAT (description="SCUDCDCSTAT", quantity="")
<i>Int1d</i>	PLIABITSTAT (description="PLIABITSTAT", quantity="")
<i>Int1d</i>	SLIABITSTAT (description="SLIABITSTAT", quantity="")
<i>Int1d</i>	MCUBITSTAT (description="MCUBITSTAT", quantity="")
<i>Int1d</i>	SCUP5V (description="SCUP5V", quantity="")
<i>Int1d</i>	SCUP9V (description="SCUP9V", quantity="")
<i>Int1d</i>	SCUM9V (description="SCUM9V", quantity="")
<i>Int1d</i>	EVHSV (description="EVHSV", quantity="")
<i>Int1d</i>	SPHSV (description="SPHSV", quantity="")
<i>Int1d</i>	TCHTRV (description="TCHTRV", quantity="")
<i>Int1d</i>	SPHTRV (description="SPHTRV", quantity="")
<i>Int1d</i>	CCUTEMP (description="CCUTEMP", quantity="")
<i>Int1d</i>	TCUTEMP (description="TCUTEMP", quantity="")
<i>Int1d</i>	PSUTEMP1 (description="PSUTEMP1", quantity="")
<i>Int1d</i>	SCUFRAMECONF (description="SCUFRAMECONF", quantity="")
<i>Int1d</i>	SCUFRAMES (description="SCUFRAMES", quantity="")
<i>Int1d</i>	SCUFRAMESTAT (description="SCUFRAMESTAT", quantity="")
<i>Int1d</i>	SCUCTRL (description="SCUCTRL", quantity="")
<i>Int1d</i>	PCALV (description="PCALV", quantity="")
<i>Int1d</i>	SCAL2V (description="SCAL2V", quantity="")
<i>Int1d</i>	SCAL4V (description="SCAL4V", quantity="")
<i>Int1d</i>	SCUCHT2_5V (description="SCUCHT2_5V", quantity="")
<i>Int1d</i>	SCUCHTREF (description="SCUCHTREF", quantity="")
<i>Int1d</i>	SCUCHTGND (description="SCUCHTGND", quantity="")
<i>Int1d</i>	PCALCURR (description="PCALCURR", quantity="")
<i>Int1d</i>	SCAL2CURR (description="SCAL2CURR", quantity="")
<i>Int1d</i>	SCAL4CURR (description="SCAL4CURR", quantity="")
<i>Int1d</i>	PSUTEMP2 (description="PSUTEMP2", quantity="")
<i>Int1d</i>	SUBKSTAT (description="SUBKSTAT", quantity="")
<i>Int1d</i>	PUMPHTRTEMP (description="PUMPHTRTEMP", quantity="")
<i>Int1d</i>	PUMPHSTEMP (description="PUMPHSTEMP", quantity="")
<i>Int1d</i>	EVAPHSTEMP (description="EVAPHSTEMP", quantity="")

<i>Int1d</i>	SHUNTTEMP (description="SHUNTTEMP", quantity="")
<i>Int1d</i>	EMCFILTEMP (description="EMCFILTEMP", quantity="")
<i>Int1d</i>	SL0TEMP (description="SL0TEMP", quantity="")
<i>Int1d</i>	PL0TEMP (description="PL0TEMP", quantity="")
<i>Int1d</i>	OPTTEMP (description="OPTTEMP", quantity="")
<i>Int1d</i>	BAFTEMP (description="BAFTEMP", quantity="")
<i>Int1d</i>	BSMIFTEMP (description="BSMIFTEMP", quantity="")
<i>Int1d</i>	SCAL2TEMP (description="SCAL2TEMP", quantity="")
<i>Int1d</i>	SCAL4TEMP (description="SCAL4TEMP", quantity="")
<i>Int1d</i>	SCALTEMP (description="SCALTEMP", quantity="")
<i>Int1d</i>	SMECIFTEMP (description="SMECIFTEMP", quantity="")
<i>Int1d</i>	SMECTEMP (description="SMECTEMP", quantity="")
<i>Int1d</i>	BSMTEMP (description="BSMTEMP", quantity="")
<i>Int1d</i>	SUBKTEMP (description="SUBKTEMP", quantity="")
<i>Int1d</i>	SCUTHTREF (description="SCUTHTREF", quantity="")
<i>Int1d</i>	SCUTHTGND (description="SCUTHTGND", quantity="")
<i>Int1d</i>	LOSTTCBLOCK (description="LOSTTCBLOCK", quantity="")
<i>Int1d</i>	LOSTEVBLOCK (description="LOSTEVBLOCK", quantity="")
<i>Int1d</i>	LOSTHKBLOCK (description="LOSTHKBLOCK", quantity="")
<i>Int1d</i>	LOSTSDBLOCK (description="LOSTSDBLOCK", quantity="")
<i>Int1d</i>	LOSTNTBLOCK (description="LOSTNTBLOCK", quantity="")
<i>Int1d</i>	LS_HP_FIFOSTAT (description="LS_HP_FIFOSTAT", quantity="")
<i>Int1d</i>	LS_LP_FIFOSTAT (description="LS_LP_FIFOSTAT", quantity="")
<i>Int1d</i>	MCUPCKT10STAT (description="MCUPCKT10STAT", quantity="")
<i>Int1d</i>	MCUPCKT12STAT (description="MCUPCKT12STAT", quantity="")
<i>Int1d</i>	MCUPCKT14STAT (description="MCUPCKT14STAT", quantity="")
<i>Int1d</i>	MCUPCKT15STAT (description="MCUPCKT15STAT", quantity="")
<i>Int1d</i>	MCURAMINTEGRITY (description="MCURAMINTEGRITY", quantity="")
<i>Int1d</i>	MCURAMTSTPROG (description="MCURAMTSTPROG", quantity="")
<i>Int1d</i>	MCURAMTSTDATA (description="MCURAMTSTDATA", quantity="")
<i>Int1d</i>	MCUPROM2RAMCOPY (description="MCUPROM2RAMCOPY", quantity="")
<i>Int1d</i>	MCUBOOTMODE (description="MCUBOOTMODE", quantity="")
<i>Int1d</i>	SMECSELECTTAB (description="SMECSELECTTAB", quantity="")
<i>Int1d</i>	CREC_STEP (description="CREC_STEP", quantity="")
<i>Int1d</i>	PTC_STAGE (description="PTC_STAGE", quantity="")
<i>Int1d</i>	SCAL_STAGE (description="SCAL_STAGE", quantity="")
<i>Int1d</i>	JIGGLE_STEP (description="JIGGLE_STEP", quantity="")
<i>Int1d</i>	LOSTRPBLOCK (description="LOSTRPBLOCK", quantity="")
<i>Int1d</i>	LIAFAILCOUNT (description="LIAFAILCOUNT", quantity="")
<i>Int1d</i>	SCANRES (description="SCANRES", quantity="")

<i>IntId</i>	TABLE7_07_LWORD (description="TABLE7_07_LWORD", quantity="")
<i>IntId</i>	TABLE7_08_LWORD (description="TABLE7_08_LWORD", quantity="")
<i>IntId</i>	TABLE7_09_LWORD (description="TABLE7_09_LWORD", quantity="")
<i>IntId</i>	TABLE7_10 (description="TABLE7_10", quantity="")
<i>IntId</i>	TABLE7_11 (description="TABLE7_11", quantity="")
<i>IntId</i>	TABLE7_12 (description="TABLE7_12", quantity="")
<i>IntId</i>	HK_00 (description="HK_00", quantity="")
<i>IntId</i>	HK_01 (description="HK_01", quantity="")
<i>IntId</i>	HK_02 (description="HK_02", quantity="")
<i>IntId</i>	HK_03 (description="HK_03", quantity="")
<i>IntId</i>	HK_04 (description="HK_04", quantity="")
<i>IntId</i>	HK_05 (description="HK_05", quantity="")
<i>IntId</i>	HK_06 (description="HK_06", quantity="")
<i>IntId</i>	HK_07 (description="HK_07", quantity="")
<i>IntId</i>	HK_08 (description="HK_08", quantity="")
<i>IntId</i>	HK_09 (description="HK_09", quantity="")
<i>IntId</i>	HK_10 (description="HK_10", quantity="")
<i>IntId</i>	HK_11 (description="HK_11", quantity="")
<i>IntId</i>	HK_12 (description="HK_12", quantity="")
<i>IntId</i>	HK_13 (description="HK_13", quantity="")
<i>IntId</i>	HK_14 (description="HK_14", quantity="")
<i>IntId</i>	HK_15 (description="HK_15", quantity="")
<i>IntId</i>	HK_16 (description="HK_16", quantity="")
<i>IntId</i>	HK_17 (description="HK_17", quantity="")
<i>IntId</i>	HK_18 (description="HK_18", quantity="")
<i>IntId</i>	HK_19 (description="HK_19", quantity="")
<i>IntId</i>	HK_20 (description="HK_20", quantity="")
<i>IntId</i>	HK_21 (description="HK_21", quantity="")
<i>IntId</i>	HK_22 (description="HK_22", quantity="")
<i>IntId</i>	HK_23 (description="HK_23", quantity="")
<i>IntId</i>	seqCount (description="Sequence count", quantity="")
<i>composite</i>	(description="History of product")
<i>Metadata</i>	
<i>LongParameter</i>	id (description="Unique ID")
<i>table dataset</i>	(description="History as Jython script")
<i>Metadata</i>	
<i>StringParameter</i>	outvar (description="last output variable")
<i>StringId</i>	Lines (description="script lines", quantity="none")
<i>table dataset</i>	(description="History of tasks")
<i>Metadata</i>	
<i>LongId</i>	ID (description="Links the parameter and task table", quantity="none")
<i>StringId</i>	Name (description="The name of the task", quantity="none")

	<i>LongId</i>	ExecDate (description="Time of execution (FINETIME)", quantity="none")
	<i>BoolId</i>	Succeeded (description="Flag for success/failed", quantity="none")
	<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
<i>table dataset</i>	(description="The parameters belonging to the task history")	
	<i>Metadata</i>	
	<i>LongId</i>	TaskID (description="Links the parameter and task table", quantity="none")
	<i>StringId</i>	Name (description="The name of the parameter", quantity="none")
	<i>StringId</i>	Type (description="Type of parameter", quantity="none")
	<i>StringId</i>	Value (description="String representation of the parameter value", quantity="none")
	<i>BoolId</i>	IsDefault (description="True if the default value has been used", quantity="none")
	<i>LongId</i>	IncHistoryId (description="ID of the history of an included product", quantity="none")
	<i>IntId</i>	IncNumTask (description="Number of tasks to include from history", quantity="none")
	<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
	<i>BoolId</i>	UserInput (description="Needs user input", quantity="none")

11.2.6. CHKT: Critical House Keeping Timeline

<i>product (type="CHKT", description="Critical House Keeping Timeline")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
StringParameter	author (description="Author of the Data")
StringParameter	cusMode (description="null")
DoubleParameter	dec (description="Actual Declination of pointing")
DoubleParameter	decNominal (description="Requested Declination of pointing")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	instMode (description="null")
StringParameter	fileName (description="file name for export")
StringParameter	missionConfig (description="Mission configuration")

StringParameter	naifId (description="SSO NAIF identifier")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
LongParameter	obsid (description="null")
StringParameter	obsMode (description="null")
LongParameter	odNumber (description="null")
StringParameter	pointingMode (description="Pointing mode")
DoubleParameter	posAngle (description="Position Angle of pointing")
StringParameter	proposal (description="Proposal name")
DoubleParameter	ra (description="Actual Right Ascension of pointing")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing")
StringParameter	telescope (description="Name of telescope")
StringParameter	subsystem (description="Instrument subsystem")
LongParameter	bbid (description="Building Block Identifier")
StringParameter	source (description="TM source packet name")
StringParameter	elecSide (description="Electronic side")
StringParameter	bbTypeName (description="Building block type name")
<i>table dataset</i>	(description="Signal timelines")
<i>Metadata</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>IntId</i>	SID_C (description="SID_C", quantity="")
<i>LongId</i>	OBSID_C (description="OBSID_C", quantity="")
<i>LongId</i>	BBID_C (description="BBID_C", quantity="")
<i>IntId</i>	MODE_C (description="MODE_C", quantity="")
<i>IntId</i>	STEP_C (description="STEP_C", quantity="")
<i>IntId</i>	TCRECV_C (description="TCRECV_C", quantity="")
<i>IntId</i>	TCEXEC_C (description="TCEXEC_C", quantity="")
<i>StringId</i>	MEMSTAT1_C (description="MEMSTAT1_C", quantity="")
<i>StringId</i>	MEMSTAT2_C (description="MEMSTAT2_C", quantity="")
<i>StringId</i>	MEMSTAT3_C (description="MEMSTAT3_C", quantity="")
<i>StringId</i>	MONSTAT_C (description="MONSTAT_C", quantity="")
<i>StringId</i>	SCUDCDCSTAT_C (description="SCUDCDCSTAT_C", quantity="")
<i>StringId</i>	MCUIFSTAT_C (description="MCUIFSTAT_C", quantity="")
<i>StringId</i>	SCUIFSTAT_C (description="SCUIFSTAT_C", quantity="")
<i>StringId</i>	PSWJFETSTAT_C (description="PSWJFETSTAT_C", quantity="")
<i>StringId</i>	PSW_VDD_JFET1_C (description="PSW_VDD_JFET1_C", quantity="")
<i>StringId</i>	PSW_VDD_JFET2_C (description="PSW_VDD_JFET2_C", quantity="")
<i>StringId</i>	PSW_VDD_JFET3_C (description="PSW_VDD_JFET3_C", quantity="")
<i>StringId</i>	PSW_VDD_JFET4_C (description="PSW_VDD_JFET4_C", quantity="")
<i>StringId</i>	PSW_VDD_JFET5_C (description="PSW_VDD_JFET5_C", quantity="")

<i>StringId</i>	PSW_VDD_JFET6_C (description="PSW_VDD_JFET6_C", quantity="")
<i>StringId</i>	PMLWJFETSTAT_C (description="PMLWJFETSTAT_C", quantity="")
<i>StringId</i>	PMW_VDD_JFET1_C (description="PMW_VDD_JFET1_C", quantity="")
<i>StringId</i>	PMW_VDD_JFET2_C (description="PMW_VDD_JFET2_C", quantity="")
<i>StringId</i>	PMW_VDD_JFET3_C (description="PMW_VDD_JFET3_C", quantity="")
<i>StringId</i>	PMW_VDD_JFET4_C (description="PMW_VDD_JFET4_C", quantity="")
<i>StringId</i>	PLW_VDD_JFET1_C (description="PLW_VDD_JFET1_C", quantity="")
<i>StringId</i>	PLW_VDD_JFET2_C (description="PLW_VDD_JFET2_C", quantity="")
<i>StringId</i>	TC_VDD_JFET_C (description="TC_VDD_JFET_C", quantity="")
<i>StringId</i>	SPECJFETSTAT_C (description="SPECJFETSTAT_C", quantity="")
<i>StringId</i>	SLW_VDD_JFET1_C (description="SLW_VDD_JFET1_C", quantity="")
<i>StringId</i>	SSW_VDD_JFET1_C (description="SSW_VDD_JFET1_C", quantity="")
<i>StringId</i>	SSW_VDD_JFET2_C (description="SSW_VDD_JFET2_C", quantity="")
<i>StringId</i>	LIASSTAT_C (description="LIASSTAT_C", quantity="")
<i>StringId</i>	LIAP1STAT_C (description="LIAP1STAT_C", quantity="")
<i>StringId</i>	LIAP2STAT_C (description="LIAP2STAT_C", quantity="")
<i>StringId</i>	LIAP3STAT_C (description="LIAP3STAT_C", quantity="")
<i>StringId</i>	LIAP4STAT_C (description="LIAP4STAT_C", quantity="")
<i>StringId</i>	LIAP5STAT_C (description="LIAP5STAT_C", quantity="")
<i>StringId</i>	LIAP6STAT_C (description="LIAP6STAT_C", quantity="")
<i>StringId</i>	LIAP7STAT_C (description="LIAP7STAT_C", quantity="")
<i>StringId</i>	LIAP8STAT_C (description="LIAP8STAT_C", quantity="")
<i>StringId</i>	LIAP9STAT_C (description="LIAP9STAT_C", quantity="")
<i>StringId</i>	LIAS1STAT_C (description="LIAS1STAT_C", quantity="")
<i>StringId</i>	LIAS2STAT_C (description="LIAS2STAT_C", quantity="")
<i>StringId</i>	LIAS3STAT_C (description="LIAS3STAT_C", quantity="")
<i>StringId</i>	MCUERR_C (description="MCUERR_C", quantity="")
<i>StringId</i>	SMECSTAT_C (description="SMECSTAT_C", quantity="")
<i>StringId</i>	BSMSTAT_C (description="BSMSTAT_C", quantity="")
<i>StringId</i>	SCUSTAT_C (description="SCUSTAT_C", quantity="")
<i>DoubleId</i>	SUBKTEMP_C (description="SUBKTEMP_C", quantity="K")
<i>IntId</i>	OBSVER_C (description="OBSVER_C", quantity="")
<i>ShortId</i>	OBSVER1_C (description="OBSVER1_C", quantity="")
<i>ShortId</i>	OBSVER2_C (description="OBSVER2_C", quantity="")
<i>StringId</i>	OBSVER3_C (description="OBSVER3_C", quantity="")
<i>StringId</i>	CHK_VERS (description="CHK_VERS", quantity="")
<i>StringId</i>	CHK_TYPE (description="CHK_TYPE", quantity="")
<i>StringId</i>	CHK_DFHFLAG (description="CHK_DFHFLAG", quantity="")
<i>ShortId</i>	CHK_APID (description="CHK_APID", quantity="")
<i>StringId</i>	CHK_SEGFLAG (description="CHK_SEGFLAG", quantity="")
<i>ShortId</i>	CHK_SSC (description="CHK_SSC", quantity="")
<i>IntId</i>	CHK_PKTLEN (description="CHK_PKTLEN", quantity="")

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<i>StringId</i>	CHK_PUSVERS (description="CHK_PUSVERS", quantity="")
<i>ShortId</i>	CHK_PKTTYPE (description="CHK_PKTTYPE", quantity="")
<i>ShortId</i>	CHK_PKTSTYPE (description="CHK_PKTSTYPE", quantity="")
<i>LongId</i>	CHK_PKTCTIME (description="CHK_PKTCTIME", quantity="")
<i>IntId</i>	CHK_PKTFTIME (description="CHK_PKTFTIME", quantity="")
<i>IntId</i>	seqCount (description="Sequence count", quantity="")
<i>table dataset</i>	(description="Mask timelines")
<i>Metadata</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>IntId</i>	SID_C (description="SID_C", quantity="")
<i>IntId</i>	OBSID_C (description="OBSID_C", quantity="")
<i>IntId</i>	BBID_C (description="BBID_C", quantity="")
<i>IntId</i>	MODE_C (description="MODE_C", quantity="")
<i>IntId</i>	STEP_C (description="STEP_C", quantity="")
<i>IntId</i>	TCRECV_C (description="TCRECV_C", quantity="")
<i>IntId</i>	TCEXEC_C (description="TCEXEC_C", quantity="")
<i>IntId</i>	MEMSTAT1_C (description="MEMSTAT1_C", quantity="")
<i>IntId</i>	MEMSTAT2_C (description="MEMSTAT2_C", quantity="")
<i>IntId</i>	MEMSTAT3_C (description="MEMSTAT3_C", quantity="")
<i>IntId</i>	MONSTAT_C (description="MONSTAT_C", quantity="")
<i>IntId</i>	SCUDCDCSTAT_C (description="SCUDCDCSTAT_C", quantity="")
<i>IntId</i>	MCUIFSTAT_C (description="MCUIFSTAT_C", quantity="")
<i>IntId</i>	SCUIFSTAT_C (description="SCUIFSTAT_C", quantity="")
<i>IntId</i>	PSWJFETSTAT_C (description="PSWJFETSTAT_C", quantity="")
<i>IntId</i>	PSW_VDD_JFET1_C (description="PSW_VDD_JFET1_C", quantity="")
<i>IntId</i>	PSW_VDD_JFET2_C (description="PSW_VDD_JFET2_C", quantity="")
<i>IntId</i>	PSW_VDD_JFET3_C (description="PSW_VDD_JFET3_C", quantity="")
<i>IntId</i>	PSW_VDD_JFET4_C (description="PSW_VDD_JFET4_C", quantity="")
<i>IntId</i>	PSW_VDD_JFET5_C (description="PSW_VDD_JFET5_C", quantity="")
<i>IntId</i>	PSW_VDD_JFET6_C (description="PSW_VDD_JFET6_C", quantity="")
<i>IntId</i>	PMLWJFETSTAT_C (description="PMLWJFETSTAT_C", quantity="")
<i>IntId</i>	PMW_VDD_JFET1_C (description="PMW_VDD_JFET1_C", quantity="")
<i>IntId</i>	PMW_VDD_JFET2_C (description="PMW_VDD_JFET2_C", quantity="")
<i>IntId</i>	PMW_VDD_JFET3_C (description="PMW_VDD_JFET3_C", quantity="")
<i>IntId</i>	PMW_VDD_JFET4_C (description="PMW_VDD_JFET4_C", quantity="")
<i>IntId</i>	PLW_VDD_JFET1_C (description="PLW_VDD_JFET1_C", quantity="")
<i>IntId</i>	PLW_VDD_JFET2_C (description="PLW_VDD_JFET2_C", quantity="")
<i>IntId</i>	TC_VDD_JFET_C (description="TC_VDD_JFET_C", quantity="")
<i>IntId</i>	SPECJFETSTAT_C (description="SPECJFETSTAT_C", quantity="")
<i>IntId</i>	SLW_VDD_JFET1_C (description="SLW_VDD_JFET1_C", quantity="")
<i>IntId</i>	SSW_VDD_JFET1_C (description="SSW_VDD_JFET1_C", quantity="")

<i>Int1d</i>	SSW_VDD_JFET2_C (description="SSW_VDD_JFET2_C", quantity="")
<i>Int1d</i>	LIASSTAT_C (description="LIASSTAT_C", quantity="")
<i>Int1d</i>	LIAP1STAT_C (description="LIAP1STAT_C", quantity="")
<i>Int1d</i>	LIAP2STAT_C (description="LIAP2STAT_C", quantity="")
<i>Int1d</i>	LIAP3STAT_C (description="LIAP3STAT_C", quantity="")
<i>Int1d</i>	LIAP4STAT_C (description="LIAP4STAT_C", quantity="")
<i>Int1d</i>	LIAP5STAT_C (description="LIAP5STAT_C", quantity="")
<i>Int1d</i>	LIAP6STAT_C (description="LIAP6STAT_C", quantity="")
<i>Int1d</i>	LIAP7STAT_C (description="LIAP7STAT_C", quantity="")
<i>Int1d</i>	LIAP8STAT_C (description="LIAP8STAT_C", quantity="")
<i>Int1d</i>	LIAP9STAT_C (description="LIAP9STAT_C", quantity="")
<i>Int1d</i>	LIAS1STAT_C (description="LIAS1STAT_C", quantity="")
<i>Int1d</i>	LIAS2STAT_C (description="LIAS2STAT_C", quantity="")
<i>Int1d</i>	LIAS3STAT_C (description="LIAS3STAT_C", quantity="")
<i>Int1d</i>	MCUERR_C (description="MCUERR_C", quantity="")
<i>Int1d</i>	SMECSTAT_C (description="SMECSTAT_C", quantity="")
<i>Int1d</i>	BSMSTAT_C (description="BSMSTAT_C", quantity="")
<i>Int1d</i>	SCUSTAT_C (description="SCUSTAT_C", quantity="")
<i>Int1d</i>	SUBKTEMP_C (description="SUBKTEMP_C", quantity="")
<i>Int1d</i>	OBSVER_C (description="OBSVER_C", quantity="")
<i>Int1d</i>	OBSVER1_C (description="OBSVER1_C", quantity="")
<i>Int1d</i>	OBSVER2_C (description="OBSVER2_C", quantity="")
<i>Int1d</i>	OBSVER3_C (description="OBSVER3_C", quantity="")
<i>Int1d</i>	CHK_VERS (description="CHK_VERS", quantity="")
<i>Int1d</i>	CHK_TYPE (description="CHK_TYPE", quantity="")
<i>Int1d</i>	CHK_DFHFLAG (description="CHK_DFHFLAG", quantity="")
<i>Int1d</i>	CHK_APID (description="CHK_APID", quantity="")
<i>Int1d</i>	CHK_SEGFLAG (description="CHK_SEGFLAG", quantity="")
<i>Int1d</i>	CHK_SSC (description="CHK_SSC", quantity="")
<i>Int1d</i>	CHK_PKTLEN (description="CHK_PKTLEN", quantity="")
<i>Int1d</i>	CHK_PUSVERS (description="CHK_PUSVERS", quantity="")
<i>Int1d</i>	CHK_PKTTYPE (description="CHK_PKTTYPE", quantity="")
<i>Int1d</i>	CHK_PKTSTYPE (description="CHK_PKTSTYPE", quantity="")
<i>Int1d</i>	CHK_PKTCTIME (description="CHK_PKTCTIME", quantity="")
<i>Int1d</i>	CHK_PKTFTIME (description="CHK_PKTFTIME", quantity="")
<i>Int1d</i>	seqCount (description="Sequence count", quantity="")
<i>composite</i>	(description="History of product")
<i>Metadata</i>	
<i>LongParameter</i>	id (description="Unique ID")
<i>table dataset</i>	(description="History as Jython script")
<i>Metadata</i>	
<i>StringParameter</i>	outvar (description="last output variable")

	<i>StringId</i>	Lines (description="script lines", quantity="none")
<i>table dataset</i>	(description="History of tasks")	
	<i>Metadata</i>	
	<i>LongId</i>	ID (description="Links the parameter and task table", quantity="none")
	<i>StringId</i>	Name (description="The name of the task", quantity="none")
	<i>LongId</i>	ExecDate (description="Time of execution (FINETIME)", quantity="none")
	<i>BoolId</i>	Succeeded (description="Flag for success/failed", quantity="none")
	<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
<i>table dataset</i>	(description="The parameters belonging to the task history")	
	<i>Metadata</i>	
	<i>LongId</i>	TaskID (description="Links the parameter and task table", quantity="none")
	<i>StringId</i>	Name (description="The name of the parameter", quantity="none")
	<i>StringId</i>	Type (description="Type of parameter", quantity="none")
	<i>StringId</i>	Value (description="String representation of the parameter value", quantity="none")
	<i>BoolId</i>	IsDefault (description="True if the default value has been used", quantity="none")
	<i>LongId</i>	IncHistoryId (description="ID of the history of an included product", quantity="none")
	<i>IntId</i>	IncNumTask (description="Number of tasks to include from history", quantity="none")
	<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
	<i>BoolId</i>	UserInput (description="Needs user input", quantity="none")

11.2.7. BSMT: Beam Steering Mirror Timeline

<i>product (type="BSMT", description="Beam Steering Mirror Timeline")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
StringParameter	author (description="Author of the Data")
StringParameter	cusMode (description="null")
DoubleParameter	dec (description="Actual Declination of pointing")

DoubleParameter	decNominal (description="Requested Declination of pointing")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	instMode (description="null")
StringParameter	fileName (description="file name for export")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	naifId (description="SSO NAIF identifier")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
LongParameter	obsid (description="null")
StringParameter	obsMode (description="null")
LongParameter	odNumber (description="null")
StringParameter	pointingMode (description="Pointing mode")
DoubleParameter	posAngle (description="Position Angle of pointing")
StringParameter	proposal (description="Proposal name")
DoubleParameter	ra (description="Actual Right Ascension of pointing")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing")
StringParameter	telescope (description="Name of telescope")
StringParameter	subsystem (description="Instrument subsystem")
LongParameter	bbid (description="Building Block Identifier")
StringParameter	source (description="TM source packet name")
StringParameter	elecSide (description="Electronic side")
StringParameter	bbTypeName (description="Building block type name")
<i>table dataset</i>	(description="Signal timelines")
<i>Metadata</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>IntId</i>	chopSens (description="BSMCHOPSENSSIG", quantity="")
<i>IntId</i>	chopMotorCurr (description="BSMCHOPMOTORCURR", quantity="")
<i>IntId</i>	chopMotorVolt (description="BSMCHOPMOTORVOLT", quantity="")
<i>IntId</i>	jiggSens (description="BSMJIGGSENSSIG", quantity="")
<i>IntId</i>	jiggMotorCurr (description="BSMJIGGMOTORCURR", quantity="")
<i>IntId</i>	jiggMotorVolt (description="BSMJIGGMOTORVOLT", quantity="")
<i>LongId</i>	transmTime (description="BSMTTIME", quantity="")
<i>table dataset</i>	(description="Mask timelines")
<i>Metadata</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>IntId</i>	chopSens (description="BSMCHOPSENSSIG", quantity="")
<i>IntId</i>	chopMotorCurr (description="BSMCHOPMOTORCURR", quantity="")
<i>IntId</i>	chopMotorVolt (description="BSMCHOPMOTORVOLT", quantity="")
<i>IntId</i>	jiggSens (description="BSMJIGGSENSSIG", quantity="")

<i>IntId</i>	jiggMotorCurr (description="BSMJIGGMOTORCURR", quantity="")
<i>IntId</i>	jiggMotorVolt (description="BSMJIGGMOTORVOLT", quantity="")
<i>IntId</i>	transmTime (description="BSMTTIME", quantity="")
<i>composite</i>	(description="History of product")
<i>Metadata</i>	
<i>LongParameter</i>	id (description="Unique ID")
<i>table dataset</i>	(description="History as Jython script")
<i>Metadata</i>	
<i>StringParameter</i>	outvar (description="last output variable")
<i>StringId</i>	Lines (description="script lines", quantity="none")
<i>table dataset</i>	(description="History of tasks")
<i>Metadata</i>	
<i>LongId</i>	ID (description="Links the parameter and task table", quantity="none")
<i>StringId</i>	Name (description="The name of the task", quantity="none")
<i>LongId</i>	ExecDate (description="Time of execution (FINETIME)", quantity="none")
<i>BoolId</i>	Succeeded (description="Flag for success/failed", quantity="none")
<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
<i>table dataset</i>	(description="The parameters belonging to the task history")
<i>Metadata</i>	
<i>LongId</i>	TaskID (description="Links the parameter and task table", quantity="none")
<i>StringId</i>	Name (description="The name of the parameter", quantity="none")
<i>StringId</i>	Type (description="Type of parameter", quantity="none")
<i>StringId</i>	Value (description="String representation of the parameter value", quantity="none")
<i>BoolId</i>	IsDefault (description="True if the default value has been used", quantity="none")
<i>LongId</i>	IncHistoryId (description="ID of the history of an included product", quantity="none")
<i>IntId</i>	IncNumTask (description="Number of tasks to include from history", quantity="none")
<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
<i>BoolId</i>	UserInput (description="Needs user input", quantity="none")

11.2.8. SMECT: Spectrometer Mechanism Timeline

<i>product</i>	(type="SMECT", description="Spectrometer Mechanism Timeline")
<i>Metadata</i>	
<i>StringParameter</i>	type (description="Product Type Identification")
<i>StringParameter</i>	creator (description="Generator of this product")
<i>DateParameter</i>	creationDate (description="Creation date of this product")
<i>StringParameter</i>	description (description="Name of this product")

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StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
StringParameter	author (description="Author of the Data")
StringParameter	cusMode (description="CUS observation mode")
DoubleParameter	dec (description="Actual Declination of pointing")
DoubleParameter	decNominal (description="Requested Declination of pointing")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	instMode (description="Instrument mode")
StringParameter	fileName (description="file name for export")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	naifId (description="SSO NAIF identifier")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
LongParameter	obsid (description="Observation identifier")
StringParameter	obsMode (description="Observing mode")
LongParameter	odNumber (description="Operational day number")
StringParameter	pointingMode (description="Pointing mode")
DoubleParameter	posAngle (description="Position Angle of pointing")
StringParameter	proposal (description="Proposal name")
DoubleParameter	ra (description="Actual Right Ascension of pointing")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing")
StringParameter	telescope (description="Name of telescope")
StringParameter	subsystem (description="Instrument subsystem")
LongParameter	bbid (description="Building Block Identifier")
StringParameter	source (description="TM source packet name")
StringParameter	bbTypeName (description="Building block type name")
<i>table dataset</i>	(description="Signal timelines")
<i>Metadata</i>	
<i>DoubleId</i>	sampleTime (description="SpireDataFrame time", quantity="s")
<i>DoubleId</i>	encoderCoarse (description="SMECOPTENCPOSN", quantity="cm [0.01 m]")
<i>DoubleId</i>	encoderFine (description="SMECOPTENCFINEPOSN", quantity="cm [0.01 m]")
<i>IntId</i>	lvdtdCSignal (description="SMECSCANLVDTDCSIG", quantity="")
<i>DoubleId</i>	motorCurrent (description="SMECSCANMOTORCURR", quantity="A")
<i>IntId</i>	motorBemf (description="SMECSCANMOTORBEMF", quantity="")
<i>LongId</i>	transmTime (description="SMECTTIME", quantity="")

