Herschel Products Definitions Document

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Herschel Products Definitions Document

by

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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 Interactive Processing Environment (HIPE) 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.

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 processing. For this document purpose, the term observation and AOR are considered equivalent.

The document is organised as follows. Chapter 2 provides a high level overview of the data products. 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 detailed definition tables of the Herschel products.

Note from the authors: This issue reflects the current status of the Herschel products definitions. However, it should be noted that products may undergo modifications during the mission as our knowledge of the satellite behaviour improves.

1.2. Acronyms

AOR	Astronomical Observation Request
DP	Data Processing
HIFI	Heterodyne Instrument for the Far Infrared
HIPE	Herschel Interactive 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 exported as FITS files, a proper translation of the metadata keywords and of 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.

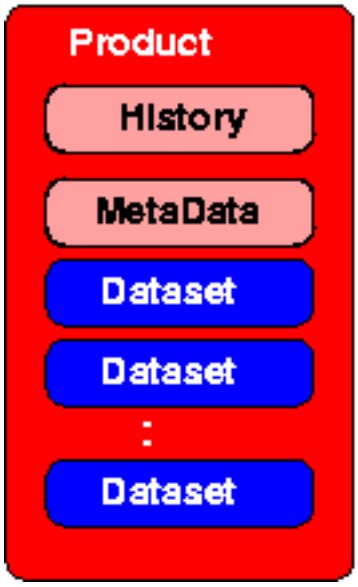

Figure 2.1. Herschel generic Product structure

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

It also contains metadata that provide unit and World Coordinate System information (for further details see section 2.11 in the Scripting and Data Mining Guide).

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)
- (Optional) Error in an array 3D (e.g. double, integer)
- (Optional) Exposure in an array 3D (e.g. double, integer)
- (Optional) Coverage in an array 3D (e.g. double, integer)

- (Optional) 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 2.11 in the Scripting and Data Mining Guide). 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

Conceptually, a spectral cube can be seen in three ways:

- As a stack of monochromatic images
- As a cloud of points, when at least one of the axes is not regularly sampled
- As a set of spatially related spectra

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.

SpectralSimpleCube is an extension of the SimpleCube product. As such it includes all its features, such as the error and exposure maps seen before. The main difference is that reading an (x, y) position in a SpectralSimpleCube will return a Spectrum1d, while doing the same with a SimpleCube will return a generic one-dimensional array of flux values.

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 and version 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

Herschel DP keyword name	Type	Description	FITS keyword
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
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 "bbid" identifies uniquely each building block in an observation. A Building Block is a unit of observation or key component of the observation from the instrument commanding point of view (e.g., a single filter, a single node). 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. CUS stands for Common Uplink System.

"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 Observation Context is the fist data product that you are likely to start with. It essentially contains your observation. It provides associations between products which are specific to a single observation (e.g. Level-0 products) as well as associations between 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
- Observation Log Context

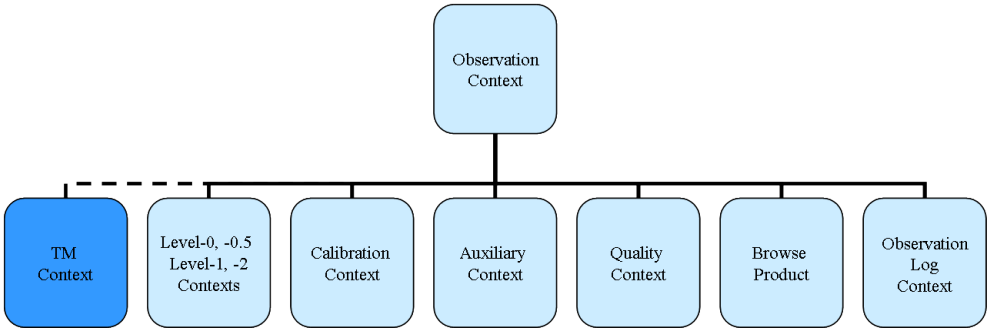

Figure 2.2. Observation Context structure

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 several 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><xxxxx>_<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.
- <xxxxx>: 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><xxxxx>_<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><xxxxx>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><xxxxx>v<NN>
```

For those split up into slices but not building blocks

```
h<instrument><subinst><obsid>__<level><xxxxx>_<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, *dbs* 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>_<xxxxx>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><xxxxx>v<NN>
```

For products associated with one obsid the form is

```
haux<osbid>_xxxxx<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>_quality_v<NN>
```

For the quality control report summary:

```
h<instrument><obsid>_quality_summary_v<NN>
```

For the quality logs:

```
h<instrument><obsid>_quality_log_v<NN>
```

2.6.5. Catalogue products

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

`h_<level><xxxxx>_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 *psc* for point source catalogue, *xsc* for extended source catalogue, *sll* 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

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.

Level 0.5 may be removed from the HIFI observational products in the (near) future provided that the observation can be processed at least until Level 1. The reason for this is saving disc space. Level 0.5 can always be reprocessed from level 0 data.

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, fundamentally identical to the spectrum data sets generated in level-1 processing (except for the number of spectra). 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 deconvolved. 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 HifiSpectralCube product which will be directly derived from the generic SpectralSimpleCube 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). (Name in Observation Context: couplingEfficiency_H/V)
CalForwardEff	Product containing baseline ripple model from OFF scans. Every ripple model has a time tag and quality. (Name in Observation Context: forwardEfficiency_H/V)
CalHKTable	A table containing the HK items which should be selected in the HifiSpectrumDatasets for the different backend and in different situations.
CalSidebandGain	It contains the sideband gain values. (Name in Observation Context: sidebandGain_H/V)

Product class	Product Description
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.
CalHrsQDCFull	A product containing values for the full Quantization distortion correction. It has 5 datasets. • 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. (Name in Observation Context: badPixels)
CalWbsFreqCoeff	It contains one Table Dataset with 5 columns, one for time and for each of the four CCD's, a set of polynomial coefficients that define how to convert pixel index to IF frequency for that time.
CalWbsFreqTuning	The parameter used for the fitting of COMB spectra. (Name in Observation Context: combFitParameters)
CalWbsLinearCoeff	Contains the coefficients for the non linearity correction of WBS bands. (Name in Observation Context: linearityCoefficient)

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

Product class	Product Description
Attenuator	
CalFluxHotCold	A context product containing the hot-cold calibration. (Name in Observation Context: Tsys)
CalOffBaseline	Product containing the baseline spectra obtained by the MkOffSmooth module which processes off data sets
CalWbsBadPixel	Product which contains the bad pixels table for WBS. (Name in Observation Context: BadPixelProposed)
CalWbsFreq	The frequency calibration context for the WBS. (Name in Observation Context: WbsFreq)
CalWbsZero	Zero context for zeros spectra and relative checks. ((Name in Observation Context: Zero)
FreqRanges	Product containing the measures for frequency drifts potentially occurring during an observation. (Name in Observation Context: FrequencyGroups)

3.3. HIFI Quality products

Product class	Product Description
CommandFailureProduct	Level 0 Quality Product: Command Failures
DataframeCountQualityProduct	Level 0 Quality Product: Dataframe count
QHtpLevel0	Level 0 Quality product
RuntimeErrorProduct	Level 0 Quality Product: Runtime errors
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
QWbsFreq	Level 0.5 Quality context that contains all the COMB Quality Product for the specific observation
QWbsSpikes	Level 0.5 Quality product that contains the channels where a spike has been detected in the COMB
QWbsZero	Level 0.5 Quality product that contains the zero's "maximum", "minimum", "average", "variance"
CalPhases	Level 1 Quality 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.

3.4. HIFI Trend Analysis products

Product class	Product Description
FpuTrendProduct	Fpu Trend Product
LoTrendProduct	LO Trend Product
CalSpur	WBS Spur Table

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-0.5 context

The following level-0.5 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.

Product description	Product type
PACS Photometry - level-0.5 Context	HPPT
Photometry level-0.5 Frames Blue Bolometer Context	HPPAVGB
Photometry level-0.5 Frames Blue Slice	HPPAVGBS
Photometry level-0.5 Frames Red Bolometer Context	HPPAVGR
Photometry level-0.5 Frames Red Slice	HPPAVGRS

4.1.3. 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.

Product description	Product type
PACS Photometry - level-1 Context	HPPT
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
Photometry level-1 Ps Coordinates Blue Bolometer Context	HPPPSCB
Photometry level-1 Ps Coordinates Blue Bolometer Slice	HPPPSCBS
Photometry level-1 Ps Coordinates Red Bolometer Context	HPPPSCR
Photometry level-1 Ps Coordinates Red Bolometer Slice	HPPPSCRS

4.1.4. PACS photometry level-2 context

4.1.4.1. PACS photometry point source level-2 context

Product description	Product type
PACS Photometer - level-2 context	HPPT

Product description	Product type
Photometer Point Source Product Blue Bolometer Context	HPPDMAPB
Photometer Point Source Product Blue Bolometer Slice	HPPDMAPBS
Photometer Point Source Product Red Bolometer Context	HPPDMAPR
PACS Photometer Point Source Product Red Bolometer Slice	HPPDMAPRS
Photometer Point Source Product Blue Bolometer with Astrometry Context	HPPPMAPB
Photometer Point Source Product Blue Bolometer with Astrometry Slice	HPPPMAPBS
Photometer Point Source Product Red Bolometer with Astrometry Context	HPPPMAPR
Photometer Point Source Product Red Bolometer with Astrometry Slice	HPPPMAPRS

4.1.4.2. PACS photometry scan map level-2 context

Product description	Product type
PACS Photometer - level-2 context	HPPT
Photometer Mad Map Blue Bolometer Context	HPPMMAPB
Photometer Mad Map Blue Bolometer Slice	HPPMMAPBS
Photometer Mad Map Red Bolometer Context	HPPMMAPR
Photometer Mad Map Red Bolometer Slice	HPPMMAPRS
Photometer Naive Map Blue Bolometer Context	HPPNMAPB
Photometer Naive Map Blue Bolometer Slice	HPPNMAPBS
Photometer Naive Map Red Bolometer Context	HPPNMAPR
Photometer Naive Map Red Bolometer Slice	HPPNMAPRS
Photometer PhotProject MAP Blue Bolometer Context	HPPPMAPB
Photometer PhotProject MAP Blue Bolometer Slice	HPPPMAPBS
Photometer PhotProject MAP Red Bolometer Context	HPPPMAPR
Photometer PhotProject MAP Red Bolometer Slice	HPPPMAPRS

HPPMMAPB & HPPMMAPR are the products generated by the Java implementation of MADmap. MADmap uses a maximum-likelihood technique to build a map from an input Time Order Data (TOD) set by solving a system of linear equations. It is used to remove low- frequency drift ("1/f") noise from bolometer data while preserving the sky signal on all spatial scales. However this algorithm is not tuned to the best yet for in-flight data, mostly because the InvNtt calibration file (inverse time-time noise covariance matrix) is still based on ground tests. Hence MADmap is not yet operational in HCSS, but some recent test are very promising for the future.

HPPNMAPB & HPPNMAPR contain the averaged signal map after pixel-to-pixel offset correction. This image is used by MADmap as its first value for the sky map and is subsequently improved and optimized iteratively as described above, hence the full optimized matrix inversion has not been performed on the data.

HPPPMAPB & HPPPMAPR refer to maps produced by the photProject task, i.e. a simple projection of each frames (10Hz), after running a temporal high-pass filter with a width of n=20 (i.e subtracting a median with a width of 2*n+1 frames.) This allows to filter a significant part of the 1/f noise at the expense of removing completely ALL spatial scales larger than this width (i.e., typically larger than 1 arcmin), and creating negative undershooting around bright sources along the scan direction.

4.1.5. PACS spectroscopy level-0 context

The PACS spectroscopy level-0 context is called Herschel-PACS Spectrometer Timeline (HPST).It contains 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
Spectroscopy Raw Blue Slice	HPSRAWBS
Spectroscopy Raw Red Context	HPSRAWR
Spectroscopy Raw Red Slice	HPSRAWRS
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

Product description	Product type
CDMS simulator context	HPCDMS
PACS CDMS simulator slice	HPCDMSS

4.1.6. PACS spectroscopy level-0.5 products

Product description	Product type
PACS Spectroscopy level-0.5 context	
Spectroscopy Slope fitted Blue Context	HPSFITB
Spectroscopy Slope fitted Blue Slice	HPSFITBS
Spectroscopy Slope fitted Red Context	HPSFITR
Spectroscopy Slope fitted Red Slice	HPSFITRS

4.1.7. PACS spectroscopy level-1 products

Product description	Product type
PACS Spectroscopy level-1 context	
PACS Spectral Cube Blue	HPS3DB
PACS Spectral Cube Blue Slice	HPS3DBS
PACS Spectral Cube Red	HPS3DR
PACS Spectral Cube Red Slice	HPS3DRS
Absolute pixel response and dark current Blue	HPSCALB
Absolute pixel response and dark current Blue Slice	HPS3CALBS
Absolute pixel response and dark current Red	HPSCALR
Absolute pixel response and dark current Red Slice	HPS3CALRS
Spectroscopy Slope fitted Blue Context	HPSFITB
Spectroscopy Slope fitted Blue Slice	HPSFITBS
Spectroscopy Slope fitted Red Context	HPSFITR
Spectroscopy Slope fitted Red Co	HPSFITRS

4.1.8. PACS spectroscopy level-2 products

Product description	Product type
PACS Spectroscopy level-2 context	
Pacs Spectroscopy 3D Projected Blue	HPS3DPB
Pacs Spectroscopy 3D Projected Blue Slice	HPS3DPBS
Pacs Spectroscopy 3D Projected Red	HPS3DPR
Pacs Spectroscopy 3D Projected Red Slice	HPS3DPRS
Pacs Spectroscopy 3D Rebinned Blue	HPS3DRB
Pacs Spectroscopy 3D Rebinned Blue Slice	HPS3DRBS
Pacs Spectroscopy 3D Rebinned Red	HPS3DRR
Pacs Spectroscopy 3D Rebinned Red Slice	HPS3DRRS

HPS3DRB and HPS3DRR are products of type PacsRebinnedCube and consist of nine datasets: image, ra, dec, qualityControl, noise, exposure, ImageIndex, waveGrid and History. The dataset 'image' carries the scientific data created by the "specWaveRebin" pipeline task. This task constructs the lambda x 5 x 5 size IFU cube which is in general the 25 spatial pixels (spaxels) of the PACS spectrometer over the full depth of the observed wavelength range. Note that each spaxel is fed by 16 pixels. Samples from the 16 spectral pixels are rebinned in a grid which is dependent on the actual wavelengths and the oversampling/upsampling factors. The oversample factor is used to increase the number of wavelength bins by the formula bins*oversample, where the number of bins is based on the theoretical resolution of your observation. The upsample factor specifies how many shifts per wavelength bin to make while rebinning. Standard products are generated with oversample=2 and upsample=3 values. The cube flux values are in Jy/pixel units, the wavelength is in microns. In case the observation consists of several spectral ranges and/or raster positions then the product is sliced into datasets of logical blocks. Such a block contains a single spectral range for a single raster position.

HPS3DPB and HPS3DPR are products of type SpectralSimpleCube and consist of four datasets: image, exposure, ImageIndex and History. The dataset "ImageIndex" contains the wavelength values. The dataset "image" carries the scientific data, signal and fluxes, created by the specProject pipeline task. This task projects a rebinned cube (the HPS3DR product) onto a regular RA/Dec grid on the sky. The grid size (corners) are determined by the task using the RA and Dec information from the rebinned cube, the output pixel size (dx,dy) is the default 3 arcseconds for standard products. In this projected cube the number of bins and resolution in the wavelength domain do not change, the cube size is lambda x N x M, where "N" and "M" mean the resampled grid size. In case of mapping observations, "specProject" loops over all raster positions and combine rasters into a single grid by adding up for each spaxel the fluxes of the contributing spaxels multiplied by their overlap weights. The cube flux values are in Jy/pixel units, the wavelength is in microns. The HPS3DP product is worth using even for pointed observations because it does not just add together, or mosaic, multiple pointings, but also sets the correct spatial grid for each wavelength of your cube (that is, it corrects that for the PACS spectrometer, each wavelength sees a slightly different spatial position, even for spectra within a single spaxel). In case the observation consists of several spectral ranges then the product is sliced into datasets of logical blocks. Such a block contains a single spectral range combined for all raster positions.

4.2. PACS calibration products

4.2.1. PACS Common Calibration Products

Product type	Description
PacsCalCommon	*PACS Common Calibration Context*
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 focal plane unit 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.
CsResistanceTemperature	Temperature - Resistance conversion table for the internal calibration
FilterWheel2Band	

Product type	Description
	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
PacsCalPhot	*PACS Photometer Calibration Context*
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 Calibration Sources in the blue and red channel.
ClSaturationLimits	CL saturation limits.
ClTransferFunction	SurfCal_20061120 calibration VRL-VH_BLIND for saturation limits computation.
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	Calibration Source 1-Calibration Source 2 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	Blue Long band inverse noise to noise correlation for MadMap.
InvnttBS	Blue Short 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.
NoisePerPixel	Noise for each pixel to populate the starting values in the noise cube.
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
PacsCalSpec	*PACS Spectrometer Calibration Context*
AbsoluteCapacitance	Contains the measured capacitances for the red and blue array.
ArrayInstrument	Array to Instrument coordinate conversion
BadPixelMask	Bad pixels mask for PACS spectrometer.
CalSourceFlux	Contains the fluxes in Jy of both calibration sources.
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.
DarkCurrent	Dark current [V/s] for PACS spectrometer blue and red arrays.
DetectorSortMatrix	Mapping PACS Signal Processing Unit-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.
FilterBandConversion	Defines the wheel position readout to band conversion
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.
KeyWavelengths	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
NoisyPixelMask	Noisy pixels mask for PACS spectrometer.
NominalResponse	Contains the nominal responses in V/s/Jy per prime key wavelength.
NonLinearity	Contains coefficient of second order polynomial to linearise signals for the red and blue array
Psf	Point spread function of the spectrometer.

Product type	Description
RampModel	Fixed parameters of the IMEC institute 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.
RelCalSourceFlux	Contains the flux ratios of both calibration sources at key wavelengths to prime key wavelengths.
RsrfB2A	Relative Spectral Response Function - wavelength-dependent response per pixel for band B2A
RsrfB2B	Relative Spectral Response Function - wavelength-dependent response per pixel for band B2B
RsrfB3A	Relative Spectral Response Function - wavelength-dependent response per pixel for band B3A
RsrfR1	Relative Spectral Response Function - wavelength-dependent response per pixel for band R1
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.
wavelengthGrid	PACS spectrometer wavelength grid for the three grating orders and for different upsamples

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 HIPE 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	y				
Raw Spectrometer Mechanism Timeline	RSMECT	SMECSELECT, SMECSCAN					y	y
Raw Subsystem Control Unit Timeline	RSCUT	SCUNOMINAL	y	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 observation building block)	Level0BlockContext
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	APPP	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
SCalTelemMask	Telemetry 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
SCalTelemMask	Telemetry 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

Product type	**Product Description**
SCalSpecElecCross	Electrical Crosstalk Matrix
SCalSpecFluxConv	Spectrometer Flux Conversion Table
SCalSpecLpfPar	Low Pass Filter Parameter Table
SCalSpecOptCross	Optical Crosstalk Matrix
SCalSpecChanTimeConst	Channel 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
SCalSpecPhaseCorrLim	Band Limits for Phase Correction
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
Auxiliary Context		
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. 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. 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. It is generated per 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. Generated per OD.
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.
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). It is generated per Operational Day (OD).
SIAM Product	SIAM	This product contains the Spacecraft/Instrument Alignment Matrices transforming vectors in the Herschel spacecraft reference frame to/from vectors in the different instruments' frames. 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.
	auxCalSREM	

Name	Product type	Description
Calibrated SREM Data Product		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.
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.
Telecommands History Product	auxTch	This product contains information of telecommand history as furnished by the Herschel MCS by means of DDS service. It is generated per OD.
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. It is generated per OD.
Mission Timeline Summary Product	auxMtls	This product packs the information provided within the EPOS summary file: pointing requests data, reaction wheel profile data, ground station coverage and DTCP data and delta-V manoeuvre data. It is generated per OD. Not yet available.
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.

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 Summary Report is an extract of the Quality Control Report which compile the final relevant and pertinent quality information for the users.

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 though 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 *QualityContext* and it will be accessible through the "quality summary" field.

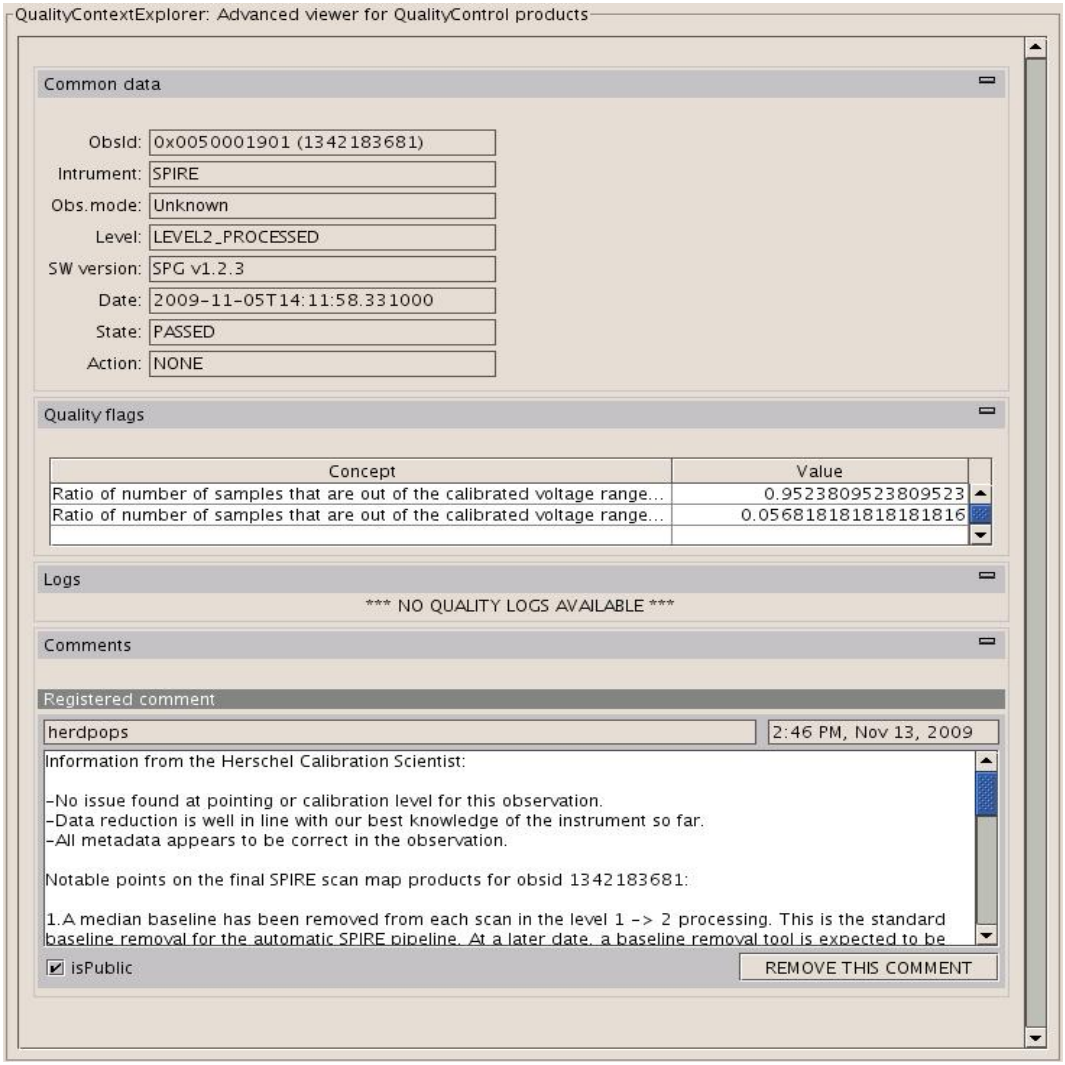

Figure 6.1. Herschel Quality Control Summary Report

Besides the attributes and the common metadata of other Herschel products, the Quality Control Reports also contains the following fields:

- **State:** Define the state of the observation from the point of view of quality. Possible states are:
  - Pending: The quality cycle for the observation is still on-going
  - Passed: The quality cycle for the observation is finished
  - Failed: The observation failed the quality assessment and is either going to be rescheduled, reprocessed or discarded
- **Quality Flags:** Quality flags are pre-defined list of fields of simple data types (strings, numbers and booleans) defined from the auxiliary products and per instrument. The quality flags are automatically assigned by the Standard Product Generation system when the pre-defined condition to raise a particular flag is matched. There are flags of different severity. The observations are quality inspected based on those flags and a human analysis is performed to assess how and how much the observation is affected by the problem reported by the quality flag. A detailed list of flags is given in the next subsection.
- **Preview:** Quick look (browse) products associated to the observation
- **Comments:** Comments on the quality data written by the different actors involved in the Quality Control of the observation.

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.

- **Missing Telemetry:** The observation is fully or partially affected by an interruption of the telemetry.
- **Out of Limits:** One or more parameters are out of the allowed value
- **Event:**During the observation the MOC reported a kind of event from either the instrument or the spacecraft
- **Telecommand Errors:**This flag reports error coming from the Telecommand History product
- **High glitch rate:**The observation suffered an anomalously high glitch rate.
- **Pointing Problem / Suspicious Pointing:** Pointing problem means that he actual pointing was significantly off the target, or the target was not acquired at all. Suspicious pointing is applied when the pointing may not be accurate and/or the object may not be well centered.

A generic flag "S/W Problem at processing level" is raised when the Standard Product Generation system fails at any step during the processing of the observation and a number of products are missing.

The last set of flags are generated by the instrument specific pipelines and they are listed in appendix 2.

6.3. Catalogue products

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

- Spectral Line List product.
- 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 "HSLL")
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/m2, 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	Baryocentric 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 Observation Products

7.1. HIFI Level-0, -0.5 and -1 Products

7.1.1. HifiTimelineProduct

product (type="herschel.hifi.pipeline.product.HifiTimelineProduct", description="Time ordered HIFI product")	
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	formatVersion (description="Version of the product format")
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="Reference frame for equatorial coordinate syste")
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	level (description="Pipeline level")
DoubleParameter	vlsr (description="Velocity in the frame given at frame")
StringParameter	frame (description="Frame for Local Standard of Rest")
DoubleParameter	unalignedHKdata (description="Percentage of Dataframes which have unaligned HK")
BooleanParameter	FPU Checks (description="FPU Checks Not Performed")
StringParameter	Band (description="Active band")
StringParameter	sideband (description="null")
BooleanParameter	isVelocityCorrected (description="null")

table dataset	*(description="null")*

Metadata	
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	bbNumber (description="Building Block Number", quantity="none")
Bool1d	isLine (description="It is a line measurement", quantity="none")
Bool1d	isHrs (description="It is HRS", quantity="none")
Bool1d	isWbs (description="It is WBS", quantity="none")
String1d	fullName (description="Full Name of BBid", quantity="none")
Double1d	LoFrequency (description="null", quantity="GHz [1.0E9 Hz]")
Double1d	LO-Throw (description="null", quantity="GHz [1.0E9 Hz]")

Int1d	start (description="Start index for each block", quantity="none")
Int1d	length (description="Length of each block", quantity="none")
composite	*(description="History of product")*
Metadata	
table dataset	*(description="History as Jython script")*
Metadata	
StringParameter	outvar (description="last output variable")
String1d	Lines (description="script lines", quantity="none")
table dataset	*(description="History of tasks")*
Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")
String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

7.1.2. HifiTimelineProduct

	map context (type="herschel.hifi.pipeline.product.HifiTimelineProduct", description="Time ordered HIFI product")
Metadata	
StringParam	type (description="Product Type Identification")

eter	
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	formatVersion (description="Version of the product format")
LongParameter	count_ds (description="null")
LongParameter	last_ds (description="last dataset in this product")
LongParam	obsid (description="Observation id")

eter	
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="Reference frame for equatorial coordinate syste")
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")
StringParam	level (description="Pipeline level")

eter	
DoubleParameter	vlsr (description="Velocity in the frame given at frame")
StringParameter	frame (description="Frame for Local Standard of Rest")
DoubleParameter	unalignedHKdata (description="Percentage of Dataframes which have unaligned HK")
BooleanParameter	FPU Checks (description="FPU Checks Not Performed")
StringParameter	Band (description="Active band")
StringParameter	sideband (description="null")
BooleanParameter	isVelocityCorrected (description="null")
product	*(type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="HRS Spectrum Dataset")*
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="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	formatVersion (description="Version of the product format")
LongParameter	apid (description="Apid")
LongParameter	obsid (description="Observation id")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")

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	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
LongParam-	odNumber (description="Operational day number")

eter	
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="Reference frame for equatorial coordinate syste")
DoubleParameter	posAngle (description="position angle from North in sky")
DoubleParameter	equinox (description="null")
StringParameter	version (description="Version of the product")
StringParameter	fileName (description="filename for exporting purposes")
StringParameter	level (description="Pipeline level")
DoubleParameter	vlsr (description="Velocity in the frame given at frame")
StringParameter	frame (description="Frame for Local Standard of Rest")
BooleanParameter	Valid (description="null")
LongParameter	subbands (description="null")
BooleanParam	hassubbands (description="Whether it has subbands")

eter	
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
DoubleParameter	channelSpacing (description="null")
StringParameter	CoordinateSystem (description="null")
LongParameter	rasterLineNum (description="null")
LongParameter	rasterColumnNum (description="null")
LongParameter	scanLineNum (description="null")
LongParameter	nodCycleNum (description="null")
StringParameter	frequencyGroup (description="null")

DoubleParameter	loFrequency (description="The LO frequency of the source phase")
DoubleParameter	loThrow (description="The LO frequency throw")
StringParameter	sideband (description="status: upper or lower side band")
BooleanParameter	isVelocityCorrected (description="null")
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")
LongParameter	subbandlength_5 (description="Length of subband 5")
LongParameter	subbandlength_6 (description="Length of subband 6")
LongParam-	subbandlength_7 (description="Length of subband 7")

eter	
LongParameter	subbandlength_8 (description="Length of subband 8")
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	subbandstart_5 (description="Starting channel for subband 5")
LongParameter	subbandstart_6 (description="Starting channel for subband 6")
LongParameter	subbandstart_7 (description="Starting channel for subband 7")
LongParameter	subbandstart_8 (description="Starting channel for subband 8")
table dataset	*(description="HRS Spectrum Dataset")*

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="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")
LongParam	obsid (description="Observation id")

eter	
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
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	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
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")
DoubleParam-	dec (description="actual DEC of pointing")

eter	
DoubleParameter	raNominal (description="requested RA of pointing")
DoubleParameter	decNominal (description="requested DEC of pointing")
StringParameter	raDeSys (description="Reference frame for equatorial coordinate syste")
DoubleParameter	posAngle (description="position angle from North in sky")
DoubleParameter	equinox (description="null")
StringParameter	version (description="Version of the product")
StringParameter	formatVersion (description="Version of the product format")
StringParameter	fileName (description="filename for exporting purposes")
StringParameter	level (description="Pipeline level")
DoubleParameter	vlsr (description="Velocity in the frame given at frame")

StringParameter	frame (description="Frame for Local Standard of Rest")
BooleanParameter	Valid (description="null")
LongParameter	subbands (description="null")
BooleanParameter	hassubbands (description="Whether it has subbands")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
DoubleParameter	channelSpacing (description="null")
StringParameter	CoordinateSystem (description="null")
LongParameter	rasterLineNum (description="null")
LongParam	rasterColumnNum (description="null")

eter	
LongParameter	scanLineNum (description="null")
LongParameter	nodCycleNum (description="null")
StringParameter	frequencyGroup (description="null")
DoubleParameter	loFrequency (description="The LO frequency of the source phase")
DoubleParameter	loThrow (description="The LO frequency throw")
StringParameter	sideband (description="status: upper or lower side band")
BooleanParameter	isVelocityCorrected (description="null")
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")
LongParameter	subbandlength_5 (description="Length of subband 5")
LongParameter	subbandlength_6 (description="Length of subband 6")
LongParameter	subbandlength_7 (description="Length of subband 7")
LongParameter	subbandlength_8 (description="Length of subband 8")
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	subbandstart_5 (description="Starting channel for subband 5")
LongParam	subbandstart_6 (description="Starting channel for subband 6")

e-ter	
Long-Pa-ram-e-ter	subbandstart_7 (description="Starting channel for subband 7")
Long-Pa-ram-e-ter	subbandstart_8 (description="Starting channel for subband 8")
Double2d	flux_1 (description="null", quantity="K")
Double2d	weight_1 (description="null", quantity="none")
Double2d	lsbfrequency_1 (description="HRS Frequency scale", quantity="GHz [1.0E9 Hz]")
Double2d	flux_2 (description="null", quantity="K")
Double2d	weight_2 (description="null", quantity="none")
Double2d	lsbfrequency_2 (description="HRS Frequency scale", quantity="GHz [1.0E9 Hz]")
Double2d	flux_3 (description="null", quantity="K")
Double2d	weight_3 (description="null", quantity="none")
Double2d	lsbfrequency_3 (description="HRS Frequency scale", quantity="GHz [1.0E9 Hz]")
Double2d	flux_4 (description="null", quantity="K")
Double2d	weight_4 (description="null", quantity="none")
Double2d	lsbfrequency_4 (description="HRS Frequency scale", quantity="GHz [1.0E9 Hz]")
Double2d	flux_5 (description="null", quantity="K")
Double2d	weight_5 (description="null", quantity="none")
Double2d	lsbfrequency_5 (description="HRS Frequency scale", quantity="GHz [1.0E9 Hz]")
Double2d	flux_6 (description="null", quantity="K")
Double2d	weight_6 (description="null", quantity="none")
Double2d	lsbfrequency_6 (description="HRS Frequency scale", quantity="GHz [1.0E9 Hz]")
Double2d	flux_7 (description="null", quantity="K")
Double2d	weight_7 (description="null", quantity="none")
Double2d	lsbfrequency_7 (description="HRS Frequency scale", quantity="GHz [1.0E9 Hz]")
Double2d	flux_8 (description="null", quantity="K")
Double2d	weight_8 (description="null", quantity="none")
Double2d	lsbfrequency_8 (description="HRS Frequency scale", quantity="GHz [1.0E9 Hz]")
Bool1d	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
Double1d	cmd_chopper (description="Commanded chopper positions", quantity="none")
Double1d	PosAngleError (description="Position Angle errors", quantity="degree [0.01745329 rad]")
Double1d	longitudeError (description="longitude errors", quantity="degree [0.01745329 rad]")
Int1d	integrations (description="Number of Integrations", quantity="none")
Long1d	packet time (description="Packetization Time", quantity="none")
Double1d	latitudeError (description="latitude errors", quantity="degree [0.01745329 rad]")
Double2d	integration time (description="Integration duration in seconds", quantity="s")

Double1d	velocity (description="Radial Velocity", quantity="km/s [1000.0 m/s]")
Long1d	obs time (description="Observation Time", quantity="none")
Double1d	longitude (description="longitude (RA in equatorial coord)", quantity="degree [0.01745329 rad]")
Double1d	frequency_monitor (description="LSU Frequency Monitor", quantity="MHz [1000000.0 Hz]")
Int1d	rowflag (description="Dataframe Flag", quantity="none")
Int1d	bbtype (description="Building Block Type", quantity="none")
Double1d	Chopper (description="Actual chopper positions", quantity="none")
Double1d	MJC_Ver (description="Calibrated mixer junction current, vertical ban", quantity="A")
Double2d	hot_cold (description="Hot and cold temperatures of the Blackbody Cali", quantity="K")
Double1d	LoFrequency (description="Local Oscillator Frequency", quantity="GHz [1.0E9 Hz]")
Double1d	MJC_Hor (description="Calibrated mixer junction current, horizontal b", quantity="A")
Double1d	posAngle (description="Position Angle", quantity="degree [0.01745329 rad]")
Double1d	latitude (description="latitude (Decl in equatorial coord)", quantity="degree [0.01745329 rad]")
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="degreeC [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")
Int2d	channels (description="null", quantity="none")
Double2d	IF_T (description="IF Temperature values", quantity="degreeC [274.15 K]")
String1d	Buffer_S (description="Buffer for ACS integration : BufferA/BufferB", quantity="none")
Int2d	LO_F_raw (description="LO Frequency raw values", quantity="MHz [1000000.0 Hz]")
Double2d	corrVSigma (description="null", quantity="none")
Int2d	sampler (description="null", quantity="none")
Double1d	ACS_Ana_1_3P3_V (description="ACS voltage for +3.3V (analog1)", quantity="V")
Int1d	rasterColumnNum (description="null", quantity="none")
Double1d	ACS_5P_V (description="ACS voltage for +5V", quantity="V")
Double1d	ACS_8P_V (description="ACS voltage for +8V", quantity="V")
Int1d	bbnumber (description="Building Block Number", quantity="none")
Double2d	mSigma (description="null", quantity="none")
Double1d	ACS_Dig_3P3_V (description="ACS voltage for +3.3V (digital)", quantity="V")
Int1d	nrbytes (description="Number of Bytes", quantity="none")
Double2d	Attenuators (description="IRM attenuator values : 0-15.5 dB", quantity="dB [1.258925]")
Int2d	colorIndex (description="null", quantity="none")

Int2d	resolution (description="null", quantity="none")
Int2d	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
Double1d	IF_8P_V (description="IF voltage for +8V", quantity="V")
Double1d	IF_5M_V (description="IF voltage for -5V", quantity="V")
Int1d	rasterLineNum (description="null", quantity="none")
Double1d	IF_18P_V (description="IF voltage for +18V", quantity="V")
Int1d	hk_transfer (description="hk_transfer", quantity="none")
Int2d	cuts (description="null", quantity="none")
Double1d	DCDC_1P1_C (description="DCDC current value for +1.1V", quantity="A")
Int1d	bitshift (description="Bit Shift", quantity="none")
Int1d	sequence number (description="Integration Sequence Number", quantity="none")
Double1d	DCDC_5P_C (description="DCDC current value for +5V", quantity="A")
Double1d	DCDC_3P3_C (description="DCDC current value for +3.3V", quantity="A")
Int1d	scanLineNum (description="null", quantity="none")
Int1d	nodCycleNum (description="null", quantity="none")
Int2d	duration (description="Integration Duration", quantity="none")
Double2d	DCDC_T (description="DCDC Temperature values", quantity="degreeC [274.15 K]")
Double1d	ACS_5M_V (description="ACS voltage for -5V", quantity="V")
Double1d	DCDC_18P_C (description="DCDC current value for +18V", quantity="A")
Double1d	ACS_Ana_1P1_V (description="ACS voltage for +1.1V (analog)", quantity="V")
Double1d	DCDC_8P_C (description="DCDC current value for +8V", quantity="A")
Double1d	DCDC_5M_C (description="DCDC current value for -5V", quantity="A")
Double1d	ACS_Ana_2_3P3_V (description="ACS voltage for +3.3V (analog2)", quantity="V")
product	*(type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="HRS Spectrum Dataset")*
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParam	description (description="Name of this product")

eter	
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	formatVersion (description="Version of the product format")
LongParameter	apid (description="Apid")
LongParameter	obsid (description="Observation id")
StringParameter	backend (description="Spectrograph: WBS or HRS")
LongParameter	channels (description="Number of channels")
LongParameter	OBS-revision (description="On Board Software revision")
LongParam	OBS-version (description="On Board Software version")

eter	
LongParameter	OBS-patch (description="On Board Software patch level")
StringParameter	Band (description="Active band")
StringParameter	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
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="Reference frame for equatorial coordinate syste")
DoubleParam-	posAngle (description="position angle from North in sky")

eter	
DoubleParameter	equinox (description="null")
StringParameter	version (description="Version of the product")
StringParameter	fileName (description="filename for exporting purposes")
StringParameter	level (description="Pipeline level")
DoubleParameter	vlsr (description="Velocity in the frame given at frame")
StringParameter	frame (description="Frame for Local Standard of Rest")
BooleanParameter	Valid (description="null")
LongParameter	subbands (description="null")
BooleanParameter	hassubbands (description="Whether it has subbands")
StringParameter	wavename (description="Actual name of the WaveColumn")

StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
DoubleParameter	channelSpacing (description="null")
StringParameter	CoordinateSystem (description="null")
LongParameter	rasterLineNum (description="null")
LongParameter	rasterColumnNum (description="null")
LongParameter	scanLineNum (description="null")
LongParameter	nodCycleNum (description="null")
StringParameter	frequencyGroup (description="null")
DoubleParameter	loFrequency (description="The LO frequency of the source phase")
DoubleParam	loThrow (description="The LO frequency throw")

eter	
StringParameter	sideband (description="status: upper or lower side band")
BooleanParameter	isVelocityCorrected (description="null")
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")
LongParameter	subbandlength_5 (description="Length of subband 5")
LongParameter	subbandlength_6 (description="Length of subband 6")
LongParameter	subbandlength_7 (description="Length of subband 7")
LongParameter	subbandlength_8 (description="Length of subband 8")

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	subbandstart_5 (description="Starting channel for subband 5")
LongParameter	subbandstart_6 (description="Starting channel for subband 6")
LongParameter	subbandstart_7 (description="Starting channel for subband 7")
LongParameter	subbandstart_8 (description="Starting channel for subband 8")
tabledataset	*(description="HRS Spectrum Dataset")*
Metadata	
StringParameter	type (description="Product Type Identification")
StringPa-	creator (description="Generator of this product")

ram- e- ter	
DatePa- ram- e- ter	creationDate (description="Creation date of this product")
String- Pa- ram- e- ter	description (description="Name of this product")
String- Pa- ram- e- ter	instrument (description="null")
String- Pa- ram- e- ter	modelName (description="Model name attached to this product")
DatePa- ram- e- ter	startDate (description="Start date of this product")
DatePa- ram- e- ter	DATE_OBS (description="Start date of this product")
DatePa- ram- e- ter	endDate (description="End date of this product")
Long- Pa- ram- e- ter	apid (description="Apid")
Long- Pa- ram- e- ter	obsid (description="Observation id")
String- Pa- ram- e- ter	backend (description="Spectrograph: WBS or HRS")
Long- Pa- ram-	channels (description="Number of channels")

eter	
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	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
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")
DoubleParam	raNominal (description="requested RA of pointing")

eter	
DoubleParameter	decNominal (description="requested DEC of pointing")
StringParameter	raDeSys (description="Reference frame for equatorial coordinate syste")
DoubleParameter	posAngle (description="position angle from North in sky")
DoubleParameter	equinox (description="null")
StringParameter	version (description="Version of the product")
StringParameter	formatVersion (description="Version of the product format")
StringParameter	fileName (description="filename for exporting purposes")
StringParameter	level (description="Pipeline level")
DoubleParameter	vlsr (description="Velocity in the frame given at frame")
StringParameter	frame (description="Frame for Local Standard of Rest")

BooleanParameter	Valid (description="null")
LongParameter	subbands (description="null")
BooleanParameter	hassubbands (description="Whether it has subbands")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")
StringParameter	wavedescription (description="Description of WaveColumn")
DoubleParameter	channelSpacing (description="null")
StringParameter	CoordinateSystem (description="null")
LongParameter	rasterLineNum (description="null")
LongParameter	rasterColumnNum (description="null")
LongParam-	scanLineNum (description="null")

eter	
LongParameter	nodCycleNum (description="null")
StringParameter	frequencyGroup (description="null")
DoubleParameter	loFrequency (description="The LO frequency of the source phase")
DoubleParameter	loThrow (description="The LO frequency throw")
StringParameter	sideband (description="status: upper or lower side band")
BooleanParameter	isVelocityCorrected (description="null")
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")

LongParameter	subbandlength_5 (description="Length of subband 5")
LongParameter	subbandlength_6 (description="Length of subband 6")
LongParameter	subbandlength_7 (description="Length of subband 7")
LongParameter	subbandlength_8 (description="Length of subband 8")
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	subbandstart_5 (description="Starting channel for subband 5")
LongParameter	subbandstart_6 (description="Starting channel for subband 6")
LongParam-	subbandstart_7 (description="Starting channel for subband 7")

e-ter	
Long-Pa-ram-e-ter	subbandstart_8 (description="Starting channel for subband 8")
Double2d	flux_1 (description="null", quantity="K")
Double2d	weight_1 (description="null", quantity="none")
Double2d	lsbfrequency_1 (description="HRS Frequency scale", quantity="GHz [1.0E9 Hz]")
Double2d	flux_2 (description="null", quantity="K")
Double2d	weight_2 (description="null", quantity="none")
Double2d	lsbfrequency_2 (description="HRS Frequency scale", quantity="GHz [1.0E9 Hz]")
Double2d	flux_3 (description="null", quantity="K")
Double2d	weight_3 (description="null", quantity="none")
Double2d	lsbfrequency_3 (description="HRS Frequency scale", quantity="GHz [1.0E9 Hz]")
Double2d	flux_4 (description="null", quantity="K")
Double2d	weight_4 (description="null", quantity="none")
Double2d	lsbfrequency_4 (description="HRS Frequency scale", quantity="GHz [1.0E9 Hz]")
Double2d	flux_5 (description="null", quantity="K")
Double2d	weight_5 (description="null", quantity="none")
Double2d	lsbfrequency_5 (description="HRS Frequency scale", quantity="GHz [1.0E9 Hz]")
Double2d	flux_6 (description="null", quantity="K")
Double2d	weight_6 (description="null", quantity="none")
Double2d	lsbfrequency_6 (description="HRS Frequency scale", quantity="GHz [1.0E9 Hz]")
Double2d	flux_7 (description="null", quantity="K")
Double2d	weight_7 (description="null", quantity="none")
Double2d	lsbfrequency_7 (description="HRS Frequency scale", quantity="GHz [1.0E9 Hz]")
Double2d	flux_8 (description="null", quantity="K")
Double2d	weight_8 (description="null", quantity="none")
Double2d	lsbfrequency_8 (description="HRS Frequency scale", quantity="GHz [1.0E9 Hz]")
Bool1d	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
Double1d	cmd_chopper (description="Commanded chopper positions", quantity="none")
Double1d	PosAngleError (description="Position Angle errors", quantity="degree [0.01745329 rad]")
Double1d	longitudeError (description="longitude errors", quantity="degree [0.01745329 rad]")
Int1d	integrations (description="Number of Integrations", quantity="none")
Long1d	packet time (description="Packetization Time", quantity="none")
Double1d	latitudeError (description="latitude errors", quantity="degree [0.01745329 rad]")
Double2d	integration time (description="Integration duration in seconds", quantity="s")
Double1d	velocity (description="Radial Velocity", quantity="km/s [1000.0 m/s]")
Long1d	obs time (description="Observation Time", quantity="none")
Double1d	longitude (description="longitude (RA in equatorial coord)", quantity="degree [0.01745329 rad]")
Double1d	frequency_monitor (description="LSU Frequency Monitor", quantity="MHz [1000000.0 Hz]")

Int1d	rowflag (description="Dataframe Flag", quantity="none")
Int1d	bbtype (description="Building Block Type", quantity="none")
Double1d	Chopper (description="Actual chopper positions", quantity="none")
Double1d	MJC_Ver (description="Calibrated mixer junction current, vertical ban", quantity="A")
Double2d	hot_cold (description="Hot and cold temperatures of the Blackbody Cali", quantity="K")
Double1d	LoFrequency (description="Local Oscillator Frequency", quantity="GHz [1.0E9 Hz]")
Double1d	MJC_Hor (description="Calibrated mixer junction current, horizontal b", quantity="A")
Double1d	posAngle (description="Position Angle", quantity="degree [0.01745329 rad]")
Double1d	latitude (description="latitude (Decl in equatorial coord)", quantity="degree [0.01745329 rad]")
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="degreeC [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")
Int2d	channels (description="null", quantity="none")
Double2d	IF_T (description="IF Temperature values", quantity="degreeC [274.15 K]")
String1d	Buffer_S (description="Buffer for ACS integration : BufferA/BufferB", quantity="none")
Int2d	LO_F_raw (description="LO Frequency raw values", quantity="MHz [1000000.0 Hz]")
Double2d	corrVSigma (description="null", quantity="none")
Int2d	sampler (description="null", quantity="none")
Double1d	ACS_Ana_1_3P3_V (description="ACS voltage for +3.3V (analog1)", quantity="V")
Int1d	rasterColumnNum (description="null", quantity="none")