<i>table</i>	<i>(description="Mask timelines")</i>				
<i>dataset</i>					
<i>Metadata</i>					
<i>DoubleId</i>	sampleTime	(description="SpireDataFrame time",	quantity="s")		
<i>IntId</i>	encoderCoarse	(description="SMECOPTENCPOSN",	quantity="")		
<i>IntId</i>	encoderFine	(description="SMECOPTENCFINEPOSN",	quantity="")		
<i>IntId</i>	lvdtDCSignal	(description="SMECSCANLVDTDCSIG",	quantity="")		
<i>IntId</i>	motorCurrent	(description="SMECSCANMOTORCURR",	quantity="")		
<i>IntId</i>	motorBemf	(description="SMECSCANMOTORBEMF",	quantity="")		
<i>IntId</i>	transmTime	(description="SMECTTIME",	quantity="")		
<i>table</i>	<i>(description="Time quantities")</i>				
<i>dataset</i>					
<i>Metadata</i>					
<i>LongId</i>	sdfTime	(description="SpireDataFrame time",	quantity="")		
<i>LongId</i>	packetTime	(description="TM packet time",	quantity="")		
<i>LongId</i>	seqCount	(description="Sequence count",	quantity="")		
<i>LongId</i>	frameTime	(description="SMECACQTIME",	quantity="")		

11.2.9. SCUT: Subsystem Control Unit Timeline

<i>product (type="SCUT", description="Subsystem Control Unit Timeline")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
StringParameter	author (description="Author of the Data")
StringParameter	cusMode (description="null")
DoubleParameter	dec (description="Actual Declination of pointing")
DoubleParameter	decNominal (description="Requested Declination of pointing")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	instMode (description="null")
StringParameter	fileName (description="file name for export")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	naifId (description="SSO NAIF identifier")
StringParameter	object (description="Target name")

StringParameter	observer (description="Observer name")
LongParameter	obsid (description="null")
StringParameter	obsMode (description="null")
LongParameter	odNumber (description="null")
StringParameter	pointingMode (description="Pointing mode")
DoubleParameter	posAngle (description="Position Angle of pointing")
StringParameter	proposal (description="Proposal name")
DoubleParameter	ra (description="Actual Right Ascension of pointing")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing")
StringParameter	telescope (description="Name of telescope")
StringParameter	subsystem (description="Instrument subsystem")
LongParameter	bbid (description="Building Block Identifier")
StringParameter	source (description="TM source packet name")
StringParameter	elecSide (description="Electronic side")
StringParameter	bbTypeName (description="Building block type name")
<i>table dataset</i>	(description="Signal timelines")
<i>Metadata</i>	
<i>Double1d</i>	sampleTime (description="Sample time", quantity="TAI")
<i>Double1d</i>	pumpHTemp (description="SCUPHTEMP", quantity="K")
<i>Double1d</i>	pumpHSTemp (description="SCUPHSTEMP", quantity="K")
<i>Double1d</i>	evapHSTemp (description="SCUEVHSTEMP", quantity="K")
<i>Double1d</i>	shuntTemp (description="SCUSHUNTTEMP", quantity="K")
<i>Double1d</i>	emcFilTemp (description="SCUEMCFILTEMP", quantity="K")
<i>Double1d</i>	specL0Temp (description="SCUSL0TEMP", quantity="K")
<i>Double1d</i>	photL0Temp (description="SCUPL0TEMP", quantity="K")
<i>Double1d</i>	osbTemp (description="SCUOPTTEMP", quantity="K")
<i>Double1d</i>	fpuBaffTemp (description="SCUBAFTEMP", quantity="K")
<i>Double1d</i>	bsmIntTemp (description="SCUBSMIFTEMP", quantity="K")
<i>Double1d</i>	scal2Temp (description="SCUSCAL2TEMP", quantity="K")
<i>Double1d</i>	scal4Temp (description="SCUSCAL4TEMP", quantity="K")
<i>Double1d</i>	scalFlanTemp (description="SCUSCALTEMP", quantity="K")
<i>Double1d</i>	smecIntTemp (description="SCUSMECIFTEMP", quantity="K")
<i>Double1d</i>	smecTemp (description="SCUSMECTEMP", quantity="K")
<i>Double1d</i>	bsmTemp (description="SCUBSMTEMP", quantity="K")
<i>Double1d</i>	ceSubKTemp (description="SCUSUBKTEMP", quantity="K")
<i>Double1d</i>	tchVolt (description="SCUTCHTRV", quantity="V")
<i>Double1d</i>	pcalCurr (description="SCUPCALCURR", quantity="A")
<i>Double1d</i>	pcalVolt (description="SCUPCALV", quantity="V")
<i>Double1d</i>	scal2Curr (description="SCUSCAL2CURR", quantity="A")
<i>Double1d</i>	scal2Volt (description="SCUSCAL2V", quantity="V")

	<i>DoubleId</i>	scal4Curr (description="SCUSCAL4CURR", quantity="A")
	<i>DoubleId</i>	scal4Volt (description="SCUSCAL4V", quantity="V")
	<i>IntId</i>	adcFlags (description="SCUADC_FLAGS", quantity="")
<i>table dataset</i>		(description="Mask timelines")
	<i>Metadata</i>	
	<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
	<i>IntId</i>	pumpHTemp (description="SCUPHTEMP", quantity="")
	<i>IntId</i>	pumpHSTemp (description="SCUPHSTEMP", quantity="")
	<i>IntId</i>	evapHSTemp (description="SCUEVHSTEMP", quantity="")
	<i>IntId</i>	shuntTemp (description="SCUSHUNTTEMP", quantity="")
	<i>IntId</i>	emcFilTemp (description="SCUEMCFILTEMP", quantity="")
	<i>IntId</i>	specL0Temp (description="SCUSL0TEMP", quantity="")
	<i>IntId</i>	photL0Temp (description="SCUPL0TEMP", quantity="")
	<i>IntId</i>	osbTemp (description="SCUOPTTEMP", quantity="")
	<i>IntId</i>	fpuBaffTemp (description="SCUBAFTEMP", quantity="")
	<i>IntId</i>	bsmIntTemp (description="SCUBSMIFTEMP", quantity="")
	<i>IntId</i>	scal2Temp (description="SCUSCAL2TEMP", quantity="")
	<i>IntId</i>	scal4Temp (description="SCUSCAL4TEMP", quantity="")
	<i>IntId</i>	scalFlanTemp (description="SCUSCALTEMP", quantity="")
	<i>IntId</i>	smecIntTemp (description="SCUSMECIFTEMP", quantity="")
	<i>IntId</i>	smecTemp (description="SCUSMECTEMP", quantity="")
	<i>IntId</i>	bsmTemp (description="SCUBSMTEMP", quantity="")
	<i>IntId</i>	ceSubKTemp (description="SCUSUBKTEMP", quantity="")
	<i>IntId</i>	tchVolt (description="SCUTCHTRV", quantity="")
	<i>IntId</i>	pcalCurr (description="SCUPCALCURR", quantity="")
	<i>IntId</i>	pcalVolt (description="SCUPCALV", quantity="")
	<i>IntId</i>	scal2Curr (description="SCUSCAL2CURR", quantity="")
	<i>IntId</i>	scal2Volt (description="SCUSCAL2V", quantity="")
	<i>IntId</i>	scal4Curr (description="SCUSCAL4CURR", quantity="")
	<i>IntId</i>	scal4Volt (description="SCUSCAL4V", quantity="")
	<i>IntId</i>	adcFlags (description="SCUADC_FLAGS", quantity="")
<i>composite</i>		(description="History of product")
	<i>Metadata</i>	
	<i>LongParameter</i>	id (description="Unique ID")
<i>table dataset</i>		(description="History as Jython script")
	<i>Metadata</i>	
	<i>StringParameter</i>	outvar (description="last output variable")
	<i>StringId</i>	Lines (description="script lines", quantity="none")
<i>table dataset</i>		(description="History of tasks")
	<i>Metadata</i>	
	<i>LongId</i>	ID (description="Links the parameter and task table", quantity="none")

	<i>StringId</i>	Name (description="The name of the task", quantity="none")
	<i>LongId</i>	ExecDate (description="Time of execution (FINETIME)", quantity="none")
	<i>BoolId</i>	Succeeded (description="Flag for success/failed", quantity="none")
	<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
<i>table dataset</i>	(description="The parameters belonging to the task history")	
	<i>Metadata</i>	
	<i>LongId</i>	TaskID (description="Links the parameter and task table", quantity="none")
	<i>StringId</i>	Name (description="The name of the parameter", quantity="none")
	<i>StringId</i>	Type (description="Type of parameter", quantity="none")
	<i>StringId</i>	Value (description="String representation of the parameter value", quantity="none")
	<i>BoolId</i>	IsDefault (description="True if the default value has been used", quantity="none")
	<i>LongId</i>	IncHistoryId (description="ID of the history of an included product", quantity="none")
	<i>IntId</i>	IncNumTask (description="Number of tasks to include from history", quantity="none")
	<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
	<i>BoolId</i>	UserInput (description="Needs user input", quantity="none")

11.3. SPIRE Level-1 Products

11.3.1. APPP: Averaged Pointed Photometer Product

<i>product (type="APPP", description="Averaged Pointed Photometer Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start Date")
DateParameter	endDate (description="End Date")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
StringParameter	author (description="Author of the Data")
StringParameter	cusMode (description="CUS observation mode")
DoubleParameter	dec (description="Actual Declination of pointing")
DoubleParameter	decNominal (description="Requested Declination of pointing")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")

StringParameter	instMode (description="Instrument mode")
StringParameter	fileName (description="Name of exported file")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	naifId (description="SSO NAIF identifier")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
LongParameter	obsid (description="null")
StringParameter	obsMode (description="null")
LongParameter	odNumber (description="Operational day number")
StringParameter	pointingMode (description="Pointing mode")
DoubleParameter	posAngle (description="Position Angle of pointing")
StringParameter	proposal (description="Proposal name")
DoubleParameter	ra (description="Actual Right Ascension of pointing")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing")
StringParameter	telescope (description="Name of telescope")
StringParameter	subsystem (description="Instrument subsystem")
LongParameter	bbid (description="Building Block Identifier")
StringParameter	source (description="TM source packet name")
DoubleParameter	biasFreq (description="Bias frequency")
LongParameter	denodDropped (description="Number of pixel/jiggle position where a complete ABBA is not found")
LongParameter	rasterId (description="Raster id")
StringParameter	wcsType (description="Type of Coordinate System")
StringParameter	wcsReference (description="Reference of Coordinate System")
BooleanParameter	OpticalCrosstalkCorrectionDone (description="null")
StringParameter	operator (description="null")
LongParameter	denodGlitchNumber (description="null")
DoubleParameter	denodGlitchFraction (description="null")
	<i>table</i> (description="signal")
	<i>dataset</i>
	<i>Metadata</i>
<i>ByteId</i>	jiggId (description="null", quantity="none")
<i>DoubleId</i>	PSWF1 (description="null", quantity="none")
<i>DoubleId</i>	PMWC9 (description="null", quantity="none")
<i>DoubleId</i>	PMWC8 (description="null", quantity="none")
<i>DoubleId</i>	PSWE6 (description="null", quantity="none")
<i>DoubleId</i>	PLWE2 (description="null", quantity="none")
<i>DoubleId</i>	PMWC7 (description="null", quantity="none")
<i>DoubleId</i>	PSWE5 (description="null", quantity="none")
<i>DoubleId</i>	PLWE3 (description="null", quantity="none")
<i>DoubleId</i>	PMWC6 (description="null", quantity="none")

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<i>Double1d</i>	PSWE8 (description="null", quantity="none")
<i>Double1d</i>	PLWE4 (description="null", quantity="none")
<i>Double1d</i>	PMWC5 (description="null", quantity="none")
<i>Double1d</i>	PSWE7 (description="null", quantity="none")
<i>Double1d</i>	PLWE5 (description="null", quantity="none")
<i>Double1d</i>	PLWE6 (description="null", quantity="none")
<i>Double1d</i>	PSWE2 (description="null", quantity="none")
<i>Double1d</i>	PMWC4 (description="null", quantity="none")
<i>Double1d</i>	PLWE7 (description="null", quantity="none")
<i>Double1d</i>	PSWE1 (description="null", quantity="none")
<i>Double1d</i>	PMWC3 (description="null", quantity="none")
<i>Double1d</i>	PLWE8 (description="null", quantity="none")
<i>Double1d</i>	PSWE4 (description="null", quantity="none")
<i>Double1d</i>	PMWC2 (description="null", quantity="none")
<i>Double1d</i>	PSWE3 (description="null", quantity="none")
<i>Double1d</i>	PMWC1 (description="null", quantity="none")
<i>Double1d</i>	PLWE9 (description="null", quantity="none")
<i>Double1d</i>	PSWE9 (description="null", quantity="none")
<i>Double1d</i>	PLWE1 (description="null", quantity="none")
<i>Double1d</i>	PSWG1 (description="null", quantity="none")
<i>Double1d</i>	PSWG2 (description="null", quantity="none")
<i>Double1d</i>	PMWD7 (description="null", quantity="none")
<i>Double1d</i>	PSWF9 (description="null", quantity="none")
<i>Double1d</i>	PLWD3 (description="null", quantity="none")
<i>Double1d</i>	PMWD6 (description="null", quantity="none")
<i>Double1d</i>	PSWF8 (description="null", quantity="none")
<i>Double1d</i>	PLWD4 (description="null", quantity="none")
<i>Double1d</i>	PMWD9 (description="null", quantity="none")
<i>Double1d</i>	PSWF7 (description="null", quantity="none")
<i>Double1d</i>	PLWD1 (description="null", quantity="none")
<i>Double1d</i>	PMWD8 (description="null", quantity="none")
<i>Double1d</i>	PSWF6 (description="null", quantity="none")
<i>Double1d</i>	PLWD2 (description="null", quantity="none")
<i>Double1d</i>	PMWD3 (description="null", quantity="none")
<i>Double1d</i>	PSWF5 (description="null", quantity="none")
<i>Double1d</i>	PLWD7 (description="null", quantity="none")
<i>Double1d</i>	PMWD2 (description="null", quantity="none")
<i>Double1d</i>	PSWF4 (description="null", quantity="none")
<i>Double1d</i>	PLWD8 (description="null", quantity="none")
<i>Double1d</i>	PLWD5 (description="null", quantity="none")
<i>Double1d</i>	PSWF3 (description="null", quantity="none")
<i>Double1d</i>	PMWD5 (description="null", quantity="none")

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<i>Double1d</i>	PLWD6 (description="null", quantity="none")
<i>Double1d</i>	PSWF2 (description="null", quantity="none")
<i>Double1d</i>	PMWD4 (description="null", quantity="none")
<i>Double1d</i>	PMWD1 (description="null", quantity="none")
<i>Double1d</i>	PMWA9 (description="null", quantity="none")
<i>Double1d</i>	PMWA7 (description="null", quantity="none")
<i>Double1d</i>	PMWA8 (description="null", quantity="none")
<i>Double1d</i>	PMWA2 (description="null", quantity="none")
<i>Double1d</i>	PMWA1 (description="null", quantity="none")
<i>Double1d</i>	PSWC2 (description="null", quantity="none")
<i>Double1d</i>	PSWC1 (description="null", quantity="none")
<i>Double1d</i>	PSWC4 (description="null", quantity="none")
<i>Double1d</i>	PMWA6 (description="null", quantity="none")
<i>Double1d</i>	PSWC3 (description="null", quantity="none")
<i>Double1d</i>	PMWB10 (description="null", quantity="none")
<i>Double1d</i>	PMWA5 (description="null", quantity="none")
<i>Double1d</i>	PSWC6 (description="null", quantity="none")
<i>Double1d</i>	PMWA12 (description="null", quantity="none")
<i>Double1d</i>	PMWA4 (description="null", quantity="none")
<i>Double1d</i>	PMWA13 (description="null", quantity="none")
<i>Double1d</i>	PSWC5 (description="null", quantity="none")
<i>Double1d</i>	PMWA3 (description="null", quantity="none")
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<i>Double1d</i>	PMWA10 (description="null", quantity="none")
<i>Double1d</i>	PSWC7 (description="null", quantity="none")
<i>Double1d</i>	PMWA11 (description="null", quantity="none")
<i>Double1d</i>	PMWB11 (description="null", quantity="none")
<i>Double1d</i>	PSWC9 (description="null", quantity="none")
<i>Double1d</i>	PMWB12 (description="null", quantity="none")
<i>Double1d</i>	PMWE13 (description="null", quantity="none")
<i>Double1d</i>	PMWE12 (description="null", quantity="none")
<i>Double1d</i>	PMWE11 (description="null", quantity="none")
<i>Double1d</i>	PMWE10 (description="null", quantity="none")
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<i>Double1d</i>	PMWF12 (description="null", quantity="none")
<i>Double1d</i>	PMWF11 (description="null", quantity="none")
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<i>Double1d</i>	PSWD2 (description="null", quantity="none")
<i>Double1d</i>	PSWD1 (description="null", quantity="none")

SPIRE Observational Products

<i>Double1d</i>	PMWB3 (description="null", quantity="none")
<i>Double1d</i>	PMWB2 (description="null", quantity="none")
<i>Double1d</i>	PSWD7 (description="null", quantity="none")
<i>Double1d</i>	PMWB5 (description="null", quantity="none")
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<i>Double1d</i>	PSWD6 (description="null", quantity="none")
<i>Double1d</i>	PMWB7 (description="null", quantity="none")
<i>Double1d</i>	PSWD5 (description="null", quantity="none")
<i>Double1d</i>	PMWB6 (description="null", quantity="none")
<i>Double1d</i>	PSWD4 (description="null", quantity="none")
<i>Double1d</i>	PSWD9 (description="null", quantity="none")
<i>Double1d</i>	PSWD8 (description="null", quantity="none")
<i>Double1d</i>	PSWJ3 (description="null", quantity="none")
<i>Double1d</i>	PLWA6 (description="null", quantity="none")
<i>Double1d</i>	PSWJ2 (description="null", quantity="none")
<i>Double1d</i>	PLWA7 (description="null", quantity="none")
<i>Double1d</i>	PSWJ5 (description="null", quantity="none")
<i>Double1d</i>	PLWA8 (description="null", quantity="none")
<i>Double1d</i>	PSWJ4 (description="null", quantity="none")
<i>Double1d</i>	PLWA9 (description="null", quantity="none")
<i>Double1d</i>	PSWJ1 (description="null", quantity="none")
<i>Double1d</i>	PLWA1 (description="null", quantity="none")
<i>Double1d</i>	PLWA3 (description="null", quantity="none")
<i>Double1d</i>	PLWA2 (description="null", quantity="none")
<i>Double1d</i>	PLWA5 (description="null", quantity="none")
<i>Double1d</i>	PLWA4 (description="null", quantity="none")
<i>Double1d</i>	PSWJ8 (description="null", quantity="none")
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<i>Double1d</i>	PSWJ6 (description="null", quantity="none")
<i>Double1d</i>	PSWJ7 (description="null", quantity="none")
<i>Double1d</i>	PSWH16 (description="null", quantity="none")
<i>Double1d</i>	PSWD10 (description="null", quantity="none")
<i>Double1d</i>	PSWH15 (description="null", quantity="none")
<i>Double1d</i>	PSWH1 (description="null", quantity="none")
<i>Double1d</i>	PLWC8 (description="null", quantity="none")
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<i>Double1d</i>	PSWH3 (description="null", quantity="none")
<i>Double1d</i>	PSWH2 (description="null", quantity="none")
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<i>Double1d</i>	PSWH13 (description="null", quantity="none")
<i>Double1d</i>	PSWH12 (description="null", quantity="none")

SPIRE Observational Products

<i>Double1d</i>	PSWH11 (description="null", quantity="none")
<i>Double1d</i>	PSWD15 (description="null", quantity="none")
<i>Double1d</i>	PSWG3 (description="null", quantity="none")
<i>Double1d</i>	PLWC5 (description="null", quantity="none")
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<i>Double1d</i>	PSWG4 (description="null", quantity="none")
<i>Double1d</i>	PLWC4 (description="null", quantity="none")
<i>Double1d</i>	PSWG5 (description="null", quantity="none")
<i>Double1d</i>	PLWC7 (description="null", quantity="none")
<i>Double1d</i>	PSWG6 (description="null", quantity="none")
<i>Double1d</i>	PLWC6 (description="null", quantity="none")
<i>Double1d</i>	PSWD11 (description="null", quantity="none")
<i>Double1d</i>	PSWG7 (description="null", quantity="none")
<i>Double1d</i>	PLWC1 (description="null", quantity="none")
<i>Double1d</i>	PSWD12 (description="null", quantity="none")
<i>Double1d</i>	PSWG8 (description="null", quantity="none")
<i>Double1d</i>	PSWD13 (description="null", quantity="none")
<i>Double1d</i>	PSWG9 (description="null", quantity="none")
<i>Double1d</i>	PLWC3 (description="null", quantity="none")
<i>Double1d</i>	PSWD14 (description="null", quantity="none")
<i>Double1d</i>	PLWC2 (description="null", quantity="none")
<i>Double1d</i>	PLWB7 (description="null", quantity="none")
<i>Double1d</i>	PLWB8 (description="null", quantity="none")
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<i>Double1d</i>	PLWB1 (description="null", quantity="none")
<i>Double1d</i>	PSWH8 (description="null", quantity="none")
<i>Double1d</i>	PSWH9 (description="null", quantity="none")
<i>Double1d</i>	PMWF8 (description="null", quantity="none")
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<i>Double1d</i>	PMWF4 (description="null", quantity="none")
<i>Double1d</i>	PMWF5 (description="null", quantity="none")
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<i>Double1d</i>	PMWF2 (description="null", quantity="none")
<i>Double1d</i>	PMWG12 (description="null", quantity="none")
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<i>Double1d</i>	PSWA13 (description="null", quantity="none")
<i>Double1d</i>	PSWA12 (description="null", quantity="none")
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<i>Double1d</i>	PMWE6 (description="null", quantity="none")
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<i>Double1d</i>	PMWE2 (description="null", quantity="none")
<i>Double1d</i>	PSWC10 (description="null", quantity="none")
<i>Double1d</i>	PSWC11 (description="null", quantity="none")
<i>Double1d</i>	PMWD11 (description="null", quantity="none")
<i>Double1d</i>	PMWD12 (description="null", quantity="none")
<i>Double1d</i>	PMWD10 (description="null", quantity="none")
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<i>Double1d</i>	PMWC12 (description="null", quantity="none")
<i>Double1d</i>	PSWE12 (description="null", quantity="none")
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<i>Double1d</i>	PMWC10 (description="null", quantity="none")
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<i>Double1d</i>	PSWG15 (description="null", quantity="none")
<i>Double1d</i>	PMWG6 (description="null", quantity="none")
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<i>Double1d</i>	PMWG4 (description="null", quantity="none")
<i>Double1d</i>	PSWB6 (description="null", quantity="none")
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<i>Double1d</i>	PSWB8 (description="null", quantity="none")
<i>Double1d</i>	PSWB9 (description="null", quantity="none")
<i>Double1d</i>	PSWB1 (description="null", quantity="none")
<i>Double1d</i>	PSWB2 (description="null", quantity="none")
<i>Double1d</i>	PSWB3 (description="null", quantity="none")
<i>Double1d</i>	PSWB4 (description="null", quantity="none")
<i>Double1d</i>	PSWB5 (description="null", quantity="none")
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<i>Double1d</i>	PSWA8 (description="null", quantity="none")
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<i>Double1d</i>	PSWA9 (description="null", quantity="none")
<i>Double1d</i>	PSWB13 (description="null", quantity="none")
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<i>Double1d</i>	PSWA3 (description="null", quantity="none")
<i>Double1d</i>	PSWA4 (description="null", quantity="none")
<i>Double1d</i>	PSWA1 (description="null", quantity="none")
<i>Double1d</i>	PSWA2 (description="null", quantity="none")
<i>Double1d</i>	PSWB12 (description="null", quantity="none")
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<i>Double1d</i>	PSWJ11 (description="null", quantity="none")
<i>Double1d</i>	PSWJ12 (description="null", quantity="none")
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<i>DoubleId</i>	PSWJ14 (description="null", quantity="none")
<i>DoubleId</i>	PSWJ15 (description="null", quantity="none")
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<i>DoubleId</i>	PSWF15 (description="null", quantity="none")
<i>DoubleId</i>	PSWF14 (description="null", quantity="none")
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<i>DoubleId</i>	PMWC7 (description="null", quantity="none")
<i>DoubleId</i>	PSWE5 (description="null", quantity="none")
<i>DoubleId</i>	PLWE3 (description="null", quantity="none")
<i>DoubleId</i>	PMWC6 (description="null", quantity="none")
<i>DoubleId</i>	PSWE8 (description="null", quantity="none")
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<i>DoubleId</i>	PMWC5 (description="null", quantity="none")
<i>DoubleId</i>	PSWE7 (description="null", quantity="none")
<i>DoubleId</i>	PLWE5 (description="null", quantity="none")
<i>DoubleId</i>	PLWE6 (description="null", quantity="none")
<i>DoubleId</i>	PSWE2 (description="null", quantity="none")
<i>DoubleId</i>	PMWC4 (description="null", quantity="none")
<i>DoubleId</i>	PLWE7 (description="null", quantity="none")
<i>DoubleId</i>	PSWE1 (description="null", quantity="none")
<i>DoubleId</i>	PMWC3 (description="null", quantity="none")
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<i>DoubleId</i>	PMWC2 (description="null", quantity="none")
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<i>DoubleId</i>	PSWG1 (description="null", quantity="none")
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SPIRE Observational Products

<i>Double1d</i>	PMWD7 (description="null", quantity="none")
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<i>Double1d</i>	PLWD4 (description="null", quantity="none")
<i>Double1d</i>	PMWD9 (description="null", quantity="none")
<i>Double1d</i>	PSWF7 (description="null", quantity="none")
<i>Double1d</i>	PLWD1 (description="null", quantity="none")
<i>Double1d</i>	PMWD8 (description="null", quantity="none")
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<i>Double1d</i>	PLWD2 (description="null", quantity="none")
<i>Double1d</i>	PMWD3 (description="null", quantity="none")
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<i>Double1d</i>	PSWF4 (description="null", quantity="none")
<i>Double1d</i>	PLWD8 (description="null", quantity="none")
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<i>Double1d</i>	PSWF3 (description="null", quantity="none")
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<i>Double1d</i>	PMWA5 (description="null", quantity="none")
<i>Double1d</i>	PSWC6 (description="null", quantity="none")
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<i>Double1d</i>	PMWA4 (description="null", quantity="none")
<i>Double1d</i>	PMWA13 (description="null", quantity="none")
<i>Double1d</i>	PSWC5 (description="null", quantity="none")

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<i>Double1d</i>	PMWA3 (description="null", quantity="none")
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<i>Double1d</i>	PMWB11 (description="null", quantity="none")
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<i>Double1d</i>	PMWE13 (description="null", quantity="none")
<i>Double1d</i>	PMWE12 (description="null", quantity="none")
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<i>Double1d</i>	PMWE10 (description="null", quantity="none")
<i>Double1d</i>	PMWB8 (description="null", quantity="none")
<i>Double1d</i>	PMWB9 (description="null", quantity="none")
<i>Double1d</i>	PMWF10 (description="null", quantity="none")
<i>Double1d</i>	PMWF12 (description="null", quantity="none")
<i>Double1d</i>	PMWF11 (description="null", quantity="none")
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<i>Double1d</i>	PSWD2 (description="null", quantity="none")
<i>Double1d</i>	PSWD1 (description="null", quantity="none")
<i>Double1d</i>	PMWB3 (description="null", quantity="none")
<i>Double1d</i>	PMWB2 (description="null", quantity="none")
<i>Double1d</i>	PSWD7 (description="null", quantity="none")
<i>Double1d</i>	PMWB5 (description="null", quantity="none")
<i>Double1d</i>	PMWB4 (description="null", quantity="none")
<i>Double1d</i>	PSWD6 (description="null", quantity="none")
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<i>Double1d</i>	PSWD4 (description="null", quantity="none")
<i>Double1d</i>	PSWD9 (description="null", quantity="none")
<i>Double1d</i>	PSWD8 (description="null", quantity="none")
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<i>Double1d</i>	PLWA7 (description="null", quantity="none")
<i>Double1d</i>	PSWJ5 (description="null", quantity="none")
<i>Double1d</i>	PLWA8 (description="null", quantity="none")
<i>Double1d</i>	PSWJ4 (description="null", quantity="none")
<i>Double1d</i>	PLWA9 (description="null", quantity="none")
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<i>Double1d</i>	PLWA1 (description="null", quantity="none")
<i>Double1d</i>	PLWA3 (description="null", quantity="none")
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<i>Double1d</i>	PLWA5 (description="null", quantity="none")
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<i>Double1d</i>	PSWJ9 (description="null", quantity="none")
<i>Double1d</i>	PSWJ6 (description="null", quantity="none")
<i>Double1d</i>	PSWJ7 (description="null", quantity="none")
<i>Double1d</i>	PSWH16 (description="null", quantity="none")
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<i>Double1d</i>	PSWH1 (description="null", quantity="none")
<i>Double1d</i>	PLWC8 (description="null", quantity="none")
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<i>Double1d</i>	PSWH10 (description="null", quantity="none")
<i>Double1d</i>	PSWH14 (description="null", quantity="none")
<i>Double1d</i>	PSWH13 (description="null", quantity="none")
<i>Double1d</i>	PSWH12 (description="null", quantity="none")
<i>Double1d</i>	PSWH11 (description="null", quantity="none")
<i>Double1d</i>	PSWD15 (description="null", quantity="none")
<i>Double1d</i>	PSWG3 (description="null", quantity="none")
<i>Double1d</i>	PLWC5 (description="null", quantity="none")
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<i>Double1d</i>	PLWC4 (description="null", quantity="none")
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<i>Double1d</i>	PSWD11 (description="null", quantity="none")
<i>Double1d</i>	PSWG7 (description="null", quantity="none")
<i>Double1d</i>	PLWC1 (description="null", quantity="none")
<i>Double1d</i>	PSWD12 (description="null", quantity="none")
<i>Double1d</i>	PSWG8 (description="null", quantity="none")
<i>Double1d</i>	PSWD13 (description="null", quantity="none")
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<i>Double1d</i>	PLWC3 (description="null", quantity="none")
<i>Double1d</i>	PSWD14 (description="null", quantity="none")
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SPIRE Observational Products

<i>Double1d</i>	PLWB7 (description="null", quantity="none")
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<i>Double1d</i>	PSWH4 (description="null", quantity="none")
<i>Double1d</i>	PLWB4 (description="null", quantity="none")
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<i>Double1d</i>	PLWB3 (description="null", quantity="none")
<i>Double1d</i>	PLWB2 (description="null", quantity="none")
<i>Double1d</i>	PLWB1 (description="null", quantity="none")
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<i>Double1d</i>	PSWH9 (description="null", quantity="none")
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<i>Double1d</i>	PMWF9 (description="null", quantity="none")
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<i>Double1d</i>	PMWF7 (description="null", quantity="none")
<i>Double1d</i>	PMWF4 (description="null", quantity="none")
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<i>Double1d</i>	PMWG13 (description="null", quantity="none")
<i>Double1d</i>	PMWF2 (description="null", quantity="none")
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<i>Double1d</i>	PMWF1 (description="null", quantity="none")
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<i>Double1d</i>	PSWC12 (description="null", quantity="none")
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<i>Double1d</i>	PSWA12 (description="null", quantity="none")
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SPIRE Observational Products

<i>Double1d</i>	PSWA14 (description="null", quantity="none")
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<i>Double1d</i>	PSWC11 (description="null", quantity="none")
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<i>Double1d</i>	PMWD12 (description="null", quantity="none")
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<i>Double1d</i>	PSWE11 (description="null", quantity="none")
<i>Double1d</i>	PMWC10 (description="null", quantity="none")
<i>Double1d</i>	PSWE10 (description="null", quantity="none")
<i>Double1d</i>	PMWC11 (description="null", quantity="none")
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<i>Double1d</i>	PSWG13 (description="null", quantity="none")
<i>Double1d</i>	PMWG8 (description="null", quantity="none")
<i>Double1d</i>	PSWG10 (description="null", quantity="none")
<i>Double1d</i>	PMWG9 (description="null", quantity="none")
<i>Double1d</i>	PSWG11 (description="null", quantity="none")
<i>Double1d</i>	PMWG1 (description="null", quantity="none")
<i>Double1d</i>	PMWG2 (description="null", quantity="none")
<i>Double1d</i>	PMWG3 (description="null", quantity="none")
<i>Double1d</i>	PMWG4 (description="null", quantity="none")
<i>Double1d</i>	PSWB6 (description="null", quantity="none")
<i>Double1d</i>	PSWB7 (description="null", quantity="none")
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<i>Double1d</i>	PSWB3 (description="null", quantity="none")
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SPIRE Observational Products