Double1d	ACS_5P_V (description="ACS voltage for +5V", quantity="V")
Double1d	ACS_8P_V (description="ACS voltage for +8V", quantity="V")
Int1d	bbnumber (description="Building Block Number", quantity="none")
Double2d	mSigma (description="null", quantity="none")
Double1d	ACS_Dig_3P3_V (description="ACS voltage for +3.3V (digital)", quantity="V")
Int1d	nrbytes (description="Number of Bytes", quantity="none")
Double2d	Attenuators (description="IRM attenuator values : 0-15.5 dB", quantity="dB [1.258925]")
Int2d	colorIndex (description="null", quantity="none")
Int2d	resolution (description="null", quantity="none")
Int2d	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
Double1d	IF_8P_V (description="IF voltage for +8V", quantity="V")

Double1d	IF_5M_V (description="IF voltage for -5V", quantity="V")
Int1d	rasterLineNum (description="null", quantity="none")
Double1d	IF_18P_V (description="IF voltage for +18V", quantity="V")
Int1d	hk_transfer (description="hk_transfer", quantity="none")
Int2d	cuts (description="null", quantity="none")
Double1d	DCDC_1P1_C (description="DCDC current value for +1.1V", quantity="A")
Int1d	bitshift (description="Bit Shift", quantity="none")
Int1d	sequence number (description="Integration Sequence Number", quantity="none")
Double1d	DCDC_5P_C (description="DCDC current value for +5V", quantity="A")
Double1d	DCDC_3P3_C (description="DCDC current value for +3.3V", quantity="A")
Int1d	scanLineNum (description="null", quantity="none")
Int1d	nodCycleNum (description="null", quantity="none")
Int2d	duration (description="Integration Duration", quantity="none")
Double2d	DCDC_T (description="DCDC Temperature values", quantity="degreeC [274.15 K]")
Double1d	ACS_5M_V (description="ACS voltage for -5V", quantity="V")
Double1d	DCDC_18P_C (description="DCDC current value for +18V", quantity="A")
Double1d	ACS_Ana_1P1_V (description="ACS voltage for +1.1V (analog)", quantity="V")
Double1d	DCDC_8P_C (description="DCDC current value for +8V", quantity="A")
Double1d	DCDC_5M_C (description="DCDC current value for -5V", quantity="A")
Double1d	ACS_Ana_2_3P3_V (description="ACS voltage for +3.3V (analog2)", quantity="V")

7.2. HIFI Level-2 products

7.2.1. HifiTimelineProduct

The HifiTimelineProduct Level-2 is the same as for Level-0, 0.5 and 1.

7.2.2. HIFI Cube Product

product (type="herschel.ia.dataset.spectrum.SpectralSimpleCube", description="HIFI cube product")	
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="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	formatVersion (description="Version of the product format")
StringParameter	wavedescription (description="Description of WaveColumn")
StringParameter	wavename (description="Actual name of the WaveColumn")
StringParameter	waveunit (description="Units of the WaveColumn")

StringParameter	sideband (description="upper or lower subband")
LongParameter	obsid (description="Observation id")
LongParameter	apid (description="Apid")
StringParameter	band (description="Active band")
LongParameter	subband (description="segment (subband id)")
StringParameter	aot (description="Observation template (same as obsMode)")
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="Reference frame for equatorial coordinate syste")
DoubleParameter	equinox (description="null")
DoubleParameter	posAngle (description="position angle from North in sky")
StringParameter	naifId (description="Solar system object NAIF identifier")
StringParameter	object (description="Source of the spectrum")
StringParameter	observer (description="proposer of the observation")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
StringParameter	obsMode (description="Observing mode")
LongParameter	odNumber (description="Operational day number")
LongParameter	proposal (description="Proposal identifier")
StringParameter	level (description="Pipeline level")
LongParameter	nodCycleNum (description="null")
StringParameter	fileName (description="filename for exporting purposes")
StringParameter	version (description="Version of the product")
array dataset	*(description="Cube")*
Metadata	
LongParameter	naxis (description="WCS: Number of Axes")
LongParameter	naxis3 (description="The number of layers")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR"")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR"")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
DoubleParameter	epoch (description="WCS: Epoch, unit=Duration")

DoubleParameter	equinox (description="WCS: Equinox, unit=Duration")
DoubleParameter	cdelt3 (description="WCS: Scale in 3rd dimension, unit=Length, Duration, ...")
DoubleParameter	crpix3 (description="WCS: Reference layer index, unit=Scalar")
DoubleParameter	crval3 (description="WCS: Wavelength, time, ... of reference layer; unit=length,time,...")
StringParameter	cunit3 (description="WCS: Unit axis 3")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represent")
LongParameter	naxis1 (description="The number of columns")
LongParameter	naxis2 (description="The number of rows")
Double3d	(description="Cube", quantity="K")
array dataset	*(description="Weights")*
Metadata	
Double3d	(description="Weights", quantity="none")

Chapter 8. HIFI Calibration Products

8.1. HIFI Predefined Calibration Products

8.1.1. CalCoupCoeff

list context (type="Unknown", description="Unknown")		
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	formatVersion (description="Version of product format")	
product	*(type="Unknown", description="Coupling Coefficients used in the Hot/Cold calibration.")*	
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="null")	
StringParameter	instrument (description="null")	
StringParameter	modelName (description="Model name attached to this product")	
DateParameter	startDate (description="null")	
DateParameter	endDate (description="null")	
StringParameter	formatVersion (description="Version of product format")	
LongParameter	version (description="null")	
table dataset	*(description="Coupling Coefficients used in the Hot/Cold calibration.")*	
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="null")	
StringParameter	instrument (description="null")	
StringParameter	modelName (description="Model name attached to this product")	
DateParameter	startDate (description="null")	
DateParameter	DATE_OBS (description="null")	
DateParameter	endDate (description="null")	
LongParameter	version (description="null")	

Double1d	1a_eta_cold (description="null", quantity="none")
Double1d	1a_eta_hot (description="null", quantity="none")
Double1d	1a_lof (description="null", quantity="none")
Double1d	1b_eta_cold (description="null", quantity="none")
Double1d	1b_eta_hot (description="null", quantity="none")
Double1d	1b_lof (description="null", quantity="none")
Double1d	2a_eta_cold (description="null", quantity="none")
Double1d	2a_eta_hot (description="null", quantity="none")
Double1d	2a_lof (description="null", quantity="none")
Double1d	2b_eta_cold (description="null", quantity="none")
Double1d	2b_eta_hot (description="null", quantity="none")
Double1d	2b_lof (description="null", quantity="none")
Double1d	3a_eta_cold (description="null", quantity="none")
Double1d	3a_eta_hot (description="null", quantity="none")
Double1d	3a_lof (description="null", quantity="none")
Double1d	3b_eta_cold (description="null", quantity="none")
Double1d	3b_eta_hot (description="null", quantity="none")
Double1d	3b_lof (description="null", quantity="none")
Double1d	4a_eta_cold (description="null", quantity="none")
Double1d	4a_eta_hot (description="null", quantity="none")
Double1d	4a_lof (description="null", quantity="none")
Double1d	4b_eta_cold (description="null", quantity="none")
Double1d	4b_eta_hot (description="null", quantity="none")
Double1d	4b_lof (description="null", quantity="none")
Double1d	5a_eta_cold (description="null", quantity="none")
Double1d	5a_eta_hot (description="null", quantity="none")
Double1d	5a_lof (description="null", quantity="none")
Double1d	5b_eta_cold (description="null", quantity="none")
Double1d	5b_eta_hot (description="null", quantity="none")
Double1d	5b_lof (description="null", quantity="none")
Double1d	6a_eta_cold (description="null", quantity="none")
Double1d	6a_eta_hot (description="null", quantity="none")
Double1d	6a_lof (description="null", quantity="none")
Double1d	6b_eta_cold (description="null", quantity="none")
Double1d	6b_eta_hot (description="null", quantity="none")
Double1d	6b_lof (description="null", quantity="none")
Double1d	7a_eta_cold (description="null", quantity="none")
Double1d	7a_eta_hot (description="null", quantity="none")
Double1d	7a_lof (description="null", quantity="none")
Double1d	7b_eta_cold (description="null", quantity="none")
Double1d	7b_eta_hot (description="null", quantity="none")
Double1d	7b_lof (description="null", quantity="none")

8.1.2. CalForwardEff

list context (type="Unknown", description="Unknown")						
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	formatVersion (description="Version of product format")					
product	*(type="Unknown", description="Forward coefficients")*					
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="null")					
StringParameter	instrument (description="null")					
StringParameter	modelName (description="Model name attached to this product")					
DateParameter	startDate (description="null")					
DateParameter	endDate (description="null")					
StringParameter	formatVersion (description="Version of product format")					
LongParameter	version (description="null")					
table dataset	*(description="Forward coefficients")*					
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="null")					
StringParameter	instrument (description="null")					
StringParameter	modelName (description="Model name attached to this product")					
DateParameter	startDate (description="null")					
DateParameter	DATE_OBS (description="null")					
DateParameter	endDate (description="null")					
LongParameter	version (description="null")					
Double1d	1a_lof (description="Local oscillator frequency", quantity="GHz [1.0E9 Hz]")					
Double1d	1a_etal (description="null", quantity="none")					
Double1d						

	1b_lof (description="Local oscillator frequency", quantity="GHz [1.0E9 Hz]")
Double1d	1b_etal (description="null", quantity="none")
Double1d	2a_lof (description="Local oscillator frequency", quantity="GHz [1.0E9 Hz]")
Double1d	2a_etal (description="null", quantity="none")
Double1d	2b_lof (description="Local oscillator frequency", quantity="GHz [1.0E9 Hz]")
Double1d	2b_etal (description="null", quantity="none")
Double1d	3a_lof (description="Local oscillator frequency", quantity="GHz [1.0E9 Hz]")
Double1d	3a_etal (description="null", quantity="none")
Double1d	3b_lof (description="Local oscillator frequency", quantity="GHz [1.0E9 Hz]")
Double1d	3b_etal (description="null", quantity="none")
Double1d	4a_lof (description="Local oscillator frequency", quantity="GHz [1.0E9 Hz]")
Double1d	4a_etal (description="null", quantity="none")
Double1d	4b_lof (description="Local oscillator frequency", quantity="GHz [1.0E9 Hz]")
Double1d	4b_etal (description="null", quantity="none")
Double1d	5a_lof (description="Local oscillator frequency", quantity="GHz [1.0E9 Hz]")
Double1d	5a_etal (description="null", quantity="none")
Double1d	5b_lof (description="Local oscillator frequency", quantity="GHz [1.0E9 Hz]")
Double1d	5b_etal (description="null", quantity="none")
Double1d	6a_lof (description="Local oscillator frequency", quantity="GHz [1.0E9 Hz]")
Double1d	6a_etal (description="null", quantity="none")
Double1d	6b_lof (description="Local oscillator frequency", quantity="GHz [1.0E9 Hz]")
Double1d	6b_etal (description="null", quantity="none")
Double1d	7a_lof (description="Local oscillator frequency", quantity="GHz [1.0E9 Hz]")
Double1d	7a_etal (description="null", quantity="none")
Double1d	7b_lof (description="Local oscillator frequency", quantity="GHz [1.0E9 Hz]")
Double1d	7b_etal (description="null", quantity="none")

8.1.3. CalSidebandGain

list context (type="Unknown", description="Unknown")	
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	formatVersion (description="Version of product format")
product	*(type="Unknown", description="Sideband Gains")*
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="null")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	formatVersion (description="Version of product format")
LongParameter	version (description="null")
table dataset	*(description="null")*
Metadata	
Double1d	1a_GainUpper (description="band 1a gain coefficients for upper side-band", quantity="none")
Double1d	1a_GainLower (description="band 1a coupling coefficients for cold", quantity="none")
Double1d	1a_lof (description="band 1a_LOF", quantity="GHz [1.0E9 Hz]")
Double1d	1b_GainUpper (description="band 1b gain coefficients for upper side-band", quantity="none")
Double1d	1b_GainLower (description="band 1b coupling coefficients for cold", quantity="none")
Double1d	1b_lof (description="band 1b_LOF", quantity="GHz [1.0E9 Hz]")
Double1d	2a_GainUpper (description="band 2a gain coefficients for upper side-band", quantity="none")
Double1d	2a_GainLower (description="band 2a coupling coefficients for cold", quantity="none")
Double1d	2a_lof (description="band 2a_LOF", quantity="GHz [1.0E9 Hz]")
Double1d	2b_GainUpper (description="band 2b gain coefficients for upper side-band", quantity="none")
Double1d	2b_GainLower (description="band 2b coupling coefficients for cold", quantity="none")
Double1d	2b_lof (description="band 2b_LOF", quantity="GHz [1.0E9 Hz]")
Double1d	3a_GainUpper (description="band 3a gain coefficients for upper side-band", quantity="none")

Double1d	3a_GainLower (description="band 3a coupling coefficients for cold", quantity="none")
Double1d	3a_lof (description="band 3a_LOF", quantity="GHz [1.0E9 Hz]")
Double1d	3b_GainUpper (description="band 3b gain coefficients for upper sideband", quantity="none")
Double1d	3b_GainLower (description="band 3b coupling coefficients for cold", quantity="none")
Double1d	3b_lof (description="band 3b_LOF", quantity="GHz [1.0E9 Hz]")
Double1d	4a_GainUpper (description="band 4a gain coefficients for upper sideband", quantity="none")
Double1d	4a_GainLower (description="band 4a coupling coefficients for cold", quantity="none")
Double1d	4a_lof (description="band 4a_LOF", quantity="GHz [1.0E9 Hz]")
Double1d	4b_GainUpper (description="band 4b gain coefficients for upper sideband", quantity="none")
Double1d	4b_GainLower (description="band 4b coupling coefficients for cold", quantity="none")
Double1d	4b_lof (description="band 4b_LOF", quantity="GHz [1.0E9 Hz]")
Double1d	5a_GainUpper (description="band 5a gain coefficients for upper sideband", quantity="none")
Double1d	5a_GainLower (description="band 5a coupling coefficients for cold", quantity="none")
Double1d	5a_lof (description="band 5a_LOF", quantity="GHz [1.0E9 Hz]")
Double1d	5b_GainUpper (description="band 5b gain coefficients for upper sideband", quantity="none")
Double1d	5b_GainLower (description="band 5b coupling coefficients for cold", quantity="none")
Double1d	5b_lof (description="band 5b_LOF", quantity="GHz [1.0E9 Hz]")
Double1d	6a_GainUpper (description="band 6a gain coefficients for upper sideband", quantity="none")
Double1d	6a_GainLower (description="band 6a coupling coefficients for cold", quantity="none")
Double1d	6a_lof (description="band 6a_LOF", quantity="GHz [1.0E9 Hz]")
Double1d	6b_GainUpper (description="band 6b gain coefficients for upper sideband", quantity="none")
Double1d	6b_GainLower (description="band 6b coupling coefficients for cold", quantity="none")
Double1d	6b_lof (description="band 6b_LOF", quantity="GHz [1.0E9 Hz]")
Double1d	7a_GainUpper (description="band 7a gain coefficients for upper sideband", quantity="none")
Double1d	7a_GainLower (description="band 7a coupling coefficients for cold", quantity="none")
Double1d	7a_lof (description="band 7a_LOF", quantity="GHz [1.0E9 Hz]")
Double1d	7b_GainUpper (description="band 7b gain coefficients for upper sideband", quantity="none")
Double1d	7b_GainLower (description="band 7b coupling coefficients for cold", quantity="none")

Double1d	7b_lof (description="band 7b_LOF", quantity="GHz [1.0E9 Hz]")
table dataset	*(description="null")*
Metadata	
Double1d	1a_ShapeUpper (description="band 1a gain coefficients for upper sideband", quantity="none")
Double1d	1a_ShapeLower (description="band 1a coupling coefficients for cold", quantity="none")
Double1d	1a_if (description="band 1a_IF", quantity="MHz [1000000.0 Hz]")
Double1d	1b_ShapeUpper (description="band 1b gain coefficients for upper sideband", quantity="none")
Double1d	1b_ShapeLower (description="band 1b coupling coefficients for cold", quantity="none")
Double1d	1b_if (description="band 1b_IF", quantity="MHz [1000000.0 Hz]")
Double1d	2a_ShapeUpper (description="band 2a gain coefficients for upper sideband", quantity="none")
Double1d	2a_ShapeLower (description="band 2a coupling coefficients for cold", quantity="none")
Double1d	2a_if (description="band 2a_IF", quantity="MHz [1000000.0 Hz]")
Double1d	2b_ShapeUpper (description="band 2b gain coefficients for upper sideband", quantity="none")
Double1d	2b_ShapeLower (description="band 2b coupling coefficients for cold", quantity="none")
Double1d	2b_if (description="band 2b_IF", quantity="MHz [1000000.0 Hz]")
Double1d	3a_ShapeUpper (description="band 3a gain coefficients for upper sideband", quantity="none")
Double1d	3a_ShapeLower (description="band 3a coupling coefficients for cold", quantity="none")
Double1d	3a_if (description="band 3a_IF", quantity="MHz [1000000.0 Hz]")
Double1d	3b_ShapeUpper (description="band 3b gain coefficients for upper sideband", quantity="none")
Double1d	3b_ShapeLower (description="band 3b coupling coefficients for cold", quantity="none")
Double1d	3b_if (description="band 3b_IF", quantity="MHz [1000000.0 Hz]")
Double1d	4a_ShapeUpper (description="band 4a gain coefficients for upper sideband", quantity="none")
Double1d	4a_ShapeLower (description="band 4a coupling coefficients for cold", quantity="none")
Double1d	4a_if (description="band 4a_IF", quantity="MHz [1000000.0 Hz]")
Double1d	4b_ShapeUpper (description="band 4b gain coefficients for upper sideband", quantity="none")
Double1d	4b_ShapeLower (description="band 4b coupling coefficients for cold", quantity="none")
Double1d	4b_if (description="band 4b_IF", quantity="MHz [1000000.0 Hz]")
Double1d	5a_ShapeUpper (description="band 5a gain coefficients for upper sideband", quantity="none")
Double1d	5a_ShapeLower (description="band 5a coupling coefficients for cold", quantity="none")

Double1d	5a_if (description="band 5a_IF", quantity="MHz [1000000.0 Hz]")
Double1d	5b_ShapeUpper (description="band 5b gain coefficients for upper sideband", quantity="none")
Double1d	5b_ShapeLower (description="band 5b coupling coefficients for cold", quantity="none")
Double1d	5b_if (description="band 5b_IF", quantity="MHz [1000000.0 Hz]")
Double1d	6a_ShapeUpper (description="band 6a gain coefficients for upper sideband", quantity="none")
Double1d	6a_ShapeLower (description="band 6a coupling coefficients for cold", quantity="none")
Double1d	6a_if (description="band 6a_IF", quantity="MHz [1000000.0 Hz]")
Double1d	6b_ShapeUpper (description="band 6b gain coefficients for upper sideband", quantity="none")
Double1d	6b_ShapeLower (description="band 6b coupling coefficients for cold", quantity="none")
Double1d	6b_if (description="band 6b_IF", quantity="MHz [1000000.0 Hz]")
Double1d	7a_ShapeUpper (description="band 7a gain coefficients for upper sideband", quantity="none")
Double1d	7a_ShapeLower (description="band 7a coupling coefficients for cold", quantity="none")
Double1d	7a_if (description="band 7a_IF", quantity="MHz [1000000.0 Hz]")
Double1d	7b_ShapeUpper (description="band 7b gain coefficients for upper sideband", quantity="none")
Double1d	7b_ShapeLower (description="band 7b coupling coefficients for cold", quantity="none")
Double1d	7b_if (description="band 7b_IF", quantity="MHz [1000000.0 Hz]")

8.1.4. CalHrsPowCorr

product (type="CalHrsPowCorr", description="Values for Power gain non-linearity correction")	
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")
StringParameter	formatVersion (description="Version of product format")
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="vSigma Vector of the CalHrsPowCorr Product")*

Metadata					
			Double1d	vSigma (description="vSigma Vector", quantity="none")	
table dataset	*(description="gain Vector of the CalHrsPowCorr Product")*				
Metadata					
			Double1d	gain (description="gain Vector", quantity="none")	

8.1.5. CalHrsQDCFast

product (type="CalHrsQDCFast", description="Value for Fast Quantization Distortion Correction")		
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")
	StringParameter	formatVersion (description="Version of product format")
	LongParameter	version (description="Version of this product")
	StringParameter	name (description="Name of this product")
	DoubleParameter	QDCFastFactor (description="QDC fast factor of this product")

8.1.6. CalHrsQDCFull

product (type="CalHrsQDCFull", description="Values for Full Quantization Distortion Correction")	
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")
	formatVersion (description="Version of product format")

StringParameter	
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	
Double1d	mSigma (description="mSigma Vector", quantity="none")
table dataset	*(description="ro Vector of the CalHrsQDCFull Product")*
Metadata	
Double1d	ro (description="ro Vector", quantity="none")
table dataset	*(description="vSigma Vector of the CalHrsQDCFull Product")*
Metadata	
Double1d	vSigma (description="vSigma Vector", quantity="none")
table dataset	*(description="Grid dimensions of the CalHrsQDCFull Product")*
Metadata	
Double1d	gridDim (description="grid Dimensions", quantity="none")
table dataset	*(description="Grid or 3D table of the CalHrsQDCFull Product")*
Metadata	
Double1d	grid (description="grid", quantity="none")

8.1.7. CalWbsBadPixel

product (type="Calibration", description="The Bad pixel mask")	
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	formatVersion (description="Version of product format")
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")
table dataset	*(description="Mask")*
Metadata	
Int1d	Mask (description="Bad pixels", quantity="none")
composite	*(description="History of product")*
Metadata	
table dataset	*(description="History as Jython script")*
Metadata	
StringParameter	outvar (description="last output variable")
String1d	Lines (description="script lines", quantity="none")
table dataset	*(description="History of tasks")*
Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")

String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

8.1.8. CalWbsFreqCoeff

product (type="Calibration", description="The frequency calibration for the WBS. This product contains one TableDataset with 5 columns,\u000A one for time and for each of the four CCD")	
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="000A a set of polynome coefficients that defin&"')
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	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
StringParameter	interpolation type (description="Type of interpolation in time used")
table dataset	*(description="Coefficients CalWbsFreq Product")*
Metadata	
Double2d	ccd_1 (description="Default ccd_1", quantity="none")
Double2d	ccd_2 (description="Default ccd_2", quantity="none")
Double2d	ccd_3 (description="Default ccd_3", quantity="none")
Double2d	ccd_4 (description="Default ccd_4", quantity="none")
Long1d	obs time (description="Default obs time", quantity="none")

8.1.9. CalWbsFreqTuning

product (type="Calibration", description="The parameter used for the fitting of COMB spectra")	
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	formatVersion (description="Version of product format")
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 tollerance (description="Half range in pixels where is searched a new line.\u000AThe 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.\u000AThe 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. \u000AThis 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 \u000AThe 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 gaussiansin the COMB spectra")
DoubleParameter	Threshold (description="Threshold values used to found the gassians in the COMB spectra. \u000AA 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")

8.1.10. CalWbsLinearCoeff

product (type="Calibration", description="The coefficients for the linear correction.")					
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	formatVersion (description="Version of product format")				
LongParameter	version (description="Version of this product")				
StringParameter	name (description="Name of this product")				
table dataset	*(description=" Linear Coefficients")*				
Metadata					
Double1d	band_1 (description="band 1 linear coefficients", quantity="none")				
Double1d	band_2 (description="band 2 linear coefficients", quantity="none")				
Double1d	band_3 (description="band 3 linear coefficients", quantity="none")				
Double1d	band_4 (description="band 4 linear coefficients", quantity="none")				
Double1d	band_5 (description="band 5 linear coefficients", quantity="none")				
Double1d	band_6 (description="band 6 linear coefficients", quantity="none")				
Double1d	band_7 (description="band 7 linear coefficients", quantity="none")				
Double1d	band_8 (description="band 8 linear coefficients", quantity="none")				
table dataset	*(description="Linear Coefficients")*				
Metadata					
Double1d	band_1 (description="band 1 linear coefficients", quantity="none")				
Double1d	band_2 (description="band 2 linear coefficients", quantity="none")				
Double1d	band_3 (description="band 3 linear coefficients", quantity="none")				
Double1d	band_4 (description="band 4 linear coefficients", quantity="none")				
Double1d	band_5 (description="band 5 linear coefficients", quantity="none")				
Double1d	band_6 (description="band 6 linear coefficients", quantity="none")				
Double1d	band_7 (description="band 7 linear coefficients", quantity="none")				
Double1d	band_8 (description="band 8 linear coefficients", quantity="none")				

8.2. HifiTimelineProduct derived Calibration Products

8.2.1. CalFluxHotCold

product (type="Calibration", description="Hot-Cold calibration.")	
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	formatVersion (description="Version of the product format")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
StringParameter	obsid (description="null")
StringParameter	band (description="null")
StringParameter	Band (description="null")
StringParameter	AOT (description="null")
StringParameter	obsMode (description="null")
StringParameter	odNumber (description="null")
StringParameter	proposal (description="null")
StringParameter	observer (description="null")
StringParameter	object (description="null")
StringParameter	naifId (description="null")
	author (description="author of this product")

StringParameter	
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="Reference frame for equatorial coordinate syste")
DoubleParameter	posAngle (description="position angle from North in sky")
DoubleParameter	equinox (description="Equinox of the celestial coordinate system")
LongParameter	count_ds (description="Number of datasets in this product")
LongParameter	last_ds (description="last dataset in this product")
table dataset	*(description="summary")*
Metadata	
Int1d	dataset (description="null", quantity="none")
Double1d	LoFrequency (description="null", quantity="none")
String1d	type (description="null", quantity="none")
Int1d	start (description="null", quantity="none")
Int1d	length (description="null", quantity="none")
composite	*(description="History of product")*
Metadata	
table dataset	*(description="History as Jython script")*
Metadata	
StringParameter	outvar (description="last output variable")
String1d	Lines (description="script lines", quantity="none")
table dataset	*(description="History of tasks")*
Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*

Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")
String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

8.2.2. CalWbsBadPixel

product (type="Calibration", description="The Bad pixel mask")	
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	formatVersion (description="Version of product format")
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")
	flag value (description="flag value")

DoubleParameter								
table dataset	*(description="Mask")*							
Metadata								
Int1d	Mask (description="Bad pixels", quantity="none")							
composite	*(description="History of product")*							
Metadata								
table dataset	*(description="History as Jython script")*							
Metadata								
StringParameter	outvar (description="last output variable")							
String1d	Lines (description="script lines", quantity="none")							
table dataset	*(description="History of tasks")*							
Metadata								
Long1d	ID (description="Links the parameter and task table", quantity="none")							
String1d	Name (description="The name of the task", quantity="none")							
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")							
String1d	BuildVersion (description="The used HCSS build", quantity="none")							
table dataset	*(description="The parameters belonging to the task history")*							
Metadata								
Long1d	TaskID (description="Links the parameter and task table", quantity="none")							
String1d	Name (description="The name of the parameter", quantity="none")							
String1d	Type (description="Type of parameter", quantity="none")							
String1d	Value (description="String representation of the parameter value", quantity="none")							
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")							
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")							
Bool1d	UserInput (description="Needs user input", quantity="none")							
String1d	Class (description="Class of the parameter", quantity="none")							
String1d	ProductType (description="Product Type for History", quantity="none")							
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")							

8.2.3. CalWbsFreq

product (type="Unknown", description="context for frequincy calibration, comb spectra and relative checks")	
Metadata	
	type (description="Product Type Identification")

StringParameter	
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	formatVersion (description="Version of product format")
composite	*(description="History of product")*
Metadata	
table dataset	*(description="History as Jython script")*
Metadata	
StringParameter	outvar (description="last output variable")
String1d	Lines (description="script lines", quantity="none")
table dataset	*(description="History of tasks")*
Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")
String1d	ProductType (description="Product Type for History", quantity="none")

String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

8.2.4. CalWbsZero

map context (type="Unknown", description="Zero context for zeros spectra and relative checks")		
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	formatVersion (description="Version of product format")	
map context	*(type="Unknown", description="Time ordered HIFI product")*	
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	formatVersion (description="Version of product format")	
StringParameter	interpolation (description="null")	
LongParameter	count_ds (description="Number of datasets in this product")	
LongParameter	last_ds (description="last dataset in this product")	
product	*(type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="WBS Spectrum Dataset")*	
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	formatVersion (description="Version of the product format")
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_11 (description="No valid Frequency Monitor 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")
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	prime_redundant (description="prime or redundant")

StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
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="Reference frame for equatorial coordinate syste")
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	fileName (description="filename for exporting purposes")
StringParameter	level (description="Pipeline level")
DoubleParameter	vlsr (description="Velocity in the frame given at frame")
StringParameter	frame (description="Frame for Local Standard of Rest")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A")
BooleanParameter	isMasked (description="null")

table dataset	*(description="WBS Spectrum Dataset")*
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	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_11 (description="No valid Frequency Monitor 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")
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	prime_redundant (description="prime or redundant")
StringParameter	sds_type (description="Generalized Building Block type")
LongParameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
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="Reference frame for equatorial coordinate syste")
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")
StringParameter	level (description="Pipeline level")
DoubleParameter	vlsr (description="Velocity in the frame given at frame")
StringParameter	frame (description="Frame for Local Standard of Rest")
LongParameter	Pipeline applied (description="Define which pipeline modules have been applied to the data.\u000A bit 0 = not used \u000A bit 1 = Scan count correction \u000A bit 3 = Dark correction \u000A bit 4 = Non Linearity correction \u000A bit 5 = Zero correction \u000A bit 6 = Frequency calibration applied \u000A")
BooleanParameter	isMasked (description="null")
Double2d	flux (description="flux", quantity="none")
Bool1d	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
Int1d	nrbytes (description="Number of Bytes", quantity="none")
Double1d	cmd_chopper (description="Commanded chopper positions", quantity="none")
Int2d	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
Int1d	integrations (description="Number of Integrations", quantity="none")
Long1d	packet time (description="Packetization Time", quantity="none")
Int1d	buffer (description="Integration Buffer", quantity="none")
Int2d	Band_ATT (description="null", quantity="none")
Int1d	scancount (description="Integrated Scan Count", quantity="none")
Double3d	dark (description="Dark Current Data", quantity="none")
Double1d	integration time (description="null", quantity="s")
Int1d	df_transfer (description="DataFrame Transfer Counter", quantity="none")
Long1d	obs time (description="Observation Time", quantity="none")
Int1d	hk_transfer (description="hk_transfer", quantity="none")

Double1d	frequency_monitor (description="LSU Frequency Monitor", quantity="none")
Int1d	IN_ATT (description="null", quantity="none")
Int1d	rowflag (description="Dataframe Flag", quantity="none")
Int1d	bitshift (description="Bit Shift", quantity="none")
Int1d	bbtype (description="Building Block Type", quantity="none")
Double1d	Chopper (description="Actual chopper positions", quantity="none")
Int1d	sequence number (description="Integration Sequence Number", quantity="none")
Double1d	MJC_Ver (description="Calibrated mixer junction current, vertical ban", quantity="A")
Double2d	hot_cold (description="Hot and cold temperatures of the Blackbody Cali", quantity="K")
Double1d	LoFrequency (description="Local Oscillator Frequency", quantity="GHz [1.0E9 Hz]")
Double1d	MJC_Hor (description="Calibrated mixer junction current, horizontal b", quantity="A")
Int2d	flag (description="flag", quantity="none")
Int1d	bbnumber (description="Building Block Number", quantity="none")

product	*(type="Unknown", description="Time ordered HIFI product")*								
	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	formatVersion (description="Version of product format")						
		StringParameter	interpolation (description="null")						
		LongParameter	count_ds (description="Number of datasets in this product")						
		LongParameter	last_ds (description="last dataset in this product")						
	table dataset	*(description="null")*							
		Metadata							
			String1d	type (description="List of types for each block", quantity="none")					
			Int1d	start (description="Start index for each block", quantity="none")					
			Int1d	length (description="Length of each block", quantity="none")					

8.2.5. FreqRanges

product (type="Calibration", description="Frequency Ranges / Drift")

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	formatVersion (description="Version of the product format")
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="Reference frame for equatorial coordinate syste")
DoubleParameter	posAngle (description="position angle from North in sky")
DoubleParameter	equinox (description="Equinox of the celestial coordinate system")
table dataset	*(description="null")*
Metadata	
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")
LongParameter	datasets_14 (description="null")
LongParameter	datasets_15 (description="null")
LongParameter	datasets_16 (description="null")
LongParameter	datasets_17 (description="null")
LongParameter	datasets_18 (description="null")
LongParameter	datasets_19 (description="null")
LongParameter	datasets_20 (description="null")
LongParameter	datasets_21 (description="null")
LongParameter	datasets_22 (description="null")
LongParameter	datasets_23 (description="null")
LongParameter	datasets_24 (description="null")
LongParameter	datasets_25 (description="null")
LongParameter	datasets_26 (description="null")
LongParameter	datasets_27 (description="null")
LongParameter	datasets_28 (description="null")
LongParameter	datasets_29 (description="null")
LongParameter	datasets_30 (description="null")
LongParameter	datasets_31 (description="null")
LongParameter	datasets_32 (description="null")
LongParameter	datasets_33 (description="null")
LongParameter	datasets_34 (description="null")
LongParameter	datasets_35 (description="null")
LongParameter	datasets_36 (description="null")
LongParameter	datasets_37 (description="null")
LongParameter	datasets_38 (description="null")
LongParameter	datasets_39 (description="null")
LongParameter	datasets_40 (description="null")
LongParameter	datasets_41 (description="null")
LongParameter	datasets_42 (description="null")
LongParameter	datasets_43 (description="null")
LongParameter	datasets_44 (description="null")
LongParameter	datasets_45 (description="null")

LongParameter	datasets_46 (description="null")
LongParameter	datasets_47 (description="null")
LongParameter	datasets_48 (description="null")
LongParameter	datasets_49 (description="null")
LongParameter	datasets_50 (description="null")
StringParameter	frequencyGroup (description="null")
composite	*(description="History of product")*
Metadata	
table dataset	*(description="History as Jython script")*
Metadata	
StringParameter	outvar (description="last output variable")
String1d	Lines (description="script lines", quantity="none")
table dataset	*(description="History of tasks")*
Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")
String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

8.3. HIFI Quality Products

8.3.1. CommandFailureProduct

product (type="CommandFailureProduct", description="Level 0 Quality Product: Command Failures")	
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	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
LongParameter	commandAcceptanceFailures (description="Number of command acceptance failures")
LongParameter	commandExecutionFailures (description="Number of command execution failures")
LongParameter	obsid (description="Observation id")
StringParameter	fileName (description="filename for exporting purposes")
table dataset	*(description="Level 0 Quality Product: Command Failures")*
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	DATE_OBS (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	commandAcceptanceFailures (description="Number of command acceptance failures")
LongParameter	commandExecutionFailures (description="Number of command execution failures")
LongParameter	obsid (description="Observation id")
LongParameter	version (description="Version of this product")
StringParameter	fileName (description="filename for exporting purposes")
String1d	Error Type (description="null", quantity="none")
String1d	Time (description="null", quantity="none")

String1d	Error Code (description="null", quantity="none")
Long1d	OBS_ID (description="null", quantity="none")
Long1d	BB_ID (description="null", quantity="none")
Long1d	BBType (description="null", quantity="none")
Long1d	BBCount (description="null", quantity="none")

8.3.2. DataframeCountQualityProduct

product (type="DataframeCountQualityProduct", description="Level 0 Quality Product: Dataframe count")	
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	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
LongParameter	Obsid (description="null")
LongParameter	Apid (description="null")
StringParameter	Mode (description="null")
LongParameter	HIFI Dataframes (description="null")
LongParameter	Downlink DF packets (description="null")
LongParameter	Uplink Expected DFs (description="null")
LongParameter	obsid (description="Observation id")
LongParameter	apid (description="Apid")
StringParameter	fileName (description="filename for exporting purposes")
table dataset	*(description="Level 0 Quality Product: Dataframe count")*
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	DATE_OBS (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	Obsid (description="null")

LongParameter	Apid (description="null")
StringParameter	Mode (description="null")
LongParameter	HIFI Dataframes (description="null")
LongParameter	Downlink DF packets (description="null")
LongParameter	Uplink Expected DFs (description="null")
LongParameter	obsid (description="Observation id")
LongParameter	version (description="Version of this product")
LongParameter	apid (description="Apid")
StringParameter	fileName (description="filename for exporting purposes")
Long1d	BBType (description="null", quantity="none")
Long1d	Uplink-HRS-H (description="null", quantity="none")
Long1d	Downlink-HRS-H (description="null", quantity="none")

8.3.3. QHtpLevel0

product (type="QHtpLevel0", description="Level 0 Quality Product")		
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	formatVersion (description="Version of product format")	
LongParameter	version (description="Version of this product")	
LongParameter	obsid (description="Observation id")	
LongParameter	apid (description="Apid")	
StringParameter	fileName (description="filename for exporting purposes")	
DoubleParameter	unalignedHKdata (description="Percentage of Dataframes which have unaligned HK")	
table dataset	*(description="Level 0 Quality Product")*	
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	DATE_OBS (description="Start date of this product")	

DateParameter	endDate (description="End date of this product")
LongParameter	obsid (description="Observation id")
LongParameter	version (description="Version of this product")
LongParameter	apid (description="Apid")
StringParameter	fileName (description="filename for exporting purposes")
DoubleParameter	unalignedHKdata (description="Percentage of Dataframes which have unaligned HK")
Int1d	dataset (description="dataset id, corresponding the the dataset in th", quantity="none")
String1d	type (description="category of the Bbid", quantity="none")
Int1d	Bbid (description="Building Block", quantity="none")
Int1d	start (description="Start index for each block", quantity="none")
Int1d	length (description="Length of each block", quantity="none")
Int1d	unalignedHKdata (description="UNALIGNED_HK", quantity="none")
Int1d	noChopperHKdata (description="NOCHOPPER", quantity="none")
Int1d	noCommandedChopperHKdata (description="NOCOMCHOP", quantity="none")
Int1d	noFrequencyMonitorHKdata (description="NOFREQMON", quantity="none")
Int1d	noLoCodeOffsetHKdata (description="NOLCOFFS", quantity="none")
Int1d	noLoCodeMainHKdata (description="NOLCMAIN", quantity="none")
Int1d	bbidCorrection (description="BBID_CORRECTION", quantity="none")

8.3.4. RuntimeErrorProduct

product (type="RuntimeErrorProduct", description="Level 0 Quality Product: Runtime errors")	
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	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
LongParameter	runtimeErrors (description="Number of TM Runtime error found")
LongParameter	obsid (description="Observation id")
StringParameter	fileName (description="filename for exporting purposes")

table dataset	*(description="Level 0 Quality Product: Runtime errors")*
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	DATE_OBS (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
LongParameter	runtimeErrors (description="Number of TM Runtime error found")
LongParameter	obsid (description="Observation id")
LongParameter	version (description="Version of this product")
StringParameter	fileName (description="filename for exporting purposes")

8.3.5. QWbsComb

product (type="HifiQualityContext", description="Unknown")	
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	formatVersion (description="Version of product format")
LongParameter	version (description="Version of this product")
StringParameter	name (description="Name of this product")
BooleanParameter	checkComb (description="The global result of ccd COMB checks")

8.3.6. QWbsCcd

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")
StringParameter	formatVersion (description="Version of product format")
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]")

8.3.7. QWbsFreq

product (type="HifiQualityContext", description="context for Comb checks")	
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	formatVersion (description="Version of product format")
BooleanParameter	COMB 0 (description="Check of COMB 0")
BooleanParameter	COMB 1 (description="Check of COMB 1")
BooleanParameter	COMB 2 (description="Check of COMB 2")
BooleanParameter	COMB 3 (description="Check of COMB 3")
BooleanParameter	COMB 4 (description="Check of COMB 4")
BooleanParameter	COMB 5 (description="Check of COMB 5")
BooleanParameter	COMB 6 (description="Check of COMB 6")
BooleanParameter	COMB 7 (description="Check of COMB 7")
BooleanParameter	COMB 8 (description="Check of COMB 8")
BooleanParameter	COMB 9 (description="Check of COMB 9")
BooleanParameter	COMB 10 (description="Check of COMB 10")
BooleanParameter	COMB 11 (description="Check of COMB 11")
BooleanParameter	COMB 12 (description="Check of COMB 12")
BooleanParameter	COMB 13 (description="Check of COMB 13")
BooleanParameter	COMB 14 (description="Check of COMB 14")
BooleanParameter	COMB 15 (description="Check of COMB 15")