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<i>DoubleId</i>	PSWB11 (description="null", quantity="none")
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<i>DoubleId</i>	PSWJ14 (description="null", quantity="none")
<i>DoubleId</i>	PSWJ15 (description="null", quantity="none")
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<i>DoubleId</i>	PSWF16 (description="null", quantity="none")
<i>DoubleId</i>	PSWF15 (description="null", quantity="none")
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SPIRE Observational Products

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<i>Double1d</i>	PSWG2 (description="null", quantity="none")
<i>Double1d</i>	PMWD7 (description="null", quantity="none")
<i>Double1d</i>	PSWF9 (description="null", quantity="none")
<i>Double1d</i>	PLWD3 (description="null", quantity="none")
<i>Double1d</i>	PMWD6 (description="null", quantity="none")
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<i>Double1d</i>	PMWD9 (description="null", quantity="none")
<i>Double1d</i>	PSWF7 (description="null", quantity="none")
<i>Double1d</i>	PLWD1 (description="null", quantity="none")
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SPIRE Observational Products

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SPIRE Observational Products

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<i>Double1d</i>	PSWD16 (description="null", quantity="none")
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<i>Double1d</i>	PSWD11 (description="null", quantity="none")
<i>Double1d</i>	PSWG7 (description="null", quantity="none")
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<i>Double1d</i>	PSWG8 (description="null", quantity="none")
<i>Double1d</i>	PSWD13 (description="null", quantity="none")
<i>Double1d</i>	PSWG9 (description="null", quantity="none")
<i>Double1d</i>	PLWC3 (description="null", quantity="none")
<i>Double1d</i>	PSWD14 (description="null", quantity="none")
<i>Double1d</i>	PLWC2 (description="null", quantity="none")
<i>Double1d</i>	PLWB7 (description="null", quantity="none")
<i>Double1d</i>	PLWB8 (description="null", quantity="none")
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<i>Double1d</i>	PLWB5 (description="null", quantity="none")
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<i>Double1d</i>	PLWB1 (description="null", quantity="none")
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SPIRE Observational Products

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<i>Double1d</i>	PSWA14 (description="null", quantity="none")
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SPIRE Observational Products

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SPIRE Observational Products

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SPIRE Observational Products

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SPIRE Observational Products

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SPIRE Observational Products

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<i>Double1d</i>	PMWC11 (description="null", quantity="none")
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<i>Double1d</i>	PMWC4 (description="null", quantity="none")
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<i>Double1d</i>	PSWD8 (description="null", quantity="none")
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<i>Double1d</i>	PSWB12 (description="null", quantity="none")
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<i>Double1d</i>	PMWD4 (description="null", quantity="none")
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<i>Double1d</i>	PMWE6 (description="null", quantity="none")

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<i>Double1d</i>	PSWA14 (description="null", quantity="none")
<i>Double1d</i>	PMWE1 (description="null", quantity="none")
<i>Double1d</i>	PSWA15 (description="null", quantity="none")
<i>Double1d</i>	PMWE2 (description="null", quantity="none")
<i>Double1d</i>	PSWC10 (description="null", quantity="none")
<i>Double1d</i>	PSWC11 (description="null", quantity="none")
<i>Double1d</i>	PMWD11 (description="null", quantity="none")
<i>Double1d</i>	PMWD12 (description="null", quantity="none")
<i>Double1d</i>	PMWD10 (description="null", quantity="none")
<i>Double1d</i>	PSWE15 (description="null", quantity="none")
<i>Double1d</i>	PSWE14 (description="null", quantity="none")
<i>Double1d</i>	PSWE13 (description="null", quantity="none")
<i>Double1d</i>	PMWC12 (description="null", quantity="none")
<i>Double1d</i>	PSWE12 (description="null", quantity="none")
<i>Double1d</i>	PMWC13 (description="null", quantity="none")
<i>Double1d</i>	PSWE11 (description="null", quantity="none")
<i>Double1d</i>	PMWC10 (description="null", quantity="none")
<i>Double1d</i>	PSWE10 (description="null", quantity="none")
<i>Double1d</i>	PMWC11 (description="null", quantity="none")
<i>Double1d</i>	PSWG14 (description="null", quantity="none")
<i>Double1d</i>	PMWG5 (description="null", quantity="none")
<i>Double1d</i>	PSWG15 (description="null", quantity="none")
<i>Double1d</i>	PMWG6 (description="null", quantity="none")
<i>Double1d</i>	PSWG12 (description="null", quantity="none")
<i>Double1d</i>	PMWG7 (description="null", quantity="none")
<i>Double1d</i>	PSWG13 (description="null", quantity="none")
<i>Double1d</i>	PMWG8 (description="null", quantity="none")
<i>Double1d</i>	PSWG10 (description="null", quantity="none")
<i>Double1d</i>	PMWG9 (description="null", quantity="none")
<i>Double1d</i>	PSWG11 (description="null", quantity="none")
<i>Double1d</i>	PMWG1 (description="null", quantity="none")
<i>Double1d</i>	PMWG2 (description="null", quantity="none")
<i>Double1d</i>	PMWG3 (description="null", quantity="none")
<i>Double1d</i>	PMWG4 (description="null", quantity="none")
<i>Double1d</i>	PSWB6 (description="null", quantity="none")
<i>Double1d</i>	PSWB7 (description="null", quantity="none")
<i>Double1d</i>	PSWB8 (description="null", quantity="none")
<i>Double1d</i>	PSWB9 (description="null", quantity="none")
<i>Double1d</i>	PSWB1 (description="null", quantity="none")
<i>Double1d</i>	PSWB2 (description="null", quantity="none")
<i>Double1d</i>	PSWB3 (description="null", quantity="none")
<i>Double1d</i>	PSWB4 (description="null", quantity="none")

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<i>DoubleId</i>	PSWB5 (description="null", quantity="none")
<i>DoubleId</i>	PSWA7 (description="null", quantity="none")
<i>DoubleId</i>	PSWA8 (description="null", quantity="none")
<i>DoubleId</i>	PSWA5 (description="null", quantity="none")
<i>DoubleId</i>	PSWA6 (description="null", quantity="none")
<i>DoubleId</i>	PSWB15 (description="null", quantity="none")
<i>DoubleId</i>	PSWB16 (description="null", quantity="none")
<i>DoubleId</i>	PSWA9 (description="null", quantity="none")
<i>DoubleId</i>	PSWB13 (description="null", quantity="none")
<i>DoubleId</i>	PSWB14 (description="null", quantity="none")
<i>DoubleId</i>	PSWA3 (description="null", quantity="none")
<i>DoubleId</i>	PSWA4 (description="null", quantity="none")
<i>DoubleId</i>	PSWA1 (description="null", quantity="none")
<i>DoubleId</i>	PSWA2 (description="null", quantity="none")
<i>DoubleId</i>	PSWB12 (description="null", quantity="none")
<i>DoubleId</i>	PSWB11 (description="null", quantity="none")
<i>DoubleId</i>	PSWB10 (description="null", quantity="none")
<i>DoubleId</i>	PSWJ10 (description="null", quantity="none")
<i>DoubleId</i>	PSWJ11 (description="null", quantity="none")
<i>DoubleId</i>	PSWJ12 (description="null", quantity="none")
<i>DoubleId</i>	PSWJ13 (description="null", quantity="none")
<i>DoubleId</i>	PSWJ14 (description="null", quantity="none")
<i>DoubleId</i>	PSWJ15 (description="null", quantity="none")
<i>DoubleId</i>	PSWF12 (description="null", quantity="none")
<i>DoubleId</i>	PSWF11 (description="null", quantity="none")
<i>DoubleId</i>	PSWF10 (description="null", quantity="none")
<i>DoubleId</i>	PSWF16 (description="null", quantity="none")
<i>DoubleId</i>	PSWF15 (description="null", quantity="none")
<i>DoubleId</i>	PSWF14 (description="null", quantity="none")
<i>DoubleId</i>	PSWF13 (description="null", quantity="none")
<i>composite</i>	(description="History of product")
<i>Metadata</i>	
<i>LongParameter</i>	id (description="Unique ID")
<i>table dataset</i>	(description="History as Jython script")
<i>Metadata</i>	
<i>StringParameter</i>	outvar (description="last output variable")
<i>StringId</i>	Lines (description="script lines", quantity="none")
<i>table dataset</i>	(description="History of tasks")
<i>Metadata</i>	
<i>LongId</i>	ID (description="Links the parameter and task table", quantity="none")

<i>StringId</i>	Name (description="The name of the task", quantity="none")
<i>LongId</i>	ExecDate (description="Time of execution (FINETIME)", quantity="none")
<i>BoolId</i>	Succeeded (description="Flag for success/failed", quantity="none")
<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
<i>table dataset</i>	(description="The parameters belonging to the task history")
<i>Metadata</i>	
<i>LongId</i>	TaskID (description="Links the parameter and task table", quantity="none")
<i>StringId</i>	Name (description="The name of the parameter", quantity="none")
<i>StringId</i>	Type (description="Type of parameter", quantity="none")
<i>StringId</i>	Value (description="String representation of the parameter value", quantity="none")
<i>BoolId</i>	IsDefault (description="True if the default value has been used", quantity="none")
<i>LongId</i>	IncHistoryId (description="ID of the history of an included product", quantity="none")
<i>IntId</i>	IncNumTask (description="Number of tasks to include from history", quantity="none")
<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
<i>BoolId</i>	UserInput (description="Needs user input", quantity="none")

11.3.2. PSP: Photometer Scan Product

<i>product (type="PSP", description="Photometer Scan Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
StringParameter	author (description="Author of the Data")
StringParameter	cusMode (description="null")
DoubleParameter	dec (description="Actual Declination of pointing")
DoubleParameter	decNominal (description="Requested Declination of pointing")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	instMode (description="null")
StringParameter	fileName (description="Name of exported file")
StringParameter	missionConfig (description="Mission configuration")

StringParameter	naifId (description="SSO NAIF identifier")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
LongParameter	obsid (description="null")
StringParameter	obsMode (description="null")
LongParameter	odNumber (description="null")
StringParameter	pointingMode (description="Pointing mode")
DoubleParameter	posAngle (description="Position Angle of pointing")
StringParameter	proposal (description="Proposal name")
DoubleParameter	ra (description="Actual Right Ascension of pointing")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing")
StringParameter	telescope (description="Name of telescope")
StringParameter	subsystem (description="Instrument subsystem")
LongParameter	bbid (description="Building Block Identifier")
StringParameter	source (description="TM source packet name")
DoubleParameter	biasFreq (description="Bias frequency")
StringParameter	wcsType (description="Type of Coordinate System")
StringParameter	wcsReference (description="Reference of Coordinate System")
StringParameter	elecSide (description="Electronic side")
StringParameter	bbTypeName (description="Building block type name")
BooleanParameter	adcErr (description="Presence of ADC Latch errors")
BooleanParameter	offsetApp (description="Detector offsets applied")
DoubleParameter	plwBiasAmpl (description="PLW bias amplitude")
DoubleParameter	pmwBiasAmpl (description="PMW bias amplitude")
DoubleParameter	pswBiasAmpl (description="PSW bias amplitude")
DoubleParameter	ptcBiasAmpl (description="PTC bias amplitude")
BooleanParameter	rcRollApp (description="RC roll correction applied")
LongParameter	scanLineNum (description="Nodding ID")
BooleanParameter	ElectricalCrosstalkCorrectionDone (description="null")
LongParameter	maskMaster (description="Mask value for master bit")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time")
LongParameter	maskAdcLatch (description="Mask value for possible ADC latchup error")
LongParameter	maskTruncated (description="Mask value for ADC conversion truncation")
LongParameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation")
LongParameter	maskGlitchDetected (description="Mask value for glitch detected")
LongParameter	maskGlitchNotRemoved (description="Mask value for glitch detected and not removed")
LongParameter	maskDead (description="Mask value for dead channel")
LongParameter	maskNoisy (description="Mask value for noisy channel")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky")

LongParameter	maskVoltageOol (description="Mask value for voltage out of fitted range")
LongParameter	maskGlitchL1Detected (description="Mask value for first level glitch detected")
LongParameter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed")
LongParameter	maskGlitchL2Detected (description="Mask value for second level glitch detected")
LongParameter	maskGlitchL2NotRemoved (description="Mask value for second level glitch detected and not removed")
BooleanParameter	OpticalCrosstalkCorrectionDone (description="null")
<i>table dataset</i>	(description="Mask timelines")
<i>Metadata</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>IntId</i>	PSWR1 (description="PHOTFARRAY001", quantity="")
<i>IntId</i>	PSWD16 (description="PHOTFARRAY002", quantity="")
<i>IntId</i>	PSWT1 (description="PHOTFARRAY003", quantity="")
<i>IntId</i>	PSWB16 (description="PHOTFARRAY004", quantity="")
<i>IntId</i>	PSWC15 (description="PHOTFARRAY005", quantity="")
<i>IntId</i>	PSWA15 (description="PHOTFARRAY006", quantity="")
<i>IntId</i>	PSWD15 (description="PHOTFARRAY007", quantity="")
<i>IntId</i>	PSWB15 (description="PHOTFARRAY008", quantity="")
<i>IntId</i>	PSWC14 (description="PHOTFARRAY009", quantity="")
<i>IntId</i>	PSWD14 (description="PHOTFARRAY010", quantity="")
<i>IntId</i>	PSWA14 (description="PHOTFARRAY011", quantity="")
<i>IntId</i>	PSWA13 (description="PHOTFARRAY012", quantity="")
<i>IntId</i>	PSWB14 (description="PHOTFARRAY013", quantity="")
<i>IntId</i>	PSWC13 (description="PHOTFARRAY014", quantity="")
<i>IntId</i>	PSWB13 (description="PHOTFARRAY015", quantity="")
<i>IntId</i>	PSWD13 (description="PHOTFARRAY016", quantity="")
<i>IntId</i>	PSWA12 (description="PHOTFARRAY017", quantity="")
<i>IntId</i>	PSWC12 (description="PHOTFARRAY018", quantity="")
<i>IntId</i>	PSWD12 (description="PHOTFARRAY019", quantity="")
<i>IntId</i>	PSWB12 (description="PHOTFARRAY020", quantity="")
<i>IntId</i>	PSWE11 (description="PHOTFARRAY021", quantity="")
<i>IntId</i>	PSWA11 (description="PHOTFARRAY022", quantity="")
<i>IntId</i>	PSWC11 (description="PHOTFARRAY023", quantity="")
<i>IntId</i>	PSWB11 (description="PHOTFARRAY024", quantity="")
<i>IntId</i>	PSWE1 (description="PHOTFARRAY025", quantity="")
<i>IntId</i>	PSWF1 (description="PHOTFARRAY026", quantity="")
<i>IntId</i>	PSWT2 (description="PHOTFARRAY027", quantity="")
<i>IntId</i>	PSWH1 (description="PHOTFARRAY028", quantity="")
<i>IntId</i>	PSWG1 (description="PHOTFARRAY029", quantity="")
<i>IntId</i>	PSWJ1 (description="PHOTFARRAY030", quantity="")
<i>IntId</i>	PSWH2 (description="PHOTFARRAY031", quantity="")

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<i>Int1d</i>	PSWF2 (description="PHOTFARRAY032", quantity="")
<i>Int1d</i>	PSWJ2 (description="PHOTFARRAY033", quantity="")
<i>Int1d</i>	PSWG2 (description="PHOTFARRAY034", quantity="")
<i>Int1d</i>	PSWH3 (description="PHOTFARRAY035", quantity="")
<i>Int1d</i>	PSWJ3 (description="PHOTFARRAY036", quantity="")
<i>Int1d</i>	PSWE2 (description="PHOTFARRAY037", quantity="")
<i>Int1d</i>	PSWF3 (description="PHOTFARRAY038", quantity="")
<i>Int1d</i>	PSWG3 (description="PHOTFARRAY039", quantity="")
<i>Int1d</i>	PSWH4 (description="PHOTFARRAY040", quantity="")
<i>Int1d</i>	PSWJ4 (description="PHOTFARRAY041", quantity="")
<i>Int1d</i>	PSWE3 (description="PHOTFARRAY042", quantity="")
<i>Int1d</i>	PSWF4 (description="PHOTFARRAY043", quantity="")
<i>Int1d</i>	PSWG4 (description="PHOTFARRAY044", quantity="")
<i>Int1d</i>	PSWH5 (description="PHOTFARRAY045", quantity="")
<i>Int1d</i>	PSWE4 (description="PHOTFARRAY046", quantity="")
<i>Int1d</i>	PSWJ5 (description="PHOTFARRAY047", quantity="")
<i>Int1d</i>	PSWF5 (description="PHOTFARRAY048", quantity="")
<i>Int1d</i>	PSWD6 (description="PHOTFARRAY049", quantity="")
<i>Int1d</i>	PSWB6 (description="PHOTFARRAY050", quantity="")
<i>Int1d</i>	PSWC5 (description="PHOTFARRAY051", quantity="")
<i>Int1d</i>	PSWA5 (description="PHOTFARRAY052", quantity="")
<i>Int1d</i>	PSWE5 (description="PHOTFARRAY053", quantity="")
<i>Int1d</i>	PSWB5 (description="PHOTFARRAY054", quantity="")
<i>Int1d</i>	PSWD5 (description="PHOTFARRAY055", quantity="")
<i>Int1d</i>	PSWC4 (description="PHOTFARRAY056", quantity="")
<i>Int1d</i>	PSWA4 (description="PHOTFARRAY057", quantity="")
<i>Int1d</i>	PSWD4 (description="PHOTFARRAY058", quantity="")
<i>Int1d</i>	PSWB4 (description="PHOTFARRAY059", quantity="")
<i>Int1d</i>	PSWC3 (description="PHOTFARRAY060", quantity="")
<i>Int1d</i>	PSWB3 (description="PHOTFARRAY061", quantity="")
<i>Int1d</i>	PSWA3 (description="PHOTFARRAY062", quantity="")
<i>Int1d</i>	PSWA2 (description="PHOTFARRAY063", quantity="")
<i>Int1d</i>	PSWD3 (description="PHOTFARRAY064", quantity="")
<i>Int1d</i>	PSWC2 (description="PHOTFARRAY065", quantity="")
<i>Int1d</i>	PSWB2 (description="PHOTFARRAY066", quantity="")
<i>Int1d</i>	PSWD2 (description="PHOTFARRAY067", quantity="")
<i>Int1d</i>	PSWA1 (description="PHOTFARRAY068", quantity="")
<i>Int1d</i>	PSWC1 (description="PHOTFARRAY069", quantity="")
<i>Int1d</i>	PSWB1 (description="PHOTFARRAY070", quantity="")
<i>Int1d</i>	PSWDP1 (description="PHOTFARRAY071", quantity="")
<i>Int1d</i>	PSWD1 (description="PHOTFARRAY072", quantity="")
<i>Int1d</i>	PSWF12 (description="PHOTFARRAY073", quantity="")

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<i>IntId</i>	PSWJ11 (description="PHOTFARRAY074", quantity="")
<i>IntId</i>	PSWE12 (description="PHOTFARRAY075", quantity="")
<i>IntId</i>	PSWH12 (description="PHOTFARRAY076", quantity="")
<i>IntId</i>	PSWG12 (description="PHOTFARRAY077", quantity="")
<i>IntId</i>	PSWF13 (description="PHOTFARRAY078", quantity="")
<i>IntId</i>	PSWE13 (description="PHOTFARRAY079", quantity="")
<i>IntId</i>	PSWJ12 (description="PHOTFARRAY080", quantity="")
<i>IntId</i>	PSWH13 (description="PHOTFARRAY081", quantity="")
<i>IntId</i>	PSWG13 (description="PHOTFARRAY082", quantity="")
<i>IntId</i>	PSWF14 (description="PHOTFARRAY083", quantity="")
<i>IntId</i>	PSWE14 (description="PHOTFARRAY084", quantity="")
<i>IntId</i>	PSWJ13 (description="PHOTFARRAY085", quantity="")
<i>IntId</i>	PSWH14 (description="PHOTFARRAY086", quantity="")
<i>IntId</i>	PSWG14 (description="PHOTFARRAY087", quantity="")
<i>IntId</i>	PSWJ14 (description="PHOTFARRAY088", quantity="")
<i>IntId</i>	PSWF15 (description="PHOTFARRAY089", quantity="")
<i>IntId</i>	PSWH15 (description="PHOTFARRAY090", quantity="")
<i>IntId</i>	PSWJ15 (description="PHOTFARRAY091", quantity="")
<i>IntId</i>	PSWG15 (description="PHOTFARRAY092", quantity="")
<i>IntId</i>	PSWH16 (description="PHOTFARRAY093", quantity="")
<i>IntId</i>	PSWDP2 (description="PHOTFARRAY094", quantity="")
<i>IntId</i>	PSWF16 (description="PHOTFARRAY095", quantity="")
<i>IntId</i>	PSWE15 (description="PHOTFARRAY096", quantity="")
<i>IntId</i>	PSWD11 (description="PHOTFARRAY097", quantity="")
<i>IntId</i>	PSWA10 (description="PHOTFARRAY098", quantity="")
<i>IntId</i>	PSWE10 (description="PHOTFARRAY099", quantity="")
<i>IntId</i>	PSWC10 (description="PHOTFARRAY100", quantity="")
<i>IntId</i>	PSWB10 (description="PHOTFARRAY101", quantity="")
<i>IntId</i>	PSWD10 (description="PHOTFARRAY102", quantity="")
<i>IntId</i>	PSWA9 (description="PHOTFARRAY103", quantity="")
<i>IntId</i>	PSWE9 (description="PHOTFARRAY104", quantity="")
<i>IntId</i>	PSWC9 (description="PHOTFARRAY105", quantity="")
<i>IntId</i>	PSWB9 (description="PHOTFARRAY106", quantity="")
<i>IntId</i>	PSWD9 (description="PHOTFARRAY107", quantity="")
<i>IntId</i>	PSWA8 (description="PHOTFARRAY108", quantity="")
<i>IntId</i>	PSWC8 (description="PHOTFARRAY109", quantity="")
<i>IntId</i>	PSWE8 (description="PHOTFARRAY110", quantity="")
<i>IntId</i>	PSWD8 (description="PHOTFARRAY111", quantity="")
<i>IntId</i>	PSWB8 (description="PHOTFARRAY112", quantity="")
<i>IntId</i>	PSWC7 (description="PHOTFARRAY113", quantity="")
<i>IntId</i>	PSWE7 (description="PHOTFARRAY114", quantity="")
<i>IntId</i>	PSWA7 (description="PHOTFARRAY115", quantity="")

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<i>IntId</i>	PSWD7 (description="PHOTFARRAY116", quantity="")
<i>IntId</i>	PSWB7 (description="PHOTFARRAY117", quantity="")
<i>IntId</i>	PSWC6 (description="PHOTFARRAY118", quantity="")
<i>IntId</i>	PSWE6 (description="PHOTFARRAY119", quantity="")
<i>IntId</i>	PSWA6 (description="PHOTFARRAY120", quantity="")
<i>IntId</i>	PSWG5 (description="PHOTFARRAY121", quantity="")
<i>IntId</i>	PSWH6 (description="PHOTFARRAY122", quantity="")
<i>IntId</i>	PSWJ6 (description="PHOTFARRAY123", quantity="")
<i>IntId</i>	PSWF6 (description="PHOTFARRAY124", quantity="")
<i>IntId</i>	PSWG6 (description="PHOTFARRAY125", quantity="")
<i>IntId</i>	PSWH7 (description="PHOTFARRAY126", quantity="")
<i>IntId</i>	PSWF7 (description="PHOTFARRAY127", quantity="")
<i>IntId</i>	PSWJ7 (description="PHOTFARRAY128", quantity="")
<i>IntId</i>	PSWG7 (description="PHOTFARRAY129", quantity="")
<i>IntId</i>	PSWH8 (description="PHOTFARRAY130", quantity="")
<i>IntId</i>	PSWF8 (description="PHOTFARRAY131", quantity="")
<i>IntId</i>	PSWG8 (description="PHOTFARRAY132", quantity="")
<i>IntId</i>	PSWJ8 (description="PHOTFARRAY133", quantity="")
<i>IntId</i>	PSWF9 (description="PHOTFARRAY134", quantity="")
<i>IntId</i>	PSWH9 (description="PHOTFARRAY135", quantity="")
<i>IntId</i>	PSWG9 (description="PHOTFARRAY136", quantity="")
<i>IntId</i>	PSWJ9 (description="PHOTFARRAY137", quantity="")
<i>IntId</i>	PSWF10 (description="PHOTFARRAY138", quantity="")
<i>IntId</i>	PSWH10 (description="PHOTFARRAY139", quantity="")
<i>IntId</i>	PSWG10 (description="PHOTFARRAY140", quantity="")
<i>IntId</i>	PSWF11 (description="PHOTFARRAY141", quantity="")
<i>IntId</i>	PSWJ10 (description="PHOTFARRAY142", quantity="")
<i>IntId</i>	PSWH11 (description="PHOTFARRAY143", quantity="")
<i>IntId</i>	PSWG11 (description="PHOTFARRAY144", quantity="")
<i>IntId</i>	PLWR1 (description="PHOTFARRAY145", quantity="")
<i>IntId</i>	PLWA8 (description="PHOTFARRAY146", quantity="")
<i>IntId</i>	PLWA7 (description="PHOTFARRAY147", quantity="")
<i>IntId</i>	PLWA6 (description="PHOTFARRAY148", quantity="")
<i>IntId</i>	PLWA9 (description="PHOTFARRAY149", quantity="")
<i>IntId</i>	PLWC9 (description="PHOTFARRAY150", quantity="")
<i>IntId</i>	PLWB8 (description="PHOTFARRAY151", quantity="")
<i>IntId</i>	PLWB7 (description="PHOTFARRAY152", quantity="")
<i>IntId</i>	PLWC7 (description="PHOTFARRAY153", quantity="")
<i>IntId</i>	PLWB5 (description="PHOTFARRAY154", quantity="")
<i>IntId</i>	PLWB6 (description="PHOTFARRAY155", quantity="")
<i>IntId</i>	PLWA5 (description="PHOTFARRAY156", quantity="")
<i>IntId</i>	PLWT1 (description="PHOTFARRAY157", quantity="")

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<i>IntId</i>	PLWB4 (description="PHOTFARRAY158", quantity="")
<i>IntId</i>	PLWC4 (description="PHOTFARRAY159", quantity="")
<i>IntId</i>	PLWB3 (description="PHOTFARRAY160", quantity="")
<i>IntId</i>	PLWC2 (description="PHOTFARRAY161", quantity="")
<i>IntId</i>	PLWB2 (description="PHOTFARRAY162", quantity="")
<i>IntId</i>	PLWB1 (description="PHOTFARRAY163", quantity="")
<i>IntId</i>	PLWA3 (description="PHOTFARRAY164", quantity="")
<i>IntId</i>	PLWA4 (description="PHOTFARRAY165", quantity="")
<i>IntId</i>	PLWA1 (description="PHOTFARRAY166", quantity="")
<i>IntId</i>	PLWDP1 (description="PHOTFARRAY167", quantity="")
<i>IntId</i>	PLWA2 (description="PHOTFARRAY168", quantity="")
<i>IntId</i>	PLWE1 (description="PHOTFARRAY169", quantity="")
<i>IntId</i>	PLWE2 (description="PHOTFARRAY170", quantity="")
<i>IntId</i>	PLWE3 (description="PHOTFARRAY171", quantity="")
<i>IntId</i>	PLWE4 (description="PHOTFARRAY172", quantity="")
<i>IntId</i>	PLWD1 (description="PHOTFARRAY173", quantity="")
<i>IntId</i>	PLWD2 (description="PHOTFARRAY174", quantity="")
<i>IntId</i>	PLWD3 (description="PHOTFARRAY175", quantity="")
<i>IntId</i>	PLWD4 (description="PHOTFARRAY176", quantity="")
<i>IntId</i>	PLWC1 (description="PHOTFARRAY177", quantity="")
<i>IntId</i>	PLWC3 (description="PHOTFARRAY178", quantity="")
<i>IntId</i>	PLWC5 (description="PHOTFARRAY179", quantity="")
<i>IntId</i>	PLWT2 (description="PHOTFARRAY180", quantity="")
<i>IntId</i>	PLWE5 (description="PHOTFARRAY181", quantity="")
<i>IntId</i>	PLWC6 (description="PHOTFARRAY182", quantity="")
<i>IntId</i>	PLWC8 (description="PHOTFARRAY183", quantity="")
<i>IntId</i>	PLWD5 (description="PHOTFARRAY184", quantity="")
<i>IntId</i>	PLWD6 (description="PHOTFARRAY185", quantity="")
<i>IntId</i>	PLWD7 (description="PHOTFARRAY186", quantity="")
<i>IntId</i>	PLWD8 (description="PHOTFARRAY187", quantity="")
<i>IntId</i>	PLWE7 (description="PHOTFARRAY188", quantity="")
<i>IntId</i>	PLWE6 (description="PHOTFARRAY189", quantity="")
<i>IntId</i>	PLWE8 (description="PHOTFARRAY190", quantity="")
<i>IntId</i>	PLWDP2 (description="PHOTFARRAY191", quantity="")
<i>IntId</i>	PLWE9 (description="PHOTFARRAY192", quantity="")
<i>IntId</i>	PMWA13 (description="PHOTFARRAY193", quantity="")
<i>IntId</i>	PMWT1 (description="PHOTFARRAY194", quantity="")
<i>IntId</i>	PMWB12 (description="PHOTFARRAY195", quantity="")
<i>IntId</i>	PMWC13 (description="PHOTFARRAY196", quantity="")
<i>IntId</i>	PMWA12 (description="PHOTFARRAY197", quantity="")
<i>IntId</i>	PMWD12 (description="PHOTFARRAY198", quantity="")
<i>IntId</i>	PMWC12 (description="PHOTFARRAY199", quantity="")

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<i>IntId</i>	PMWB11 (description="PHOTFARRAY200", quantity="")
<i>IntId</i>	PMWA11 (description="PHOTFARRAY201", quantity="")
<i>IntId</i>	PMWE13 (description="PHOTFARRAY202", quantity="")
<i>IntId</i>	PMWD11 (description="PHOTFARRAY203", quantity="")
<i>IntId</i>	PMWC11 (description="PHOTFARRAY204", quantity="")
<i>IntId</i>	PMWB10 (description="PHOTFARRAY205", quantity="")
<i>IntId</i>	PMWA10 (description="PHOTFARRAY206", quantity="")
<i>IntId</i>	PMWD10 (description="PHOTFARRAY207", quantity="")
<i>IntId</i>	PMWB9 (description="PHOTFARRAY208", quantity="")
<i>IntId</i>	PMWC10 (description="PHOTFARRAY209", quantity="")
<i>IntId</i>	PMWC9 (description="PHOTFARRAY210", quantity="")
<i>IntId</i>	PMWA9 (description="PHOTFARRAY211", quantity="")
<i>IntId</i>	PMWB8 (description="PHOTFARRAY212", quantity="")
<i>IntId</i>	PMWA8 (description="PHOTFARRAY213", quantity="")
<i>IntId</i>	PMWD8 (description="PHOTFARRAY214", quantity="")
<i>IntId</i>	PMWC8 (description="PHOTFARRAY215", quantity="")
<i>IntId</i>	PMWB7 (description="PHOTFARRAY216", quantity="")
<i>IntId</i>	PMWR1 (description="PHOTFARRAY217", quantity="")
<i>IntId</i>	PMWG1 (description="PHOTFARRAY218", quantity="")
<i>IntId</i>	PMWT2 (description="PHOTFARRAY219", quantity="")
<i>IntId</i>	PMWE1 (description="PHOTFARRAY220", quantity="")
<i>IntId</i>	PMWD1 (description="PHOTFARRAY221", quantity="")
<i>IntId</i>	PMWF1 (description="PHOTFARRAY222", quantity="")
<i>IntId</i>	PMWE2 (description="PHOTFARRAY223", quantity="")
<i>IntId</i>	PMWG2 (description="PHOTFARRAY224", quantity="")
<i>IntId</i>	PMWF2 (description="PHOTFARRAY225", quantity="")
<i>IntId</i>	PMWG3 (description="PHOTFARRAY226", quantity="")
<i>IntId</i>	PMWE3 (description="PHOTFARRAY227", quantity="")
<i>IntId</i>	PMWD3 (description="PHOTFARRAY228", quantity="")
<i>IntId</i>	PMWF3 (description="PHOTFARRAY229", quantity="")
<i>IntId</i>	PMWG4 (description="PHOTFARRAY230", quantity="")
<i>IntId</i>	PMWE4 (description="PHOTFARRAY231", quantity="")
<i>IntId</i>	PMWF4 (description="PHOTFARRAY232", quantity="")
<i>IntId</i>	PMWE5 (description="PHOTFARRAY233", quantity="")
<i>IntId</i>	PMWD5 (description="PHOTFARRAY234", quantity="")
<i>IntId</i>	PMWF5 (description="PHOTFARRAY235", quantity="")
<i>IntId</i>	PMWG5 (description="PHOTFARRAY236", quantity="")
<i>IntId</i>	PMWE6 (description="PHOTFARRAY237", quantity="")
<i>IntId</i>	PMWG6 (description="PHOTFARRAY238", quantity="")
<i>IntId</i>	PMWF6 (description="PHOTFARRAY239", quantity="")
<i>IntId</i>	PMWG7 (description="PHOTFARRAY240", quantity="")
<i>IntId</i>	PMWF10 (description="PHOTFARRAY241", quantity="")

<i>IntId</i>	PMWE11 (description="PHOTFARRAY242", quantity="")
<i>IntId</i>	PMWG11 (description="PHOTFARRAY243", quantity="")
<i>IntId</i>	PMWF11 (description="PHOTFARRAY244", quantity="")
<i>IntId</i>	PMWE12 (description="PHOTFARRAY245", quantity="")
<i>IntId</i>	PMWG12 (description="PHOTFARRAY246", quantity="")
<i>IntId</i>	PMWF12 (description="PHOTFARRAY247", quantity="")
<i>IntId</i>	PMWG13 (description="PHOTFARRAY248", quantity="")
<i>IntId</i>	PMWDP2 (description="PHOTFARRAY249", quantity="")
<i>IntId</i>	PMWE7 (description="PHOTFARRAY250", quantity="")
<i>IntId</i>	PMWD7 (description="PHOTFARRAY251", quantity="")
<i>IntId</i>	PMWF7 (description="PHOTFARRAY252", quantity="")
<i>IntId</i>	PMWE8 (description="PHOTFARRAY253", quantity="")
<i>IntId</i>	PMWG8 (description="PHOTFARRAY254", quantity="")
<i>IntId</i>	PMWF8 (description="PHOTFARRAY255", quantity="")
<i>IntId</i>	PMWE9 (description="PHOTFARRAY256", quantity="")
<i>IntId</i>	PMWG9 (description="PHOTFARRAY257", quantity="")
<i>IntId</i>	PMWD9 (description="PHOTFARRAY258", quantity="")
<i>IntId</i>	PMWF9 (description="PHOTFARRAY259", quantity="")
<i>IntId</i>	PMWE10 (description="PHOTFARRAY260", quantity="")
<i>IntId</i>	PMWG10 (description="PHOTFARRAY261", quantity="")
<i>IntId</i>	PMWC4 (description="PHOTFARRAY262", quantity="")
<i>IntId</i>	PMWB3 (description="PHOTFARRAY263", quantity="")
<i>IntId</i>	PMWC3 (description="PHOTFARRAY264", quantity="")
<i>IntId</i>	PMWB2 (description="PHOTFARRAY265", quantity="")
<i>IntId</i>	PMWD2 (description="PHOTFARRAY266", quantity="")
<i>IntId</i>	PMWA3 (description="PHOTFARRAY267", quantity="")
<i>IntId</i>	PMWA2 (description="PHOTFARRAY268", quantity="")
<i>IntId</i>	PMWC2 (description="PHOTFARRAY269", quantity="")
<i>IntId</i>	PMWB1 (description="PHOTFARRAY270", quantity="")
<i>IntId</i>	PMWA1 (description="PHOTFARRAY271", quantity="")
<i>IntId</i>	PMWDP1 (description="PHOTFARRAY272", quantity="")
<i>IntId</i>	PMWC1 (description="PHOTFARRAY273", quantity="")
<i>IntId</i>	PMWA7 (description="PHOTFARRAY274", quantity="")
<i>IntId</i>	PMWA6 (description="PHOTFARRAY275", quantity="")
<i>IntId</i>	PMWB6 (description="PHOTFARRAY276", quantity="")
<i>IntId</i>	PMWC7 (description="PHOTFARRAY277", quantity="")
<i>IntId</i>	PMWA5 (description="PHOTFARRAY278", quantity="")
<i>IntId</i>	PMWB5 (description="PHOTFARRAY279", quantity="")
<i>IntId</i>	PMWC6 (description="PHOTFARRAY280", quantity="")
<i>IntId</i>	PMWD6 (description="PHOTFARRAY281", quantity="")
<i>IntId</i>	PMWB4 (description="PHOTFARRAY282", quantity="")
<i>IntId</i>	PMWC5 (description="PHOTFARRAY283", quantity="")

<i>IntId</i>	PMWD4 (description="PHOTFARRAY284", quantity="")
<i>IntId</i>	PMWA4 (description="PHOTFARRAY285", quantity="")
<i>IntId</i>	PTCP1 (description="PHOTFARRAY286", quantity="")
<i>IntId</i>	PTCP2 (description="PHOTFARRAY287", quantity="")
<i>IntId</i>	PTCP3 (description="PHOTFARRAY288", quantity="")
<i>table dataset</i>	(description="Quality control metric quantities")
<i>Metadata</i>	
<i>StringId</i>	channelName (description="Channel name", quantity="")
<i>FloatId</i>	adcErrors (description="Fraction of ADC errors", quantity="")
<i>FloatId</i>	truncation (description="Fraction of out of range values", quantity="")
<i>composite</i>	(description="History of product")
<i>Metadata</i>	
<i>LongParameter</i>	id (description="Unique ID")
<i>table dataset</i>	(description="History as Jython script")
<i>Metadata</i>	
<i>StringParameter</i>	outvar (description="last output variable")
<i>StringId</i>	Lines (description="script lines", quantity="none")
<i>table dataset</i>	(description="History of tasks")
<i>Metadata</i>	
<i>LongId</i>	ID (description="Links the parameter and task table", quantity="none")
<i>StringId</i>	Name (description="The name of the task", quantity="none")
<i>LongId</i>	ExecDate (description="Time of execution (FINETIME)", quantity="none")
<i>BoolId</i>	Succeeded (description="Flag for success/failed", quantity="none")
<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
<i>table dataset</i>	(description="The parameters belonging to the task history")
<i>Metadata</i>	
<i>LongId</i>	TaskID (description="Links the parameter and task table", quantity="none")
<i>StringId</i>	Name (description="The name of the parameter", quantity="none")
<i>StringId</i>	Type (description="Type of parameter", quantity="none")
<i>StringId</i>	Value (description="String representation of the parameter value", quantity="none")
<i>BoolId</i>	IsDefault (description="True if the default value has been used", quantity="none")
<i>LongId</i>	IncHistoryId (description="ID of the history of an included product", quantity="none")
<i>IntId</i>	IncNumTask (description="Number of tasks to include from history", quantity="none")
<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
<i>BoolId</i>	UserInput (description="Needs user input", quantity="none")

<i>table</i>	(<i>description="Temperature"</i>)
<i>dataset</i>	
<i>Metadata</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>FloatId</i>	PSWT1 (description="Thermistor temperature", quantity="K")
<i>FloatId</i>	PSWT2 (description="Thermistor temperature", quantity="K")
<i>FloatId</i>	PLWT1 (description="Thermistor temperature", quantity="K")
<i>FloatId</i>	PLWT2 (description="Thermistor temperature", quantity="K")
<i>FloatId</i>	PMWT1 (description="Thermistor temperature", quantity="K")
<i>FloatId</i>	PMWT2 (description="Thermistor temperature", quantity="K")
<i>table</i>	(<i>description="Voltages table"</i>)
<i>dataset</i>	
<i>Metadata</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>DoubleId</i>	PSWR1 (description="null", quantity="V")
<i>DoubleId</i>	PSWD16 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PSWT1 (description="null", quantity="V")
<i>DoubleId</i>	PSWB16 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PSWC15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PSWA15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PSWD15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PSWB15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PSWC14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PSWD14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PSWA14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PSWA13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PSWB14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PSWC13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PSWB13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PSWD13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PSWA12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PSWC12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PSWD12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PSWB12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PSWE11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PSWA11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PSWC11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PSWB11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PSWE1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PSWF1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PSWT2 (description="null", quantity="V")
<i>DoubleId</i>	PSWH1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")

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<i>Double1d</i>	PSWC7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWE7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWC6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWE6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWR1 (description="null", quantity="V")
<i>Double1d</i>	PLWA8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWB8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWB7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWB5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")

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<i>Double1d</i>	PLWB6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWT1 (description="null", quantity="V")
<i>Double1d</i>	PLWB4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWB3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWB2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWB1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWDP1 (description="null", quantity="V")
<i>Double1d</i>	PLWA2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWE1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWE2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWE3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWE4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWT2 (description="null", quantity="V")
<i>Double1d</i>	PLWE5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWE7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWE6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWE8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWDP2 (description="null", quantity="V")
<i>Double1d</i>	PLWE9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWT1 (description="null", quantity="V")
<i>Double1d</i>	PMWB12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWC13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")

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<i>Double1d</i>	PMWF6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWDP2 (description="null", quantity="V")
<i>Double1d</i>	PMWE7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWD7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWD9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWC4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWB3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWC3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWB2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWD2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWC2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWB1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWDP1 (description="null", quantity="V")
<i>Double1d</i>	PMWC1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWB6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWC7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWB5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWC6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")

<i>DoubleId</i>	PMWD6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWB4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWC5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWD4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWA4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PTCP1 (description="null", quantity="V")
<i>DoubleId</i>	PTCP2 (description="null", quantity="V")
<i>DoubleId</i>	PTCP3 (description="null", quantity="V")
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<i>DoubleId</i>	PSWF1 (description="Right Ascension", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PMWC9 (description="Right Ascension", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PMWC8 (description="Right Ascension", quantity="degree [0.017453292519943295 rad])
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<i>DoubleId</i>	PMWC7 (description="Right Ascension", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PSWE5 (description="Right Ascension", quantity="degree [0.017453292519943295 rad])
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<i>DoubleId</i>	PMWC4 (description="Right Ascension", quantity="degree [0.017453292519943295 rad])
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<i>DoubleId</i>	PSWF10 (description="Right Ascension", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PSWF16 (description="Right Ascension", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PSWF15 (description="Right Ascension", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PSWF14 (description="Right Ascension", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PSWF13 (description="Right Ascension", quantity="degree [0.017453292519943295 rad])
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<i>Metadata</i>	
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<i>DoubleId</i>	PMWC8 (description="Declination", quantity="degree [0.017453292519943295 rad])
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<i>DoubleId</i>	PLWE2 (description="Declination", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PMWC7 (description="Declination", quantity="degree [0.017453292519943295 rad])
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<i>DoubleId</i>	PSWC3 (description="Declination", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PMWA4 (description="Declination", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PMWA12 (description="Declination", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PSWC6 (description="Declination", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PMWA3 (description="Declination", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PSWC5 (description="Declination", quantity="degree [0.017453292519943295 rad])
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<i>DoubleId</i>	PSWC7 (description="Declination", quantity="degree [0.017453292519943295 rad])
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<i>DoubleId</i>	PMWB12 (description="Declination", quantity="degree [0.017453292519943295 rad])
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<i>DoubleId</i>	PSWD2 (description="Declination", quantity="degree [0.017453292519943295 rad])")
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<i>DoubleId</i>	PSWD8 (description="Declination", quantity="degree [0.017453292519943295 rad])")
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<i>DoubleId</i>	PSWJ9 (description="Declination", quantity="degree [0.017453292519943295 rad])")
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<i>DoubleId</i>	PLWC8 (description="Declination", quantity="degree [0.017453292519943295 rad])")
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<i>DoubleId</i>	PSWH14 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWH13 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWH12 (description="Declination", quantity="degree [0.017453292519943295 rad])")
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<i>DoubleId</i>	PSWD15 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWG3 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PLWC5 (description="Declination", quantity="degree [0.017453292519943295 rad])")
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<i>DoubleId</i>	PLWC7 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWG6 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PLWC6 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWD11 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWG7 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PLWC1 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWD12 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWG8 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWD13 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWG9 (description="Declination", quantity="degree [0.017453292519943295 rad])")

<i>DoubleId</i>	PLWC3 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWD14 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PLWC2 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PLWR1 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PLWB7 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PLWB8 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PMWT1 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWH6 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PLWB6 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWH7 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PLWB5 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PMWT2 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWH4 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PLWB4 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWH5 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PLWB3 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PLWB2 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PLWB1 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWH8 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWH9 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PMWF8 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PMWF9 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PMWF6 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PMWF7 (description="Declination", quantity="degree [0.017453292519943295 rad])")

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<i>DoubleId</i>	PMWF4 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PMWF5 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PMWG13 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PMWF2 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PMWG12 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PMWF3 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PMWG11 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PMWG10 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PMWF1 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWC15 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWC14 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWC13 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWC12 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWA13 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWA12 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWA11 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWA10 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PMWE7 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PMWE8 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PMWE9 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PMWE3 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PMWE4 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PMWE5 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PMWE6 (description="Declination", quantity="degree [0.017453292519943295 rad])")

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<i>DoubleId</i>	PMWE1 (description="Declination", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PSWA14 (description="Declination", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PMWE2 (description="Declination", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PSWA15 (description="Declination", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PSWC10 (description="Declination", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PSWC11 (description="Declination", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PLWDP1 (description="Declination", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PLWDP2 (description="Declination", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PMWD11 (description="Declination", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PMWD12 (description="Declination", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PMWD10 (description="Declination", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PSWE15 (description="Declination", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PSWE14 (description="Declination", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PMWC12 (description="Declination", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PSWE13 (description="Declination", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PMWC13 (description="Declination", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PSWDP2 (description="Declination", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PSWE12 (description="Declination", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PMWC10 (description="Declination", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PSWDP1 (description="Declination", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PSWE11 (description="Declination", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PMWC11 (description="Declination", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PSWE10 (description="Declination", quantity="degree [0.017453292519943295 rad])
<i>DoubleId</i>	PMWG5 (description="Declination", quantity="degree [0.017453292519943295 rad])

<i>DoubleId</i>	PSWG14 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PMWG6 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWG15 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PMWG7 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWG12 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PMWG8 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWG13 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PMWG9 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWG10 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWG11 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PMWG1 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PMWG2 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PMWG3 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PMWG4 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWB6 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWB7 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWB8 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWB9 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWB1 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PTCP1 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWB2 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PTCP2 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWB3 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PTCP3 (description="Declination", quantity="degree [0.017453292519943295 rad])")

<i>DoubleId</i>	PSWB4 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWB5 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWR1 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWA7 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWA8 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWA5 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWA6 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWB15 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWB16 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWB13 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWA9 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWB14 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWA3 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWA4 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWA1 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWA2 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWB12 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWB11 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWB10 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWJ10 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWJ11 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWJ12 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWJ13 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWJ14 (description="Declination", quantity="degree [0.017453292519943295 rad])")

<i>DoubleId</i>	PSWJ15 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWF12 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWF11 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWF10 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWF16 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWF15 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWF14 (description="Declination", quantity="degree [0.017453292519943295 rad])")
<i>DoubleId</i>	PSWF13 (description="Declination", quantity="degree [0.017453292519943295 rad])")

11.3.3. SDI: Spectrometer Detector Interferogram

<i>product (type="SDI", description="Spectrometer Detector Interferogram")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
StringParameter	author (description="Author of the Data")
StringParameter	cusMode (description="CUS observation mode")
DoubleParameter	dec (description="Actual Declination of pointing")
DoubleParameter	decNominal (description="Requested Declination of pointing")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	instMode (description="Instrument mode")
StringParameter	fileName (description="file name for export")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	naifId (description="SSO NAIF identifier")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
LongParameter	obsid (description="Observation Identifier")
StringParameter	obsMode (description="Observing mode")

LongParameter	odNumber (description="Operational day number")
StringParameter	pointingMode (description="Pointing mode")
DoubleParameter	posAngle (description="Position Angle of pointing")
StringParameter	proposal (description="Proposal name")
DoubleParameter	ra (description="Actual Right Ascension of pointing")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing")
StringParameter	telescope (description="Name of telescope")
StringParameter	subsystem (description="Instrument subsystem")
LongParameter	bbid (description="Building Block Identifier")
StringParameter	source (description="TM source packet name")
LongParameter	numScans (description="Number of scans")
StringParameter	commandedResolution (description="Commanded Spectral Resolution")
<i>composite</i>	(description="null")
<i>Metadata</i>	
LongParameter	count (description="Scan Number")
LongParameter	scanNumber (description="Scan Number")
StringParameter	scanDir (description="Scan Direction")
<i>table dataset</i>	(description="null")
<i>Metadata</i>	
StringParameter	pixelName (description="null")
LongParameter	pixelId (description="null")
<i>DoubleId</i>	signal (description="null", quantity="V")
<i>DoubleId</i>	opd (description="null", quantity="cm [0.01 m]")
<i>DoubleId</i>	errorSig (description="null", quantity="V")
<i>DoubleId</i>	errorOpd (description="null", quantity="cm [0.01 m]")
<i>IntId</i>	mask (description="null", quantity="none")
<i>table dataset</i>	(description="null")
<i>Metadata</i>	
StringParameter	pixelName (description="null")
LongParameter	pixelId (description="null")
<i>DoubleId</i>	signal (description="null", quantity="V")
<i>DoubleId</i>	opd (description="null", quantity="cm [0.01 m]")
<i>DoubleId</i>	errorSig (description="null", quantity="V")
<i>DoubleId</i>	errorOpd (description="null", quantity="cm [0.01 m]")
<i>IntId</i>	mask (description="null", quantity="none")
<i>table dataset</i>	(description="null")
<i>Metadata</i>	
StringParameter	pixelName (description="null")

	LongParameter	pixelId (description="null")
	DoubleId	signal (description="null", quantity="V")
	DoubleId	opd (description="null", quantity="cm [0.01 m]")
	DoubleId	errorSig (description="null", quantity="V")
	DoubleId	errorOpd (description="null", quantity="cm [0.01 m]")
	IntId	mask (description="null", quantity="none")
<i>table dataset</i> (description="null")		
<i>Metadata</i>		
	StringParameter	pixelName (description="null")
	LongParameter	pixelId (description="null")
	DoubleId	signal (description="null", quantity="V")
	DoubleId	opd (description="null", quantity="cm [0.01 m]")
	DoubleId	errorSig (description="null", quantity="V")
	DoubleId	errorOpd (description="null", quantity="cm [0.01 m]")
	IntId	mask (description="null", quantity="none")

11.3.4. SDS: Spectrometer Detector Spectrum

<i>product (type="SDS", description="Spectrometer Detector Spectrum")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
StringParameter	author (description="Author of the Data")
StringParameter	cusMode (description="CUS observation mode")
DoubleParameter	dec (description="Actual Declination of pointing")
DoubleParameter	decNominal (description="Requested Declination of pointing")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	instMode (description="Instrument mode")
StringParameter	fileName (description="file name for export")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	naifId (description="SSO NAIF identifier")
StringParameter	object (description="Target name")

StringParameter	observer (description="Observer name")
LongParameter	obsid (description="Observation identifier")
StringParameter	obsMode (description="Observing mode")
LongParameter	odNumber (description="Operational day number")
StringParameter	pointingMode (description="Pointing mode")
DoubleParameter	posAngle (description="Position Angle of pointing")
StringParameter	proposal (description="Proposal name")
DoubleParameter	ra (description="Actual Right Ascension of pointing")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing")
StringParameter	telescope (description="Name of telescope")
StringParameter	subsystem (description="Instrument subsystem")
LongParameter	bbid (description="Building Block Identifier")
LongParameter	numScans (description="Number of Scans")
DoubleParameter	resolution (description="Resolution element")
DoubleParameter	actualResolution (description="Actual Spectral Resolution")
StringParameter	commandedResolution (description="Commanded Spectral Resolution")
StringParameter	source (description="TM source packet name")
StringParameter	bbTypeName (description="Building block type name")
BooleanParameter	offsetApp (description="Detector offsets applied")
BooleanParameter	rcRollApp (description="RC roll correction applied")
DoubleParameter	biasFreq (description="Bias frequency")
<i>composite</i> (description="null")	
<i>Metadata</i>	
LongParameter	count (description="Interferogram Number")
StringParameter	scanDir (description="Scan Direction")
LongParameter	scanNumber (description="Scan Number")
DoubleParameter	resolution (description="Resolution")
<i>table dataset</i> (description="null")	
<i>Metadata</i>	
StringParameter	pixelName (description="null")
<i>Double1d</i>	wavenumber (description="null", quantity="cm-1 [100.0 m-1]")
<i>Complex1d</i>	flux (description="null", quantity="V")
<i>Double1d</i>	error (description="null", quantity="V")
<i>Int1d</i>	mask (description="null", quantity="none")

11.4. SPIRE Level-2 Products

11.4.1. JPP: Jiggled Photometer Product

<i>product</i> (type="JPP", description="Jiggled Photometer Product")	
<i>Metadata</i>	

StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start Date")
DateParameter	endDate (description="End Date")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
StringParameter	author (description="Author of the Data")
StringParameter	cusMode (description="CUS observation mode")
DoubleParameter	dec (description="Actual Declination of pointing")
DoubleParameter	decNominal (description="Requested Declination of pointing")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	instMode (description="Instrument mode")
StringParameter	fileName (description="file name for export")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	naifId (description="SSO NAIF identifier")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
LongParameter	obsid (description="null")
StringParameter	obsMode (description="null")
LongParameter	odNumber (description="Operational day number")
StringParameter	pointingMode (description="Pointing mode")
DoubleParameter	posAngle (description="Position Angle of pointing")
StringParameter	proposal (description="Proposal name")
DoubleParameter	ra (description="Actual Right Ascension of pointing")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing")
StringParameter	telescope (description="Name of telescope")
StringParameter	subsystem (description="Instrument subsystem")
LongParameter	denodDropped (description="Number of pixel/jiggle position where a complete ABBA is not found")
StringParameter	wcsType (description="Type of Coordinate System")
StringParameter	wcsReference (description="Reference of Coordinate System")
LongParameter	bbid (description="Building Block Identifier")
StringParameter	source (description="TM source packet name")
DoubleParameter	biasFreq (description="Bias frequency")
LongParameter	rasterId (description="Raster id")
BooleanParameter	OpticalCrosstalkCorrectionDone (description="null")
LongParameter	denodGlitchNumber (description="null")

DoubleParameter	denodGlitchFraction (description="null")
LongParameter	nFitsPSW (description="null")
LongParameter	nFitsPMW (description="null")
LongParameter	nFitsPLW (description="null")
DoubleParameter	fluxDiffPsw (description="null")
DoubleParameter	fluxDiffPmw (description="null")
DoubleParameter	fluxDiffPlw (description="null")
DoubleParameter	latDiffPswPmw (description="null")
DoubleParameter	lonDiffPswPmw (description="null")
DoubleParameter	latDiffPswPlw (description="null")
DoubleParameter	lonDiffPswPlw (description="null")
DoubleParameter	latDiffPmwPlw (description="null")
DoubleParameter	lonDiffPmwPlw (description="null")
<i>table dataset</i>	(description="Contents")
<i>Metadata</i>	
<i>StringId</i>	arrayName (description="null", quantity="none")
<i>DoubleId</i>	lon (description="null", quantity="none")
<i>DoubleId</i>	errLon (description="null", quantity="none")
<i>DoubleId</i>	lat (description="null", quantity="none")
<i>DoubleId</i>	errLat (description="null", quantity="none")
<i>DoubleId</i>	signal (description="null", quantity="none")
<i>DoubleId</i>	error (description="null", quantity="none")
<i>composite</i>	(description="History of product")
<i>Metadata</i>	
LongParameter	id (description="Unique ID")
<i>table dataset</i>	(description="History as Jython script")
<i>Metadata</i>	
StringParameter	outvar (description="last output variable")
<i>StringId</i>	Lines (description="script lines", quantity="none")
<i>table dataset</i>	(description="History of tasks")
<i>Metadata</i>	
<i>LongId</i>	ID (description="Links the parameter and task table", quantity="none")
<i>StringId</i>	Name (description="The name of the task", quantity="none")
<i>LongId</i>	ExecDate (description="Time of execution (FINETIME)", quantity="none")
<i>BoolId</i>	Succeeded (description="Flag for success/failed", quantity="none")
<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
<i>table dataset</i>	(description="The parameters belonging to the task history")
<i>Metadata</i>	
<i>LongId</i>	TaskID (description="Links the parameter and task table", quantity="none")
<i>StringId</i>	Name (description="The name of the parameter", quantity="none")

<i>StringId</i>	Type (description="Type of parameter", quantity="none")
<i>StringId</i>	Value (description="String representation of the parameter value", quantity="none")
<i>BoolId</i>	IsDefault (description="True if the default value has been used", quantity="none")
<i>LongId</i>	IncHistoryId (description="ID of the history of an included product", quantity="none")
<i>IntId</i>	IncNumTask (description="Number of tasks to include from history", quantity="none")
<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
<i>BoolId</i>	UserInput (description="Needs user input", quantity="none")

11.4.2. PMP: PSW map

<i>product</i> (type="PMP", description="PSW map")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken")
StringParameter	aorLabel (description="AOR Label as entered in HSpot")
StringParameter	aot (description="AOT Identifier")
StringParameter	author (description="Author of the Data")
StringParameter	cusMode (description="CUS observation mode")
DoubleParameter	dec (description="Actual Declination of pointing")
DoubleParameter	decNominal (description="Requested Declination of pointing")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
StringParameter	instMode (description="Instrument mode")
StringParameter	missionConfig (description="Mission configuration")
StringParameter	naifId (description="SSO NAIF identifier")
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
LongParameter	obsid (description="null")
StringParameter	obsMode (description="null")
LongParameter	odNumber (description="Operational day number")
StringParameter	pointingMode (description="Pointing mode")
DoubleParameter	posAngle (description="Position Angle of pointing")
StringParameter	proposal (description="Proposal name")

DoubleParameter	ra (description="Actual Right Ascension of pointing")
StringParameter	raDeSys (description="Coordinate reference frame for the RA and DEC")
DoubleParameter	raNominal (description="Requested Right Ascension of pointing")
StringParameter	telescope (description="Name of telescope")
BooleanParameter	isFailedPSW (description="Flag indicating that the PSW map could not be produced.")
<i>array</i> <i>dataset</i>	(description="Image")
<i>Metadata</i>	
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR")
DoubleParameter	epoch (description="WCS: Epoch, unit=Duration")
DoubleParameter	crota2 (description="The Rotation angle")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
<i>Double2d</i>	(description="Image", quantity="none")
<i>array</i> <i>dataset</i>	(description="Statistical error on the pixel values")
<i>Metadata</i>	
<i>Double2d</i>	(description="Statistical error on the pixel values", quantity="none")
<i>array</i> <i>dataset</i>	(description="Exposure")
<i>Metadata</i>	
<i>Double2d</i>	(description="Exposure", quantity="s")
<i>composite</i>	(description="History of product")
<i>Metadata</i>	
LongParameter	id (description="Unique ID")
<i>table dataset</i>	(description="History as Jython script")
<i>Metadata</i>	
StringParameter	outvar (description="last output variable")
<i>StringId</i>	Lines (description="script lines", quantity="none")
<i>table dataset</i>	(description="History of tasks")
<i>Metadata</i>	
<i>LongId</i>	ID (description="Links the parameter and task table", quantity="none")
<i>StringId</i>	Name (description="The name of the task", quantity="none")
<i>LongId</i>	ExecDate (description="Time of execution (FINETIME)", quantity="none")
<i>BoolId</i>	Succeeded (description="Flag for success/failed", quantity="none")
<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")

<i>table dataset</i>	(description="The parameters belonging to the task history")		
<i>Metadata</i>			
<i>LongId</i>	TaskID	(description="Links the parameter and task table", quantity="none")	
<i>StringId</i>	Name	(description="The name of the parameter", quantity="none")	
<i>StringId</i>	Type	(description="Type of parameter", quantity="none")	
<i>StringId</i>	Value	(description="String representation of the parameter value", quantity="none")	
<i>BoolId</i>	IsDefault	(description="True if the default value has been used", quantity="none")	
<i>LongId</i>	IncHistoryId	(description="ID of the history of an included product", quantity="none")	
<i>IntId</i>	IncNumTask	(description="Number of tasks to include from history", quantity="none")	
<i>LongId</i>	HistoryId	(description="Id of current history", quantity="none")	
<i>BoolId</i>	UserInput	(description="Needs user input", quantity="none")	

Chapter 12. SPIRE Calibration Products

12.1. SPIRE Calibration History Products

12.1.1. SCalResetHist

<i>product</i> (type="SCalResetHist", description="DPU Counter Reset History Table")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	version (description="Version")
<i>table dataset</i>	(description="DPU reset times")
<i>Metadata</i>	
<i>LongId</i>	resetTime (description="DPU counter reset time (in CUC format)", quantity="")
<i>composite</i>	(description="History of product")
<i>Metadata</i>	
LongParameter	id (description="Unique ID")
<i>table dataset</i>	(description="History as Jython script")
<i>Metadata</i>	
StringParameter	outvar (description="last output variable")
<i>StringId</i>	Lines (description="script lines", quantity="none")
<i>table dataset</i>	(description="History of tasks")
<i>Metadata</i>	
<i>LongId</i>	ID (description="Links the parameter and task table", quantity="none")
<i>StringId</i>	Name (description="The name of the task", quantity="none")
<i>LongId</i>	ExecDate (description="Time of execution (FINETIME)", quantity="none")
<i>BoolId</i>	Succeeded (description="Flag for success/failed", quantity="none")
<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
<i>table dataset</i>	(description="The parameters belonging to the task history")
<i>Metadata</i>	
<i>LongId</i>	TaskID (description="Links the parameter and task table", quantity="none")

<i>StringId</i>	Name (description="The name of the parameter", quantity="none")
<i>StringId</i>	Type (description="Type of parameter", quantity="none")
<i>StringId</i>	Value (description="String representation of the parameter value", quantity="none")
<i>BoolId</i>	IsDefault (description="True if the default value has been used", quantity="none")
<i>LongId</i>	IncHistoryId (description="ID of the history of an included product", quantity="none")
<i>IntId</i>	IncNumTask (description="Number of tasks to include from history", quantity="none")
<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
<i>BoolId</i>	UserInput (description="Needs user input", quantity="none")

12.1.2. SCalPhotOffsetHist

<i>product</i> (type="SCalPhotOffsetHist", description="Photometer Channel Offset History")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	version (description="Version")
<i>table</i>	(description="null")
<i>dataset</i>	
<i>Metadata</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="s")
<i>IntId</i>	PSWA1 (description="PSWA1 signal offset", quantity="")
<i>IntId</i>	PSWA2 (description="PSWA2 signal offset", quantity="")
<i>IntId</i>	PSWA3 (description="PSWA3 signal offset", quantity="")
<i>IntId</i>	PSWA4 (description="PSWA4 signal offset", quantity="")
<i>IntId</i>	PSWA5 (description="PSWA5 signal offset", quantity="")
<i>IntId</i>	PSWA6 (description="PSWA6 signal offset", quantity="")
<i>IntId</i>	PSWA7 (description="PSWA7 signal offset", quantity="")
<i>IntId</i>	PSWA8 (description="PSWA8 signal offset", quantity="")
<i>IntId</i>	PSWA9 (description="PSWA9 signal offset", quantity="")
<i>IntId</i>	PSWA10 (description="PSWA10 signal offset", quantity="")
<i>IntId</i>	PSWA11 (description="PSWA11 signal offset", quantity="")
<i>IntId</i>	PSWA12 (description="PSWA12 signal offset", quantity="")
<i>IntId</i>	PSWA13 (description="PSWA13 signal offset", quantity="")

<i>Int1d</i>	PSWA14 (description="PSWA14 signal offset", quantity="")
<i>Int1d</i>	PSWA15 (description="PSWA15 signal offset", quantity="")
<i>Int1d</i>	PSWB1 (description="PSWB1 signal offset", quantity="")
<i>Int1d</i>	PSWB2 (description="PSWB2 signal offset", quantity="")
<i>Int1d</i>	PSWB3 (description="PSWB3 signal offset", quantity="")
<i>Int1d</i>	PSWB4 (description="PSWB4 signal offset", quantity="")
<i>Int1d</i>	PSWB5 (description="PSWB5 signal offset", quantity="")
<i>Int1d</i>	PSWB6 (description="PSWB6 signal offset", quantity="")
<i>Int1d</i>	PSWB7 (description="PSWB7 signal offset", quantity="")
<i>Int1d</i>	PSWB8 (description="PSWB8 signal offset", quantity="")
<i>Int1d</i>	PSWB9 (description="PSWB9 signal offset", quantity="")
<i>Int1d</i>	PSWB10 (description="PSWB10 signal offset", quantity="")
<i>Int1d</i>	PSWB11 (description="PSWB11 signal offset", quantity="")
<i>Int1d</i>	PSWB12 (description="PSWB12 signal offset", quantity="")
<i>Int1d</i>	PSWB13 (description="PSWB13 signal offset", quantity="")
<i>Int1d</i>	PSWB14 (description="PSWB14 signal offset", quantity="")
<i>Int1d</i>	PSWB15 (description="PSWB15 signal offset", quantity="")
<i>Int1d</i>	PSWB16 (description="PSWB16 signal offset", quantity="")
<i>Int1d</i>	PSWC1 (description="PSWC1 signal offset", quantity="")
<i>Int1d</i>	PSWC2 (description="PSWC2 signal offset", quantity="")
<i>Int1d</i>	PSWC3 (description="PSWC3 signal offset", quantity="")
<i>Int1d</i>	PSWC4 (description="PSWC4 signal offset", quantity="")
<i>Int1d</i>	PSWC5 (description="PSWC5 signal offset", quantity="")
<i>Int1d</i>	PSWC6 (description="PSWC6 signal offset", quantity="")
<i>Int1d</i>	PSWC7 (description="PSWC7 signal offset", quantity="")
<i>Int1d</i>	PSWC8 (description="PSWC8 signal offset", quantity="")
<i>Int1d</i>	PSWC9 (description="PSWC9 signal offset", quantity="")
<i>Int1d</i>	PSWC10 (description="PSWC10 signal offset", quantity="")
<i>Int1d</i>	PSWC11 (description="PSWC11 signal offset", quantity="")
<i>Int1d</i>	PSWC12 (description="PSWC12 signal offset", quantity="")
<i>Int1d</i>	PSWC13 (description="PSWC13 signal offset", quantity="")
<i>Int1d</i>	PSWC14 (description="PSWC14 signal offset", quantity="")
<i>Int1d</i>	PSWC15 (description="PSWC15 signal offset", quantity="")
<i>Int1d</i>	PSWD1 (description="PSWD1 signal offset", quantity="")
<i>Int1d</i>	PSWD2 (description="PSWD2 signal offset", quantity="")
<i>Int1d</i>	PSWD3 (description="PSWD3 signal offset", quantity="")
<i>Int1d</i>	PSWD4 (description="PSWD4 signal offset", quantity="")
<i>Int1d</i>	PSWD5 (description="PSWD5 signal offset", quantity="")
<i>Int1d</i>	PSWD6 (description="PSWD6 signal offset", quantity="")
<i>Int1d</i>	PSWD7 (description="PSWD7 signal offset", quantity="")
<i>Int1d</i>	PSWD8 (description="PSWD8 signal offset", quantity="")
<i>Int1d</i>	PSWD9 (description="PSWD9 signal offset", quantity="")