BooleanParameter	COMB 16 (description="Check of COMB 16")
BooleanParameter	COMB 17 (description="Check of COMB 17")
BooleanParameter	COMB 18 (description="Check of COMB 18")
BooleanParameter	COMB 19 (description="Check of COMB 19")
BooleanParameter	COMB 20 (description="Check of COMB 20")
BooleanParameter	COMB 21 (description="Check of COMB 21")
BooleanParameter	COMB 22 (description="Check of COMB 22")

BooleanParameter	checkComb (description="Flag for all COMB of the observation")
table dataset	*(description="null")*
Metadata	
String1d	name (description="name", quantity="none")
Bool1d	flagComb (description="flagComb", quantity="none")
Double2d	resolution (description="resolution", quantity="none")
Double2d	dynamic range (description="dynamic range", quantity="none")
Double2d	efficiency (description="efficiency", quantity="none")
Double2d	ripple (description="ripple", quantity="none")
Double2d	RMS of (real comb freq - fit) (description="RMS of (real comb freq - fit)", quantity="none")
composite	*(description="History of product")*
Metadata	
table dataset	*(description="History as Jython script")*
Metadata	
StringParameter	outvar (description="last output variable")
String1d	Lines (description="script lines", quantity="none")
table dataset	*(description="History of tasks")*
Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")
String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

8.3.8. QWbsSpikes

product (type="Quality", description="Contains the channels where a spike has been detected in the COMB")				
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	formatVersion (description="Version of product format")			
LongParameter	version (description="Version of this product")			
StringParameter	name (description="Name of this product")			
BooleanParameter	spikeNumberFlag (description="If the numnber of spikes is over the threshold allow")			
LongParameter	spikeNumber (description="The number of spike")			
table dataset	*(description="spike detected")*			
Metadata				
Int1d	spike mask (description="spike mask", quantity="none")			

8.3.9. QWbsZero

product (type="QWbsZero", description="The Zero check")	
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	formatVersion (description="Version of product format")
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")	
table dataset	*(description="Zero quality table")*	
Metadata		
Double1d	maximum (description="maximum", quantity="none")	
Double1d	minimum (description="minimum", quantity="none")	
Double1d	average (description="average", quantity="none")	
Double1d	variance (description="variance", quantity="none")	
Bool1d	flag (description="flag", quantity="none")	
Long1d	time (description="time", quantity="none")	
composite	*(description="History of product")*	
Metadata		
table dataset	*(description="History as Jython script")*	
Metadata		
StringParameter	outvar (description="last output variable")	
String1d	Lines (description="script lines", quantity="none")	
table dataset	*(description="History of tasks")*	
Metadata		
Long1d	ID (description="Links the parameter and task table", quantity="none")	
String1d	Name (description="The name of the task", quantity="none")	
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")	
String1d	BuildVersion (description="The used HCSS build", quantity="none")	
table dataset	*(description="The parameters belonging to the task history")*	
Metadata		
Long1d	TaskID (description="Links the parameter and task table", quantity="none")	
String1d	Name (description="The name of the parameter", quantity="none")	
String1d	Type (description="Type of parameter", quantity="none")	
String1d	Value (description="String representation of the parameter value", quantity="none")	

Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")
String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

8.3.10. CalPhases

product (type="Calibration", description="Phase Information for Buffer, Chopper and LOFrequency")	
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	formatVersion (description="Version of the product format")
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="Reference frame for equatorial coordinate syste")	
DoubleParameter	posAngle (description="position angle from North in sky")	
DoubleParameter	equinox (description="Equinox of the celestial coordinate system")	
table dataset	*(description="null")*	
Metadata		
Int1d	Dataset (description="Dataset key", quantity="none")	
String1d	type (description="List of types for each block", quantity="none")	
Int1d	length (description="Length of each block", quantity="none")	
Int1d	bbid (description="Unique bbtype of each block", quantity="none")	
Bool1d	isLine (description="ON/OFF", quantity="none")	
String1d	Chopper Pattern (description="Pattern of chopper positions", quantity="none")	
String1d	Chopper (description="Different chopper positions", quantity="none")	
String1d	Initial Chopper (description="Initial chopper position", quantity="none")	
String1d	LO Pattern (description="Pattern of LO frequencies", quantity="none")	
Double2d	Lo Frequencies (description="Different LO frequencies", quantity="none")	
Double1d	Initial LoF (description="Initial LO frequency", quantity="none")	
String1d	Buffer Pattern (description="Pattern of buffer values", quantity="none")	
String1d	Buffers (description="Different buffer values", quantity="none")	
Int1d	Initial Buffer (description="Initial buffer", quantity="none")	
Int1d	LOF Group (description="LO Frequency Group", quantity="none")	
Int1d	Bandpass LOF Group (description="LO Frequency Group of the bandpass used", quantity="none")	
Int1d	OFF LOF Group (description="LO Frequency Group of the OFF data used", quantity="none")	
String1d	Pointing Pattern (description="Pattern followed by the pointing", quantity="none")	
String1d	Points (description="Different Points", quantity="none")	
String1d	Initial Point (description="Initial Point", quantity="none")	
Int1d	Pointing Group (description="Pointing Group", quantity="none")	
composite	*(description="History of product")*	
Metadata		
table dataset	*(description="History as Jython script")*	
Metadata		
StringParameter	outvar (description="last output variable")	
String1d	Lines (description="script lines", quantity="none")	
table dataset	*(description="History of tasks")*	

Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")
String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

8.4. HIFI Trend Analysis Products

8.4.1. FpuTrendProduct

product (type="FpuTrendProduct", description="Fpu Trend Product")	
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	formatVersion (description="Version of product format")
LongParameter	obsid (description="Observation id")
LongParameter	version (description="Version of this product")
StringParameter	band (description="null")

StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	obsMode (description="Observing mode")
LongParameter	odNumber (description="Operational day number")
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")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
StringParameter	fileName (description="filename for exporting purposes")
table dataset	*(description="null")*
Metadata	
Long1d	Time (description="Time [microseconds]", quantity="microseconds [1.0E-6 s]")
Double1d	HF_AH2_G_SIF3_V (description="HF_AH2_G_SIF3_V [eng, V]", quantity="none")
Double1d	HF_APR_S2K_CT (description="HF_APR_S2K_CT [eng, K]", quantity="none")
Double1d	HF_DPR_CH_ROT2 (description="HF_DPR_CH_ROT2 [eng, V]", quantity="none")
Double1d	HF_AH1_MXBIAS_C (description="HF_AH1_MXBIAS_C [eng, mA]", quantity="none")
Double1d	HF_AP_SCHS_CT (description="HF_AP_SCHS_CT [eng, K]", quantity="none")
Double1d	HF_AV2_G_SIF1_V (description="HF_AV2_G_SIF1_V [eng, V]", quantity="none")
Double1d	HF_AV2_G_SIF2_V (description="HF_AV2_G_SIF2_V [eng, V]", quantity="none")
Double1d	HF_AV1_MXBIAS_C (description="HF_AV1_MXBIAS_C [eng, mA]", quantity="none")
Double1d	HF_AV2_G_SIF3_V (description="HF_AV2_G_SIF3_V [eng, V]", quantity="none")
Double1d	HF_AH1_MXMG_C (description="HF_AH1_MXMG_C [eng, mA]", quantity="none")
Double1d	HF_AH2_G_SIF2_V (description="HF_AH2_G_SIF2_V [eng, V]", quantity="none")
Double1d	HF_AH2_G_FIF2_V (description="HF_AH2_G_FIF2_V [eng, V]", quantity="none")
Double1d	HF_AH1_DPACT_C (description="HF_AH1_DPACT_C [eng, mA]", quantity="none")
Double1d	HF_AV1_MXBIAS_V (description="HF_AV1_MXBIAS_V [eng, mV]", quantity="none")
Double1d	HF_AV2_G_FIF2_V (description="HF_AV2_G_FIF2_V [eng, V]", quantity="none")

Double1d	HF_AV2_G_FIF1_V (description="HF_AV2_G_FIF1_V [eng, V]", quantity="none")
Double1d	HF_AV1_DPACT_V (description="HF_AV1_DPACT_V [eng, V]", quantity="none")
Double1d	HF_AH1_MXMG_V (description="HF_AH1_MXMG_V [eng, V]", quantity="none")
Double1d	HF_AH1_DPACT_V (description="HF_AH1_DPACT_V [eng, V]", quantity="none")
Double1d	HF_AV1_MXMG_V (description="HF_AV1_MXMG_V [eng, V]", quantity="none")
Double1d	HF_AH2_G_FIF1_V (description="HF_AH2_G_FIF1_V [eng, V]", quantity="none")
Double1d	HF_APR_SCCS_CT (description="HF_APR_SCCS_CT [eng, K]", quantity="none")
Double1d	HF_AV1_MXMG_C (description="HF_AV1_MXMG_C [eng, mA]", quantity="none")
Double1d	HF_AH1_MXBIAS_V (description="HF_AH1_MXBIAS_V [eng, mV]", quantity="none")
Double1d	HF_AH2_G_SIF1_V (description="HF_AH2_G_SIF1_V [eng, V]", quantity="none")
Double1d	HF_AR_SCHS_CT (description="HF_AR_SCHS_CT [raw]", quantity="none")
Double1d	HF_APR_CH_ROT (description="HF_APR_CH_ROT [eng, V]", quantity="none")
Double1d	HF_AV1_DPACT_C (description="HF_AV1_DPACT_C [eng, mA]", quantity="none")

8.4.2. LoTrendProduct

product (type="LoTrendProduct", description="LO Trend Product")	
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	formatVersion (description="Version of product format")
LongParameter	obsid (description="Observation id")
LongParameter	version (description="Version of this product")
StringParameter	band (description="Active Hifi band")
StringParameter	AOT (description="Observation template (same as obsMode)")
StringParameter	obsMode (description="Observing mode")

LongParameter	odNumber (description="Operational day number")
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")
StringParameter	author (description="author of this product")
StringParameter	origin (description="site that created the product")
StringParameter	telescope (description="name of telescope")
StringParameter	fileName (description="filename for exporting purposes")
table dataset	*(description="null")*
Metadata	
StringParameter	band (description="Active Hifi band")
Long1d	Time (description="Time [microseconds]", quantity="microseconds [1.0E-6 s]")
Int2d	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
Double1d	LoFrequency (description="Local Oscillator Frequency", quantity="GHz [1.0E9 Hz]")
Double1d	HL_Sensor5A_T (description="HL_Sensor5A_T [eng, K]", quantity="none")
Double1d	HL_Gate1_5A_V (description="HL_Gate1_5A_V [eng, V]", quantity="none")
Double1d	HL_Gate1_C (description="HL_Gate1_C [eng, mA]", quantity="none")
Double1d	HL_Gate2_5A_V (description="HL_Gate2_5A_V [eng, V]", quantity="none")
Double1d	HL_Gate2_C (description="HL_Gate2_C [eng, mA]", quantity="none")
Double1d	HL_Drain1_5A_V (description="HL_Drain1_5A_V [eng, V]", quantity="none")
Double1d	HL_Drain1_C (description="HL_Drain1_C [eng, A]", quantity="none")
Double1d	HL_Drain2_5A_V (description="HL_Drain2_5A_V [eng, V]", quantity="none")
Double1d	HL_Drain2_C (description="HL_Drain2_C [eng, A]", quantity="none")
Double1d	HL_M1_5A_V (description="HL_M1_5A_V [eng, V]", quantity="none")
Double1d	HL_M1_5A_C (description="HL_M1_5A_C [eng, mA]", quantity="none")
Double1d	HL_M2_5A_V (description="HL_M2_5A_V [eng, V]", quantity="none")
Double1d	HL_M2_5A_C (description="HL_M2_5A_C [eng, mA]", quantity="none")
Double1d	HL_M3_5A_C (description="HL_M3_5A_C [raw]", quantity="none")

8.4.3. CalSpur

product (type="Unknown", description="Unknown")		
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	formatVersion (description="Version of product format")	
table dataset	*(description="Spur Parameters")*	
Metadata		
Long1d	obsid (description="obsid", quantity="none")	
Long1d	hcid (description="hcid", quantity="none")	
Long1d	apid (description="apid", quantity="none")	
String1d	Band (description="Band", quantity="none")	
Double1d	LO (description="LO Frequency", quantity="MHz [1000000.0 Hz]")	
Long1d	subband (description="Subband", quantity="none")	
Double1d	Pixel (description="Pixel index", quantity="none")	
Double1d	IF (description="IF Frequency", quantity="MHz [1000000.0 Hz]")	
Double1d	amp (description="Amplitude", quantity="none")	
Double1d	width (description="width", quantity="MHz [1000000.0 Hz]")	
String1d	Type (description="Type of spur", quantity="none")	
composite	*(description="History of product")*	
Metadata		
table dataset	*(description="History as Jython script")*	
Metadata		
StringParameter	outvar (description="last output variable")	
String1d	Lines (description="script lines", quantity="none")	
table dataset	*(description="History of tasks")*	
Metadata		
Long1d	ID (description="Links the parameter and task table", quantity="none")	

String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")
String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

Chapter 9. PACS Observation Products

9.1. PACS Photometry Level-0 Products

9.1.1. HPPAVGBS: Frames

product (type="HPPAVGBS", description="Frames")	
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	formatVersion (description="Version of product format")
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")
LongParameter	RemovedSetTime (description="Number of removed Frames due to setTime command")
StringParameter	blue (description="ObservationParameter")
DoubleParameter	chopAvoidFrom (description="ObservationParameter")
DoubleParameter	chopAvoidTo (description="ObservationParameter")
DoubleParameter	dec (description="ObservationParameter")
BooleanParameter	dither (description="ObservationParameter")
BooleanParameter	doSlewScience (description="ObservationParameter")
DoubleParameter	fluxExtBlu (description="ObservationParameter")
DoubleParameter	fluxExtRed (description="ObservationParameter")
DoubleParameter	fluxPntBlu (description="ObservationParameter")
DoubleParameter	fluxPntRed (description="ObservationParameter")
DoubleParameter	lineStep (description="ObservationParameter")
LongParameter	m (description="ObservationParameter")
StringParameter	mapRasterAngleRef (description="ObservationParameter")
DoubleParameter	mapRasterConstrFrom (description="ObservationParameter")
DoubleParameter	mapRasterConstrTo (description="ObservationParameter")
DoubleParameter	mapScanAngle (description="ObservationParameter")
StringParameter	mapScanAngleRef (description="ObservationParameter")
DoubleParameter	mapScanConstrFrom (description="ObservationParameter")
DoubleParameter	mapScanConstrTo (description="ObservationParameter")
DoubleParameter	mapScanCrossScan (description="ObservationParameter")
BooleanParameter	mapScanHomCoverage (description="ObservationParameter")
DoubleParameter	mapScanLegLength (description="ObservationParameter")
LongParameter	mapScanNumLegs (description="ObservationParameter")

StringParameter	mapScanSpeed (description="ObservationParameter")
BooleanParameter	mapScanSquare (description="ObservationParameter")
LongParameter	n (description="ObservationParameter")
LongParameter	naifid (description="ObservationParameter")
LongParameter	obsOverhead (description="ObservationParameter")
DoubleParameter	pointStep (description="ObservationParameter")
DoubleParameter	ra (description="ObservationParameter")
LongParameter	repFactor (description="ObservationParameter")
StringParameter	source (description="ObservationParameter")
StringParameter	fileName (description="null")
array dataset	*(description="null")*
Metadata	
Double3d	(description="null", quantity="none")
table dataset	*(description="Status")*
Metadata	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
Int1d	RESETINDEX (description="Indicates the reset index of the status paramet", quantity="none")
Long1d	OBSID (description="Identifier of the observation", quantity="none")
Long1d	BBID (description="Building block type", quantity="none")
Int1d	LBL (description="Label", quantity="none")
Int1d	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
Int1d	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
Long1d	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
Int1d	VLD (description="Validity flag set by DecMec", quantity="none")
Int1d	CPR (description="Chopper position", quantity="none")
Int1d	WPR (description="Filter wheel Position", quantity="none")
Int1d	BOLST (description="BOL-C status", quantity="none")
Int1d	CRDC (description="OBT clock tick counter since last time reset)", quantity="none")
Int1d	CRDCCP (description="OBT clock tick counter in current chopper plate", quantity="none")
Int1d	DBID (description="Data Block ID", quantity="none")
Int1d	BSID (description="Bolometer Setup Identification", quantity="none")

Bool1d	DMCSEQACTIVE (description="Indicates if a DMC sequence executing", quantity="none")
Int1d	CHOPPERPLATEAU (description="Indicates the chopper plateau within a sequence", quantity="none")
Int1d	CALSOURCE (description="Chopper on Calibration source 1, 2 or off (0)", quantity="none")
Int1d	PIX (description="PIX counter for synchronisation to SPU housekeeping (CompressedEntHeader", quantity="none")
Int1d	RCX (description="Raw Channel Index in CompressedEntHeader", quantity="none")
Int1d	RESETCNT (description="Reset counter to identify frames belonging to a", quantity="none")
Int1d	BLOCKIDX (description="Reference to the BlockTable entry", quantity="none")
String1d	BAND (description="Wavelength Band", quantity="none")
Int1d	NrReadouts (description="Number od readouts per Buffer", quantity="none")
Int1d	BBTYPE (description="Building Block Type", quantity="none")
Int1d	BBSEQCNT (description="Building Block Sequence Count", quantity="none")
Int1d	DP_WHICH_OBCP (description="OBCP Number", quantity="none")
table dataset	*(description="BlockTable")*
Metadata	
StringParameter	MODE (description="PACS Mode")
Int1d	Obcp (description="OBCP", quantity="none")
Int1d	DMSActive (description="Dec Mec Sequence Active", quantity="none")
Int1d	ChopperPlateau (description="Chopper Plateau", quantity="none")
Int1d	CalSource (description="Calibration Source", quantity="none")
Int1d	Filter (description="Filter", quantity="none")
Int1d	StartIdx (description="Start Index", quantity="none")
Int1d	EndIdx (description="End Index (NOT INCLUSIVE)", quantity="none")
Int1d	NrIdx (description="Number of Indexes", quantity="none")
Double1d	Raster (description="Raster Position", quantity="none")
String1d	Id (description="Block ID", quantity="none")
String1d	Description (description="Verbose Description", quantity="none")
Int1d	OnSource (description="On-Source Label", quantity="none")
Int1d	OffSource1 (description="First Off-Source Label", quantity="none")
Int1d	OffSource2 (description="Second Off-Source Label", quantity="none")
Int1d	NoddingPosition (description="Nodding position (0 = None, 1 = A, 2 = B)", quantity="none")
Int1d	NodCycleNum (description="Nodding cycle number", quantity="none")
Int1d	RasterColumnNum (description="Raster column number", quantity="none")
Int1d	RasterLineNum (description="Raster line number", quantity="none")
Int1d	NrAvg (description="Average number", quantity="none")

array dataset	*(description="null")*							
Metadata								
Bool2d	(description="null", quantity="none")							
composite	*(description="Mask data stored in bit encoded arrays")*							
Metadata								
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")							
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")							

9.1.2. HPPAVGRS: Frames

product (type="HPPAVGRS", description="Frames")	
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	formatVersion (description="Version of product format")
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")
LongParameter	RemovedSetTime (description="Number of removed Frames due to setTime command")
StringParameter	fileName (description="null")

array dataset	*(description="null")*
Metadata	
Double3d	(description="null", quantity="none")

table dataset	*(description="Status")*
Metadata	

StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
Int1d	RESETINDEX (description="Indicates the reset index of the status paramet", quantity="none")
Long1d	OBSID (description="Identifier of the observation", quantity="none")
Long1d	BBID (description="Building block type", quantity="none")
Int1d	LBL (description="Label", quantity="none")
Int1d	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
Int1d	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
Long1d	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
Int1d	VLD (description="Validity flag set by DecMec", quantity="none")

Int1d	CPR (description="Chopper position", quantity="none")
Int1d	WPR (description="Filter wheel Position", quantity="none")
Int1d	BOLST (description="BOL-C status", quantity="none")
Int1d	CRDC (description="OBT clock tick counter since last time reset)", quantity="none")
Int1d	CRDCCP (description="OBT clock tick counter in current chopper plate", quantity="none")
Int1d	DBID (description="Data Block ID", quantity="none")
Int1d	BSID (description="Bolometer Setup Identification", quantity="none")
Bool1d	DMCSEQACTIVE (description="Indicates if a DMC sequence executing", quantity="none")
Int1d	CHOPPERPLATEAU (description="Indicates the chopper plateau within a sequence", quantity="none")
Int1d	CALSOURCE (description="Chopper on Calibration source 1, 2 or off (0)", quantity="none")
Int1d	PIX (description="PIX counter for synchronisation to SPU housekeeping (CompressedEntHeader", quantity="none")
Int1d	RCX (description="Raw Channel Index in CompressedEntHeader", quantity="none")
Int1d	RESETCNT (description="Reset counter to identify frames belonging to a", quantity="none")
Int1d	BLOCKIDX (description="Reference to the BlockTable entry", quantity="none")
String1d	BAND (description="Wavelength Band", quantity="none")
Int1d	NrReadouts (description="Number od readouts per Buffer", quantity="none")
Int1d	BBTYPE (description="Building Block Type", quantity="none")
Int1d	BBSEQCNT (description="Building Block Sequence Count", quantity="none")
Int1d	DP_WHICH_OBCP (description="OBCP Number", quantity="none")
table dataset	*(description="BlockTable")*
Metadata	
StringParameter	MODE (description="PACS Mode")
Int1d	Obcp (description="OBCP", quantity="none")
Int1d	DMSActive (description="Dec Mec Sequence Active", quantity="none")
Int1d	ChopperPlateau (description="Chopper Plateau", quantity="none")
Int1d	CalSource (description="Calibration Source", quantity="none")
Int1d	Filter (description="Filter", quantity="none")
Int1d	StartIdx (description="Start Index", quantity="none")
Int1d	EndIdx (description="End Index (NOT INCLUSIVE)", quantity="none")
Int1d	NrIdx (description="Number of Indexes", quantity="none")
Double1d	Raster (description="Raster Position", quantity="none")
String1d	Id (description="Block ID", quantity="none")
String1d	Description (description="Verbose Description", quantity="none")
Int1d	OnSource (description="On-Source Label", quantity="none")

Int1d	OffSource1 (description="First Off-Source Label", quantity="none")
Int1d	OffSource2 (description="Second Off-Source Label", quantity="none")
Int1d	NoddingPosition (description="Nodding position (0 = None, 1 = A, 2 = B)", quantity="none")
Int1d	NodCycleNum (description="Nodding cycle number", quantity="none")
Int1d	RasterColumnNum (description="Raster column number", quantity="none")
Int1d	RasterLineNum (description="Raster line number", quantity="none")
Int1d	NrAvg (description="Average number", quantity="none")
array dataset	*(description="null")*
Metadata	
Bool2d	(description="null", quantity="none")
composite	*(description="Mask data stored in bit encoded arrays")*
Metadata	
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")
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")

9.1.3. HPPDMCBS

product (type="HPPDMCBS", description="Unknown")	
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	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
StringParameter	blue (description="ObservationParameter")
DoubleParameter	chopAvoidFrom (description="ObservationParameter")
DoubleParameter	chopAvoidTo (description="ObservationParameter")
DoubleParameter	dec (description="ObservationParameter")
BooleanParameter	dither (description="ObservationParameter")
BooleanParameter	doSlewScience (description="ObservationParameter")
DoubleParameter	fluxExtBlu (description="ObservationParameter")
DoubleParameter	fluxExtRed (description="ObservationParameter")
DoubleParameter	fluxPntBlu (description="ObservationParameter")
DoubleParameter	fluxPntRed (description="ObservationParameter")
DoubleParameter	lineStep (description="ObservationParameter")
LongParameter	m (description="ObservationParameter")
StringParameter	mapRasterAngleRef (description="ObservationParameter")
DoubleParameter	mapRasterConstrFrom (description="ObservationParameter")
DoubleParameter	mapRasterConstrTo (description="ObservationParameter")
DoubleParameter	mapScanAngle (description="ObservationParameter")
StringParameter	mapScanAngleRef (description="ObservationParameter")
DoubleParameter	mapScanConstrFrom (description="ObservationParameter")
DoubleParameter	mapScanConstrTo (description="ObservationParameter")
DoubleParameter	mapScanCrossScan (description="ObservationParameter")
BooleanParameter	mapScanHomCoverage (description="ObservationParameter")
DoubleParameter	mapScanLegLength (description="ObservationParameter")
LongParameter	mapScanNumLegs (description="ObservationParameter")
StringParameter	mapScanSpeed (description="ObservationParameter")
BooleanParameter	mapScanSquare (description="ObservationParameter")
LongParameter	n (description="ObservationParameter")
LongParameter	naifid (description="ObservationParameter")
LongParameter	obsOverhead (description="ObservationParameter")
DoubleParameter	pointStep (description="ObservationParameter")
DoubleParameter	ra (description="ObservationParameter")
LongParameter	repFactor (description="ObservationParameter")
StringParameter	source (description="ObservationParameter")
StringParameter	fileName (description="null")
table dataset	*(description="Status")*
Metadata	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")

LongParameter	DIM2 (description="Number of measures per status parameter")
Int1d	RESETINDEX (description="Indicates the reset index of the status paramet", quantity="none")
Int1d	OBSID (description="Identifier of the observation", quantity="none")
Int1d	BBID (description="Building block type", quantity="none")
Int2d	LBL (description="Label", quantity="none")
Int2d	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
Int2d	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
Long2d	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
Int2d	VLD (description="Validity flag set by DecMec", quantity="none")
Int2d	CPR (description="Chopper position", quantity="none")
Int2d	WPR (description="Filter wheel Position", quantity="none")
Int2d	BOLST (description="BOL-C status", quantity="none")
Int2d	CRDC (description="OBT clock tick counter since last time reset)", quantity="none")
Int2d	CRDCCP (description="OBT clock tick counter in current chopper plate", quantity="none")
Int2d	DBID (description="Data Block ID", quantity="none")
Int2d	BSID (description="Bolometer Setup Identification", quantity="none")
Int1d	NrReadouts (description="Number of readouts per Buffer", quantity="none")

9.1.4. HPPDMCRS

product (type="HPPDMCRS", description="Unknown")	
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	formatVersion (description="Version of product format")
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")
table dataset	*(description="Status")*

Metadata	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
Int1d	RESETINDEX (description="Indicates the reset index of the status paramet", quantity="none")
Int1d	OBSID (description="Identifier of the observation", quantity="none")
Int1d	BBID (description="Building block type", quantity="none")
Int2d	LBL (description="Label", quantity="none")
Int2d	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
Int2d	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
Long2d	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
Int2d	VLD (description="Validity flag set by DecMec", quantity="none")
Int2d	CPR (description="Chopper position", quantity="none")
Int2d	WPR (description="Filter wheel Position", quantity="none")
Int2d	BOLST (description="BOL-C status", quantity="none")
Int2d	CRDC (description="OBT clock tick counter since last time reset)", quantity="none")
Int2d	CRDCCP (description="OBT clock tick counter in current chopper plate", quantity="none")
Int2d	DBID (description="Data Block ID", quantity="none")
Int2d	BSID (description="Bolometer Setup Identification", quantity="none")
Int1d	NrReadouts (description="Number of readouts per Buffer", quantity="none")

9.1.5. HPPHK: Photometer Housekeeping

product (type="HPPHK", description="HPPHKS")	
Metadata	
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	formatVersion (description="Format Version of the Products")
StringParameter	fileName (description="null")
StringParameter	missionConfiguration (description="Mission Configuration")

LongParameter	obsid (description="Observation ID")
LongParameter	obsType (description="null")
LongParameter	obsCount (description="OBSID")
table dataset	*(description="Generated from PacketSequence $Revision: 1.4 $")*
Metadata	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
Long1d	Time (description="Time [microseconds]", quantity="microseconds [1.0E-6 s]")
Long1d	DM_DSIM_ERROR (description="DM_DSIM_ERROR [raw]", quantity="none")
String1d	DM_CS1C_SYNCHRO (description="DM_CS1C_SYNCHRO", quantity="none")
Double1d	BOL_I_VSS_B_3 (description="BOL_I_VSS_B_3 [eng, A]", quantity="none")
Double1d	BOL_I_VSS_B_2 (description="BOL_I_VSS_B_2 [eng, A]", quantity="none")
Long1d	DP_1_8_REJECTED (description="DP_1_8_REJECTED [raw]", quantity="none")
Double1d	BOL_I_VSS_B_1 (description="BOL_I_VSS_B_1 [eng, A]", quantity="none")
Long1d	SPL_PIX (description="SPL_PIX [raw]", quantity="none")
Long1d	SPS_LLC_ERROR (description="SPS_LLC_ERROR [raw]", quantity="none")
String1d	DP_DMC_CMD (description="DP_DMC_CMD", quantity="none")
Double1d	BOL_I_VSS_B_4 (description="BOL_I_VSS_B_4 [eng, A]", quantity="none")
String1d	DM_FPU_CH_TS_ST (description="DM_FPU_CH_TS_ST", quantity="none")
Double1d	BOL_VSMSH_R_1 (description="BOL_VSMSH_R_1 [eng, V]", quantity="none")
Double1d	BOL_VSMSH_R_2 (description="BOL_VSMSH_R_2 [eng, V]", quantity="none")
String1d	DM_FWSC_TASK_WR (description="DM_FWSC_TASK_WR", quantity="none")
Long1d	DM_PM_SF_IND (description="DM_PM_SF_IND [raw]", quantity="none")
String1d	DM_HKCO_TASK_AL (description="DM_HKCO_TASK_AL", quantity="none")
Double1d	BOL_I_HEATER_1R (description="BOL_I_HEATER_1R [eng, A]", quantity="none")
Double1d	BOL_TEMP_PSU_1 (description="BOL_TEMP_PSU_1 [eng, degC]", quantity="none")
Long1d	DM_DSIM_SPARE7 (description="DM_DSIM_SPARE7 [raw]", quantity="none")
Double1d	BOL_TEMP_PSU_2 (description="BOL_TEMP_PSU_2 [eng, degC]", quantity="none")

String1d	DM_BPE_LINK (description="DM_BPE_LINK", quantity="none")
String1d	DM_FWPC_POWER (description="DM_FWPC_POWER", quantity="none")
String1d	DM_FPU_FWS_TS_S (description="DM_FPU_FWS_TS_S", quantity="none")
Double1d	BOL_HEAT_EV_SWT (description="BOL_HEAT_EV_SWT [eng, A]", quantity="none")
String1d	DM_SEQ_IDLE (description="DM_SEQ_IDLE", quantity="none")
Double1d	BOL_VH_BLIND_R1 (description="BOL_VH_BLIND_R1 [eng, V]", quantity="none")
String1d	DM_DRC_TASK_AL (description="DM_DRC_TASK_AL", quantity="none")
Double1d	BOL_VH_BLIND_R2 (description="BOL_VH_BLIND_R2 [eng, V]", quantity="none")
String1d	DM_CS1C_POWER (description="DM_CS1C_POWER", quantity="none")
String1d	DM_HKD_ERR_NS (description="DM_HKD_ERR_NS", quantity="none")
Long1d	SPL_LLC_ERROR (description="SPL_LLC_ERROR [raw]", quantity="none")
Long1d	DM_DPU_SEN_STAT (description="DM_DPU_SEN_STAT [raw]", quantity="none")
Long1d	DM_BOL_CTRL_STA (description="DM_BOL_CTRL_STA [raw]", quantity="none")
Double1d	BOL_TEMP_R_1 (description="BOL_TEMP_R_1 [eng, degC]", quantity="none")
Double1d	BOL_TEMP_R_2 (description="BOL_TEMP_R_2 [eng, degC]", quantity="none")
Double1d	BOL_TEMP_R_3 (description="BOL_TEMP_R_3 [eng, degC]", quantity="none")
Double1d	BOL_TEMP_R_4 (description="BOL_TEMP_R_4 [eng, degC]", quantity="none")
Double1d	BOL_I_HEATER_2R (description="BOL_I_HEATER_2R [eng, A]", quantity="none")
Long1d	DM_FWSC_ERROR (description="DM_FWSC_ERROR [raw]", quantity="none")
Double1d	BOL_TEMP_R_5 (description="BOL_TEMP_R_5 [eng, degC]", quantity="none")
String1d	DM_DSIM_TASK_AL (description="DM_DSIM_TASK_AL", quantity="none")
String1d	DP_DMC_HK (description="DP_DMC_HK", quantity="none")
Long1d	DM_SW_GLOBAL_ST (description="DM_SW_GLOBAL_ST [raw]", quantity="none")
Long1d	DM_BOL_REC_PAC (description="DM_BOL_REC_PAC [raw]", quantity="none")
Double1d	BOL_VDL_BU_R_1 (description="BOL_VDL_BU_R_1 [eng, V]", quantity="none")

Double1d	BOL_VDL_BU_R_2 (description="BOL_VDL_BU_R_2 [eng, V]", quantity="none")
Long1d	DM_CS2_CTRL_STA (description="DM_CS2_CTRL_STA [raw]", quantity="none")
Long1d	DM_LAST_ER_BF16 (description="DM_LAST_ER_BF16 [raw]", quantity="none")
Long1d	DM_LAST_ER_BF10 (description="DM_LAST_ER_BF10 [raw]", quantity="none")
Double1d	DM_REF_VOLT_5V (description="DM_REF_VOLT_5V [eng, V]", quantity="none")
Long1d	DM_LAST_ER_BF11 (description="DM_LAST_ER_BF11 [raw]", quantity="none")
Long1d	SPS_PIX (description="SPS_PIX [raw]", quantity="none")
String1d	DM_GC_HOM_PROG (description="DM_GC_HOM_PROG", quantity="none")
Long1d	DM_LAST_ER_BF14 (description="DM_LAST_ER_BF14 [raw]", quantity="none")
Long1d	DM_LAST_ER_BF15 (description="DM_LAST_ER_BF15 [raw]", quantity="none")
String1d	DM_CS1C_ERR_NS (description="DM_CS1C_ERR_NS", quantity="none")
Long1d	DM_LAST_ER_BF12 (description="DM_LAST_ER_BF12 [raw]", quantity="none")
Double1d	DM_CS2_TARGET (description="DM_CS2_TARGET [eng, Ohm]", quantity="none")
Long1d	DM_LAST_ER_BF13 (description="DM_LAST_ER_BF13 [raw]", quantity="none")
String1d	DM_DPUR_TASK_WR (description="DM_DPUR_TASK_WR", quantity="none")
Long1d	DM_CHOP_PID_ERR (description="DM_CHOP_PID_ERR [raw]", quantity="none")
Long1d	DP_COM_SPS_PACK (description="DP_COM_SPS_PACK [raw]", quantity="none")
Double1d	DP_VOL_5P (description="DP_VOL_5P [eng, V]", quantity="none")
String1d	DM_CS2C_TASK_WR (description="DM_CS2C_TASK_WR", quantity="none")
Long1d	DM_PLL_RES_LO (description="DM_PLL_RES_LO [raw]", quantity="none")
String1d	DM_DPUS_LINK (description="DM_DPUS_LINK", quantity="none")
Double1d	DP_VOL_25P (description="DP_VOL_25P [eng, V]", quantity="none")
Long1d	DP_COM_DMC_NACK (description="DP_COM_DMC_NACK [raw]", quantity="none")
String1d	DM_GC_SYNCHRO (description="DM_GC_SYNCHRO", quantity="none")
String1d	DM_FWPC_POSC_B (description="DM_FWPC_POSC_B", quantity="none")

String1d	DM_FWPC_POSC_A (description="DM_FWPC_POSC_A", quantity="none")
String1d	DP_INIT (description="DP_INIT", quantity="none")
Long1d	DM_BLUE_PAC_ENC (description="DM_BLUE_PAC_ENC [raw]", quantity="none")
String1d	DM_FWSC_ERR_NS (description="DM_FWSC_ERR_NS", quantity="none")
String1d	DM_CC_COMMUT (description="DM_CC_COMMUT", quantity="none")
String1d	DM_CS2C_PID (description="DM_CS2C_PID", quantity="none")
String1d	DM_DBC_TASK_AL (description="DM_DBC_TASK_AL", quantity="none")
Long1d	SPL_MEM_CNTS (description="SPL_MEM_CNTS [raw]", quantity="none")
Long1d	DM_HK_DIAG_PERI (description="DM_HK_DIAG_PERI [raw]", quantity="none")
Long1d	SPL_SUBVERSION (description="SPL_SUBVERSION [raw]", quantity="none")
Long1d	DM_DBR_ERROR (description="DM_DBR_ERROR [raw]", quantity="none")
String1d	DP_EV_BOL_I_HEA (description="DP_EV_BOL_I_HEA", quantity="none")
String1d	DP_EV_BOL_BIAS (description="DP_EV_BOL_BIAS", quantity="none")
Double1d	DM_SPU_LWL_TEMP (description="DM_SPU_LWL_TEMP [eng, K]", quantity="none")
String1d	DM_CC_PID (description="DM_CC_PID", quantity="none")
Long1d	DP_EVENT_LOST (description="DP_EVENT_LOST [raw]", quantity="none")
Double1d	DM_SPU_VP_CUR (description="DM_SPU_VP_CUR [eng, mA]", quantity="none")
Long1d	DM_CC_SPARE1B (description="DM_CC_SPARE1B [raw]", quantity="none")
Long1d	DP_COM_REC_DPU (description="DP_COM_REC_DPU [raw]", quantity="none")
Long1d	DM_CC_SPARE1A (description="DM_CC_SPARE1A [raw]", quantity="none")
String1d	DM_DPUS_ERR_NS (description="DM_DPUS_ERR_NS", quantity="none")
Double1d	BOL_VGL_R_1 (description="BOL_VGL_R_1 [eng, V]", quantity="none")
Long1d	DP_SW_SUBVERS_ID (description="DP_SW_SUBVERS_ID [raw]", quantity="none")
Double1d	BOL_VGL_R_2 (description="BOL_VGL_R_2 [eng, V]", quantity="none")
String1d	DM_DBC_TASK_WR (description="DM_DBC_TASK_WR", quantity="none")
Long1d	SPS_RCX (description="SPS_RCX [raw]", quantity="none")

String1d	DM_CS1C_DOWN (description="DM_CS1C_DOWN", quantity="none")
String1d	DM_FWSC_MOVING (description="DM_FWSC_MOVING", quantity="none")
Long1d	DM_SEQ_LABEL (description="DM_SEQ_LABEL [raw]", quantity="none")
String1d	DP_UNIT (description="DP_UNIT", quantity="none")
Long1d	SPS_PAR_MONITOR (description="SPS_PAR_MONITOR [raw]", quantity="none")
String1d	DM_DBR_TASK_AL (description="DM_DBR_TASK_AL", quantity="none")
Long1d	DM_SEQ_ERROR (description="DM_SEQ_ERROR [raw]", quantity="none")
Long1d	DM_DET_SIM_PER (description="DM_DET_SIM_PER [raw]", quantity="none")
Double1d	BOL_VSS_BU_R_2 (description="BOL_VSS_BU_R_2 [eng, V]", quantity="none")
Double1d	DM_CAL_SRC_TEMP (description="DM_CAL_SRC_TEMP [eng, K]", quantity="none")
String1d	DM_DSIM_R_SIMUL (description="DM_DSIM_R_SIMUL", quantity="none")
String1d	DM_DBC_ERR_NS (description="DM_DBC_ERR_NS", quantity="none")
Double1d	BOL_VSS_BU_R_1 (description="BOL_VSS_BU_R_1 [eng, V]", quantity="none")
String1d	DM_DRC_POWER (description="DM_DRC_POWER", quantity="none")
String1d	DM_SEQ_TASK_WR (description="DM_SEQ_TASK_WR", quantity="none")
String1d	DM_FWSP_CUR_POS (description="DM_FWSP_CUR_POS", quantity="none")
Long1d	DM_CC_ERROR (description="DM_CC_ERROR [raw]", quantity="none")
String1d	DM_DPUR_ERR_NS (description="DM_DPUR_ERR_NS", quantity="none")
Long1d	DM_HKD_ERROR (description="DM_HKD_ERROR [raw]", quantity="none")
String1d	DP_SPUS_CMD (description="DP_SPUS_CMD", quantity="none")
Long1d	DM_CC_SPARE1C (description="DM_CC_SPARE1C [raw]", quantity="none")
Double1d	BOL_CKTRIL_R_B1 (description="BOL_CKTRIL_R_B1 [eng, V]", quantity="none")
String1d	DP_1553_HANDLER (description="DP_1553_HANDLER", quantity="none")
Double1d	DM_SPU_VCC_VOL (description="DM_SPU_VCC_VOL [eng, V]", quantity="none")
Double1d	BOL_CKTRIL_R_B2 (description="BOL_CKTRIL_R_B2 [eng, V]", quantity="none")

Double1d	BOL_VDDPRO_BUR2 (description="BOL_VDDPRO_BUR2 [eng, V]", quantity="none")
Double1d	BOL_CKTRIL_R_B3 (description="BOL_CKTRIL_R_B3 [eng, V]", quantity="none")
Long1d	DM_DPUS_SPARE4 (description="DM_DPUS_SPARE4 [raw]", quantity="none")
Double1d	BOL_VDDPRO_BUR1 (description="BOL_VDDPRO_BUR1 [eng, V]", quantity="none")
Double1d	BOL_CKTRIL_R_B4 (description="BOL_CKTRIL_R_B4 [eng, V]", quantity="none")
Long1d	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")
Double1d	DM_GRATING_TEMP (description="DM_GRATING_TEMP [eng, K]", quantity="none")
Long1d	DM_CS2C_SPARE4 (description="DM_CS2C_SPARE4 [raw]", quantity="none")
Double1d	BOL_VGG_B_3 (description="BOL_VGG_B_3 [eng, V]", quantity="none")
Double1d	BOL_VGG_B_2 (description="BOL_VGG_B_2 [eng, V]", quantity="none")
Double1d	BOL_VGG_B_4 (description="BOL_VGG_B_4 [eng, V]", quantity="none")
String1d	DP_TM_RATE (description="DP_TM_RATE", quantity="none")
Double1d	BOL_VGG_B_1 (description="BOL_VGG_B_1 [eng, V]", quantity="none")
Long1d	DM_CS2C_SPARE1 (description="DM_CS2C_SPARE1 [raw]", quantity="none")
String1d	DM_DRR_SIM_TIME (description="DM_DRR_SIM_TIME", quantity="none")
String1d	DM_DPUR_LINK (description="DM_DPUR_LINK", quantity="none")
String1d	DM_CC_SYNCHRO (description="DM_CC_SYNCHRO", quantity="none")
Long1d	DM_RED_ENC_PAC (description="DM_RED_ENC_PAC [raw]", quantity="none")
String1d	DP_DMC_LINK (description="DP_DMC_LINK", quantity="none")
Double1d	BOL_I_VSS_R_1 (description="BOL_I_VSS_R_1 [eng, A]", quantity="none")
Double1d	BOL_I_VSS_R_2 (description="BOL_I_VSS_R_2 [eng, A]", quantity="none")
String1d	DM_RPE_LINK (description="DM_RPE_LINK", quantity="none")
String1d	DM_RSPU_TR_MODE (description="DM_RSPU_TR_MODE", quantity="none")
String1d	DP_EV_BOL_V_PWR (description="DP_EV_BOL_V_PWR", quantity="none")
String1d	DP_SPUL_CMD (description="DP_SPUL_CMD", quantity="none")
Long1d	DM_CS1_CTRL_STA (description="DM_CS1_CTRL_STA [raw]", quantity="none")

Long1d	DP_SPUS_LINK_DE (description="DP_SPUS_LINK_DE [raw]", quantity="none")
Long1d	DM_OBT_COUNT (description="DM_OBT_COUNT [raw]", quantity="none")
Double1d	DP_T (description="DP_T [eng, degC]", quantity="none")
Long1d	DM_DECB_CTRL_ST (description="DM_DECB_CTRL_ST [raw]", quantity="none")
String1d	DM_CS1C_TASK_AL (description="DM_CS1C_TASK_AL", quantity="none")
Long1d	DM_FWSC_SPARE1B (description="DM_FWSC_SPARE1B [raw]", quantity="none")
String1d	DM_DSIM_BOL_SIM (description="DM_DSIM_BOL_SIM", quantity="none")
String1d	DM_CC_LOOP (description="DM_CC_LOOP", quantity="none")
String1d	DP_STABLE_DEC (description="DP_STABLE_DEC", quantity="none")
String1d	SPS_DMC_ERROR (description="SPS_DMC_ERROR", quantity="none")
Double1d	BOL_VDECXH_B_1 (description="BOL_VDECXH_B_1 [eng, V]", quantity="none")
Double1d	BOL_VDL_BU_B_1 (description="BOL_VDL_BU_B_1 [eng, V]", quantity="none")
Double1d	BOL_VDECXH_B_3 (description="BOL_VDECXH_B_3 [eng, V]", quantity="none")
Double1d	BOL_VDL_BU_B_3 (description="BOL_VDL_BU_B_3 [eng, V]", quantity="none")
Double1d	BOL_VDECXH_B_2 (description="BOL_VDECXH_B_2 [eng, V]", quantity="none")
Double1d	BOL_VDL_BU_B_2 (description="BOL_VDL_BU_B_2 [eng, V]", quantity="none")
Double1d	BOL_I_VSS_BU_R1 (description="BOL_I_VSS_BU_R1 [eng, A]", quantity="none")
Double1d	BOL_I_VSS_BU_R2 (description="BOL_I_VSS_BU_R2 [eng, A]", quantity="none")
Double1d	BOL_VDECXH_B_4 (description="BOL_VDECXH_B_4 [eng, V]", quantity="none")
Double1d	BOL_VDL_BU_B_4 (description="BOL_VDL_BU_B_4 [eng, V]", quantity="none")
Long1d	DM_FWGRAT_HALLB (description="DM_FWGRAT_HALLB [raw]", quantity="none")
Long1d	DM_GRAT_CUR_POS (description="DM_GRAT_CUR_POS [raw]", quantity="none")
Double1d	BOL_VDL_B_1 (description="BOL_VDL_B_1 [eng, V]", quantity="none")
Long1d	DM_FWGRAT_HALLA (description="DM_FWGRAT_HALLA [raw]", quantity="none")
String1d	DM_BC_LINK (description="DM_BC_LINK", quantity="none")

Long1d	DM_CHOP_SETPOIN (description="DM_CHOP_SETPOIN [raw]", quantity="none")
Double1d	BOL_VDL_B_4 (description="BOL_VDL_B_4 [eng, V]", quantity="none")
Double1d	BOL_VDL_B_3 (description="BOL_VDL_B_3 [eng, V]", quantity="none")
Double1d	BOL_VDL_B_2 (description="BOL_VDL_B_2 [eng, V]", quantity="none")
String1d	DM_GC_TASK_WR (description="DM_GC_TASK_WR", quantity="none")
Double1d	BOL_VGG_R_1 (description="BOL_VGG_R_1 [eng, V]", quantity="none")
String1d	DP_EV_BOL_I_SP2 (description="DP_EV_BOL_I_SP2", quantity="none")
Double1d	BOL_VGG_R_2 (description="BOL_VGG_R_2 [eng, V]", quantity="none")
String1d	DP_EV_BOL_I_SP1 (description="DP_EV_BOL_I_SP1", quantity="none")
Long1d	DM_DPU_REC_PAC (description="DM_DPU_REC_PAC [raw]", quantity="none")
String1d	DP_COUNTER_PHOT (description="DP_COUNTER_PHOT", quantity="none")
Long1d	SPS_OBSID (description="SPS_OBSID [raw]", quantity="none")
String1d	SPL_SATUR_FLAG (description="SPL_SATUR_FLAG", quantity="none")
Double1d	BOL_VSS_R_1 (description="BOL_VSS_R_1 [eng, V]", quantity="none")
Long1d	DM_SEQ_STATUS (description="DM_SEQ_STATUS [raw]", quantity="none")
Double1d	BOL_VSS_R_2 (description="BOL_VSS_R_2 [eng, V]", quantity="none")
Double1d	DM_CS2_RES_VAL (description="DM_CS2_RES_VAL [eng, Ohm]", quantity="none")
String1d	DM_DRC_LINK (description="DM_DRC_LINK", quantity="none")
Double1d	BOL_VSMSL_R_1 (description="BOL_VSMSL_R_1 [eng, V]", quantity="none")
Double1d	BOL_VSMSL_R_2 (description="BOL_VSMSL_R_2 [eng, V]", quantity="none")
String1d	DM_FPU_S1_TS_ST (description="DM_FPU_S1_TS_ST", quantity="none")
String1d	DM_BC_TASK_AL (description="DM_BC_TASK_AL", quantity="none")
Long1d	DP_COM_SPS_NACK (description="DP_COM_SPS_NACK [raw]", quantity="none")
String1d	DM_BC_ERR_NS (description="DM_BC_ERR_NS", quantity="none")
String1d	DM_DBC_POWER (description="DM_DBC_POWER", quantity="none")

Long1d	DM_RED_PAC_ENC (description="DM_RED_PAC_ENC [raw]", quantity="none")
Long1d	DM_DBC_SPARE3 (description="DM_DBC_SPARE3 [raw]", quantity="none")
Double1d	DM_FPU_T2_TEMP (description="DM_FPU_T2_TEMP [eng, K]", quantity="none")
String1d	DM_FWPC_POS_B (description="DM_FWPC_POS_B", quantity="none")
String1d	DM_FWPC_POS_A (description="DM_FWPC_POS_A", quantity="none")
Long1d	DM_CS1C_ERROR (description="DM_CS1C_ERROR [raw]", quantity="none")
String1d	DP_EV_DEC_SPC (description="DP_EV_DEC_SPC", quantity="none")
Long1d	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
String1d	DM_GC_HOM_COMP (description="DM_GC_HOM_COMP", quantity="none")
String1d	DP_EVENT_DEC (description="DP_EVENT_DEC", quantity="none")
Long1d	DP_COM_DMC (description="DP_COM_DMC [raw]", quantity="none")
Long1d	DM_FWSC_SPARE1A (description="DM_FWSC_SPARE1A [raw]", quantity="none")
String1d	DM_FWPC_MOVING (description="DM_FWPC_MOVING", quantity="none")
String1d	DP_EV_BOL_T_WE (description="DP_EV_BOL_T_WE", quantity="none")
String1d	DM_CC_DOWN (description="DM_CC_DOWN", quantity="none")
Double1d	DM_DCDC_TEMP (description="DM_DCDC_TEMP [eng, K]", quantity="none")
String1d	DM_HKD_DIAGMODE (description="DM_HKD_DIAGMODE", quantity="none")
String1d	DM_CS2C_TASK_AL (description="DM_CS2C_TASK_AL", quantity="none")
String1d	DM_DRR_LINK (description="DM_DRR_LINK", quantity="none")
String1d	DP_AF_24_SPARE (description="DP_AF_24_SPARE", quantity="none")
String1d	DP_1553CHANNEL (description="DP_1553CHANNEL", quantity="none")
Double1d	DM_FW_SPEC_TEMP (description="DM_FW_SPEC_TEMP [eng, K]", quantity="none")
Long1d	DM_FWPC_SPARE4 (description="DM_FWPC_SPARE4 [raw]", quantity="none")
String1d	DM_DBR_SENDING (description="DM_DBR_SENDING", quantity="none")
String1d	DM_DRR_TASK_AL (description="DM_DRR_TASK_AL", quantity="none")

Long1d	DM_SEQ_SPARE1 (description="DM_SEQ_SPARE1 [raw]", quantity="none")
Double1d	BOL_VDL_R_1 (description="BOL_VDL_R_1 [eng, V]", quantity="none")
Double1d	BOL_VSS_BU_B_4 (description="BOL_VSS_BU_B_4 [eng, V]", quantity="none")
Long1d	DM_SEQ_SPARE2 (description="DM_SEQ_SPARE2 [raw]", quantity="none")
Double1d	BOL_VSS_BU_B_2 (description="BOL_VSS_BU_B_2 [eng, V]", quantity="none")
String1d	DM_GC_PID (description="DM_GC_PID", quantity="none")
String1d	DM_GC_POWER (description="DM_GC_POWER", quantity="none")
Long1d	DM_DPUS_ERROR (description="DM_DPUS_ERROR [raw]", quantity="none")