<i>Int1d</i>	PSWD10 (description="PSWD10 signal offset", quantity="")
<i>Int1d</i>	PSWD11 (description="PSWD11 signal offset", quantity="")
<i>Int1d</i>	PSWD12 (description="PSWD12 signal offset", quantity="")
<i>Int1d</i>	PSWD13 (description="PSWD13 signal offset", quantity="")
<i>Int1d</i>	PSWD14 (description="PSWD14 signal offset", quantity="")
<i>Int1d</i>	PSWD15 (description="PSWD15 signal offset", quantity="")
<i>Int1d</i>	PSWD16 (description="PSWD16 signal offset", quantity="")
<i>Int1d</i>	PSWE1 (description="PSWE1 signal offset", quantity="")
<i>Int1d</i>	PSWE2 (description="PSWE2 signal offset", quantity="")
<i>Int1d</i>	PSWE3 (description="PSWE3 signal offset", quantity="")
<i>Int1d</i>	PSWE4 (description="PSWE4 signal offset", quantity="")
<i>Int1d</i>	PSWE5 (description="PSWE5 signal offset", quantity="")
<i>Int1d</i>	PSWE6 (description="PSWE6 signal offset", quantity="")
<i>Int1d</i>	PSWE7 (description="PSWE7 signal offset", quantity="")
<i>Int1d</i>	PSWE8 (description="PSWE8 signal offset", quantity="")
<i>Int1d</i>	PSWE9 (description="PSWE9 signal offset", quantity="")
<i>Int1d</i>	PSWE10 (description="PSWE10 signal offset", quantity="")
<i>Int1d</i>	PSWE11 (description="PSWE11 signal offset", quantity="")
<i>Int1d</i>	PSWE12 (description="PSWE12 signal offset", quantity="")
<i>Int1d</i>	PSWE13 (description="PSWE13 signal offset", quantity="")
<i>Int1d</i>	PSWE14 (description="PSWE14 signal offset", quantity="")
<i>Int1d</i>	PSWE15 (description="PSWE15 signal offset", quantity="")
<i>Int1d</i>	PSWF1 (description="PSWF1 signal offset", quantity="")
<i>Int1d</i>	PSWF2 (description="PSWF2 signal offset", quantity="")
<i>Int1d</i>	PSWF3 (description="PSWF3 signal offset", quantity="")
<i>Int1d</i>	PSWF4 (description="PSWF4 signal offset", quantity="")
<i>Int1d</i>	PSWF5 (description="PSWF5 signal offset", quantity="")
<i>Int1d</i>	PSWF6 (description="PSWF6 signal offset", quantity="")
<i>Int1d</i>	PSWF7 (description="PSWF7 signal offset", quantity="")
<i>Int1d</i>	PSWF8 (description="PSWF8 signal offset", quantity="")
<i>Int1d</i>	PSWF9 (description="PSWF9 signal offset", quantity="")
<i>Int1d</i>	PSWF10 (description="PSWF10 signal offset", quantity="")
<i>Int1d</i>	PSWF11 (description="PSWF11 signal offset", quantity="")
<i>Int1d</i>	PSWF12 (description="PSWF12 signal offset", quantity="")
<i>Int1d</i>	PSWF13 (description="PSWF13 signal offset", quantity="")
<i>Int1d</i>	PSWF14 (description="PSWF14 signal offset", quantity="")
<i>Int1d</i>	PSWF15 (description="PSWF15 signal offset", quantity="")
<i>Int1d</i>	PSWF16 (description="PSWF16 signal offset", quantity="")
<i>Int1d</i>	PSWG1 (description="PSWG1 signal offset", quantity="")
<i>Int1d</i>	PSWG2 (description="PSWG2 signal offset", quantity="")
<i>Int1d</i>	PSWG3 (description="PSWG3 signal offset", quantity="")
<i>Int1d</i>	PSWG4 (description="PSWG4 signal offset", quantity="")

<i>Int1d</i>	PSWG5 (description="PSWG5 signal offset", quantity="")
<i>Int1d</i>	PSWG6 (description="PSWG6 signal offset", quantity="")
<i>Int1d</i>	PSWG7 (description="PSWG7 signal offset", quantity="")
<i>Int1d</i>	PSWG8 (description="PSWG8 signal offset", quantity="")
<i>Int1d</i>	PSWG9 (description="PSWG9 signal offset", quantity="")
<i>Int1d</i>	PSWG10 (description="PSWG10 signal offset", quantity="")
<i>Int1d</i>	PSWG11 (description="PSWG11 signal offset", quantity="")
<i>Int1d</i>	PSWG12 (description="PSWG12 signal offset", quantity="")
<i>Int1d</i>	PSWG13 (description="PSWG13 signal offset", quantity="")
<i>Int1d</i>	PSWG14 (description="PSWG14 signal offset", quantity="")
<i>Int1d</i>	PSWG15 (description="PSWG15 signal offset", quantity="")
<i>Int1d</i>	PSWH1 (description="PSWH1 signal offset", quantity="")
<i>Int1d</i>	PSWH2 (description="PSWH2 signal offset", quantity="")
<i>Int1d</i>	PSWH3 (description="PSWH3 signal offset", quantity="")
<i>Int1d</i>	PSWH4 (description="PSWH4 signal offset", quantity="")
<i>Int1d</i>	PSWH5 (description="PSWH5 signal offset", quantity="")
<i>Int1d</i>	PSWH6 (description="PSWH6 signal offset", quantity="")
<i>Int1d</i>	PSWH7 (description="PSWH7 signal offset", quantity="")
<i>Int1d</i>	PSWH8 (description="PSWH8 signal offset", quantity="")
<i>Int1d</i>	PSWH9 (description="PSWH9 signal offset", quantity="")
<i>Int1d</i>	PSWH10 (description="PSWH10 signal offset", quantity="")
<i>Int1d</i>	PSWH11 (description="PSWH11 signal offset", quantity="")
<i>Int1d</i>	PSWH12 (description="PSWH12 signal offset", quantity="")
<i>Int1d</i>	PSWH13 (description="PSWH13 signal offset", quantity="")
<i>Int1d</i>	PSWH14 (description="PSWH14 signal offset", quantity="")
<i>Int1d</i>	PSWH15 (description="PSWH15 signal offset", quantity="")
<i>Int1d</i>	PSWH16 (description="PSWH16 signal offset", quantity="")
<i>Int1d</i>	PSWJ1 (description="PSWJ1 signal offset", quantity="")
<i>Int1d</i>	PSWJ2 (description="PSWJ2 signal offset", quantity="")
<i>Int1d</i>	PSWJ3 (description="PSWJ3 signal offset", quantity="")
<i>Int1d</i>	PSWJ4 (description="PSWJ4 signal offset", quantity="")
<i>Int1d</i>	PSWJ5 (description="PSWJ5 signal offset", quantity="")
<i>Int1d</i>	PSWJ6 (description="PSWJ6 signal offset", quantity="")
<i>Int1d</i>	PSWJ7 (description="PSWJ7 signal offset", quantity="")
<i>Int1d</i>	PSWJ8 (description="PSWJ8 signal offset", quantity="")
<i>Int1d</i>	PSWJ9 (description="PSWJ9 signal offset", quantity="")
<i>Int1d</i>	PSWJ10 (description="PSWJ10 signal offset", quantity="")
<i>Int1d</i>	PSWJ11 (description="PSWJ11 signal offset", quantity="")
<i>Int1d</i>	PSWJ12 (description="PSWJ12 signal offset", quantity="")
<i>Int1d</i>	PSWJ13 (description="PSWJ13 signal offset", quantity="")
<i>Int1d</i>	PSWJ14 (description="PSWJ14 signal offset", quantity="")
<i>Int1d</i>	PSWJ15 (description="PSWJ15 signal offset", quantity="")

<i>Int1d</i>	PSWDP1 (description="PSWDP1 signal offset", quantity="")
<i>Int1d</i>	PSWDP2 (description="PSWDP2 signal offset", quantity="")
<i>Int1d</i>	PSWR1 (description="PSWR1 signal offset", quantity="")
<i>Int1d</i>	PSWT1 (description="PSWT1 signal offset", quantity="")
<i>Int1d</i>	PSWT2 (description="PSWT2 signal offset", quantity="")
<i>Int1d</i>	PMWA1 (description="PMWA1 signal offset", quantity="")
<i>Int1d</i>	PMWA2 (description="PMWA2 signal offset", quantity="")
<i>Int1d</i>	PMWA3 (description="PMWA3 signal offset", quantity="")
<i>Int1d</i>	PMWA4 (description="PMWA4 signal offset", quantity="")
<i>Int1d</i>	PMWA5 (description="PMWA5 signal offset", quantity="")
<i>Int1d</i>	PMWA6 (description="PMWA6 signal offset", quantity="")
<i>Int1d</i>	PMWA7 (description="PMWA7 signal offset", quantity="")
<i>Int1d</i>	PMWA8 (description="PMWA8 signal offset", quantity="")
<i>Int1d</i>	PMWA9 (description="PMWA9 signal offset", quantity="")
<i>Int1d</i>	PMWA10 (description="PMWA10 signal offset", quantity="")
<i>Int1d</i>	PMWA11 (description="PMWA11 signal offset", quantity="")
<i>Int1d</i>	PMWA12 (description="PMWA12 signal offset", quantity="")
<i>Int1d</i>	PMWA13 (description="PMWA13 signal offset", quantity="")
<i>Int1d</i>	PMWB1 (description="PMWB1 signal offset", quantity="")
<i>Int1d</i>	PMWB2 (description="PMWB2 signal offset", quantity="")
<i>Int1d</i>	PMWB3 (description="PMWB3 signal offset", quantity="")
<i>Int1d</i>	PMWB4 (description="PMWB4 signal offset", quantity="")
<i>Int1d</i>	PMWB5 (description="PMWB5 signal offset", quantity="")
<i>Int1d</i>	PMWB6 (description="PMWB6 signal offset", quantity="")
<i>Int1d</i>	PMWB7 (description="PMWB7 signal offset", quantity="")
<i>Int1d</i>	PMWB8 (description="PMWB8 signal offset", quantity="")
<i>Int1d</i>	PMWB9 (description="PMWB9 signal offset", quantity="")
<i>Int1d</i>	PMWB10 (description="PMWB10 signal offset", quantity="")
<i>Int1d</i>	PMWB11 (description="PMWB11 signal offset", quantity="")
<i>Int1d</i>	PMWB12 (description="PMWB12 signal offset", quantity="")
<i>Int1d</i>	PMWC1 (description="PMWC1 signal offset", quantity="")
<i>Int1d</i>	PMWC2 (description="PMWC2 signal offset", quantity="")
<i>Int1d</i>	PMWC3 (description="PMWC3 signal offset", quantity="")
<i>Int1d</i>	PMWC4 (description="PMWC4 signal offset", quantity="")
<i>Int1d</i>	PMWC5 (description="PMWC5 signal offset", quantity="")
<i>Int1d</i>	PMWC6 (description="PMWC6 signal offset", quantity="")
<i>Int1d</i>	PMWC7 (description="PMWC7 signal offset", quantity="")
<i>Int1d</i>	PMWC8 (description="PMWC8 signal offset", quantity="")
<i>Int1d</i>	PMWC9 (description="PMWC9 signal offset", quantity="")
<i>Int1d</i>	PMWC10 (description="PMWC10 signal offset", quantity="")
<i>Int1d</i>	PMWC11 (description="PMWC11 signal offset", quantity="")
<i>Int1d</i>	PMWC12 (description="PMWC12 signal offset", quantity="")

<i>Int1d</i>	PMWC13 (description="PMWC13 signal offset", quantity="")
<i>Int1d</i>	PMWD1 (description="PMWD1 signal offset", quantity="")
<i>Int1d</i>	PMWD2 (description="PMWD2 signal offset", quantity="")
<i>Int1d</i>	PMWD3 (description="PMWD3 signal offset", quantity="")
<i>Int1d</i>	PMWD4 (description="PMWD4 signal offset", quantity="")
<i>Int1d</i>	PMWD5 (description="PMWD5 signal offset", quantity="")
<i>Int1d</i>	PMWD6 (description="PMWD6 signal offset", quantity="")
<i>Int1d</i>	PMWD7 (description="PMWD7 signal offset", quantity="")
<i>Int1d</i>	PMWD8 (description="PMWD8 signal offset", quantity="")
<i>Int1d</i>	PMWD9 (description="PMWD9 signal offset", quantity="")
<i>Int1d</i>	PMWD10 (description="PMWD10 signal offset", quantity="")
<i>Int1d</i>	PMWD11 (description="PMWD11 signal offset", quantity="")
<i>Int1d</i>	PMWD12 (description="PMWD12 signal offset", quantity="")
<i>Int1d</i>	PMWE1 (description="PMWE1 signal offset", quantity="")
<i>Int1d</i>	PMWE2 (description="PMWE2 signal offset", quantity="")
<i>Int1d</i>	PMWE3 (description="PMWE3 signal offset", quantity="")
<i>Int1d</i>	PMWE4 (description="PMWE4 signal offset", quantity="")
<i>Int1d</i>	PMWE5 (description="PMWE5 signal offset", quantity="")
<i>Int1d</i>	PMWE6 (description="PMWE6 signal offset", quantity="")
<i>Int1d</i>	PMWE7 (description="PMWE7 signal offset", quantity="")
<i>Int1d</i>	PMWE8 (description="PMWE8 signal offset", quantity="")
<i>Int1d</i>	PMWE9 (description="PMWE9 signal offset", quantity="")
<i>Int1d</i>	PMWE10 (description="PMWE10 signal offset", quantity="")
<i>Int1d</i>	PMWE11 (description="PMWE11 signal offset", quantity="")
<i>Int1d</i>	PMWE12 (description="PMWE12 signal offset", quantity="")
<i>Int1d</i>	PMWE13 (description="PMWE13 signal offset", quantity="")
<i>Int1d</i>	PMWF1 (description="PMWF1 signal offset", quantity="")
<i>Int1d</i>	PMWF2 (description="PMWF2 signal offset", quantity="")
<i>Int1d</i>	PMWF3 (description="PMWF3 signal offset", quantity="")
<i>Int1d</i>	PMWF4 (description="PMWF4 signal offset", quantity="")
<i>Int1d</i>	PMWF5 (description="PMWF5 signal offset", quantity="")
<i>Int1d</i>	PMWF6 (description="PMWF6 signal offset", quantity="")
<i>Int1d</i>	PMWF7 (description="PMWF7 signal offset", quantity="")
<i>Int1d</i>	PMWF8 (description="PMWF8 signal offset", quantity="")
<i>Int1d</i>	PMWF9 (description="PMWF9 signal offset", quantity="")
<i>Int1d</i>	PMWF10 (description="PMWF10 signal offset", quantity="")
<i>Int1d</i>	PMWF11 (description="PMWF11 signal offset", quantity="")
<i>Int1d</i>	PMWF12 (description="PMWF12 signal offset", quantity="")
<i>Int1d</i>	PMWG1 (description="PMWG1 signal offset", quantity="")
<i>Int1d</i>	PMWG2 (description="PMWG2 signal offset", quantity="")
<i>Int1d</i>	PMWG3 (description="PMWG3 signal offset", quantity="")
<i>Int1d</i>	PMWG4 (description="PMWG4 signal offset", quantity="")

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<i>Int1d</i>	PMWG5 (description="PMWG5 signal offset", quantity="")
<i>Int1d</i>	PMWG6 (description="PMWG6 signal offset", quantity="")
<i>Int1d</i>	PMWG7 (description="PMWG7 signal offset", quantity="")
<i>Int1d</i>	PMWG8 (description="PMWG8 signal offset", quantity="")
<i>Int1d</i>	PMWG9 (description="PMWG9 signal offset", quantity="")
<i>Int1d</i>	PMWG10 (description="PMWG10 signal offset", quantity="")
<i>Int1d</i>	PMWG11 (description="PMWG11 signal offset", quantity="")
<i>Int1d</i>	PMWG12 (description="PMWG12 signal offset", quantity="")
<i>Int1d</i>	PMWG13 (description="PMWG13 signal offset", quantity="")
<i>Int1d</i>	PMWDP1 (description="PMWDP1 signal offset", quantity="")
<i>Int1d</i>	PMWDP2 (description="PMWDP2 signal offset", quantity="")
<i>Int1d</i>	PMWR1 (description="PMWR1 signal offset", quantity="")
<i>Int1d</i>	PMWT1 (description="PMWT1 signal offset", quantity="")
<i>Int1d</i>	PMWT2 (description="PMWT2 signal offset", quantity="")
<i>Int1d</i>	PLWA1 (description="PLWA1 signal offset", quantity="")
<i>Int1d</i>	PLWA2 (description="PLWA2 signal offset", quantity="")
<i>Int1d</i>	PLWA3 (description="PLWA3 signal offset", quantity="")
<i>Int1d</i>	PLWA4 (description="PLWA4 signal offset", quantity="")
<i>Int1d</i>	PLWA5 (description="PLWA5 signal offset", quantity="")
<i>Int1d</i>	PLWA6 (description="PLWA6 signal offset", quantity="")
<i>Int1d</i>	PLWA7 (description="PLWA7 signal offset", quantity="")
<i>Int1d</i>	PLWA8 (description="PLWA8 signal offset", quantity="")
<i>Int1d</i>	PLWA9 (description="PLWA9 signal offset", quantity="")
<i>Int1d</i>	PLWB1 (description="PLWB1 signal offset", quantity="")
<i>Int1d</i>	PLWB2 (description="PLWB2 signal offset", quantity="")
<i>Int1d</i>	PLWB3 (description="PLWB3 signal offset", quantity="")
<i>Int1d</i>	PLWB4 (description="PLWB4 signal offset", quantity="")
<i>Int1d</i>	PLWB5 (description="PLWB5 signal offset", quantity="")
<i>Int1d</i>	PLWB6 (description="PLWB6 signal offset", quantity="")
<i>Int1d</i>	PLWB7 (description="PLWB7 signal offset", quantity="")
<i>Int1d</i>	PLWB8 (description="PLWB8 signal offset", quantity="")
<i>Int1d</i>	PLWC1 (description="PLWC1 signal offset", quantity="")
<i>Int1d</i>	PLWC2 (description="PLWC2 signal offset", quantity="")
<i>Int1d</i>	PLWC3 (description="PLWC3 signal offset", quantity="")
<i>Int1d</i>	PLWC4 (description="PLWC4 signal offset", quantity="")
<i>Int1d</i>	PLWC5 (description="PLWC5 signal offset", quantity="")
<i>Int1d</i>	PLWC6 (description="PLWC6 signal offset", quantity="")
<i>Int1d</i>	PLWC7 (description="PLWC7 signal offset", quantity="")
<i>Int1d</i>	PLWC8 (description="PLWC8 signal offset", quantity="")
<i>Int1d</i>	PLWC9 (description="PLWC9 signal offset", quantity="")
<i>Int1d</i>	PLWD1 (description="PLWD1 signal offset", quantity="")
<i>Int1d</i>	PLWD2 (description="PLWD2 signal offset", quantity="")

<i>Int1d</i>	PLWD3 (description="PLWD3 signal offset", quantity="")
<i>Int1d</i>	PLWD4 (description="PLWD4 signal offset", quantity="")
<i>Int1d</i>	PLWD5 (description="PLWD5 signal offset", quantity="")
<i>Int1d</i>	PLWD6 (description="PLWD6 signal offset", quantity="")
<i>Int1d</i>	PLWD7 (description="PLWD7 signal offset", quantity="")
<i>Int1d</i>	PLWD8 (description="PLWD8 signal offset", quantity="")
<i>Int1d</i>	PLWE1 (description="PLWE1 signal offset", quantity="")
<i>Int1d</i>	PLWE2 (description="PLWE2 signal offset", quantity="")
<i>Int1d</i>	PLWE3 (description="PLWE3 signal offset", quantity="")
<i>Int1d</i>	PLWE4 (description="PLWE4 signal offset", quantity="")
<i>Int1d</i>	PLWE5 (description="PLWE5 signal offset", quantity="")
<i>Int1d</i>	PLWE6 (description="PLWE6 signal offset", quantity="")
<i>Int1d</i>	PLWE7 (description="PLWE7 signal offset", quantity="")
<i>Int1d</i>	PLWE8 (description="PLWE8 signal offset", quantity="")
<i>Int1d</i>	PLWE9 (description="PLWE9 signal offset", quantity="")
<i>Int1d</i>	PLWDP1 (description="PLWDP1 signal offset", quantity="")
<i>Int1d</i>	PLWDP2 (description="PLWDP2 signal offset", quantity="")
<i>Int1d</i>	PLWR1 (description="PLWR1 signal offset", quantity="")
<i>Int1d</i>	PLWT1 (description="PLWT1 signal offset", quantity="")
<i>Int1d</i>	PLWT2 (description="PLWT2 signal offset", quantity="")
<i>Int1d</i>	PTCP3 (description="PTCP3 signal offset", quantity="")
<i>Int1d</i>	PTCP2 (description="PTCP2 signal offset", quantity="")
<i>Int1d</i>	PTCP1 (description="PTCP1 signal offset", quantity="")
<i>Long1d</i>	obsid (description="Observation ID", quantity="")
<i>composite</i>	(description="History of product")
<i>Metadata</i>	
<i>LongParameter</i>	id (description="Unique ID")
<i>table dataset</i>	(description="History as Jython script")
<i>Metadata</i>	
<i>StringParameter</i>	outvar (description="last output variable")
<i>String1d</i>	Lines (description="script lines", quantity="none")
<i>table dataset</i>	(description="History of tasks")
<i>Metadata</i>	
<i>Long1d</i>	ID (description="Links the parameter and task table", quantity="none")
<i>String1d</i>	Name (description="The name of the task", quantity="none")
<i>Long1d</i>	ExecDate (description="Time of execution (FINETIME)", quantity="none")
<i>Bool1d</i>	Succeeded (description="Flag for success/failed", quantity="none")
<i>Long1d</i>	HistoryId (description="Id of current history", quantity="none")
<i>table dataset</i>	(description="The parameters belonging to the task history")

<i>Metadata</i>	
<i>LongId</i>	TaskID (description="Links the parameter and task table", quantity="none")
<i>StringId</i>	Name (description="The name of the parameter", quantity="none")
<i>StringId</i>	Type (description="Type of parameter", quantity="none")
<i>StringId</i>	Value (description="String representation of the parameter value", quantity="none")
<i>BoolId</i>	IsDefault (description="True if the default value has been used", quantity="none")
<i>LongId</i>	IncHistoryId (description="ID of the history of an included product", quantity="none")
<i>IntId</i>	IncNumTask (description="Number of tasks to include from history", quantity="none")
<i>LongId</i>	HistoryId (description="Id of current history", quantity="none")
<i>BoolId</i>	UserInput (description="Needs user input", quantity="none")

12.2. SPIRE Photometer Calibration Products

12.2.1. SCalPhotChanNum

<i>product</i> (type="SCalPhotChanNum", description="Photometer Channel Number Mapping Table")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="Table for PSW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>IntId</i>	fullChannel (description="Full Channel Number", quantity="")
<i>IntId</i>	indivChannel (description="Individual Channel Number", quantity="")
<i>BoolId</i>	isAligned (description="Aligned Channels", quantity="")
<i>IntId</i>	jfetGroup (description="JFET group", quantity="")
<i>IntId</i>	liaBoard (description="LIA board", quantity="")
<i>BoolId</i>	isConnected (description="Connected Channels", quantity="")
<i>BoolId</i>	isBolometer (description="Bolometer Channels", quantity="")

	<i>BoolId</i>	isThermistor (description="Thermistor Channels", quantity="")
	<i>BoolId</i>	isResistor (description="Resistor Channels", quantity="")
	<i>BoolId</i>	isDark (description="Dark Channels", quantity="")
	<i>BoolId</i>	isPtc (description="PTC Channels", quantity="")
<i>table dataset</i>	(description="Table for PMW array")	
	<i>Metadata</i>	
	<i>StringId</i>	names (description="Channel names", quantity="")
	<i>IntId</i>	fullChannel (description="Full Channel Number", quantity="")
	<i>IntId</i>	indivChannel (description="Individual Channel Number", quantity="")
	<i>BoolId</i>	isAligned (description="Aligned Channels", quantity="")
	<i>IntId</i>	jfetGroup (description="JFET group", quantity="")
	<i>IntId</i>	liaBoard (description="LIA board", quantity="")
	<i>BoolId</i>	isConnected (description="Connected Channels", quantity="")
	<i>BoolId</i>	isBolometer (description="Bolometer Channels", quantity="")
	<i>BoolId</i>	isThermistor (description="Thermistor Channels", quantity="")
	<i>BoolId</i>	isResistor (description="Resistor Channels", quantity="")
	<i>BoolId</i>	isDark (description="Dark Channels", quantity="")
	<i>BoolId</i>	isPtc (description="PTC Channels", quantity="")
<i>table dataset</i>	(description="Table for PLW array")	
	<i>Metadata</i>	
	<i>StringId</i>	names (description="Channel names", quantity="")
	<i>IntId</i>	fullChannel (description="Full Channel Number", quantity="")
	<i>IntId</i>	indivChannel (description="Individual Channel Number", quantity="")
	<i>BoolId</i>	isAligned (description="Aligned Channels", quantity="")
	<i>IntId</i>	jfetGroup (description="JFET group", quantity="")
	<i>IntId</i>	liaBoard (description="LIA board", quantity="")
	<i>BoolId</i>	isConnected (description="Connected Channels", quantity="")
	<i>BoolId</i>	isBolometer (description="Bolometer Channels", quantity="")
	<i>BoolId</i>	isThermistor (description="Thermistor Channels", quantity="")
	<i>BoolId</i>	isResistor (description="Resistor Channels", quantity="")
	<i>BoolId</i>	isDark (description="Dark Channels", quantity="")
	<i>BoolId</i>	isPtc (description="PTC Channels", quantity="")
<i>table dataset</i>	(description="Table for PTC array")	
	<i>Metadata</i>	
	<i>StringId</i>	names (description="Channel names", quantity="")
	<i>IntId</i>	fullChannel (description="Full Channel Number", quantity="")
	<i>IntId</i>	indivChannel (description="Individual Channel Number", quantity="")
	<i>BoolId</i>	isAligned (description="Aligned Channels", quantity="")
	<i>IntId</i>	jfetGroup (description="JFET group", quantity="")
	<i>IntId</i>	liaBoard (description="LIA board", quantity="")

<i>BoolId</i>	isConnected (description="Connected Channels", quantity="")
<i>BoolId</i>	isBolometer (description="Bolometer Channels", quantity="")
<i>BoolId</i>	isThermistor (description="Thermistor Channels", quantity="")
<i>BoolId</i>	isResistor (description="Resistor Channels", quantity="")
<i>BoolId</i>	isDark (description="Dark Channels", quantity="")
<i>BoolId</i>	isPtc (description="PTC Channels", quantity="")

12.2.2. SCalPhotChanTimeOff

<i>product</i> (type="SCalPhotChanTimeOff", description="Photometer Channel Time Offset Table")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="Table for PSW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	offsetSingle (description="Time offset relative to single array readout", quantity="s")
<i>DoubleId</i>	offsetFull (description="Time offset relative to full array readout", quantity="s")
<i>table dataset</i>	(description="Table for PMW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	offsetSingle (description="Time offset relative to single array readout", quantity="s")
<i>DoubleId</i>	offsetFull (description="Time offset relative to full array readout", quantity="s")
<i>table dataset</i>	(description="Table for PLW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	offsetSingle (description="Time offset relative to single array readout", quantity="s")
<i>DoubleId</i>	

	offsetFull (description="Time offset relative to full array readout", quantity="s")
<i>table dataset</i>	(description="Table for PTC array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	offsetSingle (description="Time offset relative to single array readout", quantity="s")
<i>DoubleId</i>	offsetFull (description="Time offset relative to full array readout", quantity="s")

12.2.3. SCalPhotChanMask

<i>product</i> (type="SCalPhotChanMask", description="Photometer Channel Mask Table")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="Table for PSW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>BoolId</i>	isDead (description="Dead Channels", quantity="")
<i>BoolId</i>	isNoisy (description="Noisy Channels", quantity="")
<i>table dataset</i>	(description="Table for PMW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>BoolId</i>	isDead (description="Dead Channels", quantity="")
<i>BoolId</i>	isNoisy (description="Noisy Channels", quantity="")
<i>table dataset</i>	(description="Table for PLW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>BoolId</i>	isDead (description="Dead Channels", quantity="")
<i>BoolId</i>	isNoisy (description="Noisy Channels", quantity="")

<i>table dataset</i>	(description="Table for PTC array")					
<i>Metadata</i>						
<i>StringId</i>	names (description="Channel names", quantity="")					
<i>BoolId</i>	isDead (description="Dead Channels", quantity="")					
<i>BoolId</i>	isNoisy (description="Noisy Channels", quantity="")					

12.2.4. SCalPhotChanGain

<i>product</i> (type="SCalPhotChanGain", description="Photometer Channel Gain Table")						
<i>Metadata</i>						
StringParameter	type (description="Product Type Identification")					
StringParameter	creator (description="null")					
DateParameter	creationDate (description="Creation date of this product")					
StringParameter	description (description="Name of this product")					
StringParameter	instrument (description="Instrument attached to this product")					
StringParameter	modelName (description="null")					
DateParameter	startDate (description="null")					
DateParameter	endDate (description="null")					
StringParameter	version (description="null")					
DoubleParameter	refBiasFreq (description="Reference bias frequency")					
DoubleParameter	param (description="Frequency dependency parameter")					
StringParameter	fileName (description="null")					
<i>table dataset</i>	(description="Table for PSW array")					
<i>Metadata</i>						
<i>StringId</i>	names (description="Channel names", quantity="")					
<i>DoubleId</i>	totGain (description="LIA plus amplifier gain", quantity="")					
<i>DoubleId</i>	jfetGain (description="JFET Gain", quantity="")					
<i>table dataset</i>	(description="Table for PMW array")					
<i>Metadata</i>						
<i>StringId</i>	names (description="Channel names", quantity="")					
<i>DoubleId</i>	totGain (description="LIA plus amplifier gain", quantity="")					
<i>DoubleId</i>	jfetGain (description="JFET Gain", quantity="")					
<i>table dataset</i>	(description="Table for PLW array")					
<i>Metadata</i>						
<i>StringId</i>	names (description="Channel names", quantity="")					
<i>DoubleId</i>	totGain (description="LIA plus amplifier gain", quantity="")					
<i>DoubleId</i>	jfetGain (description="JFET Gain", quantity="")					
<i>table dataset</i>	(description="Table for PTC array")					

<i>Metadata</i>	
<i>String1d</i>	names (description="Channel names", quantity="")
<i>Double1d</i>	totGain (description="LIA plus amplifier gain", quantity="")
<i>Double1d</i>	jfetGain (description="JFET Gain", quantity="")

12.2.5. SCalPhotChanNoise

<i>product (type="SCalPhotChanNoise", description="Photometer Channel Noise Table")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	version (description="null")
DoubleParameter	biasFreq (description="null")
DoubleParameter	biasAmpl (description="null")
DoubleParameter	maxFreq (description="null")
DoubleParameter	minFreq (description="null")
DoubleParameter	numSpec (description="Number of coadded spectra")
LongParameter	numSpec_ILLEGAL_FORMAT (description="null")
StringParameter	fileName (description="null")
<i>table dataset</i>	<i>(description="Channel table for PSW array")</i>
<i>Metadata</i>	
<i>Double1d</i>	frequency (description="Label for column 1", quantity="Hz")
<i>Double1d</i>	PSWA1 (description="Label for column 69", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWA2 (description="Label for column 64", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWA3 (description="Label for column 63", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWA4 (description="Label for column 58", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWA5 (description="Label for column 53", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWA6 (description="Label for column 121", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWA7 (description="Label for column 116", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWA8 (description="Label for column 109", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWA9 (description="Label for column 104", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWA10 (description="Label for column 99", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWA11 (description="Label for column 23", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWA12 (description="Label for column 18", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWA13 (description="Label for column 13", quantity="V/sqrt(Hz)")

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<i>Double1d</i>	PSWA14 (description="Label for column 12", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWA15 (description="Label for column 7", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWB1 (description="Label for column 71", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWB2 (description="Label for column 67", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWB3 (description="Label for column 62", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWB4 (description="Label for column 60", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWB5 (description="Label for column 55", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWB6 (description="Label for column 51", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWB7 (description="Label for column 118", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWB8 (description="Label for column 113", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWB9 (description="Label for column 107", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWB10 (description="Label for column 102", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWB11 (description="Label for column 25", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWB12 (description="Label for column 21", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWB13 (description="Label for column 16", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWB14 (description="Label for column 14", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWB15 (description="Label for column 9", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWB16 (description="Label for column 5", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWC1 (description="Label for column 70", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWC2 (description="Label for column 66", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWC3 (description="Label for column 61", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWC4 (description="Label for column 57", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWC5 (description="Label for column 52", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWC6 (description="Label for column 119", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWC7 (description="Label for column 114", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWC8 (description="Label for column 110", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWC9 (description="Label for column 106", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWC10 (description="Label for column 101", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWC11 (description="Label for column 24", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWC12 (description="Label for column 19", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWC13 (description="Label for column 15", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWC14 (description="Label for column 10", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWC15 (description="Label for column 6", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWD1 (description="Label for column 73", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWD2 (description="Label for column 68", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWD3 (description="Label for column 65", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWD4 (description="Label for column 59", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWD5 (description="Label for column 56", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWD6 (description="Label for column 50", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWD7 (description="Label for column 117", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWD8 (description="Label for column 112", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWD9 (description="Label for column 108", quantity="V/sqrt(Hz)")

SPIRE Calibration Products

<i>Double1d</i>	PSWD10 (description="Label for column 103", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWD11 (description="Label for column 98", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWD12 (description="Label for column 20", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWD13 (description="Label for column 17", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWD14 (description="Label for column 11", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWD15 (description="Label for column 8", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWD16 (description="Label for column 3", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWE1 (description="Label for column 26", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWE2 (description="Label for column 38", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWE3 (description="Label for column 43", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWE4 (description="Label for column 47", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWE5 (description="Label for column 54", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWE6 (description="Label for column 120", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWE7 (description="Label for column 115", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWE8 (description="Label for column 111", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWE9 (description="Label for column 105", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWE10 (description="Label for column 100", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWE11 (description="Label for column 22", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWE12 (description="Label for column 76", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWE13 (description="Label for column 80", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWE14 (description="Label for column 85", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWE15 (description="Label for column 97", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWF1 (description="Label for column 27", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWF2 (description="Label for column 33", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWF3 (description="Label for column 39", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWF4 (description="Label for column 44", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWF5 (description="Label for column 49", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWF6 (description="Label for column 125", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWF7 (description="Label for column 128", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWF8 (description="Label for column 132", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWF9 (description="Label for column 135", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWF10 (description="Label for column 139", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWF11 (description="Label for column 142", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWF12 (description="Label for column 74", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWF13 (description="Label for column 79", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWF14 (description="Label for column 84", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWF15 (description="Label for column 90", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWF16 (description="Label for column 96", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWG1 (description="Label for column 30", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWG2 (description="Label for column 35", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWG3 (description="Label for column 40", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWG4 (description="Label for column 45", quantity="V/sqrt(Hz)")

SPIRE Calibration Products

<i>Double1d</i>	PSWG5 (description="Label for column 122", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWG6 (description="Label for column 126", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWG7 (description="Label for column 130", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWG8 (description="Label for column 133", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWG9 (description="Label for column 137", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWG10 (description="Label for column 141", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWG11 (description="Label for column 145", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWG12 (description="Label for column 78", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWG13 (description="Label for column 83", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWG14 (description="Label for column 88", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWG15 (description="Label for column 93", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWH1 (description="Label for column 29", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWH2 (description="Label for column 32", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWH3 (description="Label for column 36", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWH4 (description="Label for column 41", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWH5 (description="Label for column 46", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWH6 (description="Label for column 123", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWH7 (description="Label for column 127", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWH8 (description="Label for column 131", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWH9 (description="Label for column 136", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWH10 (description="Label for column 140", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWH11 (description="Label for column 144", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWH12 (description="Label for column 77", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWH13 (description="Label for column 82", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWH14 (description="Label for column 87", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWH15 (description="Label for column 91", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWH16 (description="Label for column 94", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWJ1 (description="Label for column 31", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWJ2 (description="Label for column 34", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWJ3 (description="Label for column 37", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWJ4 (description="Label for column 42", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWJ5 (description="Label for column 48", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWJ6 (description="Label for column 124", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWJ7 (description="Label for column 129", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWJ8 (description="Label for column 134", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWJ9 (description="Label for column 138", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWJ10 (description="Label for column 143", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWJ11 (description="Label for column 75", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWJ12 (description="Label for column 81", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWJ13 (description="Label for column 86", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWJ14 (description="Label for column 89", quantity="V/sqrt(Hz)")
<i>Double1d</i>	PSWJ15 (description="Label for column 92", quantity="V/sqrt(Hz)")

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<i>DoubleId</i>	PSWDP1 (description="Label for column 72", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PSWDP2 (description="Label for column 95", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PSWR1 (description="Label for column 2", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PSWT1 (description="Label for column 4", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PSWT2 (description="Label for column 28", quantity="V/sqrt(Hz)")
<i>table dataset</i>	(description="Channel table for PMW array")
<i>Metadata</i>	
<i>DoubleId</i>	frequency (description="Label for column 1", quantity="Hz")
<i>DoubleId</i>	PMWA1 (description="Label for column 272", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWA2 (description="Label for column 269", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWA3 (description="Label for column 268", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWA4 (description="Label for column 286", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWA5 (description="Label for column 279", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWA6 (description="Label for column 276", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWA7 (description="Label for column 275", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWA8 (description="Label for column 214", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWA9 (description="Label for column 212", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWA10 (description="Label for column 207", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWA11 (description="Label for column 202", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWA12 (description="Label for column 198", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWA13 (description="Label for column 194", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWB1 (description="Label for column 271", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWB2 (description="Label for column 266", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWB3 (description="Label for column 264", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWB4 (description="Label for column 283", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWB5 (description="Label for column 280", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWB6 (description="Label for column 277", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWB7 (description="Label for column 217", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWB8 (description="Label for column 213", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWB9 (description="Label for column 209", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWB10 (description="Label for column 206", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWB11 (description="Label for column 201", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWB12 (description="Label for column 196", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWC1 (description="Label for column 274", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWC2 (description="Label for column 270", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWC3 (description="Label for column 265", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWC4 (description="Label for column 263", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWC5 (description="Label for column 284", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWC6 (description="Label for column 281", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWC7 (description="Label for column 278", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWC8 (description="Label for column 216", quantity="V/sqrt(Hz)")

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<i>DoubleId</i>	PMWC9 (description="Label for column 211", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWC10 (description="Label for column 210", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWC11 (description="Label for column 205", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWC12 (description="Label for column 200", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWC13 (description="Label for column 197", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWD1 (description="Label for column 222", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWD2 (description="Label for column 267", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWD3 (description="Label for column 229", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWD4 (description="Label for column 285", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWD5 (description="Label for column 235", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWD6 (description="Label for column 282", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWD7 (description="Label for column 252", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWD8 (description="Label for column 215", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWD9 (description="Label for column 259", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWD10 (description="Label for column 208", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWD11 (description="Label for column 204", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWD12 (description="Label for column 199", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWE1 (description="Label for column 221", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWE2 (description="Label for column 224", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWE3 (description="Label for column 228", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWE4 (description="Label for column 232", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWE5 (description="Label for column 234", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWE6 (description="Label for column 238", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWE7 (description="Label for column 251", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWE8 (description="Label for column 254", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWE9 (description="Label for column 257", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWE10 (description="Label for column 261", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWE11 (description="Label for column 243", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWE12 (description="Label for column 246", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWE13 (description="Label for column 203", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWF1 (description="Label for column 223", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWF2 (description="Label for column 226", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWF3 (description="Label for column 230", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWF4 (description="Label for column 233", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWF5 (description="Label for column 236", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWF6 (description="Label for column 240", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWF7 (description="Label for column 253", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWF8 (description="Label for column 256", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWF9 (description="Label for column 260", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWF10 (description="Label for column 242", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWF11 (description="Label for column 245", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWF12 (description="Label for column 248", quantity="V/sqrt(Hz)")

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<i>DoubleId</i>	PMWG1 (description="Label for column 219", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWG2 (description="Label for column 225", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWG3 (description="Label for column 227", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWG4 (description="Label for column 231", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWG5 (description="Label for column 237", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWG6 (description="Label for column 239", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWG7 (description="Label for column 241", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWG8 (description="Label for column 255", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWG9 (description="Label for column 258", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWG10 (description="Label for column 262", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWG11 (description="Label for column 244", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWG12 (description="Label for column 247", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWG13 (description="Label for column 249", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWDP1 (description="Label for column 273", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWDP2 (description="Label for column 250", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWR1 (description="Label for column 218", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWT1 (description="Label for column 195", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PMWT2 (description="Label for column 220", quantity="V/sqrt(Hz)")
<i>table dataset</i>	(description="Channel table for PLW array")
<i>Metadata</i>	
<i>DoubleId</i>	frequency (description="Label for column 1", quantity="Hz")
<i>DoubleId</i>	PLWA1 (description="Label for column 167", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWA2 (description="Label for column 169", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWA3 (description="Label for column 165", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWA4 (description="Label for column 166", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWA5 (description="Label for column 157", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWA6 (description="Label for column 149", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWA7 (description="Label for column 148", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWA8 (description="Label for column 147", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWA9 (description="Label for column 150", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWB1 (description="Label for column 164", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWB2 (description="Label for column 163", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWB3 (description="Label for column 161", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWB4 (description="Label for column 159", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWB5 (description="Label for column 155", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWB6 (description="Label for column 156", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWB7 (description="Label for column 153", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWB8 (description="Label for column 152", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWC1 (description="Label for column 178", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWC2 (description="Label for column 162", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWC3 (description="Label for column 179", quantity="V/sqrt(Hz)")

<i>DoubleId</i>	PLWC4 (description="Label for column 160", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWC5 (description="Label for column 180", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWC6 (description="Label for column 183", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWC7 (description="Label for column 154", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWC8 (description="Label for column 184", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWC9 (description="Label for column 151", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWD1 (description="Label for column 174", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWD2 (description="Label for column 175", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWD3 (description="Label for column 176", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWD4 (description="Label for column 177", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWD5 (description="Label for column 185", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWD6 (description="Label for column 186", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWD7 (description="Label for column 187", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWD8 (description="Label for column 188", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWE1 (description="Label for column 170", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWE2 (description="Label for column 171", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWE3 (description="Label for column 172", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWE4 (description="Label for column 173", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWE5 (description="Label for column 182", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWE6 (description="Label for column 190", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWE7 (description="Label for column 189", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWE8 (description="Label for column 191", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWE9 (description="Label for column 193", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWDP1 (description="Label for column 168", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWDP2 (description="Label for column 192", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWR1 (description="Label for column 146", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWT1 (description="Label for column 158", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PLWT2 (description="Label for column 181", quantity="V/sqrt(Hz)")
<i>table dataset</i>	(description="Channel table for PTC array")
<i>Metadata</i>	
<i>DoubleId</i>	frequency (description="Label for column 1", quantity="Hz")
<i>DoubleId</i>	PTCP3 (description="Label for column 289", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PTCP2 (description="Label for column 288", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PTCP1 (description="Label for column 287", quantity="V/sqrt(Hz)")

12.2.6. SCalPhotLpfPar

<i>product</i> (type="SCalPhotLpfPar", description="Photometer Low Pass Filter Parameters")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")

DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="Low Pass Filter Parameters Table")
<i>Metadata</i>	
<i>IntId</i>	filter (description="Filter Number", quantity="none")
<i>DoubleId</i>	r1 (description="Filter Resistor 1", quantity="?")
<i>DoubleId</i>	r2 (description="Filter Resistor 2", quantity="?")
<i>DoubleId</i>	r3 (description="Filter Resistor 3", quantity="?")
<i>DoubleId</i>	r4 (description="Filter Resistor 4", quantity="?")
<i>DoubleId</i>	c1 (description="Filter Capacitor 1", quantity="F")
<i>DoubleId</i>	c2 (description="Filter Capacitor 2", quantity="F")

12.2.7. SCalPhotBsmOps

<i>product</i>	(type="SCalPhotBsmOps", description="Photometer BSM Operations Table")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	version (description="null")
DoubleParameter	chopMaxSpeed (description="Speed limit for stabilisation in chop")
DoubleParameter	jiggMaxSpeed (description="Speed limit for stabilisation in jigg")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="Simple Chopping")
<i>Metadata</i>	
StringParameter	obsMode (description="null")
<i>StringId</i>	chopBeamId (description="Chopper Beam Identifier", quantity="")
<i>IntId</i>	chopSens (description="Target sensor signal in chop direction", quantity="")
<i>IntId</i>	

	chopHiTol (description="Positive tolerance in chop sensor signal", quantity="")
<i>Int1d</i>	chopLoTol (description="Negative tolerance in chop sensor signa", quantity="")
<i>Int1d</i>	jiggId (description="Jiggle Position Identifier", quantity="")
<i>Int1d</i>	jiggSens (description="Target sensor signal in jiggle direction", quantity="")
<i>Int1d</i>	jiggHiTol (description="Positive tolerance in jiggle sensor signal", quantity="")
<i>Int1d</i>	jiggLoTol (description="Negative tolerance in jiggle sensor signal", quantity="")
<i>table dataset</i>	(description="7 Point Jiggle Map")
<i>Metadata</i>	
<i>StringParameter</i>	obsMode (description="null")
<i>String1d</i>	chopBeamId (description="Chopper Beam Identifier", quantity="")
<i>Int1d</i>	chopSens (description="Target sensor signal in chop direction", quantity="")
<i>Int1d</i>	chopHiTol (description="Positive tolerance in chop sensor signal", quantity="")
<i>Int1d</i>	chopLoTol (description="Negative tolerance in chop sensor signa", quantity="")
<i>Int1d</i>	jiggId (description="Jiggle Position Identifier", quantity="")
<i>Int1d</i>	jiggSens (description="Target sensor signal in jiggle direction", quantity="")
<i>Int1d</i>	jiggHiTol (description="Positive tolerance in jiggle sensor signal", quantity="")
<i>Int1d</i>	jiggLoTol (description="Negative tolerance in jiggle sensor signal", quantity="")
<i>table dataset</i>	(description="N Point Jiggle Map")
<i>Metadata</i>	
<i>StringParameter</i>	obsMode (description="null")
<i>String1d</i>	chopBeamId (description="Chopper Beam Identifier", quantity="")
<i>Int1d</i>	chopSens (description="Target sensor signal in chop direction", quantity="")
<i>Int1d</i>	chopHiTol (description="Positive tolerance in chop sensor signal", quantity="")
<i>Int1d</i>	chopLoTol (description="Negative tolerance in chop sensor signa", quantity="")
<i>Int1d</i>	jiggId (description="Jiggle Position Identifier", quantity="")
<i>Int1d</i>	jiggSens (description="Target sensor signal in jiggle direction", quantity="")
<i>Int1d</i>	jiggHiTol (description="Positive tolerance in jiggle sensor signal", quantity="")
<i>Int1d</i>	jiggLoTol (description="Negative tolerance in jiggle sensor signal", quantity="")

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12.2.8. SCalPhotBsmPos

<i>product (type="SCalPhotBsmPos", description="Photometer BSM Position Table")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	version (description="null")
LongParameter	chopRestPos (description="Chopper Sensor Rest Position")
LongParameter	jiggRestPos (description="Jiggle Sensor Rest Position")
LongParameter	chopHardLimit1 (description="Chopper Sensor Hard Limit 1")
LongParameter	chopHardLimit2 (description="Chopper Sensor Hard Limit 2")
LongParameter	jiggHardLimit1 (description="Jiggle Sensor Hard Limit 1")
LongParameter	jiggHardLimit2 (description="Jiggle Sensor Hard Limit 2")
LongParameter	chopSoftLimit1 (description="Chopper Sensor Soft Limit 1")
LongParameter	chopSoftLimit2 (description="Chopper Sensor Soft Limit 2")
LongParameter	jiggSoftLimit1 (description="Jiggle Sensor Soft Limit 1")
LongParameter	jiggSoftLimit2 (description="Jiggle Sensor Soft Limit 2")
StringParameter	fileName (description="null")
<i>table dataset</i>	<i>(description="BSM angles versus chopper and jiggle sensors values")</i>
<i>Metadata</i>	
<i>DoubleId</i>	yangle (description="Chopper Angle", quantity=""[4.84813681109536E-6 rad]")
<i>DoubleId</i>	yangleError (description="Error on Chopper Angle", quantity=""[4.84813681109536E-6 rad]")
<i>DoubleId</i>	zangle (description="Jiggle Angle", quantity=""[4.84813681109536E-6 rad]")
<i>DoubleId</i>	zangleError (description="Error on Jiggle Angle", quantity=""[4.84813681109536E-6 rad]")
<i>IntId</i>	chopSensor (description="Chopper Sensor", quantity="")
<i>IntId</i>	jiggSensor (description="Jiggle Sensor", quantity="")

12.2.9. SCalPhotBolPar

<i>product (type="SCalPhotBolPar", description="Photometer Bolometer Parameter Table")</i>	
<i>Metadata</i>	

StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="Table for PSW array")
<i>Metadata</i>	
DoubleParameter	tempT0 (description="Reference Temperature for Bolometer Thermal Conductivity T0")
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	loadResPos (description="Load resistance positive bias resistor", quantity="?")
<i>DoubleId</i>	loadResNeg (description="Load resistance negative bias resistor", quantity="?")
<i>DoubleId</i>	resR0 (description="Bolometer Electric Resistance at Temperature de", quantity="?")
<i>DoubleId</i>	delta (description="Reference Temperature for Bolometer Resistance", quantity="K")
<i>DoubleId</i>	capac (description="Electrical Capacitance of Cable", quantity="F")
<i>DoubleId</i>	condG0 (description="Bolometer Thermal Conductivity at Temperature T", quantity="")
<i>DoubleId</i>	beta (description="Exponent for Temperature evolution of Bolometer Thermal Conductivity", quantity="")
<i>table dataset</i>	(description="Table for PMW array")
<i>Metadata</i>	
DoubleParameter	tempT0 (description="Reference Temperature for Bolometer Thermal Conductivity T0")
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	loadResPos (description="Load resistance positive bias resistor", quantity="?")
<i>DoubleId</i>	loadResNeg (description="Load resistance negative bias resistor", quantity="?")
<i>DoubleId</i>	resR0 (description="Bolometer Electric Resistance at Temperature de", quantity="?")
<i>DoubleId</i>	delta (description="Reference Temperature for Bolometer Resistance", quantity="K")
<i>DoubleId</i>	capac (description="Electrical Capacitance of Cable", quantity="F")
<i>DoubleId</i>	condG0 (description="Bolometer Thermal Conductivity at Temperature T", quantity="")

	<i>DoubleId</i>	beta (description="Exponent for Temperature evolution of Bolometer Thermal Conductivity", quantity="")
<i>table dataset</i>	(description="Table for PLW array")	
	<i>Metadata</i>	
	<i>DoubleParameter</i>	tempT0 (description="Reference Temperature for Bolometer Thermal Conductivity T0")
	<i>StringId</i>	names (description="Channel names", quantity="")
	<i>DoubleId</i>	loadResPos (description="Load resistance positive bias resistor", quantity="?")
	<i>DoubleId</i>	loadResNeg (description="Load resistance negative bias resistor", quantity="?")
	<i>DoubleId</i>	resR0 (description="Bolometer Electric Resistance at Temperature de", quantity="?")
	<i>DoubleId</i>	delta (description="Reference Temperature for Bolometer Resistance", quantity="K")
	<i>DoubleId</i>	capac (description="Electrical Capacitance of Cable", quantity="F")
	<i>DoubleId</i>	condG0 (description="Bolometer Thermal Conductivity at Temperature T", quantity="")
	<i>DoubleId</i>	beta (description="Exponent for Temperature evolution of Bolometer Thermal Conductivity", quantity="")
<i>table dataset</i>	(description="Table for PTC array")	
	<i>Metadata</i>	
	<i>DoubleParameter</i>	tempT0 (description="Reference Temperature for Bolometer Thermal Conductivity T0")
	<i>StringId</i>	names (description="Channel names", quantity="")
	<i>DoubleId</i>	loadResPos (description="Load resistance positive bias resistor", quantity="?")
	<i>DoubleId</i>	loadResNeg (description="Load resistance negative bias resistor", quantity="?")
	<i>DoubleId</i>	resR0 (description="Bolometer Electric Resistance at Temperature de", quantity="?")
	<i>DoubleId</i>	delta (description="Reference Temperature for Bolometer Resistance", quantity="K")
	<i>DoubleId</i>	capac (description="Electrical Capacitance of Cable", quantity="F")
	<i>DoubleId</i>	condG0 (description="Bolometer Thermal Conductivity at Temperature T", quantity="")
	<i>DoubleId</i>	beta (description="Exponent for Temperature evolution of Bolometer Thermal Conductivity", quantity="")

12.2.10. SCalPhotDetAngOff

<i>product</i> (type="SCalPhotDetAngOff", description="Photometer Detector Angular Offset Table")	
<i>Metadata</i>	
<i>StringParameter</i>	type (description="Product Type Identification")

StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="Table for PSW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	yangle (description="Angular offset in Y-direction", quantity="" [4.84813681109536E-6 rad])
<i>DoubleId</i>	yangleError (description="Error on angular offset in Y-direction", quantity="" [4.84813681109536E-6 rad])
<i>DoubleId</i>	zangle (description="Angular offset in Z-direction", quantity="" [4.84813681109536E-6 rad])
<i>DoubleId</i>	zangleError (description="Error on angular offset in Z-direction", quantity="" [4.84813681109536E-6 rad])
<i>table dataset</i>	(description="Table for PMW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	yangle (description="Angular offset in Y-direction", quantity="" [4.84813681109536E-6 rad])
<i>DoubleId</i>	yangleError (description="Error on angular offset in Y-direction", quantity="" [4.84813681109536E-6 rad])
<i>DoubleId</i>	zangle (description="Angular offset in Z-direction", quantity="" [4.84813681109536E-6 rad])
<i>DoubleId</i>	zangleError (description="Error on angular offset in Z-direction", quantity="" [4.84813681109536E-6 rad])
<i>table dataset</i>	(description="Table for PLW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	yangle (description="Angular offset in Y-direction", quantity="" [4.84813681109536E-6 rad])
<i>DoubleId</i>	yangleError (description="Error on angular offset in Y-direction", quantity="" [4.84813681109536E-6 rad])
<i>DoubleId</i>	zangle (description="Angular offset in Z-direction", quantity="" [4.84813681109536E-6 rad])
<i>DoubleId</i>	zangleError (description="Error on angular offset in Z-direction", quantity="" [4.84813681109536E-6 rad])

12.2.11. SCalPhotElecCross

<i>product</i> (type="SCalPhotElecCross", description="Photometer Electrical Crosstalk Table")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="Table for PSW array")
<i>Metadata</i>	
<i>String1d</i>	names (description="Channel names", quantity="")
<i>Double1d</i>	PSWA1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWA2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWA3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWA4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWA5 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWA6 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWA7 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWA8 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWA9 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWA10 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWA11 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWA12 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWA13 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWA14 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWA15 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWB1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWB2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWB3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWB4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWB5 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWB6 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWB7 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWB8 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWB9 (description="Crosstalk values", quantity="")

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<i>Double1d</i>	PSWH1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH5 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH6 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH7 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH8 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH9 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH10 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH11 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH12 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH13 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH14 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH15 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH16 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ5 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ6 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ7 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ8 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ9 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ10 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ11 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ12 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ13 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ14 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ15 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWDP1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWDP2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWR1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWT1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWT2 (description="Crosstalk values", quantity="")
<i>table dataset</i>	(description="Table for PMW array")
<i>Metadata</i>	
<i>String1d</i>	names (description="Channel names", quantity="")
<i>Double1d</i>	PMWA1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PMWA2 (description="Crosstalk values", quantity="")

<i>Double1d</i>	PMWG12 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PMWG13 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PMWDP1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PMWDP2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PMWR1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PMWT1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PMWT2 (description="Crosstalk values", quantity="")
<i>table dataset</i>	(description="Table for PLW array")
<i>Metadata</i>	
<i>String1d</i>	names (description="Channel names", quantity="")
<i>Double1d</i>	PLWA1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWA2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWA3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWA4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWA5 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWA6 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWA7 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWA8 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWA9 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWB1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWB2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWB3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWB4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWB5 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWB6 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWB7 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWB8 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWC1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWC2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWC3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWC4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWC5 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWC6 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWC7 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWC8 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWC9 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWD1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWD2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWD3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWD4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWD5 (description="Crosstalk values", quantity="")

<i>DoubleId</i>	PLWD6 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PLWD7 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PLWD8 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PLWE1 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PLWE2 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PLWE3 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PLWE4 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PLWE5 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PLWE6 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PLWE7 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PLWE8 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PLWE9 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PLWDP1 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PLWDP2 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PLWR1 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PLWT1 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PLWT2 (description="Crosstalk values", quantity="")
<i>table dataset</i>	(description="Table for PTC array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	PTCP3 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PTCP2 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PTCP1 (description="Crosstalk values", quantity="")

12.2.12. SCalPhotLpfPar

<i>product</i> (type="SCalPhotLpfPar", description="Photometer Low Pass Filter Parameters")	
<i>Metadata</i>	
<i>StringParameter</i>	type (description="Product Type Identification")
<i>StringParameter</i>	creator (description="null")
<i>DateParameter</i>	creationDate (description="Creation date of this product")
<i>StringParameter</i>	description (description="Name of this product")
<i>StringParameter</i>	instrument (description="Instrument attached to this product")
<i>StringParameter</i>	modelName (description="null")
<i>DateParameter</i>	startDate (description="null")
<i>DateParameter</i>	endDate (description="null")
<i>StringParameter</i>	version (description="null")
<i>StringParameter</i>	fileName (description="null")
<i>table dataset</i>	(description="Low Pass Filter Parameters Table")
<i>Metadata</i>	
<i>IntId</i>	filter (description="Filter Number", quantity="none")

<i>DoubleId</i>	r1 (description="Filter Resistor 1", quantity="?")
<i>DoubleId</i>	r2 (description="Filter Resistor 2", quantity="?")
<i>DoubleId</i>	r3 (description="Filter Resistor 3", quantity="?")
<i>DoubleId</i>	r4 (description="Filter Resistor 4", quantity="?")
<i>DoubleId</i>	c1 (description="Filter Capacitor 1", quantity="F")
<i>DoubleId</i>	c2 (description="Filter Capacitor 2", quantity="F")

12.2.13. SCalPhotOptCross

<i>product</i> (type="SCalPhotOptCross", description="Photometer Optical Crosstalk Table")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="Table for PSW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	PSWA1 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PSWA2 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PSWA3 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PSWA4 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PSWA5 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PSWA6 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PSWA7 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PSWA8 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PSWA9 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PSWA10 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PSWA11 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PSWA12 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PSWA13 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PSWA14 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PSWA15 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PSWB1 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PSWB2 (description="Crosstalk values", quantity="")

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<i>Double1d</i>	PSWG9 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWG10 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWG11 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWG12 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWG13 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWG14 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWG15 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH5 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH6 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH7 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH8 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH9 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH10 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH11 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH12 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH13 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH14 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH15 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWH16 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ5 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ6 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ7 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ8 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ9 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ10 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ11 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ12 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ13 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ14 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PSWJ15 (description="Crosstalk values", quantity="")
<i>table dataset</i>	(description="Table for PMW array")
<i>Metadata</i>	
<i>String1d</i>	names (description="Channel names", quantity="")

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<i>Double1d</i>	PMWG10 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PMWG11 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PMWG12 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PMWG13 (description="Crosstalk values", quantity="")
<i>table dataset</i>	(description="Table for PLW array")
<i>Metadata</i>	
<i>String1d</i>	names (description="Channel names", quantity="")
<i>Double1d</i>	PLWA1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWA2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWA3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWA4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWA5 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWA6 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWA7 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWA8 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWA9 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWB1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWB2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWB3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWB4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWB5 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWB6 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWB7 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWB8 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWC1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWC2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWC3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWC4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWC5 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWC6 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWC7 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWC8 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWC9 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWD1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWD2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWD3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWD4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWD5 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWD6 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWD7 (description="Crosstalk values", quantity="")
<i>Double1d</i>	PLWD8 (description="Crosstalk values", quantity="")

<i>DoubleId</i>	PLWE1 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PLWE2 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PLWE3 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PLWE4 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PLWE5 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PLWE6 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PLWE7 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PLWE8 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PLWE9 (description="Crosstalk values", quantity="")

12.2.14. SCalPhotChanTimeConst

<i>product</i> (type="SCalPhotChanTimeConst", description="Photometer Channel Time Constant Table")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="Table for PSW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	timeConst (description="Detector time constant", quantity="s")
<i>DoubleId</i>	error (description="Error on time constant", quantity="s")
<i>DoubleId</i>	slowTimeConst (description="the slow detector time constant", quantity="s")
<i>DoubleId</i>	slowTimeConstError (description="Error in the slow detector time constant", quantity="s")
<i>DoubleId</i>	amplitude (description="time constant amplitude factor", quantity="none")
<i>DoubleId</i>	amplitudeError (description="Error in time constant amplitude factor", quantity="none")
<i>table dataset</i>	(description="Table for PMW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	timeConst (description="Detector time constant", quantity="s")

<i>DoubleId</i>	error (description="Error on time constant", quantity="s")
<i>DoubleId</i>	slowTimeConst (description="the slow detector time constant", quantity="s")
<i>DoubleId</i>	slowTimeConstError (description="Error in the slow detector time constant", quantity="s")
<i>DoubleId</i>	amplitude (description="time constant amplitude factor", quantity="none")
<i>DoubleId</i>	amplitudeError (description="Error in time constant amplitude factor", quantity="none")
<i>table dataset</i>	(description="Table for PLW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	timeConst (description="Detector time constant", quantity="s")
<i>DoubleId</i>	error (description="Error on time constant", quantity="s")
<i>DoubleId</i>	slowTimeConst (description="the slow detector time constant", quantity="s")
<i>DoubleId</i>	slowTimeConstError (description="Error in the slow detector time constant", quantity="s")
<i>DoubleId</i>	amplitude (description="time constant amplitude factor", quantity="none")
<i>DoubleId</i>	amplitudeError (description="Error in time constant amplitude factor", quantity="none")
<i>table dataset</i>	(description="Table for PTC array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	timeConst (description="Detector time constant", quantity="none")
<i>DoubleId</i>	error (description="Error on time constant", quantity="none")
<i>DoubleId</i>	slowTimeConst (description="the slow detector time constant", quantity="none")
<i>DoubleId</i>	slowTimeConstError (description="Error in the slow detector time constant", quantity="none")
<i>DoubleId</i>	amplitude (description="time constant amplitude factor", quantity="none")
<i>DoubleId</i>	amplitudeError (description="Error in time constant amplitude factor", quantity="none")

12.3. SPIRE Spectrometer Calibration Products

12.3.1. SCalSpecChanTimeOff

<i>product</i> (type="SCalSpecChanTimeOff", description="Spectrometer Channel Time Offset Table")	
<i>Metadata</i>	
<i>StringParameter</i>	type (description="Product Type Identification")
<i>StringParameter</i>	creator (description="null")

DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="Table for SSW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	offsetSingle (description="Time offset relative to single array readout", quantity="s")
<i>DoubleId</i>	offsetFull (description="Time offset relative to full array readout", quantity="s")
<i>table dataset</i>	(description="Table for SLW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	offsetSingle (description="Time offset relative to single array readout", quantity="s")
<i>DoubleId</i>	offsetFull (description="Time offset relative to full array readout", quantity="s")

12.3.2. SCalSpecChanMask

<i>product (type="SCalSpecChanMask", description="Spectrometer Channel Mask Table")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="Table for SSW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")

	<i>BoolId</i>	isDead (description="Dead Channels", quantity="")
	<i>BoolId</i>	isNoisy (description="Noisy Channels", quantity="")
<i>table dataset</i>	(description="Table for SLW array")	
<i>Metadata</i>		
	<i>StringId</i>	names (description="Channel names", quantity="")
	<i>BoolId</i>	isDead (description="Dead Channels", quantity="")
	<i>BoolId</i>	isNoisy (description="Noisy Channels", quantity="")