Double1d	BOL_VDL_R_2 (description="BOL_VDL_R_2 [eng, V]", quantity="none")
Double1d	DM_CS1_RES_VAL (description="DM_CS1_RES_VAL [eng, Ohm]", quantity="none")
Double1d	BOL_VSS_BU_B_3 (description="BOL_VSS_BU_B_3 [eng, V]", quantity="none")
Double1d	BOL_VSS_BU_B_1 (description="BOL_VSS_BU_B_1 [eng, V]", quantity="none")
String1d	DM_BSPU_TR_MODE (description="DM_BSPU_TR_MODE", quantity="none")
String1d	DM_DRC_TASK_WR (description="DM_DRC_TASK_WR", quantity="none")
Long1d	DP_COM_SPUS (description="DP_COM_SPUS [raw]", quantity="none")
String1d	DM_CC_ERR_NS (description="DM_CC_ERR_NS", quantity="none")
Double1d	BOL_VSS_B_4 (description="BOL_VSS_B_4 [eng, V]", quantity="none")
Double1d	BOL_VSS_B_3 (description="BOL_VSS_B_3 [eng, V]", quantity="none")
Double1d	BOL_VSS_B_2 (description="BOL_VSS_B_2 [eng, V]", quantity="none")
Long1d	DP_COM_SPUL (description="DP_COM_SPUL [raw]", quantity="none")
Double1d	BOL_VSS_B_1 (description="BOL_VSS_B_1 [eng, V]", quantity="none")
String1d	DM_DSIM_TIME (description="DM_DSIM_TIME", quantity="none")
Long1d	DM_HKD_SPARE3 (description="DM_HKD_SPARE3 [raw]", quantity="none")
Long1d	DP_AF_STATUS (description="DP_AF_STATUS [raw]", quantity="none")

Long1d	DM_DSIM_SPARE1B (description="DM_DSIM_SPARE1B [raw]", quantity="none")
Long1d	DM_DSIM_SPARE1A (description="DM_DSIM_SPARE1A [raw]", quantity="none")
String1d	DM_DPUS_TASK_AL (description="DM_DPUS_TASK_AL", quantity="none")
Long1d	DP_SPARE (description="DP_SPARE [raw]", quantity="none")
Long1d	DM_CC_SPARE4 (description="DM_CC_SPARE4 [raw]", quantity="none")
Double1d	BOL_HEATER_SP (description="BOL_HEATER_SP [eng, A]", quantity="none")
String1d	DM_BR_ERR_NS (description="DM_BR_ERR_NS", quantity="none")
Long1d	DM_PM_DF_IND (description="DM_PM_DF_IND [raw]", quantity="none")
Long1d	DM_DPUR_ERROR (description="DM_DPUR_ERROR [raw]", quantity="none")
Double1d	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")
Long1d	DM_BOL_REC_STAT (description="DM_BOL_REC_STAT [raw]", quantity="none")
String1d	DM_BPE_ERR_NS (description="DM_BPE_ERR_NS", quantity="none")
Long1d	SPS_INTEG_RAMPS (description="SPS_INTEG_RAMPS [raw]", quantity="none")
Long1d	DM_IRS_CNT (description="DM_IRS_CNT [raw]", quantity="none")
Long1d	DM_CHOP_CUR_POS (description="DM_CHOP_CUR_POS [raw]", quantity="none")
Long1d	DM_HKD_SPARE1 (description="DM_HKD_SPARE1 [raw]", quantity="none")
String1d	DM_GC_COMMUT (description="DM_GC_COMMUT", quantity="none")
String1d	DM_FWPH_CUR_POS (description="DM_FWPH_CUR_POS", quantity="none")
String1d	DM_DBC_LINK (description="DM_DBC_LINK", quantity="none")
Long1d	DM_SEQ_POINTER (description="DM_SEQ_POINTER [raw]", quantity="none")
Long1d	DM_BPE_ERROR (description="DM_BPE_ERROR [raw]", quantity="none")
Long1d	SPL_CI (description="SPL_CI [raw]", quantity="none")
Long1d	DM_DECR_CTRL_ST (description="DM_DECR_CTRL_ST [raw]", quantity="none")
Long1d	DP_TC_LOST (description="DP_TC_LOST [raw]", quantity="none")
Double1d	DP_VOL_15P (description="DP_VOL_15P [eng, V]", quantity="none")
Double1d	DP_VOL_15N (description="DP_VOL_15N [eng, V]", quantity="none")

Long1d	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
Double1d	DM_REF_VOLT_0V (description="DM_REF_VOLT_0V [eng, V]", quantity="none")
String1d	DP_COUNTER_DEC (description="DP_COUNTER_DEC", quantity="none")
Double1d	BOL_VSMSH_B_4 (description="BOL_VSMSH_B_4 [eng, V]", quantity="none")
Long1d	DM_B_SPEC_READ (description="DM_B_SPEC_READ [raw]", quantity="none")
Double1d	BOL_VSMSH_B_3 (description="BOL_VSMSH_B_3 [eng, V]", quantity="none")
Double1d	BOL_TEMP_FPU_ST (description="BOL_TEMP_FPU_ST [eng, K]", quantity="none")
Double1d	BOL_VSMSH_B_2 (description="BOL_VSMSH_B_2 [eng, V]", quantity="none")
Double1d	BOL_VSMSH_B_1 (description="BOL_VSMSH_B_1 [eng, V]", quantity="none")
Long1d	DM_MIM_ST (description="DM_MIM_ST [raw]", quantity="none")
Long1d	DP_COM_REJ_DPU (description="DP_COM_REJ_DPU [raw]", quantity="none")
Long1d	DM_FW_PHOT_CTRL (description="DM_FW_PHOT_CTRL [raw]", quantity="none")
Double1d	BOL_VDDPRO_CLR2 (description="BOL_VDDPRO_CLR2 [eng, V]", quantity="none")
Double1d	BOL_VDDPRO_CLR1 (description="BOL_VDDPRO_CLR1 [eng, V]", quantity="none")
Long1d	HD_APID (description="HD_APID [raw]", quantity="none")
Double1d	BOL_I_HEATER_B4 (description="BOL_I_HEATER_B4 [eng, A]", quantity="none")
String1d	DM_CS2C_DOWN (description="DM_CS2C_DOWN", quantity="none")
String1d	DM_CS1C_COMMUT (description="DM_CS1C_COMMUT", quantity="none")
String1d	DP_EV_BOL_I_FPU (description="DP_EV_BOL_I_FPU", quantity="none")
Double1d	BOL_I_HEATER_B2 (description="BOL_I_HEATER_B2 [eng, A]", quantity="none")
Double1d	BOL_I_HEATER_B3 (description="BOL_I_HEATER_B3 [eng, A]", quantity="none")
Double1d	BOL_I_HEATER_B1 (description="BOL_I_HEATER_B1 [eng, A]", quantity="none")
Long1d	DM_DECB_REC_STA (description="DM_DECB_REC_STA [raw]", quantity="none")
Double1d	BOL_TEMP_EV (description="BOL_TEMP_EV [eng, K]", quantity="none")
String1d	DM_HKCO_TASK_WR (description="DM_HKCO_TASK_WR", quantity="none")

Long1d	SPL_VID (description="SPL_VID [raw]", quantity="none")
Double1d	DM_SPU_SWL_TEMP (description="DM_SPU_SWL_TEMP [eng, K]", quantity="none")
Long1d	DP_SPUL_LINK_PE (description="DP_SPUL_LINK_PE [raw]", quantity="none")
String1d	DP_SPS_LINK (description="DP_SPS_LINK", quantity="none")
String1d	DM_CS2C_SYNCHRO (description="DM_CS2C_SYNCHRO", quantity="none")
String1d	DM_FPU_S2_TS_ST (description="DM_FPU_S2_TS_ST", quantity="none")
Long1d	DM_GRAT_CTRL_ST (description="DM_GRAT_CTRL_ST [raw]", quantity="none")
Long1d	DM_HK_CTRL_STAT (description="DM_HK_CTRL_STAT [raw]", quantity="none")
Long1d	DM_DBR_SPARE2 (description="DM_DBR_SPARE2 [raw]", quantity="none")
String1d	DM_CS1C_PID (description="DM_CS1C_PID", quantity="none")
Long1d	DM_CHOP_PID_ACC (description="DM_CHOP_PID_ACC [raw]", quantity="none")
Double1d	DM_SPU_VCC_CUR (description="DM_SPU_VCC_CUR [eng, A]", quantity="none")
Long1d	DM_DECR_CTRL_PA (description="DM_DECR_CTRL_PA [raw]", quantity="none")
Double1d	DM_FW_PHOT_TEMP (description="DM_FW_PHOT_TEMP [eng, K]", quantity="none")
Long1d	SPL_SAMP_CORR (description="SPL_SAMP_CORR [raw]", quantity="none")
String1d	DP_OBCP_MANAGER (description="DP_OBCP_MANAGER", quantity="none")
Double1d	BOL_CKRLH_R_1 (description="BOL_CKRLH_R_1 [eng, V]", quantity="none")
Double1d	BOL_CKRLH_R_2 (description="BOL_CKRLH_R_2 [eng, V]", quantity="none")
String1d	DP_IRQ3_TASK (description="DP_IRQ3_TASK", quantity="none")
Long1d	DM_HKCO_SPARE5 (description="DM_HKCO_SPARE5 [raw]", quantity="none")
String1d	SPS_DMC_LINK (description="SPS_DMC_LINK", quantity="none")
String1d	DP_RED_SCIENCE (description="DP_RED_SCIENCE", quantity="none")
String1d	DM_DRR_TASK_WR (description="DM_DRR_TASK_WR", quantity="none")
Long1d	DM_DPUR_SPARE4 (description="DM_DPUR_SPARE4 [raw]", quantity="none")
Long1d	DP_COM_SPL_NACK (description="DP_COM_SPL_NACK [raw]", quantity="none")
Long1d	DM_CS2C_SPARE1B (description="DM_CS2C_SPARE1B [raw]", quantity="none")

Long1d	SID (description="SID [raw]", quantity="none")
Long1d	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
Long1d	DM_FWPC_SPARE1B (description="DM_FWPC_SPARE1B [raw]", quantity="none")
Long1d	DM_FWPC_SPARE1A (description="DM_FWPC_SPARE1A [raw]", quantity="none")
Double1d	SPL_CPUWORKLOAD (description="SPL_CPUWORKLOAD [eng, %]", quantity="none")
Long1d	DP_GEN_TM_LOST (description="DP_GEN_TM_LOST [raw]", quantity="none")
Double1d	BOL_CKRLL_B_1 (description="BOL_CKRLL_B_1 [eng, V]", quantity="none")
Long1d	DM_LAST_ERR_ID (description="DM_LAST_ERR_ID [raw]", quantity="none")
Double1d	BOL_VDD_R_2 (description="BOL_VDD_R_2 [eng, V]", quantity="none")
String1d	DP_SPUS_LINK (description="DP_SPUS_LINK", quantity="none")
String1d	DM_SW_COPY_OBS (description="DM_SW_COPY_OBS", quantity="none")
Double1d	BOL_VDD_R_1 (description="BOL_VDD_R_1 [eng, V]", quantity="none")
String1d	DP_HK_CHK (description="DP_HK_CHK", quantity="none")
Long1d	DM_GC_LL_SC (description="DM_GC_LL_SC [raw]", quantity="none")
String1d	DM_DRC_ERR_NS (description="DM_DRC_ERR_NS", quantity="none")
Long1d	DM_RPE_SPARE4 (description="DM_RPE_SPARE4 [raw]", quantity="none")
Long1d	DM_DRC_ERROR (description="DM_DRC_ERROR [raw]", quantity="none")
Double1d	DP_WORK_LOAD (description="DP_WORK_LOAD [eng, %]", quantity="none")
Long1d	SPL_OBSID (description="SPL_OBSID [raw]", quantity="none")
String1d	DP_DEC_LINK (description="DP_DEC_LINK", quantity="none")
Long1d	DP_COM_DMC_PACK (description="DP_COM_DMC_PACK [raw]", quantity="none")
String1d	DM_GC_LL_LOCKED (description="DM_GC_LL_LOCKED", quantity="none")
Double1d	BOL_VH_BLIND_B2 (description="BOL_VH_BLIND_B2 [eng, V]", quantity="none")
String1d	DP_EEPROM_PROT (description="DP_EEPROM_PROT", quantity="none")
Double1d	BOL_VH_BLIND_B1 (description="BOL_VH_BLIND_B1 [eng, V]", quantity="none")
Long1d	DM_LAST_ER_BF3 (description="DM_LAST_ER_BF3 [raw]", quantity="none")

String1d	DM_DSIM_B_SIMUL (description="DM_DSIM_B_SIMUL", quantity="none")
Long1d	DM_LAST_ER_BF4 (description="DM_LAST_ER_BF4 [raw]", quantity="none")
Long1d	DM_LAST_ER_BF5 (description="DM_LAST_ER_BF5 [raw]", quantity="none")
Long1d	DM_LAST_ER_BF6 (description="DM_LAST_ER_BF6 [raw]", quantity="none")
Long1d	DM_LAST_ER_BF7 (description="DM_LAST_ER_BF7 [raw]", quantity="none")
Double1d	BOL_VH_BLIND_B4 (description="BOL_VH_BLIND_B4 [eng, V]", quantity="none")
Long1d	DM_LAST_ER_BF8 (description="DM_LAST_ER_BF8 [raw]", quantity="none")
Double1d	BOL_VH_BLIND_B3 (description="BOL_VH_BLIND_B3 [eng, V]", quantity="none")
Long1d	DM_LAST_ER_BF9 (description="DM_LAST_ER_BF9 [raw]", quantity="none")
Double1d	BOL_PWR_DIG_2 (description="BOL_PWR_DIG_2 [eng, V]", quantity="none")
Double1d	BOL_PWR_DIG_1 (description="BOL_PWR_DIG_1 [eng, V]", quantity="none")
Double1d	BOL_PWR_DIG_4 (description="BOL_PWR_DIG_4 [eng, V]", quantity="none")
String1d	DM_SEQ_TASK_AL (description="DM_SEQ_TASK_AL", quantity="none")
Double1d	BOL_PWR_DIG_3 (description="BOL_PWR_DIG_3 [eng, V]", quantity="none")
Double1d	BOL_PWR_DIG_6 (description="BOL_PWR_DIG_6 [eng, V]", quantity="none")
String1d	DM_CS1C_TASK_WR (description="DM_CS1C_TASK_WR", quantity="none")
Double1d	BOL_PWR_DIG_5 (description="BOL_PWR_DIG_5 [eng, V]", quantity="none")
Long1d	DM_FPU_T_SEN_ST (description="DM_FPU_T_SEN_ST [raw]", quantity="none")
Long1d	DM_BOL_STATUS (description="DM_BOL_STATUS [raw]", quantity="none")
String1d	DM_BR_SIM_TIME (description="DM_BR_SIM_TIME", quantity="none")
Long1d	SPS_SUBVERSION (description="SPS_SUBVERSION [raw]", quantity="none")
Long1d	DM_LAST_ER_BF2 (description="DM_LAST_ER_BF2 [raw]", quantity="none")
Double1d	BOL_PWR_DIG_7 (description="BOL_PWR_DIG_7 [eng, V]", quantity="none")
Long1d	DM_SEQ_WAIT_IND (description="DM_SEQ_WAIT_IND [raw]", quantity="none")

Long1d	DM_LAST_ER_BF1 (description="DM_LAST_ER_BF1 [raw]", quantity="none")
Long1d	DM_DET_SIM_STAT (description="DM_DET_SIM_STAT [raw]", quantity="none")
String1d	DM_FPU_FWP_TS_S (description="DM_FPU_FWP_TS_S", quantity="none")
Long1d	DP_1_2_REJECTED (description="DP_1_2_REJECTED [raw]", quantity="none")
String1d	DM_CS2C_POWER (description="DM_CS2C_POWER", quantity="none")
String1d	DM_CS2C_COMMUT (description="DM_CS2C_COMMUT", quantity="none")
String1d	DP_BUFFER_STAT (description="DP_BUFFER_STAT", quantity="none")
String1d	DM_FWSC_POSC_A (description="DM_FWSC_POSC_A", quantity="none")
String1d	DP_COUNTER_SPEC (description="DP_COUNTER_SPEC", quantity="none")
String1d	DM_FWSC_POSC_B (description="DM_FWSC_POSC_B", quantity="none")
String1d	SPS_SATUR_FLAG (description="SPS_SATUR_FLAG", quantity="none")
Long1d	DM_BOL_READ_CNT (description="DM_BOL_READ_CNT [raw]", quantity="none")
Long1d	DM_DECB_REC_PAC (description="DM_DECB_REC_PAC [raw]", quantity="none")
Double1d	BOL_GND_BU_B_3 (description="BOL_GND_BU_B_3 [eng, V]", quantity="none")
Double1d	BOL_GND_BU_B_4 (description="BOL_GND_BU_B_4 [eng, V]", quantity="none")
Double1d	BOL_GND_BU_B_1 (description="BOL_GND_BU_B_1 [eng, V]", quantity="none")
Double1d	BOL_GND_BU_B_2 (description="BOL_GND_BU_B_2 [eng, V]", quantity="none")
Long1d	DP_HK_LOST (description="DP_HK_LOST [raw]", quantity="none")
String1d	DP_CONTROLLER (description="DP_CONTROLLER", quantity="none")
String1d	DP_STABLE_SPL (description="DP_STABLE_SPL", quantity="none")
String1d	DM_HKD_TASK_AL (description="DM_HKD_TASK_AL", quantity="none")
String1d	DM_BPE_TASK_AL (description="DM_BPE_TASK_AL", quantity="none")
String1d	DM_DSIM_ERR_NS (description="DM_DSIM_ERR_NS", quantity="none")
Long1d	SPL_PAR_MONITOR (description="SPL_PAR_MONITOR [raw]", quantity="none")

String1d	DM_FWSC_POWER (description="DM_FWSC_POWER", quantity="none")
String1d	DM_SW_ALIVE (description="DM_SW_ALIVE", quantity="none")
String1d	DM_CC_POWER (description="DM_CC_POWER", quantity="none")
Double1d	BOL_CKTRIL_R_R2 (description="BOL_CKTRIL_R_R2 [eng, V]", quantity="none")
String1d	DM_DBR_LINK (description="DM_DBR_LINK", quantity="none")
Double1d	BOL_CKTRIL_R_R1 (description="BOL_CKTRIL_R_R1 [eng, V]", quantity="none")
Long1d	DP_SPUS_LINK_PE (description="DP_SPUS_LINK_PE [raw]", quantity="none")
String1d	DP_STABLE_SPS (description="DP_STABLE_SPS", quantity="none")
Long1d	DM_FWSC_SPARE4 (description="DM_FWSC_SPARE4 [raw]", quantity="none")
Long1d	DM_DRC_SPARE3 (description="DM_DRC_SPARE3 [raw]", quantity="none")
Long1d	DM_GC_ERROR (description="DM_GC_ERROR [raw]", quantity="none")
String1d	DM_DPUR_TASK_AL (description="DM_DPUR_TASK_AL", quantity="none")
Double1d	BOL_VRL_R_2 (description="BOL_VRL_R_2 [eng, V]", quantity="none")
Double1d	BOL_VRL_R_1 (description="BOL_VRL_R_1 [eng, V]", quantity="none")
String1d	DM_BC_TASK_WR (description="DM_BC_TASK_WR", quantity="none")
String1d	DP_SPL_LINK (description="DP_SPL_LINK", quantity="none")
String1d	DM_FWPC_SEARCHA (description="DM_FWPC_SEARCHA", quantity="none")
String1d	DM_FWPC_SEARCHB (description="DM_FWPC_SEARCHB", quantity="none")
Long1d	DM_DECR_REC_STA (description="DM_DECR_REC_STA [raw]", quantity="none")
String1d	DM_GC_ERR_NS (description="DM_GC_ERR_NS", quantity="none")
String1d	DM_DBR_SIM_TIME (description="DM_DBR_SIM_TIME", quantity="none")
Double1d	BOL_VDDPRO_BUB1 (description="BOL_VDDPRO_BUB1 [eng, V]", quantity="none")
Double1d	BOL_VDDPRO_BUB2 (description="BOL_VDDPRO_BUB2 [eng, V]", quantity="none")
Long1d	DP_COM_SPL_PACK (description="DP_COM_SPL_PACK [raw]", quantity="none")
Double1d	BOL_VDDPRO_BUB3 (description="BOL_VDDPRO_BUB3 [eng, V]", quantity="none")

Long1d	DM_DBC_ERROR (description="DM_DBC_ERROR [raw]", quantity="none")
Double1d	BOL_VDDPRO_BUB4 (description="BOL_VDDPRO_BUB4 [eng, V]", quantity="none")
String1d	DM_HKCO_ERR_NS (description="DM_HKCO_ERR_NS", quantity="none")
String1d	DM_SEQ_OPTIONS (description="DM_SEQ_OPTIONS", quantity="none")
Double1d	DM_DSP_TEMP (description="DM_DSP_TEMP [eng, K]", quantity="none")
Long1d	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
Double1d	BOL_TEMP_EV_SWT (description="BOL_TEMP_EV_SWT [eng, K]", quantity="none")
Double1d	DM_SPU_PS_TEMP (description="DM_SPU_PS_TEMP [eng, K]", quantity="none")
Long1d	DM_CS1C_SPARE1B (description="DM_CS1C_SPARE1B [raw]", quantity="none")
Double1d	BOL_HEAT_SP_SWT (description="BOL_HEAT_SP_SWT [eng, A]", quantity="none")
Long1d	DM_BR_SPARE2 (description="DM_BR_SPARE2 [raw]", quantity="none")
Long1d	DM_BOL_CTRL_PAC (description="DM_BOL_CTRL_PAC [raw]", quantity="none")
Long1d	SPS_MEM_CNTS (description="SPS_MEM_CNTS [raw]", quantity="none")
String1d	SPL_DMC_LINK (description="SPL_DMC_LINK", quantity="none")
String1d	DM_RPE_TASK_AL (description="DM_RPE_TASK_AL", quantity="none")
Double1d	BOL_VDECXH_R_1 (description="BOL_VDECXH_R_1 [eng, V]", quantity="none")
Long1d	DM_CUSTOM_ENT_2 (description="DM_CUSTOM_ENT_2 [raw]", quantity="none")
String1d	DM_CC_UP (description="DM_CC_UP", quantity="none")
String1d	DM_GC_LL_UNLOCK (description="DM_GC_LL_UNLOCK", quantity="none")
Double1d	BOL_CKRLL_R_2 (description="BOL_CKRLL_R_2 [eng, V]", quantity="none")
Long1d	DM_CUSTOM_ENT_3 (description="DM_CUSTOM_ENT_3 [raw]", quantity="none")
Long1d	DM_RPE_ERROR (description="DM_RPE_ERROR [raw]", quantity="none")
Double1d	BOL_PWR_ANA_P_6 (description="BOL_PWR_ANA_P_6 [eng, V]", quantity="none")
Long1d	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
String1d	DP_SPUL_HK (description="DP_SPUL_HK", quantity="none")

Double1d	BOL_PWR_ANA_P_7 (description="BOL_PWR_ANA_P_7 [eng, V]", quantity="none")
Double1d	BOL_VDECXH_R_2 (description="BOL_VDECXH_R_2 [eng, V]", quantity="none")
Long1d	DM_CUSTOM_ENT_1 (description="DM_CUSTOM_ENT_1 [raw]", quantity="none")
String1d	DM_BR_TASK_WR (description="DM_BR_TASK_WR", quantity="none")
Double1d	BOL_PWR_ANA_P_4 (description="BOL_PWR_ANA_P_4 [eng, V]", quantity="none")
Long1d	DM_CUSTOM_ENT_6 (description="DM_CUSTOM_ENT_6 [raw]", quantity="none")
Double1d	BOL_PWR_ANA_P_5 (description="BOL_PWR_ANA_P_5 [eng, V]", quantity="none")
Long1d	DM_CUSTOM_ENT_7 (description="DM_CUSTOM_ENT_7 [raw]", quantity="none")
Long1d	DM_CUSTOM_ENT_4 (description="DM_CUSTOM_ENT_4 [raw]", quantity="none")
Double1d	BOL_PWR_ANA_P_2 (description="BOL_PWR_ANA_P_2 [eng, V]", quantity="none")
String1d	DM_GC_UP (description="DM_GC_UP", quantity="none")
Long1d	DM_CUSTOM_ENT_5 (description="DM_CUSTOM_ENT_5 [raw]", quantity="none")
Double1d	BOL_PWR_ANA_P_3 (description="BOL_PWR_ANA_P_3 [eng, V]", quantity="none")
Double1d	BOL_VGL_BU_B_3 (description="BOL_VGL_BU_B_3 [eng, V]", quantity="none")
Double1d	BOL_PWR_ANA_P_1 (description="BOL_PWR_ANA_P_1 [eng, V]", quantity="none")
Double1d	BOL_VGL_BU_B_4 (description="BOL_VGL_BU_B_4 [eng, V]", quantity="none")
String1d	DM_CS2C_ERR_NS (description="DM_CS2C_ERR_NS", quantity="none")
Double1d	BOL_VGL_BU_B_1 (description="BOL_VGL_BU_B_1 [eng, V]", quantity="none")
Long1d	DM_CUSTOM_ENT_8 (description="DM_CUSTOM_ENT_8 [raw]", quantity="none")
Long1d	DM_OBSID (description="DM_OBSID [raw]", quantity="none")
Long1d	DM_CUSTOM_ENT_9 (description="DM_CUSTOM_ENT_9 [raw]", quantity="none")
Double1d	BOL_VGL_BU_B_2 (description="BOL_VGL_BU_B_2 [eng, V]", quantity="none")
Double1d	BOL_VH_B_1 (description="BOL_VH_B_1 [eng, V]", quantity="none")
String1d	DP_EV_BOL_T_FPU (description="DP_EV_BOL_T_FPU", quantity="none")
String1d	DP_OBCP_RUN (description="DP_OBCP_RUN", quantity="none")

Double1d	DM_CHOP_OUTPUT (description="DM_CHOP_OUTPUT [eng, mA]", quantity="none")
Long1d	DM_DECB_CTRL_PA (description="DM_DECB_CTRL_PA [raw]", quantity="none")
Long1d	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
Long1d	DP_DEC_LINK_PE (description="DP_DEC_LINK_PE [raw]", quantity="none")
Long1d	SPS_MAINT_RAMPS (description="SPS_MAINT_RAMPS [raw]", quantity="none")
Double1d	BOL_CKRLL_R_1 (description="BOL_CKRLL_R_1 [eng, V]", quantity="none")
String1d	DM_GC_DOWN (description="DM_GC_DOWN", quantity="none")
Double1d	BOL_VH_B_4 (description="BOL_VH_B_4 [eng, V]", quantity="none")
String1d	SPL_DMC_ERROR (description="SPL_DMC_ERROR", quantity="none")
Double1d	BOL_VH_B_2 (description="BOL_VH_B_2 [eng, V]", quantity="none")
Double1d	BOL_VH_B_3 (description="BOL_VH_B_3 [eng, V]", quantity="none")
Long1d	DM_SW_ERROR (description="DM_SW_ERROR [raw]", quantity="none")
Double1d	BOL_VL_R_2 (description="BOL_VL_R_2 [eng, V]", quantity="none")
Double1d	BOL_VL_R_1 (description="BOL_VL_R_1 [eng, V]", quantity="none")
Double1d	BOL_I_VSS_BU_B2 (description="BOL_I_VSS_BU_B2 [eng, A]", quantity="none")
Double1d	BOL_I_VSS_BU_B1 (description="BOL_I_VSS_BU_B1 [eng, A]", quantity="none")
Double1d	BOL_I_VSS_BU_B4 (description="BOL_I_VSS_BU_B4 [eng, A]", quantity="none")
Double1d	BOL_I_VSS_BU_B3 (description="BOL_I_VSS_BU_B3 [eng, A]", quantity="none")
String1d	DM_FPU_GR_TS_ST (description="DM_FPU_GR_TS_ST", quantity="none")
Double1d	DM_PSC_V4 (description="DM_PSC_V4 [eng, A]", quantity="none")
Double1d	DM_PSC_V3 (description="DM_PSC_V3 [eng, mA]", quantity="none")
Double1d	DM_PSC_V2 (description="DM_PSC_V2 [eng, mA]", quantity="none")
String1d	DM_CC_TASK_WR (description="DM_CC_TASK_WR", quantity="none")
Double1d	DM_PSC_V1 (description="DM_PSC_V1 [eng, A]", quantity="none")

Long1d	DM_DECR_REC_PAC (description="DM_DECR_REC_PAC [raw]", quantity="none")
Double1d	BOL_VGL_B_3 (description="BOL_VGL_B_3 [eng, V]", quantity="none")
String1d	DM_BPE_TASK_WR (description="DM_BPE_TASK_WR", quantity="none")
Long1d	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
Double1d	BOL_VGL_B_4 (description="BOL_VGL_B_4 [eng, V]", quantity="none")
Double1d	BOL_VGL_B_1 (description="BOL_VGL_B_1 [eng, V]", quantity="none")
Double1d	BOL_VGL_B_2 (description="BOL_VGL_B_2 [eng, V]", quantity="none")
Double1d	BOL_VH_R_1 (description="BOL_VH_R_1 [eng, V]", quantity="none")
Long1d	DM_CHOP_CTRL_ST (description="DM_CHOP_CTRL_ST [raw]", quantity="none")
String1d	DP_SPUL_LINK (description="DP_SPUL_LINK", quantity="none")
Double1d	BOL_VH_R_2 (description="BOL_VH_R_2 [eng, V]", quantity="none")
Long1d	DM_HK_DIAG_STAT (description="DM_HK_DIAG_STAT [raw]", quantity="none")
String1d	DP_1355_HANDLER (description="DP_1355_HANDLER", quantity="none")
String1d	DM_FPU_CS_TS_ST (description="DM_FPU_CS_TS_ST", quantity="none")
Long1d	DM_DM_DF_IND (description="DM_DM_DF_IND [raw]", quantity="none")
Double1d	DM_CS1_TARGET (description="DM_CS1_TARGET [eng, Ohm]", quantity="none")
Long1d	DM_FWPC_ERROR (description="DM_FWPC_ERROR [raw]", quantity="none")
Double1d	BOL_VGL_BU_R_2 (description="BOL_VGL_BU_R_2 [eng, V]", quantity="none")
Double1d	BOL_VGL_BU_R_1 (description="BOL_VGL_BU_R_1 [eng, V]", quantity="none")
Double1d	BOL_CKRLH_B_1 (description="BOL_CKRLH_B_1 [eng, V]", quantity="none")
Double1d	BOL_CKRLH_B_2 (description="BOL_CKRLH_B_2 [eng, V]", quantity="none")
Double1d	BOL_TEMP_FPU1 (description="BOL_TEMP_FPU1 [eng, K]", quantity="none")
Double1d	BOL_CKRLH_B_3 (description="BOL_CKRLH_B_3 [eng, V]", quantity="none")
Double1d	BOL_TEMP_FPU2 (description="BOL_TEMP_FPU2 [eng, K]", quantity="none")

Double1d	BOL_CKRLH_B_4 (description="BOL_CKRLH_B_4 [eng, V]", quantity="none")
Double1d	BOL_TEMP_DAQ (description="BOL_TEMP_DAQ [eng, degC]", quantity="none")
Long1d	DM_BPE_SPARE4 (description="DM_BPE_SPARE4 [raw]", quantity="none")
Long1d	SPL_INTEG_RAMPS (description="SPL_INTEG_RAMPS [raw]", quantity="none")
Double1d	BOL_VSMSL_B_3 (description="BOL_VSMSL_B_3 [eng, V]", quantity="none")
Double1d	BOL_VSMSL_B_4 (description="BOL_VSMSL_B_4 [eng, V]", quantity="none")
Long1d	DM_BC_ERROR (description="DM_BC_ERROR [raw]", quantity="none")
String1d	DM_DBR_TASK_WR (description="DM_DBR_TASK_WR", quantity="none")
Double1d	DM_FPU_T1_TEMP (description="DM_FPU_T1_TEMP [eng, K]", quantity="none")
String1d	DM_DRR_ERR_NS (description="DM_DRR_ERR_NS", quantity="none")
String1d	DM_BR_TASK_AL (description="DM_BR_TASK_AL", quantity="none")
Double1d	BOL_VDECXL_R_1 (description="BOL_VDECXL_R_1 [eng, V]", quantity="none")
Double1d	BOL_VDECXL_R_2 (description="BOL_VDECXL_R_2 [eng, V]", quantity="none")
Long1d	DM_CS2C_ERROR (description="DM_CS2C_ERROR [raw]", quantity="none")
Long1d	DM_CHOP_MAX_DIT (description="DM_CHOP_MAX_DIT [raw]", quantity="none")
Long1d	DM_TIME_2 (description="DM_TIME_2 [raw]", quantity="none")
Double1d	BOL_HEATER_FPU (description="BOL_HEATER_FPU [eng, A]", quantity="none")
String1d	DM_SEQ_RUNNING (description="DM_SEQ_RUNNING", quantity="none")
Long1d	DM_TIME_1 (description="DM_TIME_1 [raw]", quantity="none")
Double1d	DM_SPU_PSU_P15V (description="DM_SPU_PSU_P15V [eng, V]", quantity="none")
Long1d	DM_BR_ERROR (description="DM_BR_ERROR [raw]", quantity="none")
Double1d	BOL_GND_BU_R_2 (description="BOL_GND_BU_R_2 [eng, V]", quantity="none")
Double1d	BOL_GND_BU_R_1 (description="BOL_GND_BU_R_1 [eng, V]", quantity="none")
String1d	DP_EV_BOL_I_RO (description="DP_EV_BOL_I_RO", quantity="none")
String1d	DP_SPUS_HK (description="DP_SPUS_HK", quantity="none")

Double1d	DM_CPU_LOAD (description="DM_CPU_LOAD [eng, %]", quantity="none")
String1d	DM_RPE_ERR_NS (description="DM_RPE_ERR_NS", quantity="none")
Long1d	DP_STATUS (description="DP_STATUS [raw]", quantity="none")
Double1d	BOL_HEATER_B_3 (description="BOL_HEATER_B_3 [eng, V]", quantity="none")
Long1d	DM_CS1C_SPARE1 (description="DM_CS1C_SPARE1 [raw]", quantity="none")
Double1d	BOL_HEATER_B_4 (description="BOL_HEATER_B_4 [eng, V]", quantity="none")
Long1d	DM_CS1C_SPARE4 (description="DM_CS1C_SPARE4 [raw]", quantity="none")
Double1d	BOL_HEATER_B_1 (description="BOL_HEATER_B_1 [eng, V]", quantity="none")
Double1d	BOL_HEATER_B_2 (description="BOL_HEATER_B_2 [eng, V]", quantity="none")
String1d	DM_CS2C_LOOP (description="DM_CS2C_LOOP", quantity="none")
String1d	DM_DBR_ERR_NS (description="DM_DBR_ERR_NS", quantity="none")
String1d	DM_DPUS_TASK_WR (description="DM_DPUS_TASK_WR", quantity="none")
Long1d	DM_BBID (description="DM_BBID [raw]", quantity="none")
Long1d	DM_DM_SF_IND (description="DM_DM_SF_IND [raw]", quantity="none")
String1d	DM_BR_LINK (description="DM_BR_LINK", quantity="none")
String1d	DM_SEQ_ERR_NS (description="DM_SEQ_ERR_NS", quantity="none")
String1d	DM_CS1C_UP (description="DM_CS1C_UP", quantity="none")
String1d	DM_FWPC_TASK_WR (description="DM_FWPC_TASK_WR", quantity="none")
Double1d	BOL_VSMSL_B_2 (description="BOL_VSMSL_B_2 [eng, V]", quantity="none")
Double1d	BOL_VSMSL_B_1 (description="BOL_VSMSL_B_1 [eng, V]", quantity="none")
String1d	DM_GC_LL_MOVING (description="DM_GC_LL_MOVING", quantity="none")
Long1d	DM_DPU_SEND_PAC (description="DM_DPU_SEND_PAC [raw]", quantity="none")
Double1d	BOL_VDDPRO_CLB4 (description="BOL_VDDPRO_CLB4 [eng, V]", quantity="none")
Double1d	BOL_VDDPRO_CLB3 (description="BOL_VDDPRO_CLB3 [eng, V]", quantity="none")
String1d	DP_COUNTER_SPS (description="DP_COUNTER_SPS", quantity="none")
String1d	DP_BURST_MODE (description="DP_BURST_MODE", quantity="none")

Double1d	BOL_VDDPRO_CLB2 (description="BOL_VDDPRO_CLB2 [eng, V]", quantity="none")
Long1d	DP_DEC_LINK_DE (description="DP_DEC_LINK_DE [raw]", quantity="none")
Double1d	BOL_VDDPRO_CLB1 (description="BOL_VDDPRO_CLB1 [eng, V]", quantity="none")
String1d	DM_GC_DEGRADE (description="DM_GC_DEGRADE", quantity="none")
String1d	DP_1355_LINK (description="DP_1355_LINK", quantity="none")
Double1d	BOL_VINJ_B_1 (description="BOL_VINJ_B_1 [eng, V]", quantity="none")
String1d	DM_SW_ERR (description="DM_SW_ERR", quantity="none")
Long1d	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")
Double1d	BOL_VINJ_B_2 (description="BOL_VINJ_B_2 [eng, V]", quantity="none")
Double1d	BOL_VINJ_B_3 (description="BOL_VINJ_B_3 [eng, V]", quantity="none")
Double1d	BOL_VINJ_B_4 (description="BOL_VINJ_B_4 [eng, V]", quantity="none")
String1d	DP_COUNTER_SPL (description="DP_COUNTER_SPL", quantity="none")
Long1d	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
Long1d	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")
Long1d	SPS_SAMP_CORR (description="SPS_SAMP_CORR [raw]", quantity="none")
Long1d	SPL_MAINT_RAMPS (description="SPL_MAINT_RAMPS [raw]", quantity="none")
Long1d	DP_SPUL_LINK_DE (description="DP_SPUL_LINK_DE [raw]", quantity="none")
String1d	DP_EVENT_SPU (description="DP_EVENT_SPU", quantity="none")
String1d	DM_HKD_TASK_WR (description="DM_HKD_TASK_WR", quantity="none")
Double1d	BOL_TEMP_B_2 (description="BOL_TEMP_B_2 [eng, degC]", quantity="none")
String1d	DM_BR_SENDING (description="DM_BR_SENDING", quantity="none")
Double1d	BOL_TEMP_B_3 (description="BOL_TEMP_B_3 [eng, degC]", quantity="none")
Double1d	BOL_VDD_B_1 (description="BOL_VDD_B_1 [eng, V]", quantity="none")
Double1d	BOL_TEMP_B_1 (description="BOL_TEMP_B_1 [eng, degC]", quantity="none")
Double1d	BOL_VDD_B_3 (description="BOL_VDD_B_3 [eng, V]", quantity="none")
Double1d	BOL_VDD_B_2 (description="BOL_VDD_B_2 [eng, V]", quantity="none")

Long1d	DM_PLL_RES_HI (description="DM_PLL_RES_HI [raw]", quantity="none")
Long1d	DM_FW_SPEC_CTRL (description="DM_FW_SPEC_CTRL [raw]", quantity="none")
Double1d	BOL_VDD_B_4 (description="BOL_VDD_B_4 [eng, V]", quantity="none")
Long1d	DM_SEQ_LOOP_ID3 (description="DM_SEQ_LOOP_ID3 [raw]", quantity="none")
Double1d	BOL_CKRLL_B_2 (description="BOL_CKRLL_B_2 [eng, V]", quantity="none")
Long1d	DM_SEQ_LOOP_ID2 (description="DM_SEQ_LOOP_ID2 [raw]", quantity="none")
Double1d	BOL_CKRLL_B_3 (description="BOL_CKRLL_B_3 [eng, V]", quantity="none")
Long1d	SPS_REAL (description="SPS_REAL [raw]", quantity="none")
Long1d	DM_SEQ_LOOP_ID1 (description="DM_SEQ_LOOP_ID1 [raw]", quantity="none")
Double1d	BOL_CKRLL_B_4 (description="BOL_CKRLL_B_4 [eng, V]", quantity="none")
Long1d	DM_SEQ_LOOP_ID0 (description="DM_SEQ_LOOP_ID0 [raw]", quantity="none")
String1d	DM_FWSC_POS_B (description="DM_FWSC_POS_B", quantity="none")
String1d	DM_FWSC_POS_A (description="DM_FWSC_POS_A", quantity="none")
String1d	DP_BLUE_SCIENCE (description="DP_BLUE_SCIENCE", quantity="none")
Long1d	DM_R_SPEC_READ (description="DM_R_SPEC_READ [raw]", quantity="none")
Long1d	SPS_VID (description="SPS_VID [raw]", quantity="none")
Long1d	DM_SEQ_LOOP_ID4 (description="DM_SEQ_LOOP_ID4 [raw]", quantity="none")
Long1d	DM_BC_SPARE4 (description="DM_BC_SPARE4 [raw]", quantity="none")
Long1d	DM_HKCO_ERROR (description="DM_HKCO_ERROR [raw]", quantity="none")
Double1d	BOL_VDECXL_B_2 (description="BOL_VDECXL_B_2 [eng, V]", quantity="none")
String1d	DM_DRR_SENDING (description="DM_DRR_SENDING", quantity="none")
Double1d	BOL_VDECXL_B_3 (description="BOL_VDECXL_B_3 [eng, V]", quantity="none")
Long1d	DM_DRR_SPARE2 (description="DM_DRR_SPARE2 [raw]", quantity="none")
Double1d	BOL_VDECXL_B_1 (description="BOL_VDECXL_B_1 [eng, V]", quantity="none")
Double1d	SPS_CPUWORKLOAD (description="SPS_CPUWORKLOAD [eng, %]", quantity="none")

Long1d	SPL_REAL (description="SPL_REAL [raw]", quantity="none")
String1d	DP_WHICH_OBCP (description="DP_WHICH_OBCP", quantity="none")
String1d	DP_TEST_MODE (description="DP_TEST_MODE", quantity="none")
Long1d	SPS_CI (description="SPS_CI [raw]", quantity="none")
Double1d	BOL_VDECXL_B_4 (description="BOL_VDECXL_B_4 [eng, V]", quantity="none")
Long1d	DP_SW_VERS_ID (description="DP_SW_VERS_ID [raw]", quantity="none")
Long1d	DM_CHOP_TARGET (description="DM_CHOP_TARGET [raw]", quantity="none")
String1d	DM_FWPC_ERR_NS (description="DM_FWPC_ERR_NS", quantity="none")
Long1d	DM_CUSTOM_ENT10 (description="DM_CUSTOM_ENT10 [raw]", quantity="none")
String1d	DM_GC_LS (description="DM_GC_LS", quantity="none")
Double1d	BOL_TEMP_SP (description="BOL_TEMP_SP [eng, K]", quantity="none")
Double1d	BOL_VINJ_R_2 (description="BOL_VINJ_R_2 [eng, V]", quantity="none")
Long1d	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
Double1d	DM_CS2_OUTPUT (description="DM_CS2_OUTPUT [eng, V]", quantity="none")
Double1d	BOL_VINJ_R_1 (description="BOL_VINJ_R_1 [eng, V]", quantity="none")
Long1d	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")
Double1d	BOL_HEATER_R_1 (description="BOL_HEATER_R_1 [eng, V]", quantity="none")
Double1d	DM_CS1_OUTPUT (description="DM_CS1_OUTPUT [eng, V]", quantity="none")
Double1d	BOL_HEATER_R_2 (description="BOL_HEATER_R_2 [eng, V]", quantity="none")
Double1d	BOL_PWR_ANA_N_6 (description="BOL_PWR_ANA_N_6 [eng, V]", quantity="none")
Double1d	BOL_PWR_ANA_N_7 (description="BOL_PWR_ANA_N_7 [eng, V]", quantity="none")
Double1d	BOL_PWR_ANA_N_4 (description="BOL_PWR_ANA_N_4 [eng, V]", quantity="none")
Double1d	BOL_VL_B_1 (description="BOL_VL_B_1 [eng, V]", quantity="none")
Double1d	BOL_PWR_ANA_N_5 (description="BOL_PWR_ANA_N_5 [eng, V]", quantity="none")
String1d	DM_CS2C_UP (description="DM_CS2C_UP", quantity="none")
Double1d	BOL_PWR_ANA_N_2 (description="BOL_PWR_ANA_N_2 [eng, V]", quantity="none")

Double1d	BOL_VL_B_3 (description="BOL_VL_B_3 [eng, V]", quantity="none")
Double1d	BOL_VL_B_2 (description="BOL_VL_B_2 [eng, V]", quantity="none")
Double1d	BOL_PWR_ANA_N_3 (description="BOL_PWR_ANA_N_3 [eng, V]", quantity="none")
Double1d	BOL_PWR_ANA_N_1 (description="BOL_PWR_ANA_N_1 [eng, V]", quantity="none")
Double1d	BOL_VL_B_4 (description="BOL_VL_B_4 [eng, V]", quantity="none")
Double1d	BOL_VRL_B_4 (description="BOL_VRL_B_4 [eng, V]", quantity="none")
Double1d	BOL_VRL_B_3 (description="BOL_VRL_B_3 [eng, V]", quantity="none")
String1d	DM_FWSC_SEARCHB (description="DM_FWSC_SEARCHB", quantity="none")
Long1d	DM_DPU_REC_STAT (description="DM_DPU_REC_STAT [raw]", quantity="none")
Double1d	BOL_VRL_B_2 (description="BOL_VRL_B_2 [eng, V]", quantity="none")
String1d	DM_FWSC_SEARCHA (description="DM_FWSC_SEARCHA", quantity="none")
Long1d	DM_VID (description="DM_VID [raw]", quantity="none")
Double1d	BOL_VRL_B_1 (description="BOL_VRL_B_1 [eng, V]", quantity="none")
Double1d	BOL_TEMP_SP_SWT (description="BOL_TEMP_SP_SWT [eng, K]", quantity="none")
String1d	DP_HK_MONITOR (description="DP_HK_MONITOR", quantity="none")
String1d	DM_CS1C_LOOP (description="DM_CS1C_LOOP", quantity="none")
Double1d	BOL_TEMP_TS (description="BOL_TEMP_TS [eng, K]", quantity="none")
Long1d	DM_SW_SPARE5 (description="DM_SW_SPARE5 [raw]", quantity="none")
Double1d	DM_CHOPPER_TEMP (description="DM_CHOPPER_TEMP [eng, K]", quantity="none")
String1d	DM_RPE_TASK_WR (description="DM_RPE_TASK_WR", quantity="none")
String1d	DP_EVENT_DPU (description="DP_EVENT_DPU", quantity="none")
Long1d	DM_DRR_ERROR (description="DM_DRR_ERROR [raw]", quantity="none")
Long1d	SPL_RCX (description="SPL_RCX [raw]", quantity="none")
String1d	DM_DSIM_TASK_WR (description="DM_DSIM_TASK_WR", quantity="none")
Long1d	DM_BLUE_ENC_PAC (description="DM_BLUE_ENC_PAC [raw]", quantity="none")

9.1.6. HPGENHK: General Housekeeping

product (type="HPGENHK", description="HPGENHKS")	
Metadata	
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	formatVersion (description="Format Version of the Products")
StringParameter	fileName (description="null")
StringParameter	missionConfiguration (description="Mission Configuration")
LongParameter	obsid (description="Observation ID")
LongParameter	obsType (description="null")
LongParameter	obsCount (description="OBSID")
table dataset	*(description="Generated from PacketSequence $Revision: 1.4 $")*
Metadata	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
Long1d	Time (description="Time [microseconds]", quantity="microseconds [1.0E-6 s]")
Long1d	DP_1_8_REJECTED (description="DP_1_8_REJECTED [raw]", quantity="none")
Long1d	SPL_PIX (description="SPL_PIX [raw]", quantity="none")
Long1d	SPL_VID (description="SPL_VID [raw]", quantity="none")
Double1d	DM_SPU_SWL_TEMP (description="DM_SPU_SWL_TEMP [eng, K]", quantity="none")
Long1d	DP_SPUL_LINK_PE (description="DP_SPUL_LINK_PE [raw]", quantity="none")
String1d	DP_SPS_LINK (description="DP_SPS_LINK", quantity="none")
String1d	DM_FPU_S2_TS_ST (description="DM_FPU_S2_TS_ST", quantity="none")
Long1d	DM_HK_CTRL_STAT (description="DM_HK_CTRL_STAT [raw]", quantity="none")
Long1d	DM_DBR_SPARE2 (description="DM_DBR_SPARE2 [raw]", quantity="none")
String1d	DP_DMC_CMD (description="DP_DMC_CMD", quantity="none")
String1d	DM_FPU_CH_TS_ST (description="DM_FPU_CH_TS_ST", quantity="none")
Double1d	

	DM_SPU_VCC_CUR (description="DM_SPU_VCC_CUR [eng, A]", quantity="none")
Long1d	DM_DECR_CTRL_PA (description="DM_DECR_CTRL_PA [raw]", quantity="none")
Double1d	DM_FW_PHOT_TEMP (description="DM_FW_PHOT_TEMP [eng, K]", quantity="none")
String1d	DP_OBCP_MANAGER (description="DP_OBCP_MANAGER", quantity="none")
Long1d	DM_PM_SF_IND (description="DM_PM_SF_IND [raw]", quantity="none")
String1d	DM_HKCO_TASK_AL (description="DM_HKCO_TASK_AL", quantity="none")
String1d	DP_IRQ3_TASK (description="DP_IRQ3_TASK", quantity="none")
Long1d	DM_HKCO_SPARE5 (description="DM_HKCO_SPARE5 [raw]", quantity="none")
Double1d	BOL_I_HEATER_1R (description="BOL_I_HEATER_1R [eng, A]", quantity="none")
Double1d	BOL_TEMP_PSU_1 (description="BOL_TEMP_PSU_1 [eng, degC]", quantity="none")
String1d	SPS_DMC_LINK (description="SPS_DMC_LINK", quantity="none")
Double1d	BOL_TEMP_PSU_2 (description="BOL_TEMP_PSU_2 [eng, degC]", quantity="none")
String1d	DM_BPE_LINK (description="DM_BPE_LINK", quantity="none")
String1d	DP_RED_SCIENCE (description="DP_RED_SCIENCE", quantity="none")
String1d	DM_DRR_TASK_WR (description="DM_DRR_TASK_WR", quantity="none")
Long1d	DM_DPUR_SPARE4 (description="DM_DPUR_SPARE4 [raw]", quantity="none")
String1d	DM_FPU_FWS_TS_S (description="DM_FPU_FWS_TS_S", quantity="none")
Double1d	BOL_HEAT_EV_SWT (description="BOL_HEAT_EV_SWT [eng, A]", quantity="none")
Long1d	DP_COM_SPL_NACK (description="DP_COM_SPL_NACK [raw]", quantity="none")
String1d	DM_SEQ_IDLE (description="DM_SEQ_IDLE", quantity="none")
Long1d	SID (description="SID [raw]", quantity="none")
String1d	DM_DRC_TASK_AL (description="DM_DRC_TASK_AL", quantity="none")
Long1d	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
String1d	DM_HKD_ERR_NS (description="DM_HKD_ERR_NS", quantity="none")
Long1d	DM_DPU_SEN_STAT (description="DM_DPU_SEN_STAT [raw]", quantity="none")
Long1d	DM_BOL_CTRL_STA (description="DM_BOL_CTRL_STA [raw]", quantity="none")

Double1d	SPL_CPUWORKLOAD (description="SPL_CPUWORKLOAD [eng, %]", quantity="none")
Double1d	BOL_TEMP_R_1 (description="BOL_TEMP_R_1 [eng, degC]", quantity="none")
Double1d	BOL_TEMP_R_2 (description="BOL_TEMP_R_2 [eng, degC]", quantity="none")
Double1d	BOL_TEMP_R_3 (description="BOL_TEMP_R_3 [eng, degC]", quantity="none")
Double1d	BOL_TEMP_R_4 (description="BOL_TEMP_R_4 [eng, degC]", quantity="none")
Double1d	BOL_I_HEATER_2R (description="BOL_I_HEATER_2R [eng, A]", quantity="none")
Double1d	BOL_TEMP_R_5 (description="BOL_TEMP_R_5 [eng, degC]", quantity="none")
String1d	DP_DMC_HK (description="DP_DMC_HK", quantity="none")
Long1d	DP_GEN_TM_LOST (description="DP_GEN_TM_LOST [raw]", quantity="none")
Long1d	DM_LAST_ERR_ID (description="DM_LAST_ERR_ID [raw]", quantity="none")
String1d	DP_SPUS_LINK (description="DP_SPUS_LINK", quantity="none")
Long1d	DM_SW_GLOBAL_ST (description="DM_SW_GLOBAL_ST [raw]", quantity="none")
Long1d	DM_BOL_REC_PAC (description="DM_BOL_REC_PAC [raw]", quantity="none")
String1d	DM_SW_COPY_OBS (description="DM_SW_COPY_OBS", quantity="none")
String1d	DP_HK_CHK (description="DP_HK_CHK", quantity="none")
Long1d	DM_LAST_ER_BF16 (description="DM_LAST_ER_BF16 [raw]", quantity="none")
String1d	DM_DRC_ERR_NS (description="DM_DRC_ERR_NS", quantity="none")
Long1d	DM_LAST_ER_BF10 (description="DM_LAST_ER_BF10 [raw]", quantity="none")
Long1d	DM_RPE_SPARE4 (description="DM_RPE_SPARE4 [raw]", quantity="none")
Long1d	DM_LAST_ER_BF11 (description="DM_LAST_ER_BF11 [raw]", quantity="none")
Double1d	DM_REF_VOLT_5V (description="DM_REF_VOLT_5V [eng, V]", quantity="none")
Long1d	SPS_PIX (description="SPS_PIX [raw]", quantity="none")
Long1d	DM_DRC_ERROR (description="DM_DRC_ERROR [raw]", quantity="none")
Long1d	DM_LAST_ER_BF14 (description="DM_LAST_ER_BF14 [raw]", quantity="none")
Double1d	DP_WORK_LOAD (description="DP_WORK_LOAD [eng, %]", quantity="none")
Long1d	DM_LAST_ER_BF15 (description="DM_LAST_ER_BF15 [raw]", quantity="none")

Long1d	DM_LAST_ER_BF12 (description="DM_LAST_ER_BF12 [raw]", quantity="none")
String1d	DP_DEC_LINK (description="DP_DEC_LINK", quantity="none")
Long1d	DM_LAST_ER_BF13 (description="DM_LAST_ER_BF13 [raw]", quantity="none")
Long1d	DP_COM_DMC_PACK (description="DP_COM_DMC_PACK [raw]", quantity="none")
String1d	DM_DPUR_TASK_WR (description="DM_DPUR_TASK_WR", quantity="none")
String1d	DP_EEPROM_PROT (description="DP_EEPROM_PROT", quantity="none")
Long1d	DP_COM_SPS_PACK (description="DP_COM_SPS_PACK [raw]", quantity="none")
Double1d	DP_VOL_5P (description="DP_VOL_5P [eng, V]", quantity="none")
Long1d	DM_LAST_ER_BF3 (description="DM_LAST_ER_BF3 [raw]", quantity="none")
Long1d	DM_LAST_ER_BF4 (description="DM_LAST_ER_BF4 [raw]", quantity="none")
Long1d	DM_LAST_ER_BF5 (description="DM_LAST_ER_BF5 [raw]", quantity="none")
Long1d	DM_LAST_ER_BF6 (description="DM_LAST_ER_BF6 [raw]", quantity="none")
Long1d	DM_LAST_ER_BF7 (description="DM_LAST_ER_BF7 [raw]", quantity="none")
String1d	DM_DPUS_LINK (description="DM_DPUS_LINK", quantity="none")
Long1d	DM_LAST_ER_BF8 (description="DM_LAST_ER_BF8 [raw]", quantity="none")
Double1d	DP_VOL_25P (description="DP_VOL_25P [eng, V]", quantity="none")
Long1d	DM_LAST_ER_BF9 (description="DM_LAST_ER_BF9 [raw]", quantity="none")
Long1d	DP_COM_DMC_NACK (description="DP_COM_DMC_NACK [raw]", quantity="none")
String1d	DM_SEQ_TASK_AL (description="DM_SEQ_TASK_AL", quantity="none")
Long1d	DM_FPU_T_SEN_ST (description="DM_FPU_T_SEN_ST [raw]", quantity="none")
Long1d	DM_BOL_STATUS (description="DM_BOL_STATUS [raw]", quantity="none")
String1d	DM_BR_SIM_TIME (description="DM_BR_SIM_TIME", quantity="none")
Long1d	DM_LAST_ER_BF2 (description="DM_LAST_ER_BF2 [raw]", quantity="none")
Double1d	BOL_PWR_DIG_7 (description="BOL_PWR_DIG_7 [eng, V]", quantity="none")
Long1d	DM_LAST_ER_BF1 (description="DM_LAST_ER_BF1 [raw]", quantity="none")

String1d	DM_FPU_FWP_TS_S (description="DM_FPU_FWP_TS_S", quantity="none")
Long1d	DP_1_2_REJECTED (description="DP_1_2_REJECTED [raw]", quantity="none")
String1d	DP_INIT (description="DP_INIT", quantity="none")
Long1d	DM_BLUE_PAC_ENC (description="DM_BLUE_PAC_ENC [raw]", quantity="none")
String1d	DP_BUFFER_STAT (description="DP_BUFFER_STAT", quantity="none")
String1d	DP_COUNTER_SPEC (description="DP_COUNTER_SPEC", quantity="none")
String1d	DM_DBC_TASK_AL (description="DM_DBC_TASK_AL", quantity="none")
Long1d	DM_BOL_READ_CNT (description="DM_BOL_READ_CNT [raw]", quantity="none")
Long1d	DM_HK_DIAG_PERI (description="DM_HK_DIAG_PERI [raw]", quantity="none")
Long1d	DM_DECB_REC_PAC (description="DM_DECB_REC_PAC [raw]", quantity="none")
Long1d	SPL_MEM_CNTS (description="SPL_MEM_CNTS [raw]", quantity="none")
Long1d	DM_DBR_ERROR (description="DM_DBR_ERROR [raw]", quantity="none")
Long1d	DP_HK_LOST (description="DP_HK_LOST [raw]", quantity="none")
String1d	DP_CONTROLLER (description="DP_CONTROLLER", quantity="none")
String1d	DP_EV_BOL_I_HEA (description="DP_EV_BOL_I_HEA", quantity="none")
String1d	DP_STABLE_SPL (description="DP_STABLE_SPL", quantity="none")
String1d	DP_EV_BOL_BIAS (description="DP_EV_BOL_BIAS", quantity="none")
Double1d	DM_SPU_LWL_TEMP (description="DM_SPU_LWL_TEMP [eng, K]", quantity="none")
String1d	DM_HKD_TASK_AL (description="DM_HKD_TASK_AL", quantity="none")
String1d	DM_BPE_TASK_AL (description="DM_BPE_TASK_AL", quantity="none")
Long1d	DP_EVENT_LOST (description="DP_EVENT_LOST [raw]", quantity="none")
String1d	DM_SW_ALIVE (description="DM_SW_ALIVE", quantity="none")
Double1d	DM_SPU_VP_CUR (description="DM_SPU_VP_CUR [eng, mA]", quantity="none")
Long1d	DP_COM_REC_DPU (description="DP_COM_REC_DPU [raw]", quantity="none")
String1d	DM_DPUS_ERR_NS (description="DM_DPUS_ERR_NS", quantity="none")

String1d	DM_DBR_LINK (description="DM_DBR_LINK", quantity="none")
Long1d	DP_SW_SUBVERS_ID (description="DP_SW_SUBVERS_ID [raw]", quantity="none")
Long1d	DP_SPUS_LINK_PE (description="DP_SPUS_LINK_PE [raw]", quantity="none")
String1d	DP_STABLE_SPS (description="DP_STABLE_SPS", quantity="none")
Long1d	DM_DRC_SPARE3 (description="DM_DRC_SPARE3 [raw]", quantity="none")
String1d	DM_DBC_TASK_WR (description="DM_DBC_TASK_WR", quantity="none")
String1d	DM_DPUR_TASK_AL (description="DM_DPUR_TASK_AL", quantity="none")
String1d	DM_BC_TASK_WR (description="DM_BC_TASK_WR", quantity="none")
String1d	DP_SPL_LINK (description="DP_SPL_LINK", quantity="none")
String1d	DP_UNIT (description="DP_UNIT", quantity="none")
Long1d	DM_DECR_REC_STA (description="DM_DECR_REC_STA [raw]", quantity="none")
String1d	DM_DBR_TASK_AL (description="DM_DBR_TASK_AL", quantity="none")
Long1d	DM_SEQ_ERROR (description="DM_SEQ_ERROR [raw]", quantity="none")
Double1d	DM_CAL_SRC_TEMP (description="DM_CAL_SRC_TEMP [eng, K]", quantity="none")
String1d	DM_DBC_ERR_NS (description="DM_DBC_ERR_NS", quantity="none")
String1d	DM_DBR_SIM_TIME (description="DM_DBR_SIM_TIME", quantity="none")
String1d	DM_DRC_POWER (description="DM_DRC_POWER", quantity="none")
String1d	DM_SEQ_TASK_WR (description="DM_SEQ_TASK_WR", quantity="none")
Long1d	DP_COM_SPL_PACK (description="DP_COM_SPL_PACK [raw]", quantity="none")
Long1d	DM_DBC_ERROR (description="DM_DBC_ERROR [raw]", quantity="none")
String1d	DM_HKCO_ERR_NS (description="DM_HKCO_ERR_NS", quantity="none")
Double1d	DM_DSP_TEMP (description="DM_DSP_TEMP [eng, K]", quantity="none")
String1d	DM_FWSP_CUR_POS (description="DM_FWSP_CUR_POS", quantity="none")
Long1d	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
Double1d	BOL_TEMP_EV_SWT (description="BOL_TEMP_EV_SWT [eng, K]", quantity="none")
Double1d	DM_SPU_PS_TEMP (description="DM_SPU_PS_TEMP [eng, K]", quantity="none")

Double1d	BOL_HEAT_SP_SWT (description="BOL_HEAT_SP_SWT [eng, A]", quantity="none")
String1d	DM_DPUR_ERR_NS (description="DM_DPUR_ERR_NS", quantity="none")
Long1d	DM_HKD_ERROR (description="DM_HKD_ERROR [raw]", quantity="none")
Long1d	DM_BR_SPARE2 (description="DM_BR_SPARE2 [raw]", quantity="none")
Long1d	DM_BOL_CTRL_PAC (description="DM_BOL_CTRL_PAC [raw]", quantity="none")
String1d	DP_SPUS_CMD (description="DP_SPUS_CMD", quantity="none")
Long1d	SPS_MEM_CNTS (description="SPS_MEM_CNTS [raw]", quantity="none")
String1d	DP_1553_HANDLER (description="DP_1553_HANDLER", quantity="none")
Double1d	DM_SPU_VCC_VOL (description="DM_SPU_VCC_VOL [eng, V]", quantity="none")
String1d	SPL_DMC_LINK (description="SPL_DMC_LINK", quantity="none")
Long1d	DM_DPUS_SPARE4 (description="DM_DPUS_SPARE4 [raw]", quantity="none")
Long1d	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")
Double1d	DM_GRATING_TEMP (description="DM_GRATING_TEMP [eng, K]", quantity="none")
String1d	DM_RPE_TASK_AL (description="DM_RPE_TASK_AL", quantity="none")
Long1d	DM_CUSTOM_ENT_2 (description="DM_CUSTOM_ENT_2 [raw]", quantity="none")
Long1d	DM_CUSTOM_ENT_3 (description="DM_CUSTOM_ENT_3 [raw]", quantity="none")
Long1d	DM_RPE_ERROR (description="DM_RPE_ERROR [raw]", quantity="none")
String1d	DP_TM_RATE (description="DP_TM_RATE", quantity="none")
Long1d	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
String1d	DP_SPUL_HK (description="DP_SPUL_HK", quantity="none")
Double1d	BOL_PWR_ANA_P_7 (description="BOL_PWR_ANA_P_7 [eng, V]", quantity="none")
Long1d	DM_CUSTOM_ENT_1 (description="DM_CUSTOM_ENT_1 [raw]", quantity="none")
String1d	DM_BR_TASK_WR (description="DM_BR_TASK_WR", quantity="none")
String1d	DM_DRR_SIM_TIME (description="DM_DRR_SIM_TIME", quantity="none")
Long1d	DM_CUSTOM_ENT_6 (description="DM_CUSTOM_ENT_6 [raw]", quantity="none")

Long1d	DM_CUSTOM_ENT_7 (description="DM_CUSTOM_ENT_7 [raw]", quantity="none")
Long1d	DM_CUSTOM_ENT_4 (description="DM_CUSTOM_ENT_4 [raw]", quantity="none")
Long1d	DM_CUSTOM_ENT_5 (description="DM_CUSTOM_ENT_5 [raw]", quantity="none")
String1d	DM_DPUR_LINK (description="DM_DPUR_LINK", quantity="none")
Long1d	DM_CUSTOM_ENT_8 (description="DM_CUSTOM_ENT_8 [raw]", quantity="none")
Long1d	DM_OBSID (description="DM_OBSID [raw]", quantity="none")
Long1d	DM_CUSTOM_ENT_9 (description="DM_CUSTOM_ENT_9 [raw]", quantity="none")
String1d	DP_EV_BOL_T_FPU (description="DP_EV_BOL_T_FPU", quantity="none")
Long1d	DM_RED_ENC_PAC (description="DM_RED_ENC_PAC [raw]", quantity="none")
String1d	DP_OBCP_RUN (description="DP_OBCP_RUN", quantity="none")
Long1d	DM_DECB_CTRL_PA (description="DM_DECB_CTRL_PA [raw]", quantity="none")
Long1d	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
Long1d	DP_DEC_LINK_PE (description="DP_DEC_LINK_PE [raw]", quantity="none")