12.3.3. SCalSpecChanGain

<i>product (type="SCalSpecChanGain", description="Spectrometer Channel Gain Table")</i>		
<i>Metadata</i>		
StringParameter	type	(description="Product Type Identification")
StringParameter	creator	(description="null")
DateParameter	creationDate	(description="Creation date of this product")
StringParameter	description	(description="Name of this product")
StringParameter	instrument	(description="Instrument attached to this product")
StringParameter	modelName	(description="null")
DateParameter	startDate	(description="null")
DateParameter	endDate	(description="null")
StringParameter	version	(description="null")
DoubleParameter	refBiasFreq	(description="Reference bias frequency")
DoubleParameter	param	(description="Frequency dependency parameter")
StringParameter	fileName	(description="null")
<i>table dataset</i>	(description="Table for SSW array")	
<i>Metadata</i>		
	<i>StringId</i>	names (description="Channel names", quantity="")
	<i>DoubleId</i>	totGain (description="LIA plus amplifier gain", quantity="")
	<i>DoubleId</i>	jfetGain (description="JFET Gain", quantity="")
<i>table dataset</i>	(description="Table for SLW array")	
<i>Metadata</i>		
	<i>StringId</i>	names (description="Channel names", quantity="")
	<i>DoubleId</i>	totGain (description="LIA plus amplifier gain", quantity="")
	<i>DoubleId</i>	jfetGain (description="JFET Gain", quantity="")

12.3.4. SCalSpecLpfPar

<i>product (type="SCalSpecLpfPar", description="Spectrometer Low Pass Filter Parameters")</i>		
<i>Metadata</i>		

StringParameter	type (description="Product Type Identification")		
StringParameter	creator (description="null")		
DateParameter	creationDate (description="Creation date of this product")		
StringParameter	description (description="Name of this product")		
StringParameter	instrument (description="Instrument attached to this product")		
StringParameter	modelName (description="null")		
DateParameter	startDate (description="null")		
DateParameter	endDate (description="null")		
StringParameter	version (description="null")		
StringParameter	fileName (description="null")		
table dataset	<i>(description="Low Pass Filter Parameters Table")</i>		
<i>Metadata</i>			
	<i>IntId</i>	filter (description="Filter Number", quantity="none")	
	<i>DoubleId</i>	r1 (description="Filter Resistor 1", quantity="?")	
	<i>DoubleId</i>	r2 (description="Filter Resistor 2", quantity="?")	
	<i>DoubleId</i>	r3 (description="Filter Resistor 3", quantity="?")	
	<i>DoubleId</i>	r4 (description="Filter Resistor 4", quantity="?")	
	<i>DoubleId</i>	c1 (description="Filter Capacitor 1", quantity="F")	
	<i>DoubleId</i>	c2 (description="Filter Capacitor 2", quantity="F")	

12.3.5. SCalSpecBsmOps

<i>product (type="SCalSpecBsmOps", description="Spectrometer BSM Operations Table")</i>			
<i>Metadata</i>			
StringParameter	type (description="Product Type Identification")		
StringParameter	creator (description="null")		
DateParameter	creationDate (description="Creation date of this product")		
StringParameter	description (description="Name of this product")		
StringParameter	instrument (description="Instrument attached to this product")		
StringParameter	modelName (description="null")		
DateParameter	startDate (description="null")		
DateParameter	endDate (description="null")		
StringParameter	version (description="null")		
DoubleParameter	chopMaxSpeed (description="Speed limit for stabilisation in chop")		
DoubleParameter	jiggMaxSpeed (description="Speed limit for stabilisation in jigg")		
StringParameter	fileName (description="null")		
table dataset	<i>(description="4 Point Jiggle Map")</i>		
<i>Metadata</i>			
StringParameter	obsMode (description="null")		
	<i>StringId</i>	chopBeamId (description="Chopper Beam Identifier", quantity="")	
	<i>IntId</i>		

	chopSens (description="Target sensor signal in chop direction", quantity="")
<i>Int1d</i>	chopHiTol (description="Positive tolerance in chop sensor signal", quantity="")
<i>Int1d</i>	chopLoTol (description="Negative tolerance in chop sensor signa", quantity="")
<i>Int1d</i>	jiggId (description="Jiggle Position Identifier", quantity="")
<i>Int1d</i>	jiggSens (description="Target sensor signal in jiggle direction", quantity="")
<i>Int1d</i>	jiggHiTol (description="Positive tolerance in jiggle sensor signal", quantity="")
<i>Int1d</i>	jiggLoTol (description="Negative tolerance in jiggle sensor signal", quantity="")
<i>table dataset</i>	(description="16 Point Jiggle Map")
<i>Metadata</i>	
<i>StringParameter</i>	obsMode (description="null")
<i>String1d</i>	chopBeamId (description="Chopper Beam Identifier", quantity="")
<i>Int1d</i>	chopSens (description="Target sensor signal in chop direction", quantity="")
<i>Int1d</i>	chopHiTol (description="Positive tolerance in chop sensor signal", quantity="")
<i>Int1d</i>	chopLoTol (description="Negative tolerance in chop sensor signa", quantity="")
<i>Int1d</i>	jiggId (description="Jiggle Position Identifier", quantity="")
<i>Int1d</i>	jiggSens (description="Target sensor signal in jiggle direction", quantity="")
<i>Int1d</i>	jiggHiTol (description="Positive tolerance in jiggle sensor signal", quantity="")
<i>Int1d</i>	jiggLoTol (description="Negative tolerance in jiggle sensor signal", quantity="")

12.3.6. SCalSpecBsmPos

<i>product (type="SCalSpecBsmPos", description="Spectrometer BSM Position Table")</i>	
<i>Metadata</i>	
<i>StringParameter</i>	type (description="Product Type Identification")
<i>StringParameter</i>	creator (description="null")
<i>DateParameter</i>	creationDate (description="Creation date of this product")
<i>StringParameter</i>	description (description="Name of this product")
<i>StringParameter</i>	instrument (description="Instrument attached to this product")
<i>StringParameter</i>	modelName (description="null")
<i>DateParameter</i>	startDate (description="null")
<i>DateParameter</i>	endDate (description="null")
<i>StringParameter</i>	version (description="null")

LongParameter	chopRestPos (description="Chopper Sensor Rest Position")		
LongParameter	jiggRestPos (description="Jiggle Sensor Rest Position")		
LongParameter	chopHardLimit1 (description="Chopper Sensor Hard Limit 1")		
LongParameter	chopHardLimit2 (description="Chopper Sensor Hard Limit 2")		
LongParameter	jiggHardLimit1 (description="Jiggle Sensor Hard Limit 1")		
LongParameter	jiggHardLimit2 (description="Jiggle Sensor Hard Limit 2")		
LongParameter	chopSoftLimit1 (description="Chopper Sensor Soft Limit 1")		
LongParameter	chopSoftLimit2 (description="Chopper Sensor Soft Limit 2")		
LongParameter	jiggSoftLimit1 (description="Jiggle Sensor Soft Limit 1")		
LongParameter	jiggSoftLimit2 (description="Jiggle Sensor Soft Limit 2")		
StringParameter	fileName (description="null")		
table dataset	(description="BSM angles versus chopper and jiggle sensors values")		
<i>Metadata</i>			
<i>DoubleId</i>	yangle	(description="Chopper Angle", quantity="")	[4.84813681109536E-6 rad]
<i>DoubleId</i>	yangleError	(description="Error on Chopper Angle", quantity="")	[4.84813681109536E-6 rad]
<i>DoubleId</i>	zangle	(description="Jiggle Angle", quantity="")	[4.84813681109536E-6 rad]
<i>DoubleId</i>	zangleError	(description="Error on Jiggle Angle", quantity="")	[4.84813681109536E-6 rad]
<i>IntId</i>	chopSensor	(description="Chopper Sensor", quantity="")	
<i>IntId</i>	jiggSensor	(description="Jiggle Sensor", quantity="")	

12.3.7. SCalSpecBolPar

<i>product (type="SCalSpecBolPar", description="Spectrometer Bolometer Parameter Table")</i>			
<i>Metadata</i>			
StringParameter	type	(description="Product Type Identification")	
StringParameter	creator	(description="null")	
DateParameter	creationDate	(description="Creation date of this product")	
StringParameter	description	(description="Name of this product")	
StringParameter	instrument	(description="Instrument attached to this product")	
StringParameter	modelName	(description="null")	
DateParameter	startDate	(description="null")	
DateParameter	endDate	(description="null")	
StringParameter	version	(description="null")	
StringParameter	fileName	(description="null")	
table dataset	(description="Table for SSW array")		
<i>Metadata</i>			
DoubleParameter	tempT0	(description="Reference Temperature for Bolometer Thermal Conductivity T0")	

<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	loadResPos (description="Load resistance positive bias resistor", quantity="?")
<i>DoubleId</i>	loadResNeg (description="Load resistance negative bias resistor", quantity="?")
<i>DoubleId</i>	resR0 (description="Bolometer Electric Resistance at Temperature de", quantity="?")
<i>DoubleId</i>	delta (description="Reference Temperature for Bolometer Resistance", quantity="K")
<i>DoubleId</i>	capac (description="Electrical Capacitance of Cable", quantity="F")
<i>DoubleId</i>	condG0 (description="Bolometer Thermal Conductivity at Temperature T", quantity="")
<i>DoubleId</i>	beta (description="Exponent for Temperature evolution of Bolometer Thermal Conductivity", quantity="")
<i>table dataset</i>	(description="Table for SLW array")
<i>Metadata</i>	
<i>DoubleParameter</i>	tempT0 (description="Reference Temperature for Bolometer Thermal Conductivity T0")
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	loadResPos (description="Load resistance positive bias resistor", quantity="?")
<i>DoubleId</i>	loadResNeg (description="Load resistance negative bias resistor", quantity="?")
<i>DoubleId</i>	resR0 (description="Bolometer Electric Resistance at Temperature de", quantity="?")
<i>DoubleId</i>	delta (description="Reference Temperature for Bolometer Resistance", quantity="K")
<i>DoubleId</i>	capac (description="Electrical Capacitance of Cable", quantity="F")
<i>DoubleId</i>	condG0 (description="Bolometer Thermal Conductivity at Temperature T", quantity="")
<i>DoubleId</i>	beta (description="Exponent for Temperature evolution of Bolometer Thermal Conductivity", quantity="")

12.3.8. SCalSpecElecCross

<i>product (type="SCalSpecElecCross", description="Spectrometer Electrical Crosstalk Table")</i>	
<i>Metadata</i>	
<i>StringParameter</i>	type (description="Product Type Identification")
<i>StringParameter</i>	creator (description="null")
<i>DateParameter</i>	creationDate (description="Creation date of this product")
<i>StringParameter</i>	description (description="Name of this product")
<i>StringParameter</i>	instrument (description="Instrument attached to this product")
<i>StringParameter</i>	modelName (description="null")
<i>DateParameter</i>	startDate (description="null")

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DateParameter	endDate (description="null")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="Table for SSW array")
<i>Metadata</i>	
<i>String1d</i>	names (description="Channel names", quantity="")
<i>Double1d</i>	SSWA1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWA2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWA3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWA4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWB1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWB2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWB3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWB4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWB5 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWC1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWC2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWC3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWC4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWC5 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWC6 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWD1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWD2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWD3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWD4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWD5 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWD6 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWD7 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWE1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWE2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWE3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWE4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWE5 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWE6 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWF1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWF2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWF3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWF4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWF5 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWG1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWG2 (description="Crosstalk values", quantity="")

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<i>Double1d</i>	SSWG3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWG4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWDP1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWDP2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWN1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWN2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWN3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWN4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWN5 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWN6 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWR1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWT1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWT2 (description="Crosstalk values", quantity="")
<i>table dataset</i>	(description="Table for SLW array")
<i>Metadata</i>	
<i>String1d</i>	names (description="Channel names", quantity="")
<i>Double1d</i>	SLWA1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SLWA2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SLWA3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SLWB1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SLWB2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SLWB3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SLWB4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SLWC1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SLWC2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SLWC3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SLWC4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SLWC5 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SLWD1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SLWD2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SLWD3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SLWD4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SLWE1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SLWE2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SLWE3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SLWDP1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SLWDP2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SLWR1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SLWT1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SLWT2 (description="Crosstalk values", quantity="")

12.3.9. SCalSpecFluxConv

<i>product</i> (type="SCalSpecFluxConv", description="Spectrometer FluxConversion Table")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="table for SSW array")
<i>Metadata</i>	
<i>DoubleId</i>	wavenumber (description="Wavenumber", quantity="cm-1 [100.0 m-1]")
<i>DoubleId</i>	SSWA1 (description="Flux conversion factor for SSWA1", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWA2 (description="Flux conversion factor for SSWA2", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWA3 (description="Flux conversion factor for SSWA3", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWA4 (description="Flux conversion factor for SSWA4", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWB1 (description="Flux conversion factor for SSWB1", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWB2 (description="Flux conversion factor for SSWB2", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWB3 (description="Flux conversion factor for SSWB3", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWB4 (description="Flux conversion factor for SSWB4", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWB5 (description="Flux conversion factor for SSWB5", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWC1 (description="Flux conversion factor for SSWC1", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWC2 (description="Flux conversion factor for SSWC2", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWC3 (description="Flux conversion factor for SSWC3", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWC4 (description="Flux conversion factor for SSWC4", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	

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	SSWC5 (description="Flux conversion factor for SSWC5", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWC6 (description="Flux conversion factor for SSWC6", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWD1 (description="Flux conversion factor for SSWD1", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWD2 (description="Flux conversion factor for SSWD2", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWD3 (description="Flux conversion factor for SSWD3", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWD4 (description="Flux conversion factor for SSWD4", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWD5 (description="Flux conversion factor for SSWD5", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWD6 (description="Flux conversion factor for SSWD6", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWD7 (description="Flux conversion factor for SSWD7", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWE1 (description="Flux conversion factor for SSWE1", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWE2 (description="Flux conversion factor for SSWE2", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWE3 (description="Flux conversion factor for SSWE3", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWE4 (description="Flux conversion factor for SSWE4", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWE5 (description="Flux conversion factor for SSWE5", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWE6 (description="Flux conversion factor for SSWE6", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWF1 (description="Flux conversion factor for SSWF1", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWF2 (description="Flux conversion factor for SSWF2", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWF3 (description="Flux conversion factor for SSWF3", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWF4 (description="Flux conversion factor for SSWF4", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWF5 (description="Flux conversion factor for SSWF5", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWG1 (description="Flux conversion factor for SSWG1", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWG2 (description="Flux conversion factor for SSWG2", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWG3 (description="Flux conversion factor for SSWG3", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")
<i>DoubleId</i>	SSWG4 (description="Flux conversion factor for SSWG4", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]")

<i>table</i>	<i>(description="table for SLW array")</i>		
<i>dataset</i>			
<i>Metadata</i>			
<i>DoubleId</i>	wavenumber (<i>description="Wavenumber", quantity="cm-1 [100.0 m-1]"</i>)		
<i>DoubleId</i>	SLWA1 (<i>description="Flux conversion factor for SLWA1", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]"</i>)		
<i>DoubleId</i>	SLWA2 (<i>description="Flux conversion factor for SLWA2", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]"</i>)		
<i>DoubleId</i>	SLWA3 (<i>description="Flux conversion factor for SLWA3", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]"</i>)		
<i>DoubleId</i>	SLWB1 (<i>description="Flux conversion factor for SLWB1", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]"</i>)		
<i>DoubleId</i>	SLWB2 (<i>description="Flux conversion factor for SLWB2", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]"</i>)		
<i>DoubleId</i>	SLWB3 (<i>description="Flux conversion factor for SLWB3", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]"</i>)		
<i>DoubleId</i>	SLWB4 (<i>description="Flux conversion factor for SLWB4", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]"</i>)		
<i>DoubleId</i>	SLWC1 (<i>description="Flux conversion factor for SLWC1", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]"</i>)		
<i>DoubleId</i>	SLWC2 (<i>description="Flux conversion factor for SLWC2", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]"</i>)		
<i>DoubleId</i>	SLWC3 (<i>description="Flux conversion factor for SLWC3", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]"</i>)		
<i>DoubleId</i>	SLWC4 (<i>description="Flux conversion factor for SLWC4", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]"</i>)		
<i>DoubleId</i>	SLWC5 (<i>description="Flux conversion factor for SLWC5", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]"</i>)		
<i>DoubleId</i>	SLWD1 (<i>description="Flux conversion factor for SLWD1", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]"</i>)		
<i>DoubleId</i>	SLWD2 (<i>description="Flux conversion factor for SLWD2", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]"</i>)		
<i>DoubleId</i>	SLWD3 (<i>description="Flux conversion factor for SLWD3", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]"</i>)		
<i>DoubleId</i>	SLWD4 (<i>description="Flux conversion factor for SLWD4", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]"</i>)		
<i>DoubleId</i>	SLWE1 (<i>description="Flux conversion factor for SLWE1", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]"</i>)		
<i>DoubleId</i>	SLWE2 (<i>description="Flux conversion factor for SLWE2", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]"</i>)		
<i>DoubleId</i>	SLWE3 (<i>description="Flux conversion factor for SLWE3", quantity="[W/(m2.Hz)*1.0E-26]/V [1.0E-26 W/(m2.Hz.V)]"</i>)		

12.3.10. SCalSpecOptCross

<i>product (type="SCalSpecOptCross", description="Spectrometer Optical Crosstalk Table")</i>
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<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="Table for SSW array")
<i>Metadata</i>	
<i>String1d</i>	names (description="Channel names", quantity="")
<i>Double1d</i>	SSWA1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWA2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWA3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWA4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWB1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWB2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWB3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWB4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWB5 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWC1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWC2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWC3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWC4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWC5 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWC6 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWD1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWD2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWD3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWD4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWD5 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWD6 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWD7 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWE1 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWE2 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWE3 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWE4 (description="Crosstalk values", quantity="")
<i>Double1d</i>	SSWE5 (description="Crosstalk values", quantity="")

<i>DoubleId</i>	SSWE6 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SSWF1 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SSWF2 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SSWF3 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SSWF4 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SSWF5 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SSWG1 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SSWG2 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SSWG3 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SSWG4 (description="Crosstalk values", quantity="")
<i>table dataset</i>	(description="Table for SLW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	SLWA1 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SLWA2 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SLWA3 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SLWB1 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SLWB2 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SLWB3 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SLWB4 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SLWC1 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SLWC2 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SLWC3 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SLWC4 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SLWC5 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SLWD1 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SLWD2 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SLWD3 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SLWD4 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SLWE1 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SLWE2 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SLWE3 (description="Crosstalk values", quantity="")

12.3.11. SCalSpecDetAngOff

<i>product</i> (type="SCalSpecDetAngOff", description="Spectrometer Detector Angular Offset Table")	
<i>Metadata</i>	
<i>StringParameter</i>	type (description="Product Type Identification")
<i>StringParameter</i>	creator (description="null")
<i>DateParameter</i>	creationDate (description="Creation date of this product")
<i>StringParameter</i>	description (description="Name of this product")

StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="Table for SSW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	yangle (description="Angular offset in Y-direction", quantity=" [4.84813681109536E-6 rad]")
<i>DoubleId</i>	yangleError (description="Error on angular offset in Y-direction", quantity=" [4.84813681109536E-6 rad]")
<i>DoubleId</i>	zangle (description="Angular offset in Z-direction", quantity=" [4.84813681109536E-6 rad]")
<i>DoubleId</i>	zangleError (description="Error on angular offset in Z-direction", quantity=" [4.84813681109536E-6 rad]")
<i>table dataset</i>	(description="Table for SLW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	yangle (description="Angular offset in Y-direction", quantity=" [4.84813681109536E-6 rad]")
<i>DoubleId</i>	yangleError (description="Error on angular offset in Y-direction", quantity=" [4.84813681109536E-6 rad]")
<i>DoubleId</i>	zangle (description="Angular offset in Z-direction", quantity=" [4.84813681109536E-6 rad]")
<i>DoubleId</i>	zangleError (description="Error on angular offset in Z-direction", quantity=" [4.84813681109536E-6 rad]")

12.3.12. SCalSpecChanTimeConst

<i>product (type="SCalSpecChanTimeConst", description="Spectrometer Channel Time Constant Table")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	version (description="null")

StringParameter	fileName (description="null")
<i>table dataset</i>	(description="Table for SSW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	timeConst (description="Detector time constant", quantity="s")
<i>DoubleId</i>	error (description="Error on time constant", quantity="s")
<i>DoubleId</i>	slowTimeConst (description="the slow detector time constant", quantity="s")
<i>DoubleId</i>	slowTimeConstError (description="Error in the slow detector time constant", quantity="s")
<i>DoubleId</i>	amplitude (description="time constant amplitude factor", quantity="none")
<i>DoubleId</i>	amplitudeError (description="Error in time constant amplitude factor", quantity="none")
<i>table dataset</i>	(description="Table for SLW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	timeConst (description="Detector time constant", quantity="s")
<i>DoubleId</i>	error (description="Error on time constant", quantity="s")
<i>DoubleId</i>	slowTimeConst (description="the slow detector time constant", quantity="s")
<i>DoubleId</i>	slowTimeConstError (description="Error in the slow detector time constant", quantity="s")
<i>DoubleId</i>	amplitude (description="time constant amplitude factor", quantity="none")
<i>DoubleId</i>	amplitudeError (description="Error in time constant amplitude factor", quantity="none")

12.3.13. SCalSpecSmecZpd

<i>product (type="SCalSpecSmecZpd", description="Spectrometer Optical Encoder at ZPD Table")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	version (description="null")
StringParameter	fileName (description="null")

<i>table dataset</i>	(<i>description="Table for SSW array"</i>)
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	optEnc (description="Optical Encoder at ZPD", quantity="cm [0.01 m]")
<i>DoubleId</i>	optEncError (description="Error on Optical Encoder at ZPD", quantity="cm [0.01 m]")
<i>DoubleId</i>	lvdt (description="LVDT DC Signal at ZPD", quantity="V")
<i>DoubleId</i>	lvdtError (description="Error on LVDT DC Signal at ZPD", quantity="V")
<i>table dataset</i>	(<i>description="Table for SLW array"</i>)
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	optEnc (description="Optical Encoder at ZPD", quantity="cm [0.01 m]")
<i>DoubleId</i>	optEncError (description="Error on Optical Encoder at ZPD", quantity="cm [0.01 m]")
<i>DoubleId</i>	lvdt (description="LVDT DC Signal at ZPD", quantity="V")
<i>DoubleId</i>	lvdtError (description="Error on LVDT DC Signal at ZPD", quantity="V")

12.3.14. SCalSpecSmecStepFactor

<i>product (type="SCalSpecSmecStepFactor", description="Spectrometer Step Factor Table")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
<i>table dataset</i>	(<i>description="Table for SSW array"</i>)
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	stepFactor (description="Step Factor", quantity="none")
<i>table dataset</i>	(<i>description="Table for SLW array"</i>)
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")

StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	version (description="null")
DoubleParameter	resolutionSsw (description="resolution for SLW")
DoubleParameter	resolutionSlw (description="null")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="SSW non-linear phase")
<i>Metadata</i>	
<i>DoubleId</i>	wavenumber (description="Wavenumber", quantity="cm-1 [100.0 m-1]")
<i>DoubleId</i>	telePhase (description="Telescope phase", quantity="rad")
<i>DoubleId</i>	teleError (description="Error on telescope phase", quantity="rad")
<i>DoubleId</i>	scalPhase (description="SCAL phase", quantity="rad")
<i>DoubleId</i>	scalError (description="Error on SCAL phase", quantity="rad")
<i>table dataset</i>	(description="SLW non-linear phase")
<i>Metadata</i>	
<i>DoubleId</i>	wavenumber (description="Wavenumber", quantity="cm-1 [100.0 m-1]")
<i>DoubleId</i>	telePhase (description="Telescope phase", quantity="rad")
<i>DoubleId</i>	teleError (description="Error on telescope phase", quantity="rad")
<i>DoubleId</i>	scalPhase (description="SCAL phase", quantity="rad")
<i>DoubleId</i>	scalError (description="Error on SCAL phase", quantity="rad")

12.3.17. SCaISpecScalRsrf

<i>product (type="SCaISpecScalRsrf", description="Spectrometer SCAL Relative Spectral Response Function")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="RSRF intensity for SSW")

<i>Metadata</i>	
<i>DoubleId</i>	wavenumber (description="Wavenumber", quantity="cm-1 [100.0 m-1]")
<i>DoubleId</i>	rsrfA1 (description="Relative intensity pixel A1", quantity="")
<i>DoubleId</i>	rsrfA2 (description="Relative intensity pixel A2", quantity="")
<i>DoubleId</i>	rsrfA3 (description="Relative intensity pixel A3", quantity="")
<i>DoubleId</i>	rsrfA4 (description="Relative intensity pixel A4", quantity="")
<i>DoubleId</i>	rsrfB1 (description="Relative intensity pixel B1", quantity="")
<i>DoubleId</i>	rsrfB2 (description="Relative intensity pixel B2", quantity="")
<i>DoubleId</i>	rsrfB3 (description="Relative intensity pixel B3", quantity="")
<i>DoubleId</i>	rsrfB4 (description="Relative intensity pixel B4", quantity="")
<i>DoubleId</i>	rsrfB5 (description="Relative intensity pixel B5", quantity="")
<i>DoubleId</i>	rsrfC1 (description="Relative intensity pixel C1", quantity="")
<i>DoubleId</i>	rsrfC2 (description="Relative intensity pixel C2", quantity="")
<i>DoubleId</i>	rsrfC3 (description="Relative intensity pixel C3", quantity="")
<i>DoubleId</i>	rsrfC4 (description="Relative intensity pixel C4", quantity="")
<i>DoubleId</i>	rsrfC5 (description="Relative intensity pixel C5", quantity="")
<i>DoubleId</i>	rsrfC6 (description="Relative intensity pixel C6", quantity="")
<i>DoubleId</i>	rsrfD1 (description="Relative intensity pixel D1", quantity="")
<i>DoubleId</i>	rsrfD2 (description="Relative intensity pixel D2", quantity="")
<i>DoubleId</i>	rsrfD3 (description="Relative intensity pixel D3", quantity="")
<i>DoubleId</i>	rsrfD4 (description="Relative intensity pixel D4", quantity="")
<i>DoubleId</i>	rsrfD5 (description="Relative intensity pixel D5", quantity="")
<i>DoubleId</i>	rsrfD6 (description="Relative intensity pixel D6", quantity="")
<i>DoubleId</i>	rsrfD7 (description="Relative intensity pixel D7", quantity="")
<i>DoubleId</i>	rsrfE1 (description="Relative intensity pixel E1", quantity="")
<i>DoubleId</i>	rsrfE2 (description="Relative intensity pixel E2", quantity="")
<i>DoubleId</i>	rsrfE3 (description="Relative intensity pixel E3", quantity="")
<i>DoubleId</i>	rsrfE4 (description="Relative intensity pixel E4", quantity="")
<i>DoubleId</i>	rsrfE5 (description="Relative intensity pixel E5", quantity="")
<i>DoubleId</i>	rsrfE6 (description="Relative intensity pixel E6", quantity="")
<i>DoubleId</i>	rsrfF1 (description="Relative intensity pixel F1", quantity="")
<i>DoubleId</i>	rsrfF2 (description="Relative intensity pixel F2", quantity="")
<i>DoubleId</i>	rsrfF3 (description="Relative intensity pixel F3", quantity="")
<i>DoubleId</i>	rsrfF4 (description="Relative intensity pixel F4", quantity="")
<i>DoubleId</i>	rsrfF5 (description="Relative intensity pixel F5", quantity="")
<i>DoubleId</i>	rsrfG1 (description="Relative intensity pixel G1", quantity="")
<i>DoubleId</i>	rsrfG2 (description="Relative intensity pixel G2", quantity="")
<i>DoubleId</i>	rsrfG3 (description="Relative intensity pixel G3", quantity="")
<i>DoubleId</i>	rsrfG4 (description="Relative intensity pixel G4", quantity="")
<i>DoubleId</i>	rsrfDP1 (description="Relative intensity pixel DP1", quantity="")
<i>DoubleId</i>	rsrfDP2 (description="Relative intensity pixel DP2", quantity="")
<i>DoubleId</i>	rsrfN1 (description="Relative intensity pixel N1", quantity="")

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<i>DoubleId</i>	rsrfN2 (description="Relative intensity pixel N2", quantity="")
<i>DoubleId</i>	rsrfN3 (description="Relative intensity pixel N3", quantity="")
<i>DoubleId</i>	rsrfN4 (description="Relative intensity pixel N4", quantity="")
<i>DoubleId</i>	rsrfN5 (description="Relative intensity pixel N5", quantity="")
<i>DoubleId</i>	rsrfN6 (description="Relative intensity pixel N6", quantity="")
<i>DoubleId</i>	rsrfR1 (description="Relative intensity pixel R1", quantity="")
<i>DoubleId</i>	rsrfT1 (description="Relative intensity pixel T1", quantity="")
<i>DoubleId</i>	rsrfT2 (description="Relative intensity pixel T2", quantity="")
<i>table dataset</i>	(description="RSRF phase for SSW")
<i>Metadata</i>	
<i>DoubleId</i>	wavenumber (description="Wavenumber", quantity="cm-1 [100.0 m-1]")
<i>DoubleId</i>	phaseA1 (description="Phase pixel A1", quantity="rad")
<i>DoubleId</i>	phaseA2 (description="Phase pixel A2", quantity="rad")
<i>DoubleId</i>	phaseA3 (description="Phase pixel A3", quantity="rad")
<i>DoubleId</i>	phaseA4 (description="Phase pixel A4", quantity="rad")
<i>DoubleId</i>	phaseB1 (description="Phase pixel B1", quantity="rad")
<i>DoubleId</i>	phaseB2 (description="Phase pixel B2", quantity="rad")
<i>DoubleId</i>	phaseB3 (description="Phase pixel B3", quantity="rad")
<i>DoubleId</i>	phaseB4 (description="Phase pixel B4", quantity="rad")
<i>DoubleId</i>	phaseB5 (description="Phase pixel B5", quantity="rad")
<i>DoubleId</i>	phaseC1 (description="Phase pixel C1", quantity="rad")
<i>DoubleId</i>	phaseC2 (description="Phase pixel C2", quantity="rad")
<i>DoubleId</i>	phaseC3 (description="Phase pixel C3", quantity="rad")
<i>DoubleId</i>	phaseC4 (description="Phase pixel C4", quantity="rad")
<i>DoubleId</i>	phaseC5 (description="Phase pixel C5", quantity="rad")
<i>DoubleId</i>	phaseC6 (description="Phase pixel C6", quantity="rad")
<i>DoubleId</i>	phaseD1 (description="Phase pixel D1", quantity="rad")
<i>DoubleId</i>	phaseD2 (description="Phase pixel D2", quantity="rad")
<i>DoubleId</i>	phaseD3 (description="Phase pixel D3", quantity="rad")
<i>DoubleId</i>	phaseD4 (description="Phase pixel D4", quantity="rad")
<i>DoubleId</i>	phaseD5 (description="Phase pixel D5", quantity="rad")
<i>DoubleId</i>	phaseD6 (description="Phase pixel D6", quantity="rad")
<i>DoubleId</i>	phaseD7 (description="Phase pixel D7", quantity="rad")
<i>DoubleId</i>	phaseE1 (description="Phase pixel E1", quantity="rad")
<i>DoubleId</i>	phaseE2 (description="Phase pixel E2", quantity="rad")
<i>DoubleId</i>	phaseE3 (description="Phase pixel E3", quantity="rad")
<i>DoubleId</i>	phaseE4 (description="Phase pixel E4", quantity="rad")
<i>DoubleId</i>	phaseE5 (description="Phase pixel E5", quantity="rad")
<i>DoubleId</i>	phaseE6 (description="Phase pixel E6", quantity="rad")
<i>DoubleId</i>	phaseF1 (description="Phase pixel F1", quantity="rad")
<i>DoubleId</i>	phaseF2 (description="Phase pixel F2", quantity="rad")