String1d	DP_DMC_LINK (description="DP_DMC_LINK", quantity="none")
String1d	SPL_DMC_ERROR (description="SPL_DMC_ERROR", quantity="none")
String1d	DM_RPE_LINK (description="DM_RPE_LINK", quantity="none")
String1d	DP_EV_BOL_V_PWR (description="DP_EV_BOL_V_PWR", quantity="none")
Long1d	DM_SW_ERROR (description="DM_SW_ERROR [raw]", quantity="none")
String1d	DP_SPUL_CMD (description="DP_SPUL_CMD", quantity="none")
Long1d	DP_SPUS_LINK_DE (description="DP_SPUS_LINK_DE [raw]", quantity="none")
Long1d	DM_DECB_CTRL_ST (description="DM_DECB_CTRL_ST [raw]", quantity="none")
Double1d	DP_T (description="DP_T [eng, degC]", quantity="none")
String1d	DM_FPU_GR_TS_ST (description="DM_FPU_GR_TS_ST", quantity="none")
Double1d	DM_PSC_V4 (description="DM_PSC_V4 [eng, A]", quantity="none")
Double1d	DM_PSC_V3 (description="DM_PSC_V3 [eng, mA]", quantity="none")
Double1d	DM_PSC_V2 (description="DM_PSC_V2 [eng, mA]", quantity="none")
Double1d	DM_PSC_V1 (description="DM_PSC_V1 [eng, A]", quantity="none")

Long1d	DM_DECR_REC_PAC (description="DM_DECR_REC_PAC [raw]", quantity="none")
String1d	DP_STABLE_DEC (description="DP_STABLE_DEC", quantity="none")
String1d	SPS_DMC_ERROR (description="SPS_DMC_ERROR", quantity="none")
String1d	DM_BPE_TASK_WR (description="DM_BPE_TASK_WR", quantity="none")
Long1d	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
Long1d	DM_GRAT_CUR_POS (description="DM_GRAT_CUR_POS [raw]", quantity="none")
String1d	DP_SPUL_LINK (description="DP_SPUL_LINK", quantity="none")
String1d	DM_BC_LINK (description="DM_BC_LINK", quantity="none")
Long1d	DM_HK_DIAG_STAT (description="DM_HK_DIAG_STAT [raw]", quantity="none")
String1d	DP_1355_HANDLER (description="DP_1355_HANDLER", quantity="none")
String1d	DM_FPU_CS_TS_ST (description="DM_FPU_CS_TS_ST", quantity="none")
Long1d	DM_DM_DF_IND (description="DM_DM_DF_IND [raw]", quantity="none")
String1d	DP_EV_BOL_I_SP2 (description="DP_EV_BOL_I_SP2", quantity="none")
String1d	DP_EV_BOL_I_SP1 (description="DP_EV_BOL_I_SP1", quantity="none")
Long1d	DM_DPU_REC_PAC (description="DM_DPU_REC_PAC [raw]", quantity="none")
String1d	DP_COUNTER_PHOT (description="DP_COUNTER_PHOT", quantity="none")
Double1d	BOL_TEMP_FPU1 (description="BOL_TEMP_FPU1 [eng, K]", quantity="none")
Double1d	BOL_TEMP_FPU2 (description="BOL_TEMP_FPU2 [eng, K]", quantity="none")
Double1d	BOL_TEMP_DAQ (description="BOL_TEMP_DAQ [eng, degC]", quantity="none")
Long1d	DM_SEQ_STATUS (description="DM_SEQ_STATUS [raw]", quantity="none")
Long1d	DM_BPE_SPARE4 (description="DM_BPE_SPARE4 [raw]", quantity="none")
Long1d	DM_BC_ERROR (description="DM_BC_ERROR [raw]", quantity="none")
String1d	DM_DRC_LINK (description="DM_DRC_LINK", quantity="none")
String1d	DM_DBR_TASK_WR (description="DM_DBR_TASK_WR", quantity="none")
Double1d	DM_FPU_T1_TEMP (description="DM_FPU_T1_TEMP [eng, K]", quantity="none")

String1d	DM_DRR_ERR_NS (description="DM_DRR_ERR_NS", quantity="none")
String1d	DM_BR_TASK_AL (description="DM_BR_TASK_AL", quantity="none")
String1d	DM_FPU_S1_TS_ST (description="DM_FPU_S1_TS_ST", quantity="none")
Long1d	DM_TIME_2 (description="DM_TIME_2 [raw]", quantity="none")
String1d	DM_BC_TASK_AL (description="DM_BC_TASK_AL", quantity="none")
Double1d	BOL_HEATER_FPU (description="BOL_HEATER_FPU [eng, A]", quantity="none")
String1d	DM_SEQ_RUNNING (description="DM_SEQ_RUNNING", quantity="none")
Long1d	DM_TIME_1 (description="DM_TIME_1 [raw]", quantity="none")
Long1d	DP_COM_SPS_NACK (description="DP_COM_SPS_NACK [raw]", quantity="none")
String1d	DM_BC_ERR_NS (description="DM_BC_ERR_NS", quantity="none")
String1d	DM_DBC_POWER (description="DM_DBC_POWER", quantity="none")
Double1d	DM_SPU_PSU_P15V (description="DM_SPU_PSU_P15V [eng, V]", quantity="none")
Long1d	DM_RED_PAC_ENC (description="DM_RED_PAC_ENC [raw]", quantity="none")
Long1d	DM_BR_ERROR (description="DM_BR_ERROR [raw]", quantity="none")
String1d	DP_SPUS_HK (description="DP_SPUS_HK", quantity="none")
String1d	DP_EV_BOL_I_RO (description="DP_EV_BOL_I_RO", quantity="none")
Long1d	DM_DBC_SPARE3 (description="DM_DBC_SPARE3 [raw]", quantity="none")
Double1d	DM_CPU_LOAD (description="DM_CPU_LOAD [eng, %]", quantity="none")
Double1d	DM_FPU_T2_TEMP (description="DM_FPU_T2_TEMP [eng, K]", quantity="none")
Long1d	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
String1d	DP_EV_DEC_SPC (description="DP_EV_DEC_SPC", quantity="none")
String1d	DP_EVENT_DEC (description="DP_EVENT_DEC", quantity="none")
String1d	DM_RPE_ERR_NS (description="DM_RPE_ERR_NS", quantity="none")
Long1d	DP_STATUS (description="DP_STATUS [raw]", quantity="none")
Long1d	DP_COM_DMC (description="DP_COM_DMC [raw]", quantity="none")
String1d	DM_DBR_ERR_NS (description="DM_DBR_ERR_NS", quantity="none")

String1d	DM_DPUS_TASK_WR (description="DM_DPUS_TASK_WR", quantity="none")
Long1d	DM_BBID (description="DM_BBID [raw]", quantity="none")
String1d	DP_EV_BOL_T_WE (description="DP_EV_BOL_T_WE", quantity="none")
Long1d	DM_DM_SF_IND (description="DM_DM_SF_IND [raw]", quantity="none")
String1d	DM_BR_LINK (description="DM_BR_LINK", quantity="none")
String1d	DM_SEQ_ERR_NS (description="DM_SEQ_ERR_NS", quantity="none")
Double1d	DM_DCDC_TEMP (description="DM_DCDC_TEMP [eng, K]", quantity="none")
String1d	DM_HKD_DIAGMODE (description="DM_HKD_DIAGMODE", quantity="none")
Long1d	DM_DPU_SEND_PAC (description="DM_DPU_SEND_PAC [raw]", quantity="none")
String1d	DM_DRR_LINK (description="DM_DRR_LINK", quantity="none")
String1d	DP_AF_24_SPARE (description="DP_AF_24_SPARE", quantity="none")
String1d	DP_BURST_MODE (description="DP_BURST_MODE", quantity="none")
String1d	DP_COUNTER_SPS (description="DP_COUNTER_SPS", quantity="none")
Long1d	DP_DEC_LINK_DE (description="DP_DEC_LINK_DE [raw]", quantity="none")
String1d	DP_1355_LINK (description="DP_1355_LINK", quantity="none")
String1d	DP_1553CHANNEL (description="DP_1553CHANNEL", quantity="none")
Double1d	DM_FW_SPEC_TEMP (description="DM_FW_SPEC_TEMP [eng, K]", quantity="none")
String1d	DM_SW_ERR (description="DM_SW_ERR", quantity="none")
Long1d	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")
String1d	DM_DBR_SENDING (description="DM_DBR_SENDING", quantity="none")
String1d	DP_COUNTER_SPL (description="DP_COUNTER_SPL", quantity="none")
String1d	DM_DRR_TASK_AL (description="DM_DRR_TASK_AL", quantity="none")
Long1d	DM_SEQ_SPARE1 (description="DM_SEQ_SPARE1 [raw]", quantity="none")
Long1d	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
Long1d	DM_SEQ_SPARE2 (description="DM_SEQ_SPARE2 [raw]", quantity="none")
Long1d	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")
Long1d	DM_DPUS_ERROR (description="DM_DPUS_ERROR [raw]", quantity="none")

Long1d	DP_SPUL_LINK_DE (description="DP_SPUL_LINK_DE [raw]", quantity="none")
String1d	DP_EVENT_SPU (description="DP_EVENT_SPU", quantity="none")
String1d	DM_HKD_TASK_WR (description="DM_HKD_TASK_WR", quantity="none")
String1d	DM_DRC_TASK_WR (description="DM_DRC_TASK_WR", quantity="none")
Long1d	DP_COM_SPUS (description="DP_COM_SPUS [raw]", quantity="none")
Double1d	BOL_TEMP_B_2 (description="BOL_TEMP_B_2 [eng, degC]", quantity="none")
String1d	DM_BR_SENDING (description="DM_BR_SENDING", quantity="none")
Double1d	BOL_TEMP_B_3 (description="BOL_TEMP_B_3 [eng, degC]", quantity="none")
Double1d	BOL_TEMP_B_1 (description="BOL_TEMP_B_1 [eng, degC]", quantity="none")
Long1d	DP_COM_SPUL (description="DP_COM_SPUL [raw]", quantity="none")
Long1d	DM_HKD_SPARE3 (description="DM_HKD_SPARE3 [raw]", quantity="none")
Long1d	DP_AF_STATUS (description="DP_AF_STATUS [raw]", quantity="none")
String1d	DP_BLUE_SCIENCE (description="DP_BLUE_SCIENCE", quantity="none")
String1d	DM_DPUS_TASK_AL (description="DM_DPUS_TASK_AL", quantity="none")
Long1d	DP_SPARE (description="DP_SPARE [raw]", quantity="none")
Long1d	DM_R_SPEC_READ (description="DM_R_SPEC_READ [raw]", quantity="none")
Long1d	SPS_VID (description="SPS_VID [raw]", quantity="none")
Double1d	BOL_HEATER_SP (description="BOL_HEATER_SP [eng, A]", quantity="none")
Long1d	DM_BC_SPARE4 (description="DM_BC_SPARE4 [raw]", quantity="none")
Long1d	DM_HKCO_ERROR (description="DM_HKCO_ERROR [raw]", quantity="none")
String1d	DM_DRR_SENDING (description="DM_DRR_SENDING", quantity="none")
Long1d	DM_DRR_SPARE2 (description="DM_DRR_SPARE2 [raw]", quantity="none")
String1d	DM_BR_ERR_NS (description="DM_BR_ERR_NS", quantity="none")
Double1d	SPS_CPUWORKLOAD (description="SPS_CPUWORKLOAD [eng, %]", quantity="none")
Long1d	DM_PM_DF_IND (description="DM_PM_DF_IND [raw]", quantity="none")

Long1d	DM_DPUR_ERROR (description="DM_DPUR_ERROR [raw]", quantity="none")
Long1d	DM_BOL_REC_STAT (description="DM_BOL_REC_STAT [raw]", quantity="none")
String1d	DP_WHICH_OBCP (description="DP_WHICH_OBCP", quantity="none")
Double1d	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")
String1d	DP_TEST_MODE (description="DP_TEST_MODE", quantity="none")
String1d	DM_BPE_ERR_NS (description="DM_BPE_ERR_NS", quantity="none")
Long1d	DM_IRS_CNT (description="DM_IRS_CNT [raw]", quantity="none")
Long1d	SPS_CI (description="SPS_CI [raw]", quantity="none")
Long1d	DM_CHOP_CUR_POS (description="DM_CHOP_CUR_POS [raw]", quantity="none")
Long1d	DM_HKD_SPARE1 (description="DM_HKD_SPARE1 [raw]", quantity="none")
Long1d	DP_SW_VERS_ID (description="DP_SW_VERS_ID [raw]", quantity="none")
Long1d	DM_CUSTOM_ENT10 (description="DM_CUSTOM_ENT10 [raw]", quantity="none")
Double1d	BOL_TEMP_SP (description="BOL_TEMP_SP [eng, K]", quantity="none")
Long1d	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
Long1d	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")
String1d	DM_FWPH_CUR_POS (description="DM_FWPH_CUR_POS", quantity="none")
String1d	DM_DBC_LINK (description="DM_DBC_LINK", quantity="none")
Long1d	DM_BPE_ERROR (description="DM_BPE_ERROR [raw]", quantity="none")
Long1d	SPL_CI (description="SPL_CI [raw]", quantity="none")
Double1d	BOL_PWR_ANA_N_7 (description="BOL_PWR_ANA_N_7 [eng, V]", quantity="none")
Long1d	DM_DECR_CTRL_ST (description="DM_DECR_CTRL_ST [raw]", quantity="none")
Long1d	DP_TC_LOST (description="DP_TC_LOST [raw]", quantity="none")
Double1d	DP_VOL_15P (description="DP_VOL_15P [eng, V]", quantity="none")
Double1d	DP_VOL_15N (description="DP_VOL_15N [eng, V]", quantity="none")
Long1d	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
Long1d	DM_DPU_REC_STAT (description="DM_DPU_REC_STAT [raw]", quantity="none")

Long1d	DM_VID (description="DM_VID [raw]", quantity="none")
Double1d	BOL_TEMP_SP_SWT (description="BOL_TEMP_SP_SWT [eng, K]", quantity="none")
Double1d	DM_REF_VOLT_0V (description="DM_REF_VOLT_0V [eng, V]", quantity="none")
String1d	DP_COUNTER_DEC (description="DP_COUNTER_DEC", quantity="none")
Long1d	DM_B_SPEC_READ (description="DM_B_SPEC_READ [raw]", quantity="none")
String1d	DP_HK_MONITOR (description="DP_HK_MONITOR", quantity="none")
Double1d	BOL_TEMP_FPU_ST (description="BOL_TEMP_FPU_ST [eng, K]", quantity="none")
Double1d	BOL_TEMP_TS (description="BOL_TEMP_TS [eng, K]", quantity="none")
Long1d	DM_SW_SPARE5 (description="DM_SW_SPARE5 [raw]", quantity="none")
Long1d	DP_COM_REJ_DPU (description="DP_COM_REJ_DPU [raw]", quantity="none")
Double1d	DM_CHOPPER_TEMP (description="DM_CHOPPER_TEMP [eng, K]", quantity="none")
String1d	DM_RPE_TASK_WR (description="DM_RPE_TASK_WR", quantity="none")
Double1d	BOL_I_HEATER_B4 (description="BOL_I_HEATER_B4 [eng, A]", quantity="none")
Long1d	HD_APID (description="HD_APID [raw]", quantity="none")
String1d	DP_EV_BOL_I_FPU (description="DP_EV_BOL_I_FPU", quantity="none")
String1d	DP_EVENT_DPU (description="DP_EVENT_DPU", quantity="none")
Double1d	BOL_I_HEATER_B2 (description="BOL_I_HEATER_B2 [eng, A]", quantity="none")
Double1d	BOL_I_HEATER_B3 (description="BOL_I_HEATER_B3 [eng, A]", quantity="none")
Long1d	DM_DRR_ERROR (description="DM_DRR_ERROR [raw]", quantity="none")
Double1d	BOL_I_HEATER_B1 (description="BOL_I_HEATER_B1 [eng, A]", quantity="none")
Long1d	DM_DECB_REC_STA (description="DM_DECB_REC_STA [raw]", quantity="none")
Double1d	BOL_TEMP_EV (description="BOL_TEMP_EV [eng, K]", quantity="none")
String1d	DM_HKCO_TASK_WR (description="DM_HKCO_TASK_WR", quantity="none")
Long1d	DM_BLUE_ENC_PAC (description="DM_BLUE_ENC_PAC [raw]", quantity="none")

9.1.7. HPTCVERS: Telecommand Verification

list context (type="HPTCVERS", description="Telecommand Verification")	
Metadata	
StringParameter	type (description="null")
StringParameter	creator (description="Creator misused until Testname is not Porper")
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	formatVersion (description="Format Version of the Products")
StringParameter	testName (description="null")
StringParameter	fileName (description="null")
StringParameter	camera (description="Camera")
LongParameter	obsid (description="Observation ID")
LongParameter	obsType (description="null")
LongParameter	obsCount (description="OBSID")
StringParameter	missionConfiguration (description="Mission Configuration")
StringParameter	testExecution (description="Test Name")
StringParameter	testDescription (description="Test Description")
product	*(type="HPENG", description="HPTCVERS")*
Metadata	
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	formatVersion (description="Format Version of the Products")
StringParameter	fileName (description="null")
StringParameter	missionConfiguration (description="Mission Configuration")
LongParameter	obsid (description="Observation ID")
LongParameter	obsType (description="null")
LongParameter	obsCount (description="OBSID")
table dataset	*(description="Generated from PacketSequence $Revision: 1.4 $")*
Metadata	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")

Long1d	Time (description="Time [microseconds]", quantity="microseconds [1.0E-6 s]")
Long1d	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
Double1d	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
Long1d	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")
Long1d	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
Long1d	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
Long1d	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
Long1d	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")
Double1d	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")
Long1d	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
Long1d	HD_APID (description="HD_APID [raw]", quantity="none")
Long1d	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
Long1d	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
Long1d	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
Long1d	HD_TIME (description="HD_TIME [raw]", quantity="none")
Long1d	TC_PCKT_SUBTYPE (description="TC_PCKT_SUBTYPE [raw]", quantity="none")
Long1d	PCKT_SEQ_CONTR (description="PCKT_SEQ_CONTR [raw]", quantity="none")
Long1d	TC_PACKET_TYPE (description="TC_PACKET_TYPE [raw]", quantity="none")
Long1d	TC_PACKET_ID (description="TC_PACKET_ID [raw]", quantity="none")
Double1d	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")
Long1d	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")

9.2. PACS Photometry Level-0.5 and Level-1 Products

9.2.1. HPPAVGBS: Frames

product (type="HPPAVGBS", description="Frames")	
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	formatVersion (description="Version of product format")
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")
LongParameter	

	RemovedSetTime (description="Number of removed Frames due to setTime command")
StringParameter	blue (description="ObservationParameter")
DoubleParameter	chopAvoidFrom (description="ObservationParameter")
DoubleParameter	chopAvoidTo (description="ObservationParameter")
DoubleParameter	dec (description="ObservationParameter")
BooleanParameter	dither (description="ObservationParameter")
BooleanParameter	doSlewScience (description="ObservationParameter")
DoubleParameter	fluxExtBlu (description="ObservationParameter")
DoubleParameter	fluxExtRed (description="ObservationParameter")
DoubleParameter	fluxPntBlu (description="ObservationParameter")
DoubleParameter	fluxPntRed (description="ObservationParameter")
DoubleParameter	lineStep (description="ObservationParameter")
LongParameter	m (description="ObservationParameter")
StringParameter	mapRasterAngleRef (description="ObservationParameter")
DoubleParameter	mapRasterConstrFrom (description="ObservationParameter")
DoubleParameter	mapRasterConstrTo (description="ObservationParameter")
DoubleParameter	mapScanAngle (description="ObservationParameter")
StringParameter	mapScanAngleRef (description="ObservationParameter")
DoubleParameter	mapScanConstrFrom (description="ObservationParameter")
DoubleParameter	mapScanConstrTo (description="ObservationParameter")
DoubleParameter	mapScanCrossScan (description="ObservationParameter")
BooleanParameter	mapScanHomCoverage (description="ObservationParameter")
DoubleParameter	mapScanLegLength (description="ObservationParameter")
LongParameter	mapScanNumLegs (description="ObservationParameter")
StringParameter	mapScanSpeed (description="ObservationParameter")

BooleanParameter	mapScanSquare (description="ObservationParameter")
LongParameter	n (description="ObservationParameter")
LongParameter	naifid (description="ObservationParameter")
LongParameter	obsOverhead (description="ObservationParameter")
DoubleParameter	pointStep (description="ObservationParameter")
DoubleParameter	ra (description="ObservationParameter")
LongParameter	repFactor (description="ObservationParameter")
StringParameter	source (description="ObservationParameter")
StringParameter	fileName (description="null")
array dataset	*(description="null")*
Metadata	
Double3d	(description="null", quantity="none")
table dataset	*(description="Status")*
Metadata	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
Int1d	RESETINDEX (description="Indicates the reset index of the status paramet", quantity="none")
Long1d	OBSID (description="Identifier of the observation", quantity="none")
Long1d	BBID (description="Building block type", quantity="none")
Int1d	LBL (description="Label", quantity="none")
Int1d	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
Int1d	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
Long1d	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
Int1d	VLD (description="Validity flag set by DecMec", quantity="none")
Int1d	CPR (description="Chopper position", quantity="none")
Int1d	WPR (description="Filter wheel Position", quantity="none")
Int1d	BOLST (description="BOL-C status", quantity="none")
Int1d	CRDC (description="OBT clock tick counter since last time reset)", quantity="none")
Int1d	CRDCCP (description="OBT clock tick counter in current chopper plate", quantity="none")
Int1d	DBID (description="Data Block ID", quantity="none")
Int1d	BSID (description="Bolometer Setup Identification", quantity="none")
Bool1d	DMCSEQACTIVE (description="Indicates if a DMC sequence executing", quantity="none")

Int1d	CHOPPERPLATEAU (description="Indicates the chopper plateau within a sequence", quantity="none")
Int1d	CALSOURCE (description="Chopper on Calibration source 1, 2 or off (0)", quantity="none")
Int1d	PIX (description="PIX counter for synchronisation to SPU housekeeping (CompressedEntHeader", quantity="none")
Int1d	RCX (description="Raw Channel Index in CompressedEntHeader", quantity="none")
Int1d	RESETCNT (description="Reset counter to identify frames belonging to a", quantity="none")
Int1d	BLOCKIDX (description="Reference to the BlockTable entry", quantity="none")
String1d	BAND (description="Wavelength Band", quantity="none")
Int1d	NrReadouts (description="Number od readouts per Buffer", quantity="none")
Int1d	BBTYPE (description="Building Block Type", quantity="none")
Int1d	BBSEQCNT (description="Building Block Sequence Count", quantity="none")
Int1d	DP_WHICH_OBCP (description="OBCP Number", quantity="none")
table dataset	*(description="BlockTable")*
Metadata	
StringParameter	MODE (description="PACS Mode")
Int1d	Obcp (description="OBCP", quantity="none")
Int1d	DMSActive (description="Dec Mec Sequence Active", quantity="none")
Int1d	ChopperPlateau (description="Chopper Plateau", quantity="none")
Int1d	CalSource (description="Calibration Source", quantity="none")
Int1d	Filter (description="Filter", quantity="none")
Int1d	StartIdx (description="Start Index", quantity="none")
Int1d	EndIdx (description="End Index (NOT INCLUSIVE)", quantity="none")
Int1d	NrIdx (description="Number of Indexes", quantity="none")
Double1d	Raster (description="Raster Position", quantity="none")
String1d	Id (description="Block ID", quantity="none")
String1d	Description (description="Verbose Description", quantity="none")
Int1d	OnSource (description="On-Source Label", quantity="none")
Int1d	OffSource1 (description="First Off-Source Label", quantity="none")
Int1d	OffSource2 (description="Second Off-Source Label", quantity="none")
Int1d	NoddingPosition (description="Nodding position (0 = None, 1 = A, 2 = B)", quantity="none")
Int1d	NodCycleNum (description="Nodding cycle number", quantity="none")
Int1d	RasterColumnNum (description="Raster column number", quantity="none")
Int1d	RasterLineNum (description="Raster line number", quantity="none")
Int1d	NrAvg (description="Average number", quantity="none")
array dataset	*(description="null")*

Metadata								
Bool2d	(description="null", quantity="none")							
composite	*(description="Mask data stored in bit encoded arrays")*							
Metadata								
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")							
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")							

9.2.2. HPPAVGRS: Frames

product (type="HPPAVGRS", description="Frames")	
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	formatVersion (description="Version of product format")
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")
LongParameter	RemovedSetTime (description="Number of removed Frames due to setTime command")
StringParameter	fileName (description="null")
array dataset	*(description="null")*
Metadata	
Double3d	(description="null", quantity="none")
table dataset	*(description="Status")*
Metadata	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
Int1d	RESETINDEX (description="Indicates the reset index of the status paramet", quantity="none")
Long1d	OBSID (description="Identifier of the observation", quantity="none")
Long1d	BBID (description="Building block type", quantity="none")
Int1d	LBL (description="Label", quantity="none")
Int1d	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
Int1d	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
Long1d	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
Int1d	VLD (description="Validity flag set by DecMec", quantity="none")
Int1d	CPR (description="Chopper position", quantity="none")
Int1d	WPR (description="Filter wheel Position", quantity="none")

Int1d	BOLST (description="BOL-C status", quantity="none")
Int1d	CRDC (description="OBT clock tick counter since last time reset)", quantity="none")
Int1d	CRDCCP (description="OBT clock tick counter in current chopper plate", quantity="none")
Int1d	DBID (description="Data Block ID", quantity="none")
Int1d	BSID (description="Bolometer Setup Identification", quantity="none")
Bool1d	DMCSEQACTIVE (description="Indicates if a DMC sequence executing", quantity="none")
Int1d	CHOPPERPLATEAU (description="Indicates the chopper plateau within a sequence", quantity="none")
Int1d	CALSOURCE (description="Chopper on Calibration source 1, 2 or off (0)", quantity="none")
Int1d	PIX (description="PIX counter for synchronisation to SPU housekeeping (CompressedEntHeader", quantity="none")
Int1d	RCX (description="Raw Channel Index in CompressedEntHeader", quantity="none")
Int1d	RESETCNT (description="Reset counter to identify frames belonging to a", quantity="none")
Int1d	BLOCKIDX (description="Reference to the BlockTable entry", quantity="none")
String1d	BAND (description="Wavelength Band", quantity="none")
Int1d	NrReadouts (description="Number od readouts per Buffer", quantity="none")
Int1d	BBTYPE (description="Building Block Type", quantity="none")
Int1d	BBSEQCNT (description="Building Block Sequence Count", quantity="none")
Int1d	DP_WHICH_OBCP (description="OBCP Number", quantity="none")
table dataset	*(description="BlockTable")*
Metadata	
StringParameter	MODE (description="PACS Mode")
Int1d	Obcp (description="OBCP", quantity="none")
Int1d	DMSActive (description="Dec Mec Sequence Active", quantity="none")
Int1d	ChopperPlateau (description="Chopper Plateau", quantity="none")
Int1d	CalSource (description="Calibration Source", quantity="none")
Int1d	Filter (description="Filter", quantity="none")
Int1d	StartIdx (description="Start Index", quantity="none")
Int1d	EndIdx (description="End Index (NOT INCLUSIVE)", quantity="none")
Int1d	NrIdx (description="Number of Indexes", quantity="none")
Double1d	Raster (description="Raster Position", quantity="none")
String1d	Id (description="Block ID", quantity="none")
String1d	Description (description="Verbose Description", quantity="none")
Int1d	OnSource (description="On-Source Label", quantity="none")
Int1d	OffSource1 (description="First Off-Source Label", quantity="none")
Int1d	OffSource2 (description="Second Off-Source Label", quantity="none")

Int1d	NoddingPosition (description="Nodding position (0 = None, 1 = A, 2 = B)", quantity="none")
Int1d	NodCycleNum (description="Nodding cycle number", quantity="none")
Int1d	RasterColumnNum (description="Raster column number", quantity="none")
Int1d	RasterLineNum (description="Raster line number", quantity="none")
Int1d	NrAvg (description="Average number", quantity="none")
array dataset	*(description="null")*
Metadata	
Bool2d	(description="null", quantity="none")
composite	*(description="Mask data stored in bit encoded arrays")*
Metadata	
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")
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")

9.2.3. HPPPSCBS: PsCoordinates

product (type="HPPPSCBS", description="PsCoordinates")	
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	formatVersion (description="Version of product format")

table dataset	*(description="PhotPointSource")*
Metadata	
Double1d	RaArray (description="null", quantity="none")
Double1d	DecArray (description="null", quantity="none")
Double1d	PaArray (description="null", quantity="none")
Int1d	CPR (description="null", quantity="none")
Int1d	DithPos (description="null", quantity="none")
Long1d	NodCycleNum (description="null", quantity="none")
Int1d	ChopperPlateau (description="null", quantity="none")
Int1d	isAPosition (description="null", quantity="none")

9.2.4. HPPPSCRS: PsCoordinates

product (type="HPPPSCRS", description="PsCoordinates")	
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	formatVersion (description="Version of product format")
table dataset	*(description="PhotPointSource")*
Metadata	
Double1d	RaArray (description="null", quantity="none")
Double1d	DecArray (description="null", quantity="none")
Double1d	PaArray (description="null", quantity="none")
Int1d	CPR (description="null", quantity="none")
Int1d	DithPos (description="null", quantity="none")
Long1d	NodCycleNum (description="null", quantity="none")
Int1d	ChopperPlateau (description="null", quantity="none")
Int1d	isAPosition (description="null", quantity="none")

9.3. PACS Photometry Level-2 Products

9.3.1. HPPDMAPBS: Photometer PointSource Product Blue Bolometer

product (type="HPPDMAPBS", description="Pacs Photometer PointSource Product")

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="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	formatVersion (description="Version of product format")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken")
array dataset	*(description="Image")*
Metadata	
LongParameter	naxis1 (description="null")
LongParameter	naxis2 (description="null")
Double2d	(description="Image", quantity="")
array dataset	*(description="noise")*
Metadata	
Double3d	(description="null", quantity="none")
composite	*(description="History of product")*
Metadata	
table dataset	*(description="History as Jython script")*
Metadata	
StringParameter	outvar (description="last output variable")
String1d	Lines (description="script lines", quantity="none")
table dataset	*(description="History of tasks")*
Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*

Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")
String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

9.3.2. HPPDMAPRS: Photometer PointSource Product Red Bolometer

product (type="HPPDMAPRS", description="Pacs Photometer PointSource Product")	
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="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	formatVersion (description="Version of product format")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken")
array dataset	*(description="Image")*
Metadata	
LongParameter	naxis1 (description="null")
LongParameter	naxis2 (description="null")

Double2d	(description="Image", quantity="")
array dataset	*(description="noise")*
Metadata	
Double3d	(description="noise", quantity="none")
composite	*(description="History of product")*
Metadata	
table dataset	*(description="History as Jython script")*
Metadata	
StringParameter	outvar (description="last output variable")
String1d	Lines (description="script lines", quantity="none")
table dataset	*(description="History of tasks")*
Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")
String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

9.3.3. HPPPMAPBS: Photometer PointSource Product with Astrometry Blue Bolometer

product (type="HPPPMAPBS", description="Pacs Photometer PointSource Product with Astrometry")	
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="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	formatVersion (description="Version of product format")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken")
array dataset	*(description="Image")*
Metadata	
LongParameter	naxis1 (description="null")
LongParameter	naxis2 (description="null")
Double2d	(description="Image", quantity="")
array dataset	*(description="coverage")*
Metadata	
Double2d	(description="coverage", quantity="none")
composite	*(description="History of product")*
Metadata	
table dataset	*(description="History as Jython script")*
Metadata	
StringParameter	outvar (description="last output variable")
String1d	Lines (description="script lines", quantity="none")
table dataset	*(description="History of tasks")*
Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")

String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")
String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

9.3.4. HPPPMAPRS: Photometer PointSource Product with Astrometry Red Bolometer

product (type="HPPPMAPRS", description="Pacs Photometer PointSource Product with Astrometry")	
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="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	formatVersion (description="Version of product format")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken")
array dataset	*(description="Image")*
Metadata	
LongParameter	naxis1 (description="null")
LongParameter	naxis2 (description="null")
Double2d	(description="Image", quantity="")
	(description="coverage")

array dataset								
Metadata								
Double2d	(description="coverage", quantity="none")							
composite	*(description="History of product")*							
Metadata								
table dataset	*(description="History as Jython script")*							
Metadata								
StringParameter	outvar (description="last output variable")							
String1d	Lines (description="script lines", quantity="none")							
table dataset	*(description="History of tasks")*							
Metadata								
Long1d	ID (description="Links the parameter and task table", quantity="none")							
String1d	Name (description="The name of the task", quantity="none")							
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")							
String1d	BuildVersion (description="The used HCSS build", quantity="none")							
table dataset	*(description="The parameters belonging to the task history")*							
Metadata								
Long1d	TaskID (description="Links the parameter and task table", quantity="none")							
String1d	Name (description="The name of the parameter", quantity="none")							
String1d	Type (description="Type of parameter", quantity="none")							
String1d	Value (description="String representation of the parameter value", quantity="none")							
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")							
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")							
Bool1d	UserInput (description="Needs user input", quantity="none")							
String1d	Class (description="Class of the parameter", quantity="none")							
String1d	ProductType (description="Product Type for History", quantity="none")							
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")							

9.3.5. HPPMMAPBS: Photometer Mad Map Blue Bolometer

product (type="HPPMMAPBS", description="MadMap")	
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	formatVersion (description="Version of product format")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken")
array dataset	*(description="Image")*
Metadata	
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR"")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR"")
DoubleParameter	crota2 (description="The Rotation angle")
DoubleParameter	epoch (description="WCS: Epoch, unit=Duration")
LongParameter	naxis1 (description="null")
LongParameter	naxis2 (description="null")
Double2d	(description="Image", quantity="")
array dataset	*(description="Error map, definition TBD")*
Metadata	
Double2d	(description="Error map, definition TBD", quantity="")
array dataset	*(description="Coverage map")*

Metadata	
Double2d	(description="Coverage map", quantity="s")
composite	*(description="History of product")*
Metadata	
table dataset	*(description="History as Jython script")*
Metadata	
StringParameter	outvar (description="last output variable")
String1d	Lines (description="script lines", quantity="none")
table dataset	*(description="History of tasks")*
Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")
String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

9.3.6. HPPMMAPRS: Photometer Mad Map Red Bolometer

product (type="HPPMMAPRS", description="MadMap")	
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	formatVersion (description="Version of product format")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken")
array dataset	*(description="Image")*
Metadata	
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR"")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR"")
DoubleParameter	crota2 (description="The Rotation angle")
DoubleParameter	epoch (description="WCS: Epoch, unit=Duration")
LongParameter	naxis1 (description="null")
LongParameter	naxis2 (description="null")
Double2d	(description="Image", quantity="")
array dataset	*(description="Error map, definition TBD")*
Metadata	
Double2d	(description="Error map, definition TBD", quantity="")
array dataset	*(description="Coverage map")*
Metadata	
Double2d	(description="Coverage map", quantity="s")

composite	*(description="History of product")*
Metadata	
table dataset	*(description="History as Jython script")*
Metadata	
StringParameter	outvar (description="last output variable")
String1d	Lines (description="script lines", quantity="none")
table dataset	*(description="History of tasks")*
Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")
String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

9.3.7. HPPNMAPBS: Photometer Naive Map Blue Bolometer

product (type="HPPNMAPBS", description="NaiveMap")	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
	description (description="Name of this product")

StringParameter	
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	formatVersion (description="Version of product format")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken")
array dataset	*(description="Image")*
Metadata	
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR"")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR"")
DoubleParameter	crota2 (description="The Rotation angle")
DoubleParameter	epoch (description="WCS: Epoch, unit=Duration")
LongParameter	naxis1 (description="null")
LongParameter	naxis2 (description="null")
Double2d	(description="Image", quantity="")
array dataset	*(description="Error map, definition TBD")*
Metadata	
Double2d	(description="Error map, definition TBD", quantity="")
array dataset	*(description="Coverage map")*
Metadata	
Double2d	(description="Coverage map", quantity="s")

composite	*(description="History of product")*
Metadata	
table dataset	*(description="History as Jython script")*
Metadata	
StringParameter	outvar (description="last output variable")
String1d	Lines (description="script lines", quantity="none")
table dataset	*(description="History of tasks")*
Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")
String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

9.3.8. HPPNMAPRS: Photometer Naive Map Red Bolometer

product (type="HPPNMAPRS", description="NaiveMap")	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
	description (description="Name of this product")

StringParameter	
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	formatVersion (description="Version of product format")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken")
array dataset	*(description="Image")*
Metadata	
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR"")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR"")
DoubleParameter	crota2 (description="The Rotation angle")
DoubleParameter	epoch (description="WCS: Epoch, unit=Duration")
LongParameter	naxis1 (description="null")
LongParameter	naxis2 (description="null")
Double2d	(description="Image", quantity="")
array dataset	*(description="Error map, definition TBD")*
Metadata	
Double2d	(description="Error map, definition TBD", quantity="")
array dataset	*(description="Coverage map")*
Metadata	
Double2d	(description="Coverage map", quantity="s")

composite	*(description="History of product")*
Metadata	
table dataset	*(description="History as Jython script")*
Metadata	
StringParameter	outvar (description="last output variable")
String1d	Lines (description="script lines", quantity="none")
table dataset	*(description="History of tasks")*
Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")
String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

9.3.9. HPPPMAPBS: Photometer PhotProject MAP Blue Bolometer

product (type="HPPPMAPBS", description="Unknown")	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
	description (description="Name of this product")

StringParameter	
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	formatVersion (description="Version of product format")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken")
array dataset	*(description="Image")*
Metadata	
StringParameter	cunit1 (description="WCS: Unit axis 1, default="""")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="""")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
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")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR"")
StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR"")
StringParameter	flipy (description="FLIPY parameter ensures North to be displayed upwards in Display")
LongParameter	naxis1 (description="null")
LongParameter	naxis2 (description="null")
Double2d	(description="Image", quantity="")
array dataset	*(description="Statistical error on the pixel values")*
Metadata	
StringParameter	Description (description="null")

Double2d	(description="Statistical error on the pixel values", quantity="")
array dataset	*(description="Exposure")*
Metadata	
StringParameter	Description (description="null")
Double2d	(description="Exposure", quantity="s")
array dataset	*(description="null")*
Metadata	
StringParameter	Description (description="null")
Double2d	(description="null", quantity="none")
composite	*(description="History of product")*
Metadata	
table dataset	*(description="History as Jython script")*
Metadata	
StringParameter	outvar (description="last output variable")
String1d	Lines (description="script lines", quantity="none")
table dataset	*(description="History of tasks")*
Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")
String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

9.3.10. HPPPMAPRS: Photometer PhotProject MAP Red Bolometer

product (type="HPPPMAPRS", description="Unknown")	
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	formatVersion (description="Version of product format")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken")
array dataset	*(description="Image")*
Metadata	
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
DoubleParameter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParameter	cdelt2 (description="WCS: Pixel scale axis 2, unit=Angle")
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")
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
StringParameter	ctype1 (description="WCS: Projection type axis 1, default="LINEAR"")

StringParameter	ctype2 (description="WCS: Projection type axis 2, default="LINEAR"")
StringParameter	flipy (description="FLIPY parameter ensures North to be displayed upwards in Display")
LongParameter	naxis1 (description="null")
LongParameter	naxis2 (description="null")
Double2d	(description="Image", quantity="")
array dataset	*(description="Statistical error on the pixel values")*
Metadata	
StringParameter	Description (description="null")
Double2d	(description="Statistical error on the pixel values", quantity="")
array dataset	*(description="Exposure")*
Metadata	
StringParameter	Description (description="null")
Double2d	(description="Exposure", quantity="s")
array dataset	*(description="null")*
Metadata	
StringParameter	Description (description="null")
Double2d	(description="null", quantity="none")
composite	*(description="History of product")*
Metadata	
table dataset	*(description="History as Jython script")*
Metadata	
StringParameter	outvar (description="last output variable")
String1d	Lines (description="script lines", quantity="none")
table dataset	*(description="History of tasks")*
Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")

String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")
String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

9.4. PACS Spectroscopy Level-0 and Level-0.5 Products

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

product (type="HPSRAWBS", description="Raw Ramps. Readouts stored in a TableDataset.")	
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	formatVersion (description="Version of product format")
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")
LongParameter	Obsid (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")
LongParameter	qflag_pacs_spec_red_FailedSPUBuffer (description="null")
LongParameter	qflag_pacs_spec_blue_FailedSPUBuffer (description="null")
DoubleParameter	chopAvoidFrom (description="ObservationParameter")
DoubleParameter	chopAvoidTo (description="ObservationParameter")
BooleanParameter	chopNod (description="ObservationParameter")
DoubleParameter	dec (description="ObservationParameter")
DoubleParameter	decoff (description="ObservationParameter")
BooleanParameter	doSlewScience (description="ObservationParameter")
BooleanParameter	faintLines (description="ObservationParameter")
StringParameter	fluxUnit (description="ObservationParameter")
StringParameter	lWave (description="ObservationParameter")
StringParameter	lcontFlux (description="ObservationParameter")
StringParameter	lineFlux (description="ObservationParameter")
StringParameter	lineId (description="ObservationParameter")
DoubleParameter	lineStep (description="ObservationParameter")
StringParameter	lineWidth (description="ObservationParameter")
StringParameter	lines (description="ObservationParameter")
LongParameter	m (description="ObservationParameter")
DoubleParameter	mapRasterAngle (description="ObservationParameter")
LongParameter	n (description="ObservationParameter")
LongParameter	naifid (description="ObservationParameter")
LongParameter	obsOverhead (description="ObservationParameter")
StringParameter	orderSel (description="ObservationParameter")
DoubleParameter	pointStep (description="ObservationParameter")
DoubleParameter	ra (description="ObservationParameter")
DoubleParameter	raoff (description="ObservationParameter")
StringParameter	redshiftType (description="ObservationParameter")
DoubleParameter	redshiftValue (description="ObservationParameter")
BooleanParameter	refSelected (description="ObservationParameter")
StringParameter	repeatLine (description="ObservationParameter")
StringParameter	source (description="ObservationParameter")
StringParameter	throw (description="ObservationParameter")
LongParameter	userNODcycles (description="ObservationParameter")
StringParameter	widthUnit (description="ObservationParameter")
StringParameter	fileName (description="null")

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

Int2d	WASWITCHPOS (description="Give wavelength switch position (0,1,2)", quantity="none")
Int2d	PIX (description="PIX counter for synchronisation to SPU housekeeping (CompressedEntHeader", quantity="none")
Int2d	RCX (description="Raw Channel Index in CompressedEntHeader", quantity="none")
Int2d	RESETCNT (description="Reset counter to identify frames belonging to a", quantity="none")
Int1d	BLOCKIDX (description="Reference to the BlockTable entry", quantity="none")

composite	*(description="Mask data stored in a table")*
Metadata	
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")

table dataset	*(description="Mask data stored bit encoded in a table")*
Metadata	
Int1d	detnum (description="null", quantity="none")
Int1d	row (description="null", quantity="none")
Int1d	column (description="null", quantity="none")
Int1d	reset (description="null", quantity="none")
Int2d	BLINDPIXELS (description="2 D Mask. \u000AMask that flags the blind pixel", quantity="none")

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

product (type="HPSRAWRS", description="Raw Ramps. Readouts stored in a TableDataset.")	
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	formatVersion (description="Version of product format")
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")
LongParameter	Obsid (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")
LongParameter	qflag_pacs_spec_red_FailedSPUBuffer (description="null")
LongParameter	qflag_pacs_spec_blue_FailedSPUBuffer (description="null")
StringParameter	fileName (description="null")
table dataset	*(description="Table for science data.")*
Metadata	
Int1d	detnum (description="null", quantity="none")
Int1d	row (description="null", quantity="none")
Int1d	column (description="null", quantity="none")
Int1d	reset (description="null", quantity="none")
Double2d	readouts (description="null", quantity="none")
table dataset	*(description="Status")*
Metadata	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
Int1d	RESETINDEX (description="Indicates the reset index of the status parameter", quantity="none")
Long1d	OBSID (description="Identifier of the observation", quantity="none")
Int1d	BBID (description="Building block type", quantity="none")
Int2d	LBL (description="Label", quantity="none")
Int2d	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
Int2d	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
Long2d	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
Bool2d	VLD (description="Validity flag set by DecMec", quantity="none")
Int2d	CPR (description="Chopper position", quantity="none")

					Int2d	WPR (description="Filter wheel Position", quantity="none")
					Int2d	GPR (description="Grating Position", quantity="none")
					Int2d	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
					Int2d	RRR (description="Readouts in Ramp", quantity="none")
					Int2d	CRDC (description="Current Readout counter since last time reset", quantity="none")
					Int2d	CRECR (description="CRE status word", quantity="none")
					Bool2d	DMCSEQACTIVE (description="Indicates if a DMC sequence executing", quantity="none")
					Int2d	CHOPPERPLATEAU (description="Indicates the chopper plateau within a sequence", quantity="none")
					Int2d	CALSOURCE (description="Chopper on Calibration source 1, 2 or off (0)", quantity="none")
					Int2d	SCANDIR (description="Scan Direction", quantity="none")
					Bool2d	WASWITCH (description="Indicates that we are in Wavelength switching", quantity="none")
					Int2d	WASWITCHPOS (description="Give wavelength switch position (0,1,2)", quantity="none")
					Int2d	PIX (description="PIX counter for synchronisation to SPU housekeeping (CompressedEntHeader", quantity="none")
					Int2d	RCX (description="Raw Channel Index in CompressedEntHeader", quantity="none")
					Int2d	RESETCNT (description="Reset counter to identify frames belonging to a", quantity="none")
					Int1d	BLOCKIDX (description="Reference to the BlockTable entry", quantity="none")
				composite	*(description="Mask data stored in a table")*	
				Metadata		
				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")	
				table dataset	*(description="Mask data stored bit encoded in a table")*	
				Metadata		
					Int1d	detnum (description="null", quantity="none")
					Int1d	row (description="null", quantity="none")
					Int1d	column (description="null", quantity="none")
					Int1d	reset (description="null", quantity="none")
					Int2d	BLINDPIXELS (description="2 D Mask. \u000AMask that flags the blind pixel", quantity="none")

9.4.3. HPSFITBS: Frames Blue

product (type="HPSFITBS", description="Frames")	
Meta-data	
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	formatVersion (description="Version of product format")
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")
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")
	qflag_pacs_spec_red_FailedSPUBuffer (description="null")

LongParameter	
LongParameter	qflag_pacs_spec_blue_FailedSPUBuffer (description="null")
DoubleParameter	chopAvoidFrom (description="ObservationParameter")
DoubleParameter	chopAvoidTo (description="ObservationParameter")
BooleanParameter	chopNod (description="ObservationParameter")
DoubleParameter	dec (description="ObservationParameter")
DoubleParameter	decoff (description="ObservationParameter")
BooleanParameter	doSlewScience (description="ObservationParameter")
BooleanParameter	faintLines (description="ObservationParameter")
StringParameter	fluxUnit (description="ObservationParameter")
StringParameter	lWave (description="ObservationParameter")
StringParameter	lcontFlux (description="ObservationParameter")
StringParameter	lineFlux (description="ObservationParameter")
StringParameter	lineId (description="ObservationParameter")
DoubleParameter	lineStep (description="ObservationParameter")
StringParameter	lineWidth (description="ObservationParameter")
StringParameter	lines (description="ObservationParameter")
LongParameter	m (description="ObservationParameter")
DoubleParameter	mapRasterAngle (description="ObservationParameter")
LongParameter	n (description="ObservationParameter")
LongParameter	naifid (description="ObservationParameter")
LongParameter	obsOverhead (description="ObservationParameter")
StringParameter	orderSel (description="ObservationParameter")
DoubleParameter	pointStep (description="ObservationParameter")

DoubleParameter	ra (description="ObservationParameter")
DoubleParameter	raoff (description="ObservationParameter")
StringParameter	redshiftType (description="ObservationParameter")
DoubleParameter	redshiftValue (description="ObservationParameter")
BooleanParameter	refSelected (description="ObservationParameter")
StringParameter	repeatLine (description="ObservationParameter")
StringParameter	source (description="ObservationParameter")
StringParameter	throw (description="ObservationParameter")
LongParameter	userNODcycles (description="ObservationParameter")
StringParameter	widthUnit (description="ObservationParameter")
StringParameter	fileName (description="null")
StringParameter	camera_signature (description="null")
array dataset	*(description="null")*
Metadata	
Double3d	(description="null", quantity="none")
table dataset	*(description="Status")*
Metadata	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
Int1d	RESETINDEX (description="Indicates the reset index of the status paramet", quantity="none")
Long1d	OBSID (description="Identifier of the observation", quantity="none")
Long1d	BBID (description="Building block type", quantity="none")
Int1d	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
Int1d	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
Long1d	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
Int1d	VLD (description="Validity flag set by DecMec", quantity="none")
Int1d	CPR (description="Chopper position", quantity="none")

Int1d	WPR (description="Filter wheel Position", quantity="none")
Int1d	GPR (description="Grating Position", quantity="none")
Int1d	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
Int1d	RRR (description="Readouts in Ramp", quantity="none")
Int1d	CRDC (description="Current Readout counter since last time reset", quantity="none")
Int1d	CRECR (description="CRE status word", quantity="none")
Bool1d	DMCSEQACTIVE (description="Indicates if a DMC sequence executing", quantity="none")
Int1d	CHOPPERPLATEAU (description="Indicates the chopper plateau within a sequence", quantity="none")
Int1d	CALSOURCE (description="Chopper on Calibration source 1, 2 or off (0)", quantity="none")
Int1d	SCANDIR (description="Scan Direction", quantity="none")
Bool1d	WASWITCH (description="Indicates that we are in Wavelength switching", quantity="none")
Int1d	WASWITCHPOS (description="Give wavelength switch position (0,1,2)", quantity="none")
Int1d	PIX (description="PIX counter for synchronisation to SPU housekeeping (CompressedEntHeader", quantity="none")
Int1d	RCX (description="Raw Channel Index in CompressedEntHeader", quantity="none")
Int1d	RESETCNT (description="Reset counter to identify frames belonging to a", quantity="none")
Int1d	BLOCKIDX (description="Reference to the BlockTable entry", quantity="none")
String1d	BAND (description="Wavelength Band", quantity="none")
Int1d	BBTYPE (description="Building Block Type", quantity="none")
Int1d	BBSEQCNT (description="Building Block Sequence Count", quantity="none")
Int1d	DP_WHICH_OBCP (description="OBCP Number", quantity="none")
Bool1d	RAWSAT (description="saturation flag of raw ramps", quantity="none")
Double1d	RaArray (description="RA", quantity="none")
Double1d	DecArray (description="Declination", quantity="none")
Double1d	PaArray (description="Position Angle", quantity="none")
Double1d	RaArrayErr (description="RA Eror", quantity="none")
Double1d	DecArrayErr (description="Declination Error", quantity="none")
Double1d	PaArrayErr (description="Position Angle Error", quantity="none")
String1d	Mode (description="Pointing Mode", quantity="none")
Long1d	RasterLineNum (description="Pointing Raster Line Number", quantity="none")
Long1d	RasterColumnNum (description="Pointing Raster Column Number", quantity="none")
Long1d	NodCycleNum (description="Pointing Nod Cycle Number", quantity="none")
Bool1d	OnTarget (description="On Target flag", quantity="none")
Bool1d	AbPosId (description="onRaster and offRaster Nod information", quantity="none")
Bool1d	IsSlew (description="Slew of the Sattelite", quantity="none")

Bool1d	IsOffPos (description="Off Position flag", quantity="none")
Long1d	ScanLineNumber (description="Scan Line number", quantity="none")
String1d	AcmsMode (description="ACMS mode", quantity="none")
String1d	Aperture (description="Aperture", quantity="none")
Bool1d	IsAPosition (description="is A position", quantity="none")
Bool1d	IsBPosition (description="is B position", quantity="none")
Bool1d	IsOutOfField (description="Is Out of Field", quantity="none")
Bool1d	IsSerendipity (description="is serendipity mode", quantity="none")
Int1d	RollArray (description="roll", quantity="none")
Double1d	CHOPFPUANGLE (description="chopper angle in degrees wrt. FPU", quantity="none")
Double1d	CHOPSKYANGLE (description="chopper angle in arc mins wrt. sky", quantity="none")
Double1d	VSC (description="S/C Velocity (positive means moving towards sou", quantity="km/s [1000.0 m/s]")
Int1d	GRATSCAN (description="counter of grating scans", quantity="none")
Int1d	CHOPPER (description="or combination of CHOPPERPLATEAU and CAL-SOURCE", quantity="none")
String1d	CHOPPOS (description="verbal description of chopper position from cal", quantity="none")
Int2d	LBL2 (description="Merged labels from ON/OFF data", quantity="none")
Int1d	OFF_RESETIDX (description="Reset indices of the used off-source frames", quantity="none")

array dataset	*(description="null")*

Metadata	
Double3d	(description="null", quantity="none")

table dataset	*(description="BlockTable")*

Metadata	
StringParameter	MODE (description="PACS Mode")
Int1d	Obcp (description="OBCP", quantity="none")
Int1d	DMSActive (description="Dec Mec Sequence Active", quantity="none")
Int1d	ChopperPlateau (description="Chopper Plateau", quantity="none")
Int1d	CalSource (description="Calibration Source", quantity="none")
Int1d	Filter (description="Filter", quantity="none")
Int1d	StartIdx (description="Start Index", quantity="none")
Int1d	EndIdx (description="End Index (NOT INCLUSIVE)", quantity="none")
Int1d	NrIdx (description="Number of Indexes", quantity="none")
Double1d	Raster (description="Raster Position", quantity="none")
String1d	Id (description="Block ID", quantity="none")
String1d	Description (description="Verbose Description", quantity="none")
Int1d	OnSource (description="On-Source Label", quantity="none")

Int1d	OffSource1 (description="First Off-Source Label", quantity="none")
Int1d	OffSource2 (description="Second Off-Source Label", quantity="none")
Int1d	NoddingPosition (description="Nodding position (0 = None, 1 = A, 2 = B)", quantity="none")
Int1d	NodCycleNum (description="Nodding cycle number", quantity="none")
Int1d	RasterColumnNum (description="Raster column number", quantity="none")
Int1d	RasterLineNum (description="Raster line number", quantity="none")
Int1d	ScanDir (description="Scan Direction", quantity="none")
Int1d	WaSwitch (description="Wavelength switch active", quantity="none")
Int1d	GPRMin (description="Minimum grating position", quantity="none")
Int1d	GPRMax (description="Maximum grating position", quantity="none")
Int1d	ResLen (description="Reset length", quantity="none")
Int1d	LineId (description="Line Index as determined from grating position", quantity="none")
array dataset	*(description="null")*
Metadata	
Bool2d	(description="null", quantity="none")
composite	*(description="Mask data stored in bit encoded arrays")*
Metadata	
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")
array dataset	*(description="Mask that flags the blind pixels This masks processing status")*
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 This masks processing status", quantity="none")
array dataset	*(description="warning on high signals, possible saturation This masks proce")*
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="warning on high signals, possible saturation This masks proce", quantity="none")
array dataset	*(description="Bad pixels This masks processing status is "activated".")*
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 This masks processing status is "activated".", quantity="none")
array dataset	*(description="frames that are affected by the chopper transitions This mask")*
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 This mask", quantity="none")
array dataset	*(description="frames that are affected by the grating movements This 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="frames that are affected by the grating movements This masks ", quantity="none")
array dataset	*(description="glitches, Responsivity Jumps This masks processing status is ")*
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="glitches, Responsivity Jumps This masks processing status is ", 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="none")
composite	*(description="History of product")*
Metadata	

table dataset	*(description="History as Jython script")*
Metadata	
StringParameter	outvar (description="last output variable")
String1d	Lines (description="script lines", quantity="none")
table dataset	*(description="History of tasks")*
Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")
String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

9.4.4. HPSFITRS: Frames Red

product (type="HPSFITRS", description="Frames")	
Meta-data	
StringPa-rameter	type (description="Product Type Identification")
StringPa-rameter	creator (description="Generator of this product")
DateParam-eter	creationDate (description="Creation date of this product")
StringPa-rameter	description (description="Name of this product")
StringPa-rameter	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	formatVersion (description="Version of product format")
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_spec_red_FailedSPUBuffer (description="null")
LongParameter	qflag_pacs_spec_blue_FailedSPUBuffer (description="null")
StringParameter	fileName (description="null")
StringParameter	camera_signature (description="null")
array dataset	*(description="null")*
Metadata	
Double3d	(description="null", quantity="none")
table dataset	*(description="Status")*
Metadata	
StringParameter	MODE (description="null")

LongParameter	DIM1 (description="Number of measures per status parameter")
Int1d	RESETINDEX (description="Indicates the reset index of the status paramet", quantity="none")
Long1d	OBSID (description="Identifier of the observation", quantity="none")
Long1d	BBID (description="Building block type", quantity="none")
Int1d	LBL (description="Label", quantity="none")
Int1d	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
Int1d	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
Long1d	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
Int1d	VLD (description="Validity flag set by DecMec", quantity="none")
Int1d	CPR (description="Chopper position", quantity="none")
Int1d	WPR (description="Filter wheel Position", quantity="none")
Int1d	GPR (description="Grating Position", quantity="none")
Int1d	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
Int1d	RRR (description="Readouts in Ramp", quantity="none")
Int1d	CRDC (description="Current Readout counter since last time reset", quantity="none")
Int1d	CRECR (description="CRE status word", quantity="none")
Bool1d	DMCSEQACTIVE (description="Indicates if a DMC sequence executing", quantity="none")
Int1d	CHOPPERPLATEAU (description="Indicates the chopper plateau within a sequence", quantity="none")
Int1d	CALSOURCE (description="Chopper on Calibration source 1, 2 or off (0)", quantity="none")
Int1d	SCANDIR (description="Scan Direction", quantity="none")
Bool1d	WASWITCH (description="Indicates that we are in Wavelength switching", quantity="none")
Int1d	WASWITCHPOS (description="Give wavelength switch position (0,1,2)", quantity="none")
Int1d	PIX (description="PIX counter for synchronisation to SPU housekeeping (CompressedEntHeader", quantity="none")
Int1d	RCX (description="Raw Channel Index in CompressedEntHeader", quantity="none")
Int1d	RESETCNT (description="Reset counter to identify frames belonging to a", quantity="none")
Int1d	BLOCKIDX (description="Reference to the BlockTable entry", quantity="none")
String1d	BAND (description="Wavelength Band", quantity="none")
Int1d	BBTYPE (description="Building Block Type", quantity="none")
Int1d	BBSEQCNT (description="Building Block Sequence Count", quantity="none")
Int1d	DP_WHICH_OBCP (description="OBCP Number", quantity="none")
Bool1d	RAWSAT (description="saturation flag of raw ramps", quantity="none")
Double1d	RaArray (description="RA", quantity="none")

Double1d	DecArray (description="Declination", quantity="none")
Double1d	PaArray (description="Position Angle", quantity="none")
Double1d	RaArrayErr (description="RA Eror", quantity="none")
Double1d	DecArrayErr (description="Declination Error", quantity="none")
Double1d	PaArrayErr (description="Position Angle Error", quantity="none")
String1d	Mode (description="Pointing Mode", quantity="none")
Long1d	RasterLineNum (description="Pointing Raster Line Number", quantity="none")
Long1d	RasterColumnNum (description="Pointing Raster Column Number", quantity="none")
Long1d	NodCycleNum (description="Pointing Nod Cycle Number", quantity="none")
Bool1d	OnTarget (description="On Target flag", quantity="none")
Bool1d	AbPosId (description="onRaster and offRaster Nod information", quantity="none")
Bool1d	IsSlew (description="Slew of the Sattelite", quantity="none")
Bool1d	IsOffPos (description="Off Position flag", quantity="none")
Long1d	ScanLineNumber (description="Scan Line number", quantity="none")
String1d	AcmsMode (description="ACMS mode", quantity="none")
String1d	Aperture (description="Aperture", quantity="none")
Bool1d	IsAPosition (description="is A position", quantity="none")
Bool1d	IsBPosition (description="is B position", quantity="none")
Bool1d	IsOutOfField (description="Is Out of Field", quantity="none")
Bool1d	IsSerendipity (description="is serendipity mode", quantity="none")
Int1d	RollArray (description="roll", quantity="none")
Double1d	CHOPFPUANGLE (description="chopper angle in degrees wrt. FPU", quantity="none")
Double1d	CHOPSKYANGLE (description="chopper angle in arc mins wrt. sky", quantity="none")
Double1d	VSC (description="S/C Velocity (positive means moving towards sou", quantity="km/s [1000.0 m/s]")
Int1d	GRATSCAN (description="counter of grating scans", quantity="none")
Int1d	CHOPPER (description="or combination of CHOPPERPLATEAU and CAL-SOURCE", quantity="none")
String1d	CHOPPOS (description="verbal description of chopper position from cal", quantity="none")
array dataset	*(description="null")*
Metadata	
Double3d	(description="null", quantity="none")
table dataset	*(description="BlockTable")*
Metadata	
StringParameter	MODE (description="PACS Mode")
Int1d	Obcp (description="OBCP", quantity="none")
Int1d	DMSActive (description="Dec Mec Sequence Active", quantity="none")

Int1d	ChopperPlateau (description="Chopper Plateau", quantity="none")
Int1d	CalSource (description="Calibration Source", quantity="none")
Int1d	Filter (description="Filter", quantity="none")
Int1d	StartIdx (description="Start Index", quantity="none")
Int1d	EndIdx (description="End Index (NOT INCLUSIVE)", quantity="none")
Int1d	NrIdx (description="Number of Indexes", quantity="none")
Double1d	Raster (description="Raster Position", quantity="none")
String1d	Id (description="Block ID", quantity="none")
String1d	Description (description="Verbose Description", quantity="none")
Int1d	OnSource (description="On-Source Label", quantity="none")
Int1d	OffSource1 (description="First Off-Source Label", quantity="none")
Int1d	OffSource2 (description="Second Off-Source Label", quantity="none")
Int1d	NoddingPosition (description="Nodding position (0 = None, 1 = A, 2 = B)", quantity="none")
Int1d	NodCycleNum (description="Nodding cycle number", quantity="none")
Int1d	RasterColumnNum (description="Raster column number", quantity="none")
Int1d	RasterLineNum (description="Raster line number", quantity="none")
Int1d	ScanDir (description="Scan Direction", quantity="none")
Int1d	WaSwitch (description="Wavelength switch active", quantity="none")
Int1d	GPRMin (description="Minimum grating position", quantity="none")
Int1d	GPRMax (description="Maximum grating position", quantity="none")
Int1d	ResLen (description="Reset length", quantity="none")
Int1d	LineId (description="Line Index as determined from grating position", quantity="none")
array dataset	*(description="null")*
Metadata	
Bool2d	(description="null", quantity="none")
com-posite	*(description="Mask data stored in bit encoded arrays")*
Metadata	
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")
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="warning on high signals, possible saturation")*
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="warning on high signals, possible saturation", 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="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="frames that are affected by the grating movements")*
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 grating movements", quantity="none")
array dataset	*(description="null")*

Metadata	
Double3d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double3d	(description="null", quantity="none")

9.4.5. HPSDMCBS: Raw DecMec Status Blue

product (type="HPSDMCBS", description="Unknown")	
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	formatVersion (description="Version of product format")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
StringParameter	camName (description="Name of the Camera")
DoubleParameter	chopAvoidFrom (description="ObservationParameter")
DoubleParameter	chopAvoidTo (description="ObservationParameter")
BooleanParameter	chopNod (description="ObservationParameter")
DoubleParameter	dec (description="ObservationParameter")
DoubleParameter	decoff (description="ObservationParameter")
BooleanParameter	doSlewScience (description="ObservationParameter")
BooleanParameter	faintLines (description="ObservationParameter")
StringParameter	fluxUnit (description="ObservationParameter")
StringParameter	lWave (description="ObservationParameter")
StringParameter	lcontFlux (description="ObservationParameter")
StringParameter	lineFlux (description="ObservationParameter")
StringParameter	lineId (description="ObservationParameter")
DoubleParameter	lineStep (description="ObservationParameter")
StringParameter	lineWidth (description="ObservationParameter")
StringParameter	lines (description="ObservationParameter")
LongParameter	m (description="ObservationParameter")
DoubleParameter	mapRasterAngle (description="ObservationParameter")
LongParameter	n (description="ObservationParameter")
LongParameter	naifid (description="ObservationParameter")

LongParameter	obsOverhead (description="ObservationParameter")
StringParameter	orderSel (description="ObservationParameter")
DoubleParameter	pointStep (description="ObservationParameter")
DoubleParameter	ra (description="ObservationParameter")
DoubleParameter	raoff (description="ObservationParameter")
StringParameter	redshiftType (description="ObservationParameter")
DoubleParameter	redshiftValue (description="ObservationParameter")
BooleanParameter	refSelected (description="ObservationParameter")
StringParameter	repeatLine (description="ObservationParameter")
StringParameter	source (description="ObservationParameter")
StringParameter	throw (description="ObservationParameter")
LongParameter	userNODcycles (description="ObservationParameter")
StringParameter	widthUnit (description="ObservationParameter")
StringParameter	fileName (description="null")

table dataset	*(description="Status")*

Metadata	

StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
Int1d	RESETINDEX (description="Indicates the reset index of the status paramet", quantity="none")
Int1d	OBSID (description="Identifier of the observation", quantity="none")
Int1d	BBID (description="Building block type", quantity="none")
Int2d	LBL (description="Label", quantity="none")
Int2d	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
Int2d	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
Long2d	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
Int2d	VLD (description="Validity flag set by DecMec", quantity="none")
Int2d	CPR (description="Chopper position", quantity="none")
Int2d	WPR (description="Filter wheel Position", quantity="none")
Int2d	GPR (description="Grating Position", quantity="none")
Int2d	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
Int2d	RRR (description="Readouts in Ramp", quantity="none")
Int2d	CRDC (description="Current Readout counter since last time reset", quantity="none")
Int2d	CRECR (description="CRE status word", quantity="none")

9.4.6. HPSDMCRS: Raw DecMec Status Red

product (type="HPSDMCRS", description="Unknown")				
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	formatVersion (description="Version of product format")			
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")			
table dataset	*(description="Status")*			
Metadata				
StringParameter	MODE (description="null")			
LongParameter	DIM1 (description="Number of measures per status parameter")			
LongParameter	DIM2 (description="Number of measures per status parameter")			
Int1d	RESETINDEX (description="Indicates the reset index of the status paramet", quantity="none")			
Int1d	OBSID (description="Identifier of the observation", quantity="none")			
Int1d	BBID (description="Building block type", quantity="none")			
Int2d	LBL (description="Label", quantity="none")			
Int2d	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")			
Int2d	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")			
Long2d	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")			
Int2d	VLD (description="Validity flag set by DecMec", quantity="none")			
Int2d	CPR (description="Chopper position", quantity="none")			
Int2d	WPR (description="Filter wheel Position", quantity="none")			
Int2d	GPR (description="Grating Position", quantity="none")			
Int2d	CRCRMP (description="Readout counter within an integration ramp", quantity="none")			
Int2d	RRR (description="Readouts in Ramp", quantity="none")			
Int2d	CRDC (description="Current Readout counter since last time reset", quantity="none")			
Int2d	CRECR (description="CRE status word", quantity="none")			

9.4.7. HPSHK: Spectrometer Nominal Housekeeping

product (type="HPSHK", description="HPSHKS")	
Metadata	
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	formatVersion (description="Format Version of the Products")
StringParameter	fileName (description="null")
StringParameter	missionConfiguration (description="Mission Configuration")
LongParameter	obsid (description="Observation ID")
LongParameter	obsType (description="null")
LongParameter	obsCount (description="OBSID")
table dataset	*(description="Generated from PacketSequence $Revision: 1.4 $")*
Metadata	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
Long1d	Time (description="Time [microseconds]", quantity="microsecond [1.0E-6 s]")
Long1d	DM_DSIM_ERROR (description="DM_DSIM_ERROR [raw]", quantity="none")
String1d	DM_CS1C_SYNCHRO (description="DM_CS1C_SYNCHRO", quantity="none")
Long1d	DP_1_8_REJECTED (description="DP_1_8_REJECTED [raw]", quantity="none")
Long1d	SPL_PIX (description="SPL_PIX [raw]", quantity="none")
Long1d	DM_DECB_DCDC_T4 (description="DM_DECB_DCDC_T4 [raw]", quantity="none")
Double1d	DM_DECB_BR_CM_4 (description="DM_DECB_BR_CM_4 [eng, V]", quantity="none")
Long1d	SPS_LLC_ERROR (description="SPS_LLC_ERROR [raw]", quantity="none")
Double1d	DM_DECB_BR_CM_3 (description="DM_DECB_BR_CM_3 [eng, V]", quantity="none")
Double1d	DM_DECB_DCDC_T3 (description="DM_DECB_DCDC_T3 [eng, K]", quantity="none")
String1d	DP_DMC_CMD (description="DP_DMC_CMD", quantity="none")
String1d	DM_FPU_CH_TS_ST (description="DM_FPU_CH_TS_ST", quantity="none")
String1d	

	DM_FWSC_TASK_WR (description="DM_FWSC_TASK_WR", quantity="none")
Double1d	DM_DECB_AC_CUR (description="DM_DECB_AC_CUR [eng, mA]", quantity="none")
Long1d	DM_PM_SF_IND (description="DM_PM_SF_IND [raw]", quantity="none")
String1d	DM_CR4_ST_SEL (description="DM_CR4_ST_SEL", quantity="none")
String1d	DM_HKCO_TASK_AL (description="DM_HKCO_TASK_AL", quantity="none")
Double1d	BOL_TEMP_PSU_1 (description="BOL_TEMP_PSU_1 [eng, degC]", quantity="none")
Long1d	DM_DSIM_SPARE7 (description="DM_DSIM_SPARE7 [raw]", quantity="none")
Double1d	BOL_TEMP_PSU_2 (description="BOL_TEMP_PSU_2 [eng, degC]", quantity="none")
String1d	DM_BPE_LINK (description="DM_BPE_LINK", quantity="none")
Double1d	DM_DECR_VWELL_1 (description="DM_DECR_VWELL_1 [eng, V]", quantity="none")
String1d	DM_FWPC_POWER (description="DM_FWPC_POWER", quantity="none")
Double1d	DM_DECR_VWELL_2 (description="DM_DECR_VWELL_2 [eng, V]", quantity="none")
String1d	DM_FPU_FWS_TS_S (description="DM_FPU_FWS_TS_S", quantity="none")
String1d	DM_SEQ_IDLE (description="DM_SEQ_IDLE", quantity="none")
String1d	DM_DRC_TASK_AL (description="DM_DRC_TASK_AL", quantity="none")
String1d	DM_CS1C_POWER (description="DM_CS1C_POWER", quantity="none")
String1d	DM_HKD_ERR_NS (description="DM_HKD_ERR_NS", quantity="none")
Double1d	DM_DECB_VSS_4 (description="DM_DECB_VSS_4 [eng, V]", quantity="none")
Long1d	SPL_LLC_ERROR (description="SPL_LLC_ERROR [raw]", quantity="none")
Long1d	DM_DPU_SEN_STAT (description="DM_DPU_SEN_STAT [raw]", quantity="none")
Double1d	DM_DECB_VSS_3 (description="DM_DECB_VSS_3 [eng, V]", quantity="none")
String1d	DM_CR1_ST_SEL (description="DM_CR1_ST_SEL", quantity="none")
Long1d	DM_BOL_CTRL_STA (description="DM_BOL_CTRL_STA [raw]", quantity="none")
Double1d	BOL_TEMP_R_1 (description="BOL_TEMP_R_1 [eng, degC]", quantity="none")
Double1d	BOL_TEMP_R_2 (description="BOL_TEMP_R_2 [eng, degC]", quantity="none")

Double1d	BOL_TEMP_R_3 (description="BOL_TEMP_R_3 [eng, degC]", quantity="none")
Double1d	BOL_TEMP_R_4 (description="BOL_TEMP_R_4 [eng, degC]", quantity="none")
Long1d	DM_FWSC_ERROR (description="DM_FWSC_ERROR [raw]", quantity="none")
Double1d	BOL_TEMP_R_5 (description="BOL_TEMP_R_5 [eng, degC]", quantity="none")
Long1d	DM_GRAT_TARGET (description="DM_GRAT_TARGET [raw]", quantity="none")
String1d	DM_DSIM_TASK_AL (description="DM_DSIM_TASK_AL", quantity="none")
String1d	DP_DMC_HK (description="DP_DMC_HK", quantity="none")
Long1d	DM_SW_GLOBAL_ST (description="DM_SW_GLOBAL_ST [raw]", quantity="none")
Long1d	DM_BOL_REC_PAC (description="DM_BOL_REC_PAC [raw]", quantity="none")
Double1d	DM_DECR_TS_1_2 (description="DM_DECR_TS_1_2 [eng, K]", quantity="none")
Double1d	DM_DECR_TS_1_1 (description="DM_DECR_TS_1_1 [eng, K]", quantity="none")
Long1d	DM_GRAT_PID_ACC (description="DM_GRAT_PID_ACC [raw]", quantity="none")
Long1d	DM_CS2_CTRL_STA (description="DM_CS2_CTRL_STA [raw]", quantity="none")
Long1d	DM_LAST_ER_BF16 (description="DM_LAST_ER_BF16 [raw]", quantity="none")
Long1d	DM_LAST_ER_BF10 (description="DM_LAST_ER_BF10 [raw]", quantity="none")
Long1d	DM_LAST_ER_BF11 (description="DM_LAST_ER_BF11 [raw]", quantity="none")
Double1d	DM_REF_VOLT_5V (description="DM_REF_VOLT_5V [eng, V]", quantity="none")
Long1d	SPS_PIX (description="SPS_PIX [raw]", quantity="none")
Long1d	DM_GRAT_PID_ERR (description="DM_GRAT_PID_ERR [raw]", quantity="none")
String1d	DM_GC_HOM_PROG (description="DM_GC_HOM_PROG", quantity="none")
Long1d	DM_LAST_ER_BF14 (description="DM_LAST_ER_BF14 [raw]", quantity="none")
Long1d	DM_LAST_ER_BF15 (description="DM_LAST_ER_BF15 [raw]", quantity="none")
String1d	DM_CS1C_ERR_NS (description="DM_CS1C_ERR_NS", quantity="none")
Long1d	DM_LAST_ER_BF12 (description="DM_LAST_ER_BF12 [raw]", quantity="none")
String1d	DM_CR1_ST_CS (description="DM_CR1_ST_CS", quantity="none")

Long1d	DM_LAST_ER_BF13 (description="DM_LAST_ER_BF13 [raw]", quantity="none")
Double1d	DM_CS2_TARGET (description="DM_CS2_TARGET [eng, Ohm]", quantity="none")
String1d	DM_DPUR_TASK_WR (description="DM_DPUR_TASK_WR", quantity="none")
Long1d	DM_CHOP_PID_ERR (description="DM_CHOP_PID_ERR [raw]", quantity="none")
Double1d	DM_DECB_VWELL_4 (description="DM_DECB_VWELL_4 [eng, V]", quantity="none")
Long1d	DP_COM_SPS_PACK (description="DP_COM_SPS_PACK [raw]", quantity="none")
Double1d	DP_VOL_5P (description="DP_VOL_5P [eng, V]", quantity="none")
String1d	DM_CS2C_TASK_WR (description="DM_CS2C_TASK_WR", quantity="none")
Long1d	DM_PLL_RES_LO (description="DM_PLL_RES_LO [raw]", quantity="none")
String1d	DM_DPUS_LINK (description="DM_DPUS_LINK", quantity="none")
Double1d	DP_VOL_25P (description="DP_VOL_25P [eng, V]", quantity="none")
Long1d	DP_COM_DMC_NACK (description="DP_COM_DMC_NACK [raw]", quantity="none")
String1d	DM_CR2_ST_CS (description="DM_CR2_ST_CS", quantity="none")
String1d	DM_GC_SYNCHRO (description="DM_GC_SYNCHRO", quantity="none")
String1d	DM_FWPC_POSC_B (description="DM_FWPC_POSC_B", quantity="none")
String1d	DM_FWPC_POSC_A (description="DM_FWPC_POSC_A", quantity="none")
Double1d	DM_DECB_VWELL_3 (description="DM_DECB_VWELL_3 [eng, V]", quantity="none")
String1d	DP_INIT (description="DP_INIT", quantity="none")
Long1d	DM_BLUE_PAC_ENC (description="DM_BLUE_PAC_ENC [raw]", quantity="none")
String1d	DM_CR3_ST_CUR (description="DM_CR3_ST_CUR", quantity="none")
String1d	DM_FWSC_ERR_NS (description="DM_FWSC_ERR_NS", quantity="none")
String1d	DM_CC_COMMUT (description="DM_CC_COMMUT", quantity="none")
String1d	DM_CS2C_PID (description="DM_CS2C_PID", quantity="none")
String1d	DM_DBC_TASK_AL (description="DM_DBC_TASK_AL", quantity="none")
Long1d	DM_HK_DIAG_PERI (description="DM_HK_DIAG_PERI [raw]", quantity="none")

Long1d	SPL_MEM_CNTS (description="SPL_MEM_CNTS [raw]", quantity="none")
Long1d	SPL_SUBVERSION (description="SPL_SUBVERSION [raw]", quantity="none")
String1d	DM_CR2_ST_HE (description="DM_CR2_ST_HE", quantity="none")
Long1d	DM_DBR_ERROR (description="DM_DBR_ERROR [raw]", quantity="none")
Double1d	DM_DECB_IGND_4 (description="DM_DECB_IGND_4 [eng, mA]", quantity="none")
Double1d	DM_DECB_IGND_3 (description="DM_DECB_IGND_3 [eng, mA]", quantity="none")
Long1d	DM_CR3_ST_SP2 (description="DM_CR3_ST_SP2 [raw]", quantity="none")
Long1d	DM_DECR_CR_ST_2 (description="DM_DECR_CR_ST_2 [raw]", quantity="none")
String1d	DP_EV_BOL_I_HEA (description="DP_EV_BOL_I_HEA", quantity="none")
Long1d	DM_DECR_CR_ST_1 (description="DM_DECR_CR_ST_1 [raw]", quantity="none")
String1d	DM_CR2_ST_SEL (description="DM_CR2_ST_SEL", quantity="none")
String1d	DP_EV_BOL_BIAS (description="DP_EV_BOL_BIAS", quantity="none")
Double1d	DM_SPU_LWL_TEMP (description="DM_SPU_LWL_TEMP [eng, K]", quantity="none")
String1d	DM_CR4_NDS (description="DM_CR4_NDS", quantity="none")
Long1d	DM_CR3_ST_SP1 (description="DM_CR3_ST_SP1 [raw]", quantity="none")
String1d	DM_CC_PID (description="DM_CC_PID", quantity="none")
Long1d	DP_EVENT_LOST (description="DP_EVENT_LOST [raw]", quantity="none")
Double1d	DM_SPU_VP_CUR (description="DM_SPU_VP_CUR [eng, mA]", quantity="none")
Long1d	DM_CC_SPARE1B (description="DM_CC_SPARE1B [raw]", quantity="none")
Long1d	DP_COM_REC_DPU (description="DP_COM_REC_DPU [raw]", quantity="none")
String1d	DM_CR1_ST_CUR (description="DM_CR1_ST_CUR", quantity="none")
Long1d	DM_CC_SPARE1A (description="DM_CC_SPARE1A [raw]", quantity="none")
String1d	DM_DPUS_ERR_NS (description="DM_DPUS_ERR_NS", quantity="none")
Long1d	DP_SW_SUBVERS_ID (description="DP_SW_SUBVERS_ID [raw]", quantity="none")
String1d	DM_CR2_NDS (description="DM_CR2_NDS", quantity="none")

Double1d	DM_DECB_ZB_CM_3 (description="DM_DECB_ZB_CM_3 [eng, V]", quantity="none")
String1d	DM_DBC_TASK_WR (description="DM_DBC_TASK_WR", quantity="none")
Double1d	DM_DECB_ZB_CM_4 (description="DM_DECB_ZB_CM_4 [eng, V]", quantity="none")
String1d	DM_CR1_ST_SIM (description="DM_CR1_ST_SIM", quantity="none")
Double1d	DM_DECR_BR_CM_1 (description="DM_DECR_BR_CM_1 [eng, V]", quantity="none")
Double1d	DM_DECR_BR_CM_2 (description="DM_DECR_BR_CM_2 [eng, V]", quantity="none")
Long1d	SPS_RCX (description="SPS_RCX [raw]", quantity="none")
String1d	DM_CS1C_DOWN (description="DM_CS1C_DOWN", quantity="none")
String1d	DM_FWSC_MOVING (description="DM_FWSC_MOVING", quantity="none")
Long1d	DM_SEQ_LABEL (description="DM_SEQ_LABEL [raw]", quantity="none")
String1d	DP_UNIT (description="DP_UNIT", quantity="none")
Double1d	DM_DECR_FLASH_V (description="DM_DECR_FLASH_V [eng, V]", quantity="none")
Long1d	SPS_PAR_MONITOR (description="SPS_PAR_MONITOR [raw]", quantity="none")
String1d	DM_DBR_TASK_AL (description="DM_DBR_TASK_AL", quantity="none")
Long1d	DM_SEQ_ERROR (description="DM_SEQ_ERROR [raw]", quantity="none")
Long1d	DM_DET_SIM_PER (description="DM_DET_SIM_PER [raw]", quantity="none")
Double1d	DM_CAL_SRC_TEMP (description="DM_CAL_SRC_TEMP [eng, K]", quantity="none")
String1d	DM_DSIM_R_SIMUL (description="DM_DSIM_R_SIMUL", quantity="none")
String1d	DM_DBC_ERR_NS (description="DM_DBC_ERR_NS", quantity="none")
Double1d	DM_DECR_TS_2_1 (description="DM_DECR_TS_2_1 [eng, K]", quantity="none")
Double1d	DM_DECR_TS_2_2 (description="DM_DECR_TS_2_2 [eng, K]", quantity="none")
String1d	DM_CR1_NDS (description="DM_CR1_NDS", quantity="none")
String1d	DM_DRC_POWER (description="DM_DRC_POWER", quantity="none")
String1d	DM_SEQ_TASK_WR (description="DM_SEQ_TASK_WR", quantity="none")
Long1d	DM_DECB_CL_RO_4 (description="DM_DECB_CL_RO_4 [raw]", quantity="none")

Long1d	DM_DECB_CL_RO_3 (description="DM_DECB_CL_RO_3 [raw]", quantity="none")
String1d	DM_FWSP_CUR_POS (description="DM_FWSP_CUR_POS", quantity="none")
Long1d	DM_CC_ERROR (description="DM_CC_ERROR [raw]", quantity="none")
String1d	DM_CR2_ST_FL (description="DM_CR2_ST_FL", quantity="none")
String1d	DM_DPUR_ERR_NS (description="DM_DPUR_ERR_NS", quantity="none")
Long1d	DM_HKD_ERROR (description="DM_HKD_ERROR [raw]", quantity="none")
String1d	DP_SPUS_CMD (description="DP_SPUS_CMD", quantity="none")
Long1d	DM_CC_SPARE1C (description="DM_CC_SPARE1C [raw]", quantity="none")
Double1d	DM_DECB_DCDCN15 (description="DM_DECB_DCDCN15 [eng, mA]", quantity="none")
String1d	DP_1553_HANDLER (description="DP_1553_HANDLER", quantity="none")
Double1d	DM_SPU_VCC_VOL (description="DM_SPU_VCC_VOL [eng, V]", quantity="none")
Long1d	DM_DECB_RO_RA_3 (description="DM_DECB_RO_RA_3 [raw]", quantity="none")
Long1d	DM_DPUS_SPARE4 (description="DM_DPUS_SPARE4 [raw]", quantity="none")
Long1d	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")
Long1d	DM_DECB_RO_RA_4 (description="DM_DECB_RO_RA_4 [raw]", quantity="none")
Double1d	DM_GRATING_TEMP (description="DM_GRATING_TEMP [eng, K]", quantity="none")
Long1d	DM_CS2C_SPARE4 (description="DM_CS2C_SPARE4 [raw]", quantity="none")
String1d	DP_TM_RATE (description="DP_TM_RATE", quantity="none")
Double1d	DM_DECR_ISS_1 (description="DM_DECR_ISS_1 [eng, mA]", quantity="none")
Long1d	DM_CS2C_SPARE1 (description="DM_CS2C_SPARE1 [raw]", quantity="none")
Double1d	DM_DECR_ISS_2 (description="DM_DECR_ISS_2 [eng, mA]", quantity="none")
String1d	DM_DRR_SIM_TIME (description="DM_DRR_SIM_TIME", quantity="none")
String1d	DM_DPUR_LINK (description="DM_DPUR_LINK", quantity="none")
String1d	DM_CC_SYNCHRO (description="DM_CC_SYNCHRO", quantity="none")
Long1d	DM_RED_ENC_PAC (description="DM_RED_ENC_PAC [raw]", quantity="none")

Double1d	DM_DECB_VBI_R_3 (description="DM_DECB_VBI_R_3 [eng, V]", quantity="none")
Double1d	DM_DECB_IDDA_3 (description="DM_DECB_IDDA_3 [eng, mA]", quantity="none")
Double1d	DM_DECB_IDDA_4 (description="DM_DECB_IDDA_4 [eng, mA]", quantity="none")
String1d	DP_DMC_LINK (description="DP_DMC_LINK", quantity="none")
Double1d	DM_DECB_VBI_R_4 (description="DM_DECB_VBI_R_4 [eng, V]", quantity="none")
String1d	DM_RPE_LINK (description="DM_RPE_LINK", quantity="none")
Double1d	DM_DECB_V0V_3 (description="DM_DECB_V0V_3 [eng, V]", quantity="none")
String1d	DM_RSPU_TR_MODE (description="DM_RSPU_TR_MODE", quantity="none")
String1d	DP_EV_BOL_V_PWR (description="DP_EV_BOL_V_PWR", quantity="none")
String1d	DM_CR2_ST_SIM (description="DM_CR2_ST_SIM", quantity="none")
String1d	DP_SPUL_CMD (description="DP_SPUL_CMD", quantity="none")
Long1d	DM_CS1_CTRL_STA (description="DM_CS1_CTRL_STA [raw]", quantity="none")
Double1d	DM_DECR_VSCP_1 (description="DM_DECR_VSCP_1 [eng, V]", quantity="none")
Double1d	DM_DECR_VSCP_2 (description="DM_DECR_VSCP_2 [eng, V]", quantity="none")
Double1d	DM_DECB_V0V_4 (description="DM_DECB_V0V_4 [eng, V]", quantity="none")
Long1d	DP_SPUS_LINK_DE (description="DP_SPUS_LINK_DE [raw]", quantity="none")
Long1d	DM_OBT_COUNT (description="DM_OBT_COUNT [raw]", quantity="none")
Double1d	DP_T (description="DP_T [eng, degC]", quantity="none")
Long1d	DM_DECB_CTRL_ST (description="DM_DECB_CTRL_ST [raw]", quantity="none")
String1d	DM_CS1C_TASK_AL (description="DM_CS1C_TASK_AL", quantity="none")
Long1d	DM_FWSC_SPARE1B (description="DM_FWSC_SPARE1B [raw]", quantity="none")
String1d	DM_DSIM_BOL_SIM (description="DM_DSIM_BOL_SIM", quantity="none")
String1d	DM_CC_LOOP (description="DM_CC_LOOP", quantity="none")
String1d	DP_STABLE_DEC (description="DP_STABLE_DEC", quantity="none")
String1d	SPS_DMC_ERROR (description="SPS_DMC_ERROR", quantity="none")
Double1d	DM_DECR_DCDCP15 (description="DM_DECR_DCDCP15 [eng, mA]", quantity="none")

Long1d	DM_FWGRAT_HALLB (description="DM_FWGRAT_HALLB [raw]", quantity="none")
Long1d	DM_GRAT_CUR_POS (description="DM_GRAT_CUR_POS [raw]", quantity="none")
Double1d	DM_DECR_FLASH_C (description="DM_DECR_FLASH_C [eng, mA]", quantity="none")
Long1d	DM_FWGRAT_HALLA (description="DM_FWGRAT_HALLA [raw]", quantity="none")
Double1d	DM_DECB_HEAT_C (description="DM_DECB_HEAT_C [eng, mA]", quantity="none")
String1d	DM_BC_LINK (description="DM_BC_LINK", quantity="none")
Long1d	DM_CHOP_SETPOIN (description="DM_CHOP_SETPOIN [raw]", quantity="none")
Double1d	DM_DECB_V0BIAS3 (description="DM_DECB_V0BIAS3 [eng, V]", quantity="none")
String1d	DM_CR3_ST_TE (description="DM_CR3_ST_TE", quantity="none")
String1d	DM_GC_TASK_WR (description="DM_GC_TASK_WR", quantity="none")
String1d	DP_EV_BOL_I_SP2 (description="DP_EV_BOL_I_SP2", quantity="none")
String1d	DP_EV_BOL_I_SP1 (description="DP_EV_BOL_I_SP1", quantity="none")
Long1d	DM_DPU_REC_PAC (description="DM_DPU_REC_PAC [raw]", quantity="none")
String1d	DP_COUNTER_PHOT (description="DP_COUNTER_PHOT", quantity="none")
String1d	SPL_SATUR_FLAG (description="SPL_SATUR_FLAG", quantity="none")
Long1d	SPS_OBSID (description="SPS_OBSID [raw]", quantity="none")
Double1d	DM_DECR_AC_CUR (description="DM_DECR_AC_CUR [eng, mA]", quantity="none")
Double1d	DM_DECB_V0BIAS4 (description="DM_DECB_V0BIAS4 [eng, V]", quantity="none")
Long1d	DM_DECR_CL_RO_2 (description="DM_DECR_CL_RO_2 [raw]", quantity="none")
Long1d	DM_DECR_CL_RO_1 (description="DM_DECR_CL_RO_1 [raw]", quantity="none")
Long1d	DM_SEQ_STATUS (description="DM_SEQ_STATUS [raw]", quantity="none")
Long1d	DM_CR4_ST_SP1 (description="DM_CR4_ST_SP1 [raw]", quantity="none")
Double1d	DM_CS2_RES_VAL (description="DM_CS2_RES_VAL [eng, Ohm]", quantity="none")
Long1d	DM_CR4_ST_SP2 (description="DM_CR4_ST_SP2 [raw]", quantity="none")
String1d	DM_DRC_LINK (description="DM_DRC_LINK", quantity="none")
String1d	DM_CR3_NDS (description="DM_CR3_NDS", quantity="none")

String1d	DM_FPU_S1_TS_ST (description="DM_FPU_S1_TS_ST", quantity="none")
String1d	DM_BC_TASK_AL (description="DM_BC_TASK_AL", quantity="none")
Long1d	DM_DECB_CR_ST_3 (description="DM_DECB_CR_ST_3 [raw]", quantity="none")
Long1d	DP_COM_SPS_NACK (description="DP_COM_SPS_NACK [raw]", quantity="none")
Long1d	DM_DECB_CR_ST_4 (description="DM_DECB_CR_ST_4 [raw]", quantity="none")
String1d	DM_BC_ERR_NS (description="DM_BC_ERR_NS", quantity="none")
String1d	DM_DBC_POWER (description="DM_DBC_POWER", quantity="none")
Long1d	DM_RED_PAC_ENC (description="DM_RED_PAC_ENC [raw]", quantity="none")
Double1d	DM_DECR_VDDD_2 (description="DM_DECR_VDDD_2 [eng, V]", quantity="none")
Long1d	DM_DBC_SPARE3 (description="DM_DBC_SPARE3 [raw]", quantity="none")
Double1d	DM_DECR_VDDD_1 (description="DM_DECR_VDDD_1 [eng, V]", quantity="none")
Double1d	DM_FPU_T2_TEMP (description="DM_FPU_T2_TEMP [eng, K]", quantity="none")
String1d	DM_FWPC_POS_B (description="DM_FWPC_POS_B", quantity="none")
String1d	DM_FWPC_POS_A (description="DM_FWPC_POS_A", quantity="none")
Long1d	DM_CS1C_ERROR (description="DM_CS1C_ERROR [raw]", quantity="none")
Long1d	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
String1d	DP_EV_DEC_SPC (description="DP_EV_DEC_SPC", quantity="none")
String1d	DM_GC_HOM_COMP (description="DM_GC_HOM_COMP", quantity="none")
String1d	DP_EVENT_DEC (description="DP_EVENT_DEC", quantity="none")
Long1d	DM_CR1_ST_SP1 (description="DM_CR1_ST_SP1 [raw]", quantity="none")
Long1d	DM_CR1_ST_SP2 (description="DM_CR1_ST_SP2 [raw]", quantity="none")
Long1d	DP_COM_DMC (description="DP_COM_DMC [raw]", quantity="none")
Long1d	DM_FWSC_SPARE1A (description="DM_FWSC_SPARE1A [raw]", quantity="none")
String1d	DM_FWPC_MOVING (description="DM_FWPC_MOVING", quantity="none")

String1d	DP_EV_BOL_T_WE (description="DP_EV_BOL_T_WE", quantity="none")
String1d	DM_CC_DOWN (description="DM_CC_DOWN", quantity="none")
String1d	DM_CR3_ST_RA (description="DM_CR3_ST_RA", quantity="none")
Double1d	DM_DCDC_TEMP (description="DM_DCDC_TEMP [eng, K]", quantity="none")
String1d	DM_HKD_DIAGMODE (description="DM_HKD_DIAGMODE", quantity="none")
String1d	DM_CS2C_TASK_AL (description="DM_CS2C_TASK_AL", quantity="none")
String1d	DM_DRR_LINK (description="DM_DRR_LINK", quantity="none")
String1d	DP_AF_24_SPARE (description="DP_AF_24_SPARE", quantity="none")
String1d	DP_1553CHANNEL (description="DP_1553CHANNEL", quantity="none")
Double1d	DM_FW_SPEC_TEMP (description="DM_FW_SPEC_TEMP [eng, K]", quantity="none")
String1d	DM_CR4_ST_SIM (description="DM_CR4_ST_SIM", quantity="none")
Long1d	DM_FWPC_SPARE4 (description="DM_FWPC_SPARE4 [raw]", quantity="none")
String1d	DM_DBR_SENDING (description="DM_DBR_SENDING", quantity="none")
String1d	DM_DRR_TASK_AL (description="DM_DRR_TASK_AL", quantity="none")
Long1d	DM_SEQ_SPARE1 (description="DM_SEQ_SPARE1 [raw]", quantity="none")
Long1d	DM_SEQ_SPARE2 (description="DM_SEQ_SPARE2 [raw]", quantity="none")
String1d	DM_GC_PID (description="DM_GC_PID", quantity="none")
String1d	DM_GC_POWER (description="DM_GC_POWER", quantity="none")
Long1d	DM_DPUS_ERROR (description="DM_DPUS_ERROR [raw]", quantity="none")
Double1d	DM_CS1_RES_VAL (description="DM_CS1_RES_VAL [eng, Ohm]", quantity="none")
String1d	DM_BSPU_TR_MODE (description="DM_BSPU_TR_MODE", quantity="none")
String1d	DM_DRC_TASK_WR (description="DM_DRC_TASK_WR", quantity="none")
Long1d	DP_COM_SPUS (description="DP_COM_SPUS [raw]", quantity="none")
String1d	DM_CC_ERR_NS (description="DM_CC_ERR_NS", quantity="none")
Long1d	DM_DECB_SR_RB_3 (description="DM_DECB_SR_RB_3 [raw]", quantity="none")

Long1d	DP_COM_SPUL (description="DP_COM_SPUL [raw]", quantity="none")
String1d	DM_DSIM_TIME (description="DM_DSIM_TIME", quantity="none")
Long1d	DM_DECB_SR_RB_4 (description="DM_DECB_SR_RB_4 [raw]", quantity="none")