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<i>DoubleId</i>	phaseF3 (description="Phase pixel F3", quantity="rad")
<i>DoubleId</i>	phaseF4 (description="Phase pixel F4", quantity="rad")
<i>DoubleId</i>	phaseF5 (description="Phase pixel F5", quantity="rad")
<i>DoubleId</i>	phaseG1 (description="Phase pixel G1", quantity="rad")
<i>DoubleId</i>	phaseG2 (description="Phase pixel G2", quantity="rad")
<i>DoubleId</i>	phaseG3 (description="Phase pixel G3", quantity="rad")
<i>DoubleId</i>	phaseG4 (description="Phase pixel G4", quantity="rad")
<i>DoubleId</i>	phaseDP1 (description="Phase pixel DP1", quantity="rad")
<i>DoubleId</i>	phaseDP2 (description="Phase pixel DP2", quantity="rad")
<i>DoubleId</i>	phaseN1 (description="Phase pixel N1", quantity="rad")
<i>DoubleId</i>	phaseN2 (description="Phase pixel N2", quantity="rad")
<i>DoubleId</i>	phaseN3 (description="Phase pixel N3", quantity="rad")
<i>DoubleId</i>	phaseN4 (description="Phase pixel N4", quantity="rad")
<i>DoubleId</i>	phaseN5 (description="Phase pixel N5", quantity="rad")
<i>DoubleId</i>	phaseN6 (description="Phase pixel N6", quantity="rad")
<i>DoubleId</i>	phaseR1 (description="Phase pixel R1", quantity="rad")
<i>DoubleId</i>	phaseT1 (description="Phase pixel T1", quantity="rad")
<i>DoubleId</i>	phaseT2 (description="Phase pixel T2", quantity="rad")
<i>table dataset</i>	(description="RSRF intensity for SLW")
<i>Metadata</i>	
<i>DoubleId</i>	wavenumber (description="Wavenumber", quantity="cm-1 [100.0 m-1]")
<i>DoubleId</i>	rsrfA1 (description="Relative intensity pixel A1", quantity="")
<i>DoubleId</i>	rsrfA2 (description="Relative intensity pixel A2", quantity="")
<i>DoubleId</i>	rsrfA3 (description="Relative intensity pixel A3", quantity="")
<i>DoubleId</i>	rsrfB1 (description="Relative intensity pixel B1", quantity="")
<i>DoubleId</i>	rsrfB2 (description="Relative intensity pixel B2", quantity="")
<i>DoubleId</i>	rsrfB3 (description="Relative intensity pixel B3", quantity="")
<i>DoubleId</i>	rsrfB4 (description="Relative intensity pixel B4", quantity="")
<i>DoubleId</i>	rsrfC1 (description="Relative intensity pixel C1", quantity="")
<i>DoubleId</i>	rsrfC2 (description="Relative intensity pixel C2", quantity="")
<i>DoubleId</i>	rsrfC3 (description="Relative intensity pixel C3", quantity="")
<i>DoubleId</i>	rsrfC4 (description="Relative intensity pixel C4", quantity="")
<i>DoubleId</i>	rsrfC5 (description="Relative intensity pixel C5", quantity="")
<i>DoubleId</i>	rsrfD1 (description="Relative intensity pixel D1", quantity="")
<i>DoubleId</i>	rsrfD2 (description="Relative intensity pixel D2", quantity="")
<i>DoubleId</i>	rsrfD3 (description="Relative intensity pixel D3", quantity="")
<i>DoubleId</i>	rsrfD4 (description="Relative intensity pixel D4", quantity="")
<i>DoubleId</i>	rsrfE1 (description="Relative intensity pixel E1", quantity="")
<i>DoubleId</i>	rsrfE2 (description="Relative intensity pixel E2", quantity="")
<i>DoubleId</i>	rsrfE3 (description="Relative intensity pixel E3", quantity="")
<i>DoubleId</i>	rsrfDP1 (description="Relative intensity pixel DP1", quantity="")

	<i>DoubleId</i>	rsrfDP2 (description="Relative intensity pixel DP2", quantity="")
	<i>DoubleId</i>	rsrfR1 (description="Relative intensity pixel R1", quantity="")
	<i>DoubleId</i>	rsrfT1 (description="Relative intensity pixel T1", quantity="")
	<i>DoubleId</i>	rsrfT2 (description="Relative intensity pixel T2", quantity="")
<i>table dataset</i>	(description="RSRF phase for SLW")	
	<i>Metadata</i>	
	<i>DoubleId</i>	wavenumber (description="Wavenumber", quantity="cm-1 [100.0 m-1]")
	<i>DoubleId</i>	phaseA1 (description="Phase pixel A1", quantity="rad")
	<i>DoubleId</i>	phaseA2 (description="Phase pixel A2", quantity="rad")
	<i>DoubleId</i>	phaseA3 (description="Phase pixel A3", quantity="rad")
	<i>DoubleId</i>	phaseB1 (description="Phase pixel B1", quantity="rad")
	<i>DoubleId</i>	phaseB2 (description="Phase pixel B2", quantity="rad")
	<i>DoubleId</i>	phaseB3 (description="Phase pixel B3", quantity="rad")
	<i>DoubleId</i>	phaseB4 (description="Phase pixel B4", quantity="rad")
	<i>DoubleId</i>	phaseC1 (description="Phase pixel C1", quantity="rad")
	<i>DoubleId</i>	phaseC2 (description="Phase pixel C2", quantity="rad")
	<i>DoubleId</i>	phaseC3 (description="Phase pixel C3", quantity="rad")
	<i>DoubleId</i>	phaseC4 (description="Phase pixel C4", quantity="rad")
	<i>DoubleId</i>	phaseC5 (description="Phase pixel C5", quantity="rad")
	<i>DoubleId</i>	phaseD1 (description="Phase pixel D1", quantity="rad")
	<i>DoubleId</i>	phaseD2 (description="Phase pixel D2", quantity="rad")
	<i>DoubleId</i>	phaseD3 (description="Phase pixel D3", quantity="rad")
	<i>DoubleId</i>	phaseD4 (description="Phase pixel D4", quantity="rad")
	<i>DoubleId</i>	phaseE1 (description="Phase pixel E1", quantity="rad")
	<i>DoubleId</i>	phaseE2 (description="Phase pixel E2", quantity="rad")
	<i>DoubleId</i>	phaseE3 (description="Phase pixel E3", quantity="rad")
	<i>DoubleId</i>	phaseDP1 (description="Phase pixel DP1", quantity="rad")
	<i>DoubleId</i>	phaseDP2 (description="Phase pixel DP2", quantity="rad")
	<i>DoubleId</i>	phaseR1 (description="Phase pixel R1", quantity="rad")
	<i>DoubleId</i>	phaseT1 (description="Phase pixel T1", quantity="rad")
	<i>DoubleId</i>	phaseT2 (description="Phase pixel T2", quantity="rad")

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13.1. HPP

<i>product</i> (<i>type="HPP", description="Herschel Pointing Product"</i>)	
<i>Metadata</i>	
StringParameter	type (description="Herschel Pointing Product")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	author (description="author of data (site)")
StringParameter	raDecSys (description="Coordinate reference frame for the RA, Dec")
DoubleParameter	equinox (description="Equinox of reference system")
StringParameter	telescope (description="Herschel")
StringParameter	siamId (description="Reference to the applicable SIAM")
LongParameter	odNumber (description="Operational Day")
<i>table dataset</i>	(<i>description="Pointing table"</i>)
<i>Metadata</i>	
LongParameter	obsid (description="Observation ID")
LongParameter	bbid (description="Building Block ID")
LongParameter	rasterLineNum (description="Raster line number")
LongParameter	rasterColumnNum (description="Raster Column number")
LongParameter	scanLineNum (description="Scan line number")
LongParameter	nodCycleNum (description="Switching/nodding cycle number")
BooleanParameter	abPosId (description="A/B position identifier")
StringParameter	pointModeId (description="Point mode ID")
StringParameter	apertureId (description="Instrument aperture")
BooleanParameter	serendipityFlag (description="SPIRE serendipity mode flag")
StringParameter	acmsMode (description="ACMS mode")
LongParameter	startDate (description="First product time key")
LongParameter	DATE_OBS (description="First product time key")
LongParameter	endDate (description="Last product time key")
<i>Long1d</i>	obt (description="On board time", quantity="none")
<i>Double2d</i>	commandQuat (description="Commanded Pointing quaternion", quantity="none")
<i>Double2d</i>	filterQuat (description="Filtered attitude quaternion", quantity="none")
<i>Double2d</i>	

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	gyroPropQuat (description="Gyro-propagated attitude quaternion", quantity="none")
<i>Double1d</i>	strQuality (description="STR quality index (arcsec)", quantity="none")
<i>Double1d</i>	gyroQuality (description="Gyro-propagated quality index (arcsec)", quantity="none")
<i>Double2d</i>	angVelocity (description="S/C angular velocity (arcsec/sec)", quantity="none")
<i>Double2d</i>	angVelocityError (description="S/C angular velocity error (arcsec/sec)", quantity="none")
<i>Bool1d</i>	isConstantVelocity (description="Constant velocity flag", quantity="none")
<i>Bool1d</i>	isStrInterlacing (description="STR interlacing flag. 1 if active, 0 otherwise", quantity="none")
<i>Int1d</i>	qualityFlag (description="Quality flag", quantity="none")
<i>Bool1d</i>	isSlew (description="Slew flag", quantity="none")
<i>Bool1d</i>	isOutOfField (description="Out of field flag", quantity="none")
<i>Bool1d</i>	isOffPosition (description="Off-position flag", quantity="none")
<i>Bool1d</i>	isOnTarget (description="On-target flag", quantity="none")
<i>table dataset</i>	(description="Pointing table")
<i>Metadata</i>	
LongParameter	obsid (description="Observation ID")
LongParameter	bbid (description="Building Block ID")
LongParameter	rasterLineNum (description="Raster line number")
LongParameter	rasterColumnNum (description="Raster Column number")
LongParameter	scanLineNum (description="Scan line number")
LongParameter	nodCycleNum (description="Switching/nodding cycle number")
BooleanParameter	abPosId (description="A/B position identifier")
StringParameter	pointModeId (description="Point mode ID")
StringParameter	apertureId (description="Instrument aperture")
BooleanParameter	serendipityFlag (description="SPIRE serendipity mode flag")
StringParameter	acmsMode (description="ACMS mode")
LongParameter	startDate (description="First product time key")
LongParameter	DATE_OBS (description="First product time key")
LongParameter	endDate (description="Last product time key")
<i>Long1d</i>	obt (description="On board time", quantity="none")
<i>Double2d</i>	commandQuat (description="Commanded Pointing quaternion", quantity="none")
<i>Double2d</i>	filterQuat (description="Filtered attitude quaternion", quantity="none")
<i>Double2d</i>	gyroPropQuat (description="Gyro-propagated attitude quaternion", quantity="none")
<i>Double1d</i>	strQuality (description="STR quality index (arcsec)", quantity="none")
<i>Double1d</i>	gyroQuality (description="Gyro-propagated quality index (arcsec)", quantity="none")
<i>Double2d</i>	angVelocity (description="S/C angular velocity (arcsec/sec)", quantity="none")

<i>Double2d</i>	angVelocityError (description="S/C angular velocity error (arcsec/sec)", quantity="none")
<i>Bool1d</i>	isConstantVelocity (description="Constant velocity flag", quantity="none")
<i>Bool1d</i>	isStrInterlacing (description="STR interlacing flag. 1 if active, 0 otherwise", quantity="none")
<i>Int1d</i>	qualityFlag (description="Quality flag", quantity="none")
<i>Bool1d</i>	isSlew (description="Slew flag", quantity="none")
<i>Bool1d</i>	isOutOfField (description="Out of field flag", quantity="none")
<i>Bool1d</i>	isOffPosition (description="Off-position flag", quantity="none")
<i>Bool1d</i>	isOnTarget (description="On-target flag", quantity="none")

13.2. auxOrbitp

<i>product</i> (type="auxOrbitp", description="Herschel Predicted Orbit Ephemeris Product")	
<i>Metadata</i>	
StringParameter	type (description="Herschel Predicted Orbit Ephemeris Product")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	author (description="author of data (site)")
StringParameter	telescope (description="Herschel")
DoubleParameter	equinox (description="Equinox of reference system")
StringParameter	centerName (description="Origin of reference frame")
StringParameter	refFrame (description="Name of reference frame for ephemeris data")
StringParameter	timeSystem (description="Time system for ephemeris data and metadata")
<i>table</i>	(description="null")
<i>dataset</i>	
<i>Metadata</i>	
DateParameter	startDate (description="First product time key in dataset")
DateParameter	endDate (description="Last product key within dataset")
StringParameter	interpMethod (description="null")
StringParameter	interpDegree (description="null")
DateParameter	DATE_OBS (description="First product time key in dataset")
<i>Long1d</i>	recordTime (description="Time key index (TAI)", quantity="TAI")
<i>Long1d</i>	onBoardTime (description="OnboardTime (TAI ?)", quantity="TAI")
<i>Double2d</i>	orbitPos (description="Cartesian components of S/C position", quantity="km [1000.0 m]")
<i>Double2d</i>	orbitVel (description="Cartesian components of S/C velocity", quantity="km/s [1000.0 m/s]")

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DateParameter	endDate (description="End date of this product")				
StringParameter	author (description="author of data (site)")				
StringParameter	telescope (description="Herschel")				
LongParameter	odNumber (description="Operational Day Number count")				
table dataset	(description="null")				
Metadata					
	LongId	tcIndex (description="Telecommand Index Key", quantity="none")			
	LongId	tcId (description="HCSS Telecommand ID", quantity="none")			
	StringId	name (description="TC name from MIB", quantity="none")			
	StringId	desc (description="TC description", quantity="none")			
	StringId	seq (description="Parent sequence name", quantity="none")			
	LongId	releaseTime (description="Release Time", quantity="TAI")			
	LongId	executionTime (description="Execution time", quantity="TAI")			
	StringId	staticPtvCheck (description="Static PTV check state", quantity="none")			
	StringId	dynamicPtvCheck (description="Dynamic PTV check state", quantity="none")			
	StringId	cevCheck (description="CEV check state", quantity="none")			
	StringId	group (description="Group flag value", quantity="none")			
	StringId	block (description="Block flag value", quantity="none")			
	StringId	interlockStatus (description="Interlock status", quantity="none")			
	StringId	sourceType (description="Source type", quantity="none")			
	StringId	source (description="Source workstation ID", quantity="none")			
	LongId	updateTime (description="Update time", quantity="TAI")			
	StringId	verificationStatus (description="Verification status", quantity="none")			
table dataset	(description="null")				
Metadata					
	LongId	tcIndex (description="Telecommand Index Key", quantity="none")			
	StringId	name (description="TC name from MIB", quantity="none")			
	StringId	desc (description="TC description", quantity="none")			
	StringId	valueRepresentation (description="Parent sequence name", quantity="none")			
	StringId	radix (description="Packet type", quantity="none")			
	StringId	value (description="Execution time", quantity="none")			
table dataset	(description="null")				
Metadata					
	LongId	tcIndex (description="Telecommand Index Key", quantity="none")			
	StringId	bitPattern (description="Bit pattern in hexadecimal string format", quantity="none")			

13.5. auxTimec

<i>product (type="auxTimec", description="Herschel Time Correlation Product")</i>			
<i>Metadata</i>			
StringParameter	type	(description="Herschel Time Correlation Product")	
StringParameter	creator	(description="null")	
DateParameter	creationDate	(description="Creation date of this product")	
StringParameter	description	(description="null")	
StringParameter	instrument	(description="null")	
StringParameter	modelName	(description="null")	
DateParameter	startDate	(description="Start date of this product")	
DateParameter	endDate	(description="End date of this product")	
StringParameter	author	(description="author of data (site)")	
StringParameter	telescope	(description="Herschel")	
LongParameter	odNumber	(description="Operational Day Number count")	
<i>table dataset (description="null")</i>			
<i>Metadata</i>			
	<i>LongId</i>	recordTime	(description="TAI Time key index", quantity="TAI")
	<i>LongId</i>	scet	(description="SCET Time UTC Reference", quantity="UTC")
	<i>LongId</i>	ctr	(description="CTR Onboard Central Time Reference TAI (CUC for", quantity="TAI")
	<i>LongId</i>	corScet	(description="Correlated SCET Time UTC Reference", quantity="UTC")
	<i>DoubleId</i>	gradient	(description="Gradient of the coefficient", quantity="none")
	<i>DoubleId</i>	offset	(description="Offset of the coefficient", quantity="none")
	<i>ByteId</i>	validAccuracy	(description="Accuracy and validity flag of the parameters", quantity="none")
	<i>ShortId</i>	numTimeCouples	(description="Number of time couples", quantity="none")
	<i>ByteId</i>	tcoMode	(description="Time Correlation Mode", quantity="none")
	<i>ByteId</i>	resetCheckStatus	(description="Status of OBT rest checking", quantity="none")
	<i>ByteId</i>	msbMaskStatus	(description="Status of OBT MSB masking", quantity="none")
	<i>LongId</i>	resetCheckSpid	(description="SPID of TM packet used for OBT reset checking", quantity="none")

13.6. auxRawSREM

<i>product (type="auxRawSREM", description="Herschel Raw SREM Product")</i>			
<i>Metadata</i>			
StringParameter	type	(description="Herschel Calibrated SREM Product")	
StringParameter	creator	(description="null")	

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DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	author (description="author of data (site)")
StringParameter	telescope (description="Herschel")
LongParameter	odNumber (description="Operational Day Number count")
<i>table dataset</i>	(description="null")
<i>Metadata</i>	
DateParameter	startDate (description="First product time key in dataset")
DateParameter	endDate (description="Last product key within dataset")
DateParameter	DATE_OBS (description="First product time key in dataset")
<i>LongId</i>	startAccumTime (description="Start accumulation time (assumed TAI", quantity="TAI")
<i>LongId</i>	endAccumTime (description="End accumulation time (assumed TAI", quantity="TAI")
<i>LongId</i>	tc1Raw (description="Total counts in D1 (protons tc1 raw)", quantity="none")
<i>LongId</i>	s12Raw (description="Proton alarm (s12 raw)", quantity="none")
<i>LongId</i>	s13Raw (description="Single protons (s13 raw)", quantity="none")
<i>LongId</i>	s14Raw (description="Single protons (s14 raw)", quantity="none")
<i>LongId</i>	s15Raw (description="Single protons (s15 raw)", quantity="none")
<i>LongId</i>	tc2Raw (description="Total counts in D2 (protons tc2 raw)", quantity="none")
<i>LongId</i>	s25Raw (description="Heavy ions (s25 raw)", quantity="none")
<i>LongId</i>	c1Raw (description="Coincidence, protons (c1 raw)", quantity="none")
<i>LongId</i>	c2Raw (description="Coincidence, protons (c2 raw)", quantity="none")
<i>LongId</i>	c3Raw (description="Coincidence, protons (c3 raw)", quantity="none")
<i>LongId</i>	c4Raw (description="Coincidence, protons (c4 raw)", quantity="none")
<i>LongId</i>	tc3Raw (description="Total counts in D3 (electrons)", quantity="none")
<i>LongId</i>	s32Raw (description="Electron alarm (s32 raw)", quantity="none")
<i>LongId</i>	s33Raw (description="Proton count (s33 raw)", quantity="none")
<i>LongId</i>	s34Raw (description="Proton count (s34 raw)", quantity="none")
<i>LongId</i>	pl1 (description="Dead time correction count D1", quantity="none")
<i>LongId</i>	pl2 (description="Dead time correction count D2", quantity="none")
<i>LongId</i>	pl3 (description="Dead time correction count D3", quantity="none")
<i>IntId</i>	t8Raw (description="D1/D2 temperature sensor", quantity="none")
<i>IntId</i>	t9Raw (description="D3 temperature sensor", quantity="none")
<i>table dataset</i>	(description="null")

<i>Metadata</i>	
DateParameter	startDate (description="First product time key in dataset")
DateParameter	endDate (description="Last product key within dataset")
DateParameter	DATE_OBS (description="First product time key in dataset")
<i>LongId</i>	AcqTime (description="Aquisition time (assumed TAI", quantity="TAI")
<i>Int1d</i>	t7Raw (description="Internal temperature sensor T7", quantity="none")
<i>Int1d</i>	d7Raw (description="Total dose in internal RadFET (D7 raw)", quantity="none")
<i>Int1d</i>	vCalRef1Raw (description="Calibration reference voltage 1", quantity="none")
<i>Int1d</i>	vCalRef2Raw (description="Calibration reference voltage 2", quantity="none")
<i>Int1d</i>	vCalRef3Raw (description="Calibration reference voltage 3", quantity="none")
<i>Int1d</i>	vCalRef4Raw (description="Calibration reference voltage 4", quantity="none")
<i>Int1d</i>	cCalRef1Raw (description="Calibration temperature", quantity="none")
<i>Int1d</i>	cCalRef2Raw (description="CALibration offset temperature", quantity="none")

13.7. auxCalSREM

<i>product (type="auxCalSREM", description="Herschel Calibrated SREM Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Herschel Calibrated SREM Product")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	author (description="author of data (site)")
StringParameter	telescope (description="Herschel")
LongParameter	odNumber (description="Operational Day Number count")
<i>table dataset</i>	(description="null")
<i>Metadata</i>	
DateParameter	startDate (description="First product time key in dataset")
DateParameter	endDate (description="Last product key within dataset")
DoubleParameter	protonE1 (description="Proton energy E1, MeV")
DoubleParameter	protonE2 (description="Proton energy E2, MeV")
DoubleParameter	protonE3 (description="Proton energy E3, MeV")

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DoubleParameter	protonE4 (description="Proton energy E4, MeV")
DoubleParameter	protonE5 (description="Proton energy E5, MeV")
DoubleParameter	electronE1 (description="Electron energy E1, MeV")
DoubleParameter	electronE2 (description="Electron energy E2, MeV")
DoubleParameter	electronE3 (description="Electron energy E3, MeV")
DoubleParameter	electronE4 (description="Electron energy E4, MeV")
DateParameter	DATE_OBS (description="First product time key in dataset")
<i>Long1d</i>	accumEpoch (description="Accumulation epoch (TAI", quantity="TAI")
<i>Double1d</i>	countRateD1 (description="Count rate in detector D1", quantity="Hz")
<i>Double1d</i>	countRateD2 (description="Count rate in detector D2", quantity="Hz")
<i>Double1d</i>	countRateD3 (description="Count rate in detector D3", quantity="Hz")
<i>Double2d</i>	protonDiffFlux (description="Omnidirectional differential proton flux", quantity="1/(MeV.cm2.s) [6.2415097445115248E16 1/(J.m2.s)]")
<i>Double2d</i>	protonDiffFluxErr (description="Omnidirectional differential proton flux error", quantity="1/(MeV.cm2.s) [6.2415097445115248E16 1/(J.m2.s)]")
<i>Double2d</i>	electronDiffFlux (description="Omnidirectional differential electron flux", quantity="1/(MeV.cm2.s) [6.2415097445115248E16 1/(J.m2.s)]")
<i>Double2d</i>	electronDiffFluxErr (description="Omnidirectional differential electron flux error", quantity="1/(MeV.cm2.s) [6.2415097445115248E16 1/(J.m2.s)]")
<i>Double1d</i>	anisotropyIndex (description="Anisotropy index", quantity="none")
<i>Double1d</i>	d12Temp (description="D1/D2 temperature", quantity="K")
<i>Double1d</i>	d3Temp (description="D3 temperature", quantity="K")
<i>Double2d</i>	orbitPos (description="Spacecraft orbital position (EME2000 frame)", quantity="km [1000.0 m]")
<i>Double1d</i>	ra (description="Spacecraft pointing RA", quantity="degree [0.017453292519943295 rad]")
<i>Double1d</i>	dec (description="Spacecraft pointing Dec", quantity="degree [0.017453292519943295 rad]")
<i>Double1d</i>	posAngle (description="Spacecraft pointing Position angle", quantity="degree [0.017453292519943295 rad]")
<i>table dataset</i>	(description="null")
<i>Metadata</i>	
DateParameter	startDate (description="First product time key in dataset")
DateParameter	endDate (description="Last product key within dataset")
DateParameter	DATE_OBS (description="First product time key in dataset")
<i>Long1d</i>	AcqTime (description="Aquisition time (assumed TAI", quantity="TAI")
<i>Double1d</i>	doseRadFet (description="Total dose in internal RadFET", quantity="Rads [0.01 J/kg]")
<i>Double1d</i>	radFetTemp (description="Internal RadFET temperature", quantity="K")

13.8. auxUpl

<i>product (type="auxUpl", description="Herschel Uplink Product")</i>		
<i>Metadata</i>		
StringParameter	type (description="Herschel Uplink Product")	
StringParameter	creator (description="null")	
DateParameter	creationDate (description="Creation date of this product")	
StringParameter	description (description="null")	
StringParameter	instrument (description="null")	
StringParameter	modelName (description="null")	
DateParameter	startDate (description="Start date of this product")	
DateParameter	endDate (description="End date of this product")	
LongParameter	obsid (description="Observation ID")	
StringParameter	author (description="author of data (site)")	
StringParameter	telescope (description="Herschel")	
LongParameter	odnumber (description="Operational Day Number count")	

Part III. Appendices

Appendix A. Common metadata keywords in Herschel products

The following table lists the main Herschel metadata keywords, their description, and their expression in FITS.

Herschel Name	DP	Description	FITS-Name
acmsMode		ACMS mode	ACMSMODE
activeStrId		identification of the active STR	ACTIVSTR
aorLabel		AOR label as entered in HSpot	AOR
aot		AOT Identifier	AOT
aperture		Instrument aperture in use	APERTURE
apid		Application Programme Identifier	APID
arrayName		Name of Detector Array	DETECTOR
author		Author of the data	AUTHOR
averaging		Averaging operator	AVERAGIN
band		Band	BAND
baselineModel		Baseline Model	BASEMOD
baselineParams		Parameters of Baseline model	BASEPAR
bbCount		Building Block Count	BBCOUNT
bbid		Building Block Identifier	BBID
bbType		Building Block Type	BBTYPE
bbTypeName		Building Block Type Name	BBTNAME
biasVoltage		Bias voltage factor	BIASVOLT
bitPos		Bit position of this mask	BITPOS
calFileId		Calibration file ID	CALFILE
calFileVersion		Calibration file version	
calThreshold		Specified position accuracy threshold for a plateaux in calibration	THRESHOL
camera		Name Camera/ detector array	CAMERA
cameraModel		Model of the camera (CQM, FM, Sixpack,...)	CAMMODEL
cd1_1		CD1_1 element of CD matrix	CD1_1
cd1_2		CD1_2 element of CD matrix	CD1_2
cd1_3		CD1_3 element of CD matrix	CD1_3
cd2_1		CD2_1 element of CD matrix	CD2_1
cd2_2		CD2_2 element of CD matrix	CD2_2
cd2_3		CD2_3 element of CD matrix	CD2_3
cd3_1		CD3_1 element of CD matrix	CD3_1
cd3_2		CD3_2 element of CD matrix	CD3_2
cd3_3		CD3_3 element of CD matrix	CD3_3
cdelt1		pixel size in axis 1	CDELTA1

Herschel Name	DP	Description	FITS-Name
cdelt2		pixel size in axis 2	CDELTA2
changelog		Logging of changes	CHANGLOG
chopperPlateau		Indicates the chop plateau within sequence	CHOPPLAT
constVelFlag		Constant velocity flag	CONVELF
conversionFactor		conversion factor from chopper deflection (degrees) to angle on sky	CONVFACT
creationDate		Date of product creation	DATE
creator		The name of the software that created the product	CREATOR
crota2		rotation angle	CROTA2
crpix1		CRPIX1 reference pixel of axis 1	CRPIX1
crpix2		CRPIX2 reference pixel of axis 2	CRPIX2
crval1		axis 1 coordinate at tangency	CRVAL1
crval2		axis 2 coordinate at tangency	CRVAL2
ctype1		type of coordinate axis eg RA---TAN	CTYPE1
ctype2		type of coordinate axis eg DEC---TAN	CTYPE2
cusMode		CUS observation mode	CUSMODE
dataAnalyst		Name of data analyst	ANALYST
dec		Actual Declination of pointing	DEC
decNominal		requested declination of pointing	DEC_NOM
decObject		Declination of target object	DEC_OBJ
deltaPix		Correction of output angle per pixel unit offset to central pixel	DELTAPIX
description		Full name of product	DESC
endDate		End date of observation	DATE-END
endWavelength		End of wavelength interval	END_WL
epoch		equinox of celestial coordinate system	EPOCH
equinox		equinox of celestial coordinate system	EQUINOX
error		Error on signal	ERROR
explanatoryText		Explanatory text on the data	EXP_TEXT
fileName		name of exported file	FILENAME
filter		Filter name [SHORT/LONG/none]	FILTER
fineTime		Time of signal sampling	FINETIME
formatVersion		Version of product format	FORMATV
gyroPropQualIdx		Gyro-propagated quality index	GYROPQI
instMode		Instrument mode	INSTMODE
instrument		Instrument name	INSTRUME
interpMethod		Recommended interpolation method to be applied	INTERPM
jiggleId		Jiggle Identifier	JIGGLEID
keyWavelength		Key Wavelength	KEY_WAVE
maxWavelength		Maximum wavelength	MAX_WAVE
minWavelength		Minimum wavelength	MIN_WAVE

Herschel Name	DP	Description	FITS-Name
missionConfig		Mission configuration	MISSIONC
modelName		Instrument Model Name	MODELNAM
naifId		SSO NAIF identifier	NAIFID
nodCycleNum		Switching/nodding cycle number	NODCYDEN
numChopCyc		Number of chopping cycles	
numHifiSaa		Number of HIFI reference Solar Aspect Angles	NHIFSAA
numJigglePos		Number of jiggle positions	NJIGGPOS
numNodCyc		Number of nodding cycles	NNODCYC
numPacsSaa		Number of PACS reference Solar Aspect Angles	NPACSSAA
numRasterCol		Number of raster columns	NRASTCOL
numRasterLines		Number of raster lines	NRASTLIN
numScanLines		Number of scan lines	NSCANLIN
numSpectra		Number of Spectra	NSPECTRA
numSpireSaa		Number of SPIRE reference Solar Aspect Angles	NSPIRESA
object		target name	OBJECT
objectType		astronomical object type	OBJTYPE
observer		name of observer	OBSERVER
obsid		Observation Identifier	OBS_ID
obsMode		Observation mode name'	OBS_MODE
odNumber		operational day number	ODNUMBER
offPosFlag		Off-position flag	OFF_POS
onTargetFlag		On-target flag	ONTARF
origin		site that created the product	ORIGIN
outOfFieldFlag		Out-of-field flag	OUTFIELD
pc1_1		PC1_1 element of PC matrix	PC1_1
pc1_2		PC1_2 element of PC matrix	PC1_2
pc1_3		PC1_3 element of PC matrix	PC1_3
pc2_1		PC2_1 element of PC matrix	PC2_1
pc2_2		PC2_2 element of PC matrix	PC2_2
pc2_3		PC2_3 element of PC matrix	PC2_3
pc3_1		PC3_1 element of PC matrix	PC3_1
pc3_2		PC3_2 element of PC matrix	PC3_2
pc3_3		PC3_3 element of PC matrix	PC3_3
pixelRow		Pixel row index	PIX_ROW
pointingMode		Pointing mode identifier	POINTMOD
posAngle		Position Angle of pointing	POSANGLE
productNotes		Notes describing this product	PRODNOTE
proposal		proposal name	PROPOSAL
ra		Actual Right Ascension of pointing	RA
raDeSys		Coordinate reference frame for the RA and DEC	RADESYS

Herschel Name	DP	Description	FITS-Name
raErr		Error on Right Ascension of actual pointin	RA_ERR
raNominal		requested RA of pointing	RA_NOM
raObject		RA of target object	RA_OBJ
rasterColumnNum		Raster column number	RASTCOL
rasterLineNum		Raster line number	RASTLINE
readouts		sample readouts for one ramp	READOUTS
references		References	REFEREN
refPixel		Reference Pixel	REFPIXEL
roll		Spacecraft roll angle	ROLL
saa		Reference SAA value in the range 0-180 degrees	SAA
saturation		Fraction of saturated samples	SATURATE
satValuesSigned		Saturation values signed modes	SAT_SIGN
satValuesUnsigned		Saturation values unsigned modes	SAT_UNSG
scanLineNum		Scan line number	SCANLINE
sedVersion		Version of the SED	SED_VER
serendipityFlag		SPIRE serendipity mode flag	SERENDIP
siamId		Reference to the applicable SIAM	SIAM_ID
skyResolution		Spatial resolution	SKY_RES
slewFlag		Slew flag	SLEWFLAG
source		Source packet	SOURCE
sourceDetector		Detector Source Packet	SRC_DETC
sourceSmec		SMEC Source Packet	SRC_SMEC
specNum		Spectrum Number	SPEC_NUM
spectralResolution		Spectral resolution of data	SPEC_RES
startDate		Start date of observation	DATE_OBS and DATE-OBS
startWavelength		Begin of wavelength interval	START_WL
status		Pixel Status	PIX_STAT
status		Channel Status	CH_STAT
strInterlacingStatus		STR interlacing status	STR_I_ST
strQualIdx		STR quality index	STR_Q_ID
subinstrumentId		Sub-instrument identifier	SUBINST
subsystem		Instrument Subsystem	SUBSYS
telescope		Name of telescope	TELESCOP
temperature			TEMPERAT
type		Product type identification	TYPE
variability		Information on object variability	VARIABLE
version		version of product	VERSION
versionNotes		Notes specific to this version	VER_NOTE
wavelengthId		Key Wavelength ID	WAVE_ID

Herschel Name	DP	Description	FITS-Name
wcsReference		Reference of Coordinate System	WCS_REF
wcsType		Type of Coordinate System	WCS_TYPE
wheelPos		Wheel position	WHEELPOS
zeroPointOffset		Zero point offset	ZERO_OFF