Long1d	DM_HKD_SPARE3 (description="DM_HKD_SPARE3 [raw]", quantity="none")
Long1d	DP_AF_STATUS (description="DP_AF_STATUS [raw]", quantity="none")
Long1d	DM_DSIM_SPARE1B (description="DM_DSIM_SPARE1B [raw]", quantity="none")
Long1d	DM_DSIM_SPARE1A (description="DM_DSIM_SPARE1A [raw]", quantity="none")
String1d	DM_DPUS_TASK_AL (description="DM_DPUS_TASK_AL", quantity="none")
Long1d	DP_SPARE (description="DP_SPARE [raw]", quantity="none")
Long1d	DM_CC_SPARE4 (description="DM_CC_SPARE4 [raw]", quantity="none")
String1d	DM_CR2_ST_CUR (description="DM_CR2_ST_CUR", quantity="none")
String1d	DM_BR_ERR_NS (description="DM_BR_ERR_NS", quantity="none")
Long1d	DM_PM_DF_IND (description="DM_PM_DF_IND [raw]", quantity="none")
Long1d	DM_DPUR_ERROR (description="DM_DPUR_ERROR [raw]", quantity="none")
Double1d	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")
Long1d	DM_BOL_REC_STAT (description="DM_BOL_REC_STAT [raw]", quantity="none")
String1d	DM_BPE_ERR_NS (description="DM_BPE_ERR_NS", quantity="none")
Long1d	DM_IRS_CNT (description="DM_IRS_CNT [raw]", quantity="none")
Long1d	SPS_INTEG_RAMPS (description="SPS_INTEG_RAMPS [raw]", quantity="none")
Long1d	DM_CHOP_CUR_POS (description="DM_CHOP_CUR_POS [raw]", quantity="none")
Long1d	DM_HKD_SPARE1 (description="DM_HKD_SPARE1 [raw]", quantity="none")
Long1d	DM_DECR_RO_CO_1 (description="DM_DECR_RO_CO_1 [raw]", quantity="none")
String1d	DM_GC_COMMUT (description="DM_GC_COMMUT", quantity="none")
Long1d	DM_GRAT_SETPOIN (description="DM_GRAT_SETPOIN [raw]", quantity="none")

String1d	DM_CR3_ST_SIM (description="DM_CR3_ST_SIM", quantity="none")
Double1d	DM_DECB_HEAT_V (description="DM_DECB_HEAT_V [eng, V]", quantity="none")
String1d	DM_FWPH_CUR_POS (description="DM_FWPH_CUR_POS", quantity="none")
String1d	DM_DBC_LINK (description="DM_DBC_LINK", quantity="none")
Long1d	DM_SEQ_POINTER (description="DM_SEQ_POINTER [raw]", quantity="none")
Long1d	DM_BPE_ERROR (description="DM_BPE_ERROR [raw]", quantity="none")
Long1d	SPL_CI (description="SPL_CI [raw]", quantity="none")
Long1d	DM_DECR_RO_CO_2 (description="DM_DECR_RO_CO_2 [raw]", quantity="none")
Long1d	DM_DECR_CTRL_ST (description="DM_DECR_CTRL_ST [raw]", quantity="none")
Long1d	DP_TC_LOST (description="DP_TC_LOST [raw]", quantity="none")
Double1d	DM_DECR_IDDD_2 (description="DM_DECR_IDDD_2 [eng, mA]", quantity="none")
Double1d	DP_VOL_15P (description="DP_VOL_15P [eng, V]", quantity="none")
Double1d	DM_DECR_IDDD_1 (description="DM_DECR_IDDD_1 [eng, mA]", quantity="none")
Double1d	DP_VOL_15N (description="DP_VOL_15N [eng, V]", quantity="none")
Long1d	DM_ISR_SPARE2 (description="DM_ISR_SPARE2 [raw]", quantity="none")
Long1d	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
Long1d	DM_ISR_SPARE1 (description="DM_ISR_SPARE1 [raw]", quantity="none")
Double1d	DM_REF_VOLT_0V (description="DM_REF_VOLT_0V [eng, V]", quantity="none")
String1d	DP_COUNTER_DEC (description="DP_COUNTER_DEC", quantity="none")
Double1d	DM_DECR_REF_0V2 (description="DM_DECR_REF_0V2 [eng, V]", quantity="none")
Double1d	DM_DECR_REF_0V1 (description="DM_DECR_REF_0V1 [eng, V]", quantity="none")
Double1d	DM_GRAT_OUTPUT (description="DM_GRAT_OUTPUT [eng, mA]", quantity="none")
Double1d	DM_DECB_VDDD_4 (description="DM_DECB_VDDD_4 [eng, V]", quantity="none")
Long1d	DM_B_SPEC_READ (description="DM_B_SPEC_READ [raw]", quantity="none")
Double1d	BOL_TEMP_FPU_ST (description="BOL_TEMP_FPU_ST [eng, K]", quantity="none")

Double1d	DM_DECB_VDDD_3 (description="DM_DECB_VDDD_3 [eng, V]", quantity="none")
Long1d	DM_MIM_ST (description="DM_MIM_ST [raw]", quantity="none")
Long1d	DP_COM_REJ_DPU (description="DP_COM_REJ_DPU [raw]", quantity="none")
Long1d	DM_FW_PHOT_CTRL (description="DM_FW_PHOT_CTRL [raw]", quantity="none")
Long1d	HD_APID (description="HD_APID [raw]", quantity="none")
String1d	DM_CS2C_DOWN (description="DM_CS2C_DOWN", quantity="none")
String1d	DM_CS1C_COMMUT (description="DM_CS1C_COMMUT", quantity="none")
String1d	DP_EV_BOL_I_FPU (description="DP_EV_BOL_I_FPU", quantity="none")
Long1d	DM_DECB_REC_STA (description="DM_DECB_REC_STA [raw]", quantity="none")
Double1d	BOL_TEMP_EV (description="BOL_TEMP_EV [eng, K]", quantity="none")
String1d	DM_HKCO_TASK_WR (description="DM_HKCO_TASK_WR", quantity="none")
Long1d	SPL_VID (description="SPL_VID [raw]", quantity="none")
Double1d	DM_SPU_SWL_TEMP (description="DM_SPU_SWL_TEMP [eng, K]", quantity="none")
Long1d	DP_SPUL_LINK_PE (description="DP_SPUL_LINK_PE [raw]", quantity="none")
String1d	DP_SPS_LINK (description="DP_SPS_LINK", quantity="none")
String1d	DM_CS2C_SYNCHRO (description="DM_CS2C_SYNCHRO", quantity="none")
String1d	DM_FPU_S2_TS_ST (description="DM_FPU_S2_TS_ST", quantity="none")
Long1d	DM_HK_CTRL_STAT (description="DM_HK_CTRL_STAT [raw]", quantity="none")
Long1d	DM_GRAT_CTRL_ST (description="DM_GRAT_CTRL_ST [raw]", quantity="none")
Long1d	DM_DBR_SPARE2 (description="DM_DBR_SPARE2 [raw]", quantity="none")
String1d	DM_CS1C_PID (description="DM_CS1C_PID", quantity="none")
Long1d	DM_CHOP_PID_ACC (description="DM_CHOP_PID_ACC [raw]", quantity="none")
Double1d	DM_SPU_VCC_CUR (description="DM_SPU_VCC_CUR [eng, A]", quantity="none")
Long1d	DM_DECR_CTRL_PA (description="DM_DECR_CTRL_PA [raw]", quantity="none")
Double1d	DM_FW_PHOT_TEMP (description="DM_FW_PHOT_TEMP [eng, K]", quantity="none")
Long1d	SPL_SAMP_CORR (description="SPL_SAMP_CORR [raw]", quantity="none")

String1d	DM_CR4_ST_CUR (description="DM_CR4_ST_CUR", quantity="none")
String1d	DP_OBCP_MANAGER (description="DP_OBCP_MANAGER", quantity="none")
Long1d	DM_DECR_TS_ST_2 (description="DM_DECR_TS_ST_2 [raw]", quantity="none")
Long1d	DM_DECR_TS_ST_1 (description="DM_DECR_TS_ST_1 [raw]", quantity="none")
String1d	DM_CR4_ST_TE (description="DM_CR4_ST_TE", quantity="none")
String1d	DP_IRQ3_TASK (description="DP_IRQ3_TASK", quantity="none")
Long1d	DM_HKCO_SPARE5 (description="DM_HKCO_SPARE5 [raw]", quantity="none")
String1d	SPS_DMC_LINK (description="SPS_DMC_LINK", quantity="none")
Double1d	DM_DECB_VSCP_3 (description="DM_DECB_VSCP_3 [eng, V]", quantity="none")
Double1d	DM_DECR_DCDC_T1 (description="DM_DECR_DCDC_T1 [eng, K]", quantity="none")
String1d	DP_RED_SCIENCE (description="DP_RED_SCIENCE", quantity="none")
Long1d	DM_DECR_DCDC_T2 (description="DM_DECR_DCDC_T2 [raw]", quantity="none")
String1d	DM_DRR_TASK_WR (description="DM_DRR_TASK_WR", quantity="none")
Long1d	DM_DPUR_SPARE4 (description="DM_DPUR_SPARE4 [raw]", quantity="none")
Double1d	DM_DECB_VSCP_4 (description="DM_DECB_VSCP_4 [eng, V]", quantity="none")
Long1d	DP_COM_SPL_NACK (description="DP_COM_SPL_NACK [raw]", quantity="none")
Long1d	DM_CS2C_SPARE1B (description="DM_CS2C_SPARE1B [raw]", quantity="none")
Long1d	SID (description="SID [raw]", quantity="none")
Long1d	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
Long1d	DM_FWPC_SPARE1B (description="DM_FWPC_SPARE1B [raw]", quantity="none")
Long1d	DM_FWPC_SPARE1A (description="DM_FWPC_SPARE1A [raw]", quantity="none")
Double1d	SPL_CPUWORKLOAD (description="SPL_CPUWORKLOAD [eng, %]", quantity="none")
String1d	DM_CR1_ST_RA (description="DM_CR1_ST_RA", quantity="none")
Double1d	DM_DECR_VDDA_2 (description="DM_DECR_VDDA_2 [eng, V]", quantity="none")
Double1d	DM_DECR_VDDA_1 (description="DM_DECR_VDDA_1 [eng, V]", quantity="none")

Long1d	DP_GEN_TM_LOST (description="DP_GEN_TM_LOST [raw]", quantity="none")
Long1d	DM_LAST_ERR_ID (description="DM_LAST_ERR_ID [raw]", quantity="none")
Double1d	DM_DECR_V0BIAS1 (description="DM_DECR_V0BIAS1 [eng, V]", quantity="none")
Double1d	DM_DECR_V0BIAS2 (description="DM_DECR_V0BIAS2 [eng, V]", quantity="none")
String1d	DP_SPUS_LINK (description="DP_SPUS_LINK", quantity="none")
String1d	DM_SW_COPY_OBS (description="DM_SW_COPY_OBS", quantity="none")
String1d	DP_HK_CHK (description="DP_HK_CHK", quantity="none")
String1d	DM_CR2_ST_TE (description="DM_CR2_ST_TE", quantity="none")
String1d	DM_CR4_ST_CRPOW (description="DM_CR4_ST_CRPOW", quantity="none")
Long1d	DM_GC_LL_SC (description="DM_GC_LL_SC [raw]", quantity="none")
String1d	DM_DRC_ERR_NS (description="DM_DRC_ERR_NS", quantity="none")
Long1d	DM_RPE_SPARE4 (description="DM_RPE_SPARE4 [raw]", quantity="none")
Long1d	DM_DRC_ERROR (description="DM_DRC_ERROR [raw]", quantity="none")
Double1d	DP_WORK_LOAD (description="DP_WORK_LOAD [eng, %]", quantity="none")
Long1d	SPL_OBSID (description="SPL_OBSID [raw]", quantity="none")
String1d	DP_DEC_LINK (description="DP_DEC_LINK", quantity="none")
Long1d	DP_COM_DMC_PACK (description="DP_COM_DMC_PACK [raw]", quantity="none")
String1d	DM_GC_LL_LOCKED (description="DM_GC_LL_LOCKED", quantity="none")
String1d	DP_EEPROM_PROT (description="DP_EEPROM_PROT", quantity="none")
Long1d	DM_LAST_ER_BF3 (description="DM_LAST_ER_BF3 [raw]", quantity="none")
String1d	DM_DSIM_B_SIMUL (description="DM_DSIM_B_SIMUL", quantity="none")
Long1d	DM_LAST_ER_BF4 (description="DM_LAST_ER_BF4 [raw]", quantity="none")
Long1d	DM_LAST_ER_BF5 (description="DM_LAST_ER_BF5 [raw]", quantity="none")
Long1d	DM_LAST_ER_BF6 (description="DM_LAST_ER_BF6 [raw]", quantity="none")
Long1d	DM_LAST_ER_BF7 (description="DM_LAST_ER_BF7 [raw]", quantity="none")
Long1d	DM_LAST_ER_BF8 (description="DM_LAST_ER_BF8 [raw]", quantity="none")

Long1d	DM_LAST_ER_BF9 (description="DM_LAST_ER_BF9 [raw]", quantity="none")
Double1d	BOL_PWR_DIG_2 (description="BOL_PWR_DIG_2 [eng, V]", quantity="none")
Double1d	BOL_PWR_DIG_1 (description="BOL_PWR_DIG_1 [eng, V]", quantity="none")
Double1d	BOL_PWR_DIG_4 (description="BOL_PWR_DIG_4 [eng, V]", quantity="none")
String1d	DM_SEQ_TASK_AL (description="DM_SEQ_TASK_AL", quantity="none")
Double1d	BOL_PWR_DIG_3 (description="BOL_PWR_DIG_3 [eng, V]", quantity="none")
Double1d	BOL_PWR_DIG_6 (description="BOL_PWR_DIG_6 [eng, V]", quantity="none")
String1d	DM_CS1C_TASK_WR (description="DM_CS1C_TASK_WR", quantity="none")
Double1d	BOL_PWR_DIG_5 (description="BOL_PWR_DIG_5 [eng, V]", quantity="none")
Long1d	DM_FPU_T_SEN_ST (description="DM_FPU_T_SEN_ST [raw]", quantity="none")
Long1d	DM_BOL_STATUS (description="DM_BOL_STATUS [raw]", quantity="none")
String1d	DM_CR3_ST_HE (description="DM_CR3_ST_HE", quantity="none")
String1d	DM_BR_SIM_TIME (description="DM_BR_SIM_TIME", quantity="none")
Long1d	DM_LAST_ER_BF2 (description="DM_LAST_ER_BF2 [raw]", quantity="none")
Long1d	SPS_SUBVERSION (description="SPS_SUBVERSION [raw]", quantity="none")
Double1d	BOL_PWR_DIG_7 (description="BOL_PWR_DIG_7 [eng, V]", quantity="none")
Long1d	DM_LAST_ER_BF1 (description="DM_LAST_ER_BF1 [raw]", quantity="none")
Long1d	DM_SEQ_WAIT_IND (description="DM_SEQ_WAIT_IND [raw]", quantity="none")
Long1d	DM_CR2_ST_SP1 (description="DM_CR2_ST_SP1 [raw]", quantity="none")
Long1d	DM_DET_SIM_STAT (description="DM_DET_SIM_STAT [raw]", quantity="none")
Long1d	DM_CR2_ST_SP2 (description="DM_CR2_ST_SP2 [raw]", quantity="none")
String1d	DM_FPU_FWP_TS_S (description="DM_FPU_FWP_TS_S", quantity="none")
Long1d	DP_1_2_REJECTED (description="DP_1_2_REJECTED [raw]", quantity="none")
String1d	DM_CR1_ST_TE (description="DM_CR1_ST_TE", quantity="none")

String1d	DM_CS2C_POWER (description="DM_CS2C_POWER", quantity="none")
String1d	DM_CS2C_COMMUT (description="DM_CS2C_COMMUT", quantity="none")
String1d	DM_CR3_ST_SEL (description="DM_CR3_ST_SEL", quantity="none")
String1d	DP_BUFFER_STAT (description="DP_BUFFER_STAT", quantity="none")
String1d	DM_CR3_ST_CRPOW (description="DM_CR3_ST_CRPOW", quantity="none")
String1d	DM_FWSC_POSC_A (description="DM_FWSC_POSC_A", quantity="none")
String1d	DP_COUNTER_SPEC (description="DP_COUNTER_SPEC", quantity="none")
String1d	DM_FWSC_POSC_B (description="DM_FWSC_POSC_B", quantity="none")
Long1d	DM_BOL_READ_CNT (description="DM_BOL_READ_CNT [raw]", quantity="none")
String1d	SPS_SATUR_FLAG (description="SPS_SATUR_FLAG", quantity="none")
Long1d	DM_DECB_REC_PAC (description="DM_DECB_REC_PAC [raw]", quantity="none")
String1d	DM_CR2_ST_CRPOW (description="DM_CR2_ST_CRPOW", quantity="none")
Long1d	DP_HK_LOST (description="DP_HK_LOST [raw]", quantity="none")
String1d	DP_CONTROLLER (description="DP_CONTROLLER", quantity="none")
String1d	DP_STABLE_SPL (description="DP_STABLE_SPL", quantity="none")
String1d	DM_HKD_TASK_AL (description="DM_HKD_TASK_AL", quantity="none")
String1d	DM_BPE_TASK_AL (description="DM_BPE_TASK_AL", quantity="none")
String1d	DM_DSIM_ERR_NS (description="DM_DSIM_ERR_NS", quantity="none")
Long1d	SPL_PAR_MONITOR (description="SPL_PAR_MONITOR [raw]", quantity="none")
String1d	DM_FWSC_POWER (description="DM_FWSC_POWER", quantity="none")
String1d	DM_SW_ALIVE (description="DM_SW_ALIVE", quantity="none")
String1d	DM_CC_POWER (description="DM_CC_POWER", quantity="none")
String1d	DM_DBR_LINK (description="DM_DBR_LINK", quantity="none")
Long1d	DP_SPUS_LINK_PE (description="DP_SPUS_LINK_PE [raw]", quantity="none")
String1d	DP_STABLE_SPS (description="DP_STABLE_SPS", quantity="none")

Long1d	DM_FWSC_SPARE4 (description="DM_FWSC_SPARE4 [raw]", quantity="none")
Long1d	DM_DRC_SPARE3 (description="DM_DRC_SPARE3 [raw]", quantity="none")
Long1d	DM_GC_ERROR (description="DM_GC_ERROR [raw]", quantity="none")
String1d	DM_DPUR_TASK_AL (description="DM_DPUR_TASK_AL", quantity="none")
String1d	DM_BC_TASK_WR (description="DM_BC_TASK_WR", quantity="none")
String1d	DP_SPL_LINK (description="DP_SPL_LINK", quantity="none")
Double1d	DM_DECR_IDDA_2 (description="DM_DECR_IDDA_2 [eng, mA]", quantity="none")
String1d	DM_FWPC_SEARCHA (description="DM_FWPC_SEARCHA", quantity="none")
Double1d	DM_DECB_REF_0V3 (description="DM_DECB_REF_0V3 [eng, V]", quantity="none")
Long1d	DM_ISR_STAT (description="DM_ISR_STAT [raw]", quantity="none")
String1d	DM_FWPC_SEARCHB (description="DM_FWPC_SEARCHB", quantity="none")
Double1d	DM_DECB_REF_0V4 (description="DM_DECB_REF_0V4 [eng, V]", quantity="none")
Double1d	DM_DECR_IDDA_1 (description="DM_DECR_IDDA_1 [eng, mA]", quantity="none")
Long1d	DM_DECB_TS_ST_3 (description="DM_DECB_TS_ST_3 [raw]", quantity="none")
Long1d	DM_DECB_TS_ST_4 (description="DM_DECB_TS_ST_4 [raw]", quantity="none")
Long1d	DM_DECR_REC_STA (description="DM_DECR_REC_STA [raw]", quantity="none")
Double1d	DM_DECR_V0V_1 (description="DM_DECR_V0V_1 [eng, V]", quantity="none")
String1d	DM_GC_ERR_NS (description="DM_GC_ERR_NS", quantity="none")
Double1d	DM_DECR_VDDR_2 (description="DM_DECR_VDDR_2 [eng, V]", quantity="none")
Double1d	DM_DECR_V0V_2 (description="DM_DECR_V0V_2 [eng, V]", quantity="none")
String1d	DM_CR1_ST_POW (description="DM_CR1_ST_POW", quantity="none")
Double1d	DM_DECB_VDDA_3 (description="DM_DECB_VDDA_3 [eng, V]", quantity="none")
String1d	DM_DBR_SIM_TIME (description="DM_DBR_SIM_TIME", quantity="none")
Double1d	DM_DECB_VDDA_4 (description="DM_DECB_VDDA_4 [eng, V]", quantity="none")

Long1d	DP_COM_SPL_PACK (description="DP_COM_SPL_PACK [raw]", quantity="none")
Long1d	DM_DBC_ERROR (description="DM_DBC_ERROR [raw]", quantity="none")
Double1d	DM_DECR_VDDR_1 (description="DM_DECR_VDDR_1 [eng, V]", quantity="none")
String1d	DM_HKCO_ERR_NS (description="DM_HKCO_ERR_NS", quantity="none")
String1d	DM_SEQ_OPTIONS (description="DM_SEQ_OPTIONS", quantity="none")
Double1d	DM_DSP_TEMP (description="DM_DSP_TEMP [eng, K]", quantity="none")
Long1d	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
Double1d	BOL_TEMP_EV_SWT (description="BOL_TEMP_EV_SWT [eng, K]", quantity="none")
Double1d	DM_DECR_VCAN1_1 (description="DM_DECR_VCAN1_1 [eng, V]", quantity="none")
Double1d	DM_SPU_PS_TEMP (description="DM_SPU_PS_TEMP [eng, K]", quantity="none")
Long1d	DM_CS1C_SPARE1B (description="DM_CS1C_SPARE1B [raw]", quantity="none")
Double1d	DM_DECR_VCAN1_2 (description="DM_DECR_VCAN1_2 [eng, V]", quantity="none")
Double1d	DM_DECR_DCDCN15 (description="DM_DECR_DCDCN15 [eng, mA]", quantity="none")
String1d	DM_CR4_ST_RA (description="DM_CR4_ST_RA", quantity="none")
Double1d	DM_DECB_VCAN1_3 (description="DM_DECB_VCAN1_3 [eng, V]", quantity="none")
Long1d	DM_BR_SPARE2 (description="DM_BR_SPARE2 [raw]", quantity="none")
Double1d	DM_DECB_VCAN1_4 (description="DM_DECB_VCAN1_4 [eng, V]", quantity="none")
Long1d	DM_BOL_CTRL_PAC (description="DM_BOL_CTRL_PAC [raw]", quantity="none")
Long1d	SPS_MEM_CNTS (description="SPS_MEM_CNTS [raw]", quantity="none")
String1d	SPL_DMC_LINK (description="SPL_DMC_LINK", quantity="none")
String1d	DM_RPE_TASK_AL (description="DM_RPE_TASK_AL", quantity="none")
Long1d	DM_CUSTOM_ENT_2 (description="DM_CUSTOM_ENT_2 [raw]", quantity="none")
String1d	DM_CC_UP (description="DM_CC_UP", quantity="none")
String1d	DM_GC_LL_UNLOCK (description="DM_GC_LL_UNLOCK", quantity="none")
Long1d	DM_CUSTOM_ENT_3 (description="DM_CUSTOM_ENT_3 [raw]", quantity="none")

Long1d	DM_RPE_ERROR (description="DM_RPE_ERROR [raw]", quantity="none")
Double1d	BOL_PWR_ANA_P_6 (description="BOL_PWR_ANA_P_6 [eng, V]", quantity="none")
Long1d	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
String1d	DP_SPUL_HK (description="DP_SPUL_HK", quantity="none")
Double1d	BOL_PWR_ANA_P_7 (description="BOL_PWR_ANA_P_7 [eng, V]", quantity="none")
Long1d	DM_CUSTOM_ENT_1 (description="DM_CUSTOM_ENT_1 [raw]", quantity="none")
String1d	DM_BR_TASK_WR (description="DM_BR_TASK_WR", quantity="none")
Double1d	BOL_PWR_ANA_P_4 (description="BOL_PWR_ANA_P_4 [eng, V]", quantity="none")
Long1d	DM_CUSTOM_ENT_6 (description="DM_CUSTOM_ENT_6 [raw]", quantity="none")
Double1d	BOL_PWR_ANA_P_5 (description="BOL_PWR_ANA_P_5 [eng, V]", quantity="none")
Long1d	DM_CUSTOM_ENT_7 (description="DM_CUSTOM_ENT_7 [raw]", quantity="none")
Double1d	BOL_PWR_ANA_P_2 (description="BOL_PWR_ANA_P_2 [eng, V]", quantity="none")
Long1d	DM_CUSTOM_ENT_4 (description="DM_CUSTOM_ENT_4 [raw]", quantity="none")
String1d	DM_GC_UP (description="DM_GC_UP", quantity="none")
Double1d	BOL_PWR_ANA_P_3 (description="BOL_PWR_ANA_P_3 [eng, V]", quantity="none")
Long1d	DM_CUSTOM_ENT_5 (description="DM_CUSTOM_ENT_5 [raw]", quantity="none")
Double1d	BOL_PWR_ANA_P_1 (description="BOL_PWR_ANA_P_1 [eng, V]", quantity="none")
String1d	DM_CS2C_ERR_NS (description="DM_CS2C_ERR_NS", quantity="none")
Long1d	DM_CUSTOM_ENT_8 (description="DM_CUSTOM_ENT_8 [raw]", quantity="none")
Long1d	DM_OBSID (description="DM_OBSID [raw]", quantity="none")
Long1d	DM_CUSTOM_ENT_9 (description="DM_CUSTOM_ENT_9 [raw]", quantity="none")
String1d	DM_TS_1_ST_2 (description="DM_TS_1_ST_2", quantity="none")
String1d	DM_TS_1_ST_3 (description="DM_TS_1_ST_3", quantity="none")
Double1d	DM_DECB_VCAN2_3 (description="DM_DECB_VCAN2_3 [eng, V]", quantity="none")
String1d	DM_TS_1_ST_4 (description="DM_TS_1_ST_4", quantity="none")
String1d	DP_EV_BOL_T_FPU (description="DP_EV_BOL_T_FPU", quantity="none")
Double1d	DM_DECB_VCAN2_4 (description="DM_DECB_VCAN2_4 [eng, V]", quantity="none")

String1d	DP_OBCP_RUN (description="DP_OBCP_RUN", quantity="none")
Double1d	DM_CHOP_OUTPUT (description="DM_CHOP_OUTPUT [eng, mA]", quantity="none")
String1d	DM_TS_1_ST_1 (description="DM_TS_1_ST_1", quantity="none")
Long1d	DM_DECB_CTRL_PA (description="DM_DECB_CTRL_PA [raw]", quantity="none")
Long1d	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
Long1d	DP_DEC_LINK_PE (description="DP_DEC_LINK_PE [raw]", quantity="none")
Long1d	SPS_MAINT_RAMPS (description="SPS_MAINT_RAMPS [raw]", quantity="none")
String1d	DM_GC_DOWN (description="DM_GC_DOWN", quantity="none")
String1d	SPL_DMC_ERROR (description="SPL_DMC_ERROR", quantity="none")
String1d	DM_CR4_ST_CS (description="DM_CR4_ST_CS", quantity="none")
Long1d	DM_SW_ERROR (description="DM_SW_ERROR [raw]", quantity="none")
Double1d	DM_DECB_VGND_3 (description="DM_DECB_VGND_3 [eng, V]", quantity="none")
Double1d	DM_DECR_VCAN2_1 (description="DM_DECR_VCAN2_1 [eng, V]", quantity="none")
Double1d	DM_DECB_VGND_4 (description="DM_DECB_VGND_4 [eng, V]", quantity="none")
Double1d	DM_DECR_VCAN2_2 (description="DM_DECR_VCAN2_2 [eng, V]", quantity="none")
Long1d	DM_DECB_RA_CO_4 (description="DM_DECB_RA_CO_4 [raw]", quantity="none")
String1d	DM_CR3_ST_CS (description="DM_CR3_ST_CS", quantity="none")
String1d	DM_FPU_GR_TS_ST (description="DM_FPU_GR_TS_ST", quantity="none")
Double1d	DM_PSC_V4 (description="DM_PSC_V4 [eng, A]", quantity="none")
Double1d	DM_PSC_V3 (description="DM_PSC_V3 [eng, mA]", quantity="none")
Double1d	DM_PSC_V2 (description="DM_PSC_V2 [eng, mA]", quantity="none")
String1d	DM_CC_TASK_WR (description="DM_CC_TASK_WR", quantity="none")
Double1d	DM_PSC_V1 (description="DM_PSC_V1 [eng, A]", quantity="none")
String1d	DM_CR1_ST_CRPOW (description="DM_CR1_ST_CRPOW", quantity="none")
String1d	DM_CR1_ST_HE (description="DM_CR1_ST_HE", quantity="none")

Double1d	DM_DECB_VDDR_4 (description="DM_DECB_VDDR_4 [eng, V]", quantity="none")
Long1d	DM_DECR_REC_PAC (description="DM_DECR_REC_PAC [raw]", quantity="none")
Double1d	DM_DECB_VDDR_3 (description="DM_DECB_VDDR_3 [eng, V]", quantity="none")
Long1d	DM_DECB_RA_CO_3 (description="DM_DECB_RA_CO_3 [raw]", quantity="none")
String1d	DM_BPE_TASK_WR (description="DM_BPE_TASK_WR", quantity="none")
Long1d	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
String1d	DM_TS_2_ST_2 (description="DM_TS_2_ST_2", quantity="none")
Double1d	DM_DECR_HEAT_V (description="DM_DECR_HEAT_V [eng, V]", quantity="none")
String1d	DM_TS_2_ST_1 (description="DM_TS_2_ST_1", quantity="none")
String1d	DM_TS_2_ST_4 (description="DM_TS_2_ST_4", quantity="none")
String1d	DM_TS_2_ST_3 (description="DM_TS_2_ST_3", quantity="none")
Long1d	DM_CHOP_CTRL_ST (description="DM_CHOP_CTRL_ST [raw]", quantity="none")
String1d	DP_SPUL_LINK (description="DP_SPUL_LINK", quantity="none")
Double1d	DM_DECB_DCDCP15 (description="DM_DECB_DCDCP15 [eng, mA]", quantity="none")
Long1d	DM_HK_DIAG_STAT (description="DM_HK_DIAG_STAT [raw]", quantity="none")
Double1d	DM_DECB_FLASH_V (description="DM_DECB_FLASH_V [eng, V]", quantity="none")
String1d	DP_1355_HANDLER (description="DP_1355_HANDLER", quantity="none")
String1d	DM_FPU_CS_TS_ST (description="DM_FPU_CS_TS_ST", quantity="none")
Double1d	DM_CS1_TARGET (description="DM_CS1_TARGET [eng, Ohm]", quantity="none")
Long1d	DM_DM_DF_IND (description="DM_DM_DF_IND [raw]", quantity="none")
Long1d	DM_FWPC_ERROR (description="DM_FWPC_ERROR [raw]", quantity="none")
Double1d	DM_DECB_FLASH_C (description="DM_DECB_FLASH_C [eng, mA]", quantity="none")
Double1d	DM_DECB_ISS_4 (description="DM_DECB_ISS_4 [eng, mA]", quantity="none")
Double1d	BOL_TEMP_FPU1 (description="BOL_TEMP_FPU1 [eng, K]", quantity="none")
Double1d	DM_DECB_ISS_3 (description="DM_DECB_ISS_3 [eng, mA]", quantity="none")
Double1d	BOL_TEMP_FPU2 (description="BOL_TEMP_FPU2 [eng, K]", quantity="none")

Double1d	BOL_TEMP_DAQ (description="BOL_TEMP_DAQ [eng, degC]", quantity="none")
Long1d	DM_BPE_SPARE4 (description="DM_BPE_SPARE4 [raw]", quantity="none")
Long1d	SPL_INTEG_RAMPS (description="SPL_INTEG_RAMPS [raw]", quantity="none")
Long1d	DM_BC_ERROR (description="DM_BC_ERROR [raw]", quantity="none")
String1d	DM_DBR_TASK_WR (description="DM_DBR_TASK_WR", quantity="none")
Long1d	DM_DECB_RO_CO_4 (description="DM_DECB_RO_CO_4 [raw]", quantity="none")
Double1d	DM_FPU_T1_TEMP (description="DM_FPU_T1_TEMP [eng, K]", quantity="none")
String1d	DM_DRR_ERR_NS (description="DM_DRR_ERR_NS", quantity="none")
Long1d	DM_DECB_RO_CO_3 (description="DM_DECB_RO_CO_3 [raw]", quantity="none")
String1d	DM_BR_TASK_AL (description="DM_BR_TASK_AL", quantity="none")
Long1d	DM_CS2C_ERROR (description="DM_CS2C_ERROR [raw]", quantity="none")
Double1d	DM_DECR_ZB_CM_1 (description="DM_DECR_ZB_CM_1 [eng, V]", quantity="none")
Long1d	DM_CHOP_MAX_DIT (description="DM_CHOP_MAX_DIT [raw]", quantity="none")
Long1d	DM_TIME_2 (description="DM_TIME_2 [raw]", quantity="none")
Double1d	DM_DECR_ZB_CM_2 (description="DM_DECR_ZB_CM_2 [eng, V]", quantity="none")
String1d	DM_SEQ_RUNNING (description="DM_SEQ_RUNNING", quantity="none")
Long1d	DM_TIME_1 (description="DM_TIME_1 [raw]", quantity="none")
Double1d	DM_SPU_PSU_P15V (description="DM_SPU_PSU_P15V [eng, V]", quantity="none")
Long1d	DM_BR_ERROR (description="DM_BR_ERROR [raw]", quantity="none")
String1d	DP_SPUS_HK (description="DP_SPUS_HK", quantity="none")
String1d	DP_EV_BOL_I_RO (description="DP_EV_BOL_I_RO", quantity="none")
Double1d	DM_CPU_LOAD (description="DM_CPU_LOAD [eng, %]", quantity="none")
String1d	DM_CR3_ST_POW (description="DM_CR3_ST_POW", quantity="none")
String1d	DM_RPE_ERR_NS (description="DM_RPE_ERR_NS", quantity="none")
Long1d	DP_STATUS (description="DP_STATUS [raw]", quantity="none")
Long1d	DM_CS1C_SPARE1 (description="DM_CS1C_SPARE1 [raw]", quantity="none")

Long1d	DM_CS1C_SPARE4 (description="DM_CS1C_SPARE4 [raw]", quantity="none")
Long1d	DM_DECR_RO_RA_1 (description="DM_DECR_RO_RA_1 [raw]", quantity="none")
Long1d	DM_DECR_RO_RA_2 (description="DM_DECR_RO_RA_2 [raw]", quantity="none")
String1d	DM_CS2C_LOOP (description="DM_CS2C_LOOP", quantity="none")
String1d	DM_DBR_ERR_NS (description="DM_DBR_ERR_NS", quantity="none")
String1d	DM_DPUS_TASK_WR (description="DM_DPUS_TASK_WR", quantity="none")
Long1d	DM_BBID (description="DM_BBID [raw]", quantity="none")
Long1d	DM_DM_SF_IND (description="DM_DM_SF_IND [raw]", quantity="none")
String1d	DM_BR_LINK (description="DM_BR_LINK", quantity="none")
Double1d	DM_DECB_TS_1_3 (description="DM_DECB_TS_1_3 [eng, K]", quantity="none")
Double1d	DM_DECB_TS_1_4 (description="DM_DECB_TS_1_4 [eng, K]", quantity="none")
String1d	DM_SEQ_ERR_NS (description="DM_SEQ_ERR_NS", quantity="none")
String1d	DM_CS1C_UP (description="DM_CS1C_UP", quantity="none")
String1d	DM_FWPC_TASK_WR (description="DM_FWPC_TASK_WR", quantity="none")
String1d	DM_GC_LL_MOVING (description="DM_GC_LL_MOVING", quantity="none")
Long1d	DM_DPU_SEND_PAC (description="DM_DPU_SEND_PAC [raw]", quantity="none")
String1d	DP_BURST_MODE (description="DP_BURST_MODE", quantity="none")
String1d	DP_COUNTER_SPS (description="DP_COUNTER_SPS", quantity="none")
Long1d	DP_DEC_LINK_DE (description="DP_DEC_LINK_DE [raw]", quantity="none")
String1d	DM_ISR_SYNC_RES (description="DM_ISR_SYNC_RES", quantity="none")
String1d	DM_GC_DEGRADE (description="DM_GC_DEGRADE", quantity="none")
String1d	DP_1355_LINK (description="DP_1355_LINK", quantity="none")
String1d	DM_SW_ERR (description="DM_SW_ERR", quantity="none")
Long1d	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")
String1d	DM_CR4_ST_POW (description="DM_CR4_ST_POW", quantity="none")
String1d	DP_COUNTER_SPL (description="DP_COUNTER_SPL", quantity="none")
Long1d	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")

Long1d	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")
Long1d	SPS_SAMP_CORR (description="SPS_SAMP_CORR [raw]", quantity="none")
String1d	DM_CR2_ST_RA (description="DM_CR2_ST_RA", quantity="none")
Long1d	SPL_MAINT_RAMPS (description="SPL_MAINT_RAMPS [raw]", quantity="none")
Long1d	DP_SPUL_LINK_DE (description="DP_SPUL_LINK_DE [raw]", quantity="none")
String1d	DP_EVENT_SPU (description="DP_EVENT_SPU", quantity="none")
String1d	DM_HKD_TASK_WR (description="DM_HKD_TASK_WR", quantity="none")
Double1d	BOL_TEMP_B_2 (description="BOL_TEMP_B_2 [eng, degC]", quantity="none")
String1d	DM_BR_SENDING (description="DM_BR_SENDING", quantity="none")
Double1d	BOL_TEMP_B_3 (description="BOL_TEMP_B_3 [eng, degC]", quantity="none")
Double1d	BOL_TEMP_B_1 (description="BOL_TEMP_B_1 [eng, degC]", quantity="none")
Long1d	DM_PLL_RES_HI (description="DM_PLL_RES_HI [raw]", quantity="none")
Long1d	DM_FW_SPEC_CTRL (description="DM_FW_SPEC_CTRL [raw]", quantity="none")
Long1d	DM_SEQ_LOOP_ID3 (description="DM_SEQ_LOOP_ID3 [raw]", quantity="none")
Long1d	DM_SEQ_LOOP_ID2 (description="DM_SEQ_LOOP_ID2 [raw]", quantity="none")
Long1d	DM_SEQ_LOOP_ID1 (description="DM_SEQ_LOOP_ID1 [raw]", quantity="none")
Long1d	SPS_REAL (description="SPS_REAL [raw]", quantity="none")
Long1d	DM_SEQ_LOOP_ID0 (description="DM_SEQ_LOOP_ID0 [raw]", quantity="none")
String1d	DM_FWSC_POS_B (description="DM_FWSC_POS_B", quantity="none")
String1d	DM_FWSC_POS_A (description="DM_FWSC_POS_A", quantity="none")
String1d	DP_BLUE_SCIENCE (description="DP_BLUE_SCIENCE", quantity="none")
Long1d	DM_R_SPEC_READ (description="DM_R_SPEC_READ [raw]", quantity="none")
Long1d	DM_SEQ_LOOP_ID4 (description="DM_SEQ_LOOP_ID4 [raw]", quantity="none")
Long1d	SPS_VID (description="SPS_VID [raw]", quantity="none")
String1d	DM_CR4_ST_FL (description="DM_CR4_ST_FL", quantity="none")

Double1d	DM_DECR_IGND_1 (description="DM_DECR_IGND_1 [eng, mA]", quantity="none")
Long1d	DM_BC_SPARE4 (description="DM_BC_SPARE4 [raw]", quantity="none")
Long1d	DM_HKCO_ERROR (description="DM_HKCO_ERROR [raw]", quantity="none")
String1d	DM_CR3_ST_FL (description="DM_CR3_ST_FL", quantity="none")
String1d	DM_DRR_SENDING (description="DM_DRR_SENDING", quantity="none")
Long1d	DM_DRR_SPARE2 (description="DM_DRR_SPARE2 [raw]", quantity="none")
Double1d	SPS_CPUWORKLOAD (description="SPS_CPUWORKLOAD [eng, %]", quantity="none")
String1d	DP_WHICH_OBCP (description="DP_WHICH_OBCP", quantity="none")
Long1d	SPL_REAL (description="SPL_REAL [raw]", quantity="none")
String1d	DP_TEST_MODE (description="DP_TEST_MODE", quantity="none")
Long1d	DM_DECR_RA_CO_1 (description="DM_DECR_RA_CO_1 [raw]", quantity="none")
Long1d	SPS_CI (description="SPS_CI [raw]", quantity="none")
Double1d	DM_DECR_VBI_R_1 (description="DM_DECR_VBI_R_1 [eng, V]", quantity="none")
Double1d	DM_DECR_VBI_R_2 (description="DM_DECR_VBI_R_2 [eng, V]", quantity="none")
Long1d	DM_DECR_RA_CO_2 (description="DM_DECR_RA_CO_2 [raw]", quantity="none")
Long1d	DP_SW_VERS_ID (description="DP_SW_VERS_ID [raw]", quantity="none")
Double1d	DM_DECR_HEAT_C (description="DM_DECR_HEAT_C [eng, mA]", quantity="none")
Long1d	DM_CHOP_TARGET (description="DM_CHOP_TARGET [raw]", quantity="none")
String1d	DM_FWPC_ERR_NS (description="DM_FWPC_ERR_NS", quantity="none")
Long1d	DM_CUSTOM_ENT10 (description="DM_CUSTOM_ENT10 [raw]", quantity="none")
String1d	DM_GC_LS (description="DM_GC_LS", quantity="none")
Double1d	BOL_TEMP_SP (description="BOL_TEMP_SP [eng, K]", quantity="none")
String1d	DM_CR1_ST_FL (description="DM_CR1_ST_FL", quantity="none")
Long1d	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
Double1d	DM_CS2_OUTPUT (description="DM_CS2_OUTPUT [eng, V]", quantity="none")

Long1d	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")
Double1d	DM_CS1_OUTPUT (description="DM_CS1_OUTPUT [eng, V]", quantity="none")
Double1d	BOL_PWR_ANA_N_6 (description="BOL_PWR_ANA_N_6 [eng, V]", quantity="none")
Double1d	DM_DECR_IGND_2 (description="DM_DECR_IGND_2 [eng, mA]", quantity="none")
Double1d	BOL_PWR_ANA_N_7 (description="BOL_PWR_ANA_N_7 [eng, V]", quantity="none")
Double1d	BOL_PWR_ANA_N_4 (description="BOL_PWR_ANA_N_4 [eng, V]", quantity="none")
Double1d	BOL_PWR_ANA_N_5 (description="BOL_PWR_ANA_N_5 [eng, V]", quantity="none")
String1d	DM_CS2C_UP (description="DM_CS2C_UP", quantity="none")
Double1d	BOL_PWR_ANA_N_2 (description="BOL_PWR_ANA_N_2 [eng, V]", quantity="none")
Double1d	BOL_PWR_ANA_N_3 (description="BOL_PWR_ANA_N_3 [eng, V]", quantity="none")
Double1d	DM_DECB_IDDD_4 (description="DM_DECB_IDDD_4 [eng, mA]", quantity="none")
Double1d	DM_DECR_VGND_2 (description="DM_DECR_VGND_2 [eng, V]", quantity="none")
Double1d	DM_DECB_IDDD_3 (description="DM_DECB_IDDD_3 [eng, mA]", quantity="none")
Double1d	DM_DECR_VGND_1 (description="DM_DECR_VGND_1 [eng, V]", quantity="none")
Double1d	BOL_PWR_ANA_N_1 (description="BOL_PWR_ANA_N_1 [eng, V]", quantity="none")
String1d	DM_CR2_ST_POW (description="DM_CR2_ST_POW", quantity="none")
String1d	DM_FWSC_SEARCHB (description="DM_FWSC_SEARCHB", quantity="none")
Long1d	DM_DPU_REC_STAT (description="DM_DPU_REC_STAT [raw]", quantity="none")
String1d	DM_FWSC_SEARCHA (description="DM_FWSC_SEARCHA", quantity="none")
Long1d	DM_VID (description="DM_VID [raw]", quantity="none")
Double1d	BOL_TEMP_SP_SWT (description="BOL_TEMP_SP_SWT [eng, K]", quantity="none")
String1d	DP_HK_MONITOR (description="DP_HK_MONITOR", quantity="none")
Double1d	DM_DECR_DCDCP5 (description="DM_DECR_DCDCP5 [eng, mA]", quantity="none")
String1d	DM_CS1C_LOOP (description="DM_CS1C_LOOP", quantity="none")
Double1d	BOL_TEMP_TS (description="BOL_TEMP_TS [eng, K]", quantity="none")

Long1d	DM_DECR_SR_RB_1 (description="DM_DECR_SR_RB_1 [raw]", quantity="none")
Long1d	DM_SW_SPARE5 (description="DM_SW_SPARE5 [raw]", quantity="none")
Double1d	DM_DECR_VSS_1 (description="DM_DECR_VSS_1 [eng, V]", quantity="none")
Long1d	DM_DECR_SR_RB_2 (description="DM_DECR_SR_RB_2 [raw]", quantity="none")
Double1d	DM_CHOPPER_TEMP (description="DM_CHOPPER_TEMP [eng, K]", quantity="none")
String1d	DM_RPE_TASK_WR (description="DM_RPE_TASK_WR", quantity="none")
Double1d	DM_DECB_TS_2_4 (description="DM_DECB_TS_2_4 [eng, K]", quantity="none")
Double1d	DM_DECB_TS_2_3 (description="DM_DECB_TS_2_3 [eng, K]", quantity="none")
String1d	DP_EVENT_DPU (description="DP_EVENT_DPU", quantity="none")
String1d	DM_CR4_ST_HE (description="DM_CR4_ST_HE", quantity="none")
Long1d	DM_DRR_ERROR (description="DM_DRR_ERROR [raw]", quantity="none")
Double1d	DM_DECR_VSS_2 (description="DM_DECR_VSS_2 [eng, V]", quantity="none")
Double1d	DM_DECB_DCDC_P5 (description="DM_DECB_DCDC_P5 [eng, mA]", quantity="none")
Long1d	SPL_RCX (description="SPL_RCX [raw]", quantity="none")
String1d	DM_DSIM_TASK_WR (description="DM_DSIM_TASK_WR", quantity="none")
Long1d	DM_BLUE_ENC_PAC (description="DM_BLUE_ENC_PAC [raw]", quantity="none")

9.4.8. HPGENHK: General Housekeeping

product (type="HPGENHK", description="HPGENHKS")	
Metadata	
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	formatVersion (description="Format Version of the Products")
StringParameter	fileName (description="null")

StringParameter	missionConfiguration (description="Mission Configuration")
LongParameter	obsid (description="Observation ID")
LongParameter	obsType (description="null")
LongParameter	obsCount (description="OBSID")
table dataset	*(description="Generated from PacketSequence $Revision: 1.4 $")*
Metadata	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
Long1d	Time (description="Time [microseconds]", quantity="microsecond [1.0E-6 s]")
Long1d	DP_1_8_REJECTED (description="DP_1_8_REJECTED [raw]", quantity="none")
Long1d	SPL_PIX (description="SPL_PIX [raw]", quantity="none")
Long1d	SPL_VID (description="SPL_VID [raw]", quantity="none")
Double1d	DM_SPU_SWL_TEMP (description="DM_SPU_SWL_TEMP [eng, K]", quantity="none")
Long1d	DP_SPUL_LINK_PE (description="DP_SPUL_LINK_PE [raw]", quantity="none")
String1d	DP_SPS_LINK (description="DP_SPS_LINK", quantity="none")
String1d	DM_FPU_S2_TS_ST (description="DM_FPU_S2_TS_ST", quantity="none")
Long1d	DM_HK_CTRL_STAT (description="DM_HK_CTRL_STAT [raw]", quantity="none")
Long1d	DM_DBR_SPARE2 (description="DM_DBR_SPARE2 [raw]", quantity="none")
String1d	DP_DMC_CMD (description="DP_DMC_CMD", quantity="none")
String1d	DM_FPU_CH_TS_ST (description="DM_FPU_CH_TS_ST", quantity="none")
Double1d	DM_SPU_VCC_CUR (description="DM_SPU_VCC_CUR [eng, A]", quantity="none")
Long1d	DM_DECR_CTRL_PA (description="DM_DECR_CTRL_PA [raw]", quantity="none")
Double1d	DM_FW_PHOT_TEMP (description="DM_FW_PHOT_TEMP [eng, K]", quantity="none")
String1d	DP_OBCP_MANAGER (description="DP_OBCP_MANAGER", quantity="none")
Long1d	DM_PM_SF_IND (description="DM_PM_SF_IND [raw]", quantity="none")
String1d	DM_HKCO_TASK_AL (description="DM_HKCO_TASK_AL", quantity="none")
String1d	DP_IRQ3_TASK (description="DP_IRQ3_TASK", quantity="none")
Long1d	DM_HKCO_SPARE5 (description="DM_HKCO_SPARE5 [raw]", quantity="none")
Double1d	BOL_I_HEATER_1R (description="BOL_I_HEATER_1R [eng, A]", quantity="none")
Double1d	BOL_TEMP_PSU_1 (description="BOL_TEMP_PSU_1 [eng, degC]", quantity="none")

String1d	SPS_DMC_LINK (description="SPS_DMC_LINK", quantity="none")
Double1d	BOL_TEMP_PSU_2 (description="BOL_TEMP_PSU_2 [eng, degC]", quantity="none")
String1d	DM_BPE_LINK (description="DM_BPE_LINK", quantity="none")
String1d	DP_RED_SCIENCE (description="DP_RED_SCIENCE", quantity="none")
String1d	DM_DRR_TASK_WR (description="DM_DRR_TASK_WR", quantity="none")
Long1d	DM_DPUR_SPARE4 (description="DM_DPUR_SPARE4 [raw]", quantity="none")
String1d	DM_FPU_FWS_TS_S (description="DM_FPU_FWS_TS_S", quantity="none")
Double1d	BOL_HEAT_EV_SWT (description="BOL_HEAT_EV_SWT [eng, A]", quantity="none")
Long1d	DP_COM_SPL_NACK (description="DP_COM_SPL_NACK [raw]", quantity="none")
String1d	DM_SEQ_IDLE (description="DM_SEQ_IDLE", quantity="none")
Long1d	SID (description="SID [raw]", quantity="none")
String1d	DM_DRC_TASK_AL (description="DM_DRC_TASK_AL", quantity="none")
Long1d	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
String1d	DM_HKD_ERR_NS (description="DM_HKD_ERR_NS", quantity="none")
Long1d	DM_DPU_SEN_STAT (description="DM_DPU_SEN_STAT [raw]", quantity="none")
Long1d	DM_BOL_CTRL_STA (description="DM_BOL_CTRL_STA [raw]", quantity="none")
Double1d	SPL_CPUWORKLOAD (description="SPL_CPUWORKLOAD [eng, %]", quantity="none")
Double1d	BOL_TEMP_R_1 (description="BOL_TEMP_R_1 [eng, degC]", quantity="none")
Double1d	BOL_TEMP_R_2 (description="BOL_TEMP_R_2 [eng, degC]", quantity="none")
Double1d	BOL_TEMP_R_3 (description="BOL_TEMP_R_3 [eng, degC]", quantity="none")
Double1d	BOL_TEMP_R_4 (description="BOL_TEMP_R_4 [eng, degC]", quantity="none")
Double1d	BOL_I_HEATER_2R (description="BOL_I_HEATER_2R [eng, A]", quantity="none")
Double1d	BOL_TEMP_R_5 (description="BOL_TEMP_R_5 [eng, degC]", quantity="none")
String1d	DP_DMC_HK (description="DP_DMC_HK", quantity="none")
Long1d	DP_GEN_TM_LOST (description="DP_GEN_TM_LOST [raw]", quantity="none")
Long1d	DM_LAST_ERR_ID (description="DM_LAST_ERR_ID [raw]", quantity="none")

String1d	DP_SPUS_LINK (description="DP_SPUS_LINK", quantity="none")
Long1d	DM_SW_GLOBAL_ST (description="DM_SW_GLOBAL_ST [raw]", quantity="none")
Long1d	DM_BOL_REC_PAC (description="DM_BOL_REC_PAC [raw]", quantity="none")
String1d	DM_SW_COPY_OBS (description="DM_SW_COPY_OBS", quantity="none")
String1d	DP_HK_CHK (description="DP_HK_CHK", quantity="none")
Long1d	DM_LAST_ER_BF16 (description="DM_LAST_ER_BF16 [raw]", quantity="none")
String1d	DM_DRC_ERR_NS (description="DM_DRC_ERR_NS", quantity="none")
Long1d	DM_LAST_ER_BF10 (description="DM_LAST_ER_BF10 [raw]", quantity="none")
Long1d	DM_RPE_SPARE4 (description="DM_RPE_SPARE4 [raw]", quantity="none")
Long1d	DM_LAST_ER_BF11 (description="DM_LAST_ER_BF11 [raw]", quantity="none")
Double1d	DM_REF_VOLT_5V (description="DM_REF_VOLT_5V [eng, V]", quantity="none")
Long1d	SPS_PIX (description="SPS_PIX [raw]", quantity="none")
Long1d	DM_DRC_ERROR (description="DM_DRC_ERROR [raw]", quantity="none")
Long1d	DM_LAST_ER_BF14 (description="DM_LAST_ER_BF14 [raw]", quantity="none")
Double1d	DP_WORK_LOAD (description="DP_WORK_LOAD [eng, %]", quantity="none")
Long1d	DM_LAST_ER_BF15 (description="DM_LAST_ER_BF15 [raw]", quantity="none")
Long1d	DM_LAST_ER_BF12 (description="DM_LAST_ER_BF12 [raw]", quantity="none")
String1d	DP_DEC_LINK (description="DP_DEC_LINK", quantity="none")
Long1d	DM_LAST_ER_BF13 (description="DM_LAST_ER_BF13 [raw]", quantity="none")
Long1d	DP_COM_DMC_PACK (description="DP_COM_DMC_PACK [raw]", quantity="none")
String1d	DM_DPUR_TASK_WR (description="DM_DPUR_TASK_WR", quantity="none")
String1d	DP_EEPROM_PROT (description="DP_EEPROM_PROT", quantity="none")
Long1d	DP_COM_SPS_PACK (description="DP_COM_SPS_PACK [raw]", quantity="none")
Double1d	DP_VOL_5P (description="DP_VOL_5P [eng, V]", quantity="none")
Long1d	DM_LAST_ER_BF3 (description="DM_LAST_ER_BF3 [raw]", quantity="none")
Long1d	DM_LAST_ER_BF4 (description="DM_LAST_ER_BF4 [raw]", quantity="none")

Long1d	DM_LAST_ER_BF5 (description="DM_LAST_ER_BF5 [raw]", quantity="none")
Long1d	DM_LAST_ER_BF6 (description="DM_LAST_ER_BF6 [raw]", quantity="none")
Long1d	DM_LAST_ER_BF7 (description="DM_LAST_ER_BF7 [raw]", quantity="none")
String1d	DM_DPUS_LINK (description="DM_DPUS_LINK", quantity="none")
Long1d	DM_LAST_ER_BF8 (description="DM_LAST_ER_BF8 [raw]", quantity="none")
Double1d	DP_VOL_25P (description="DP_VOL_25P [eng, V]", quantity="none")
Long1d	DM_LAST_ER_BF9 (description="DM_LAST_ER_BF9 [raw]", quantity="none")
Long1d	DP_COM_DMC_NACK (description="DP_COM_DMC_NACK [raw]", quantity="none")
String1d	DM_SEQ_TASK_AL (description="DM_SEQ_TASK_AL", quantity="none")
Long1d	DM_FPU_T_SEN_ST (description="DM_FPU_T_SEN_ST [raw]", quantity="none")
Long1d	DM_BOL_STATUS (description="DM_BOL_STATUS [raw]", quantity="none")
String1d	DM_BR_SIM_TIME (description="DM_BR_SIM_TIME", quantity="none")
Long1d	DM_LAST_ER_BF2 (description="DM_LAST_ER_BF2 [raw]", quantity="none")
Double1d	BOL_PWR_DIG_7 (description="BOL_PWR_DIG_7 [eng, V]", quantity="none")
Long1d	DM_LAST_ER_BF1 (description="DM_LAST_ER_BF1 [raw]", quantity="none")
String1d	DM_FPU_FWP_TS_S (description="DM_FPU_FWP_TS_S", quantity="none")
Long1d	DP_1_2_REJECTED (description="DP_1_2_REJECTED [raw]", quantity="none")
String1d	DP_INIT (description="DP_INIT", quantity="none")
Long1d	DM_BLUE_PAC_ENC (description="DM_BLUE_PAC_ENC [raw]", quantity="none")
String1d	DP_BUFFER_STAT (description="DP_BUFFER_STAT", quantity="none")
String1d	DP_COUNTER_SPEC (description="DP_COUNTER_SPEC", quantity="none")
String1d	DM_DBC_TASK_AL (description="DM_DBC_TASK_AL", quantity="none")
Long1d	DM_BOL_READ_CNT (description="DM_BOL_READ_CNT [raw]", quantity="none")
Long1d	DM_HK_DIAG_PERI (description="DM_HK_DIAG_PERI [raw]", quantity="none")

Long1d	DM_DECB_REC_PAC (description="DM_DECB_REC_PAC [raw]", quantity="none")
Long1d	SPL_MEM_CNTS (description="SPL_MEM_CNTS [raw]", quantity="none")
Long1d	DM_DBR_ERROR (description="DM_DBR_ERROR [raw]", quantity="none")
Long1d	DP_HK_LOST (description="DP_HK_LOST [raw]", quantity="none")
String1d	DP_CONTROLLER (description="DP_CONTROLLER", quantity="none")
String1d	DP_EV_BOL_I_HEA (description="DP_EV_BOL_I_HEA", quantity="none")
String1d	DP_STABLE_SPL (description="DP_STABLE_SPL", quantity="none")
String1d	DP_EV_BOL_BIAS (description="DP_EV_BOL_BIAS", quantity="none")
Double1d	DM_SPU_LWL_TEMP (description="DM_SPU_LWL_TEMP [eng, K]", quantity="none")
String1d	DM_HKD_TASK_AL (description="DM_HKD_TASK_AL", quantity="none")
String1d	DM_BPE_TASK_AL (description="DM_BPE_TASK_AL", quantity="none")
Long1d	DP_EVENT_LOST (description="DP_EVENT_LOST [raw]", quantity="none")
String1d	DM_SW_ALIVE (description="DM_SW_ALIVE", quantity="none")
Double1d	DM_SPU_VP_CUR (description="DM_SPU_VP_CUR [eng, mA]", quantity="none")
Long1d	DP_COM_REC_DPU (description="DP_COM_REC_DPU [raw]", quantity="none")
String1d	DM_DPUS_ERR_NS (description="DM_DPUS_ERR_NS", quantity="none")
String1d	DM_DBR_LINK (description="DM_DBR_LINK", quantity="none")
Long1d	DP_SW_SUBVERS_ID (description="DP_SW_SUBVERS_ID [raw]", quantity="none")
Long1d	DP_SPUS_LINK_PE (description="DP_SPUS_LINK_PE [raw]", quantity="none")
String1d	DP_STABLE_SPS (description="DP_STABLE_SPS", quantity="none")
Long1d	DM_DRC_SPARE3 (description="DM_DRC_SPARE3 [raw]", quantity="none")
String1d	DM_DBC_TASK_WR (description="DM_DBC_TASK_WR", quantity="none")
String1d	DM_DPUR_TASK_AL (description="DM_DPUR_TASK_AL", quantity="none")
String1d	DM_BC_TASK_WR (description="DM_BC_TASK_WR", quantity="none")
String1d	DP_SPL_LINK (description="DP_SPL_LINK", quantity="none")
String1d	DP_UNIT (description="DP_UNIT", quantity="none")

Long1d	DM_DECR_REC_STA (description="DM_DECR_REC_STA [raw]", quantity="none")
String1d	DM_DBR_TASK_AL (description="DM_DBR_TASK_AL", quantity="none")
Long1d	DM_SEQ_ERROR (description="DM_SEQ_ERROR [raw]", quantity="none")
Double1d	DM_CAL_SRC_TEMP (description="DM_CAL_SRC_TEMP [eng, K]", quantity="none")
String1d	DM_DBC_ERR_NS (description="DM_DBC_ERR_NS", quantity="none")
String1d	DM_DBR_SIM_TIME (description="DM_DBR_SIM_TIME", quantity="none")
String1d	DM_DRC_POWER (description="DM_DRC_POWER", quantity="none")
String1d	DM_SEQ_TASK_WR (description="DM_SEQ_TASK_WR", quantity="none")
Long1d	DP_COM_SPL_PACK (description="DP_COM_SPL_PACK [raw]", quantity="none")
Long1d	DM_DBC_ERROR (description="DM_DBC_ERROR [raw]", quantity="none")
String1d	DM_HKCO_ERR_NS (description="DM_HKCO_ERR_NS", quantity="none")
Double1d	DM_DSP_TEMP (description="DM_DSP_TEMP [eng, K]", quantity="none")
String1d	DM_FWSP_CUR_POS (description="DM_FWSP_CUR_POS", quantity="none")
Long1d	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
Double1d	BOL_TEMP_EV_SWT (description="BOL_TEMP_EV_SWT [eng, K]", quantity="none")
Double1d	DM_SPU_PS_TEMP (description="DM_SPU_PS_TEMP [eng, K]", quantity="none")
Double1d	BOL_HEAT_SP_SWT (description="BOL_HEAT_SP_SWT [eng, A]", quantity="none")
String1d	DM_DPUR_ERR_NS (description="DM_DPUR_ERR_NS", quantity="none")
Long1d	DM_HKD_ERROR (description="DM_HKD_ERROR [raw]", quantity="none")
Long1d	DM_BR_SPARE2 (description="DM_BR_SPARE2 [raw]", quantity="none")
Long1d	DM_BOL_CTRL_PAC (description="DM_BOL_CTRL_PAC [raw]", quantity="none")
String1d	DP_SPUS_CMD (description="DP_SPUS_CMD", quantity="none")
Long1d	SPS_MEM_CNTS (description="SPS_MEM_CNTS [raw]", quantity="none")
String1d	DP_1553_HANDLER (description="DP_1553_HANDLER", quantity="none")
Double1d	DM_SPU_VCC_VOL (description="DM_SPU_VCC_VOL [eng, V]", quantity="none")

String1d	SPL_DMC_LINK (description="SPL_DMC_LINK", quantity="none")
Long1d	DM_DPUS_SPARE4 (description="DM_DPUS_SPARE4 [raw]", quantity="none")
Long1d	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")
Double1d	DM_GRATING_TEMP (description="DM_GRATING_TEMP [eng, K]", quantity="none")
String1d	DM_RPE_TASK_AL (description="DM_RPE_TASK_AL", quantity="none")
Long1d	DM_CUSTOM_ENT_2 (description="DM_CUSTOM_ENT_2 [raw]", quantity="none")
Long1d	DM_CUSTOM_ENT_3 (description="DM_CUSTOM_ENT_3 [raw]", quantity="none")
Long1d	DM_RPE_ERROR (description="DM_RPE_ERROR [raw]", quantity="none")
String1d	DP_TM_RATE (description="DP_TM_RATE", quantity="none")
Long1d	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
String1d	DP_SPUL_HK (description="DP_SPUL_HK", quantity="none")
Double1d	BOL_PWR_ANA_P_7 (description="BOL_PWR_ANA_P_7 [eng, V]", quantity="none")
Long1d	DM_CUSTOM_ENT_1 (description="DM_CUSTOM_ENT_1 [raw]", quantity="none")
String1d	DM_BR_TASK_WR (description="DM_BR_TASK_WR", quantity="none")
String1d	DM_DRR_SIM_TIME (description="DM_DRR_SIM_TIME", quantity="none")
Long1d	DM_CUSTOM_ENT_6 (description="DM_CUSTOM_ENT_6 [raw]", quantity="none")
Long1d	DM_CUSTOM_ENT_7 (description="DM_CUSTOM_ENT_7 [raw]", quantity="none")
Long1d	DM_CUSTOM_ENT_4 (description="DM_CUSTOM_ENT_4 [raw]", quantity="none")
Long1d	DM_CUSTOM_ENT_5 (description="DM_CUSTOM_ENT_5 [raw]", quantity="none")
String1d	DM_DPUR_LINK (description="DM_DPUR_LINK", quantity="none")
Long1d	DM_CUSTOM_ENT_8 (description="DM_CUSTOM_ENT_8 [raw]", quantity="none")
Long1d	DM_OBSID (description="DM_OBSID [raw]", quantity="none")
Long1d	DM_CUSTOM_ENT_9 (description="DM_CUSTOM_ENT_9 [raw]", quantity="none")
String1d	DP_EV_BOL_T_FPU (description="DP_EV_BOL_T_FPU", quantity="none")
Long1d	DM_RED_ENC_PAC (description="DM_RED_ENC_PAC [raw]", quantity="none")
String1d	DP_OBCP_RUN (description="DP_OBCP_RUN", quantity="none")

Long1d	DM_DECB_CTRL_PA (description="DM_DECB_CTRL_PA [raw]", quantity="none")
Long1d	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
Long1d	DP_DEC_LINK_PE (description="DP_DEC_LINK_PE [raw]", quantity="none")
String1d	DP_DMC_LINK (description="DP_DMC_LINK", quantity="none")
String1d	SPL_DMC_ERROR (description="SPL_DMC_ERROR", quantity="none")
String1d	DM_RPE_LINK (description="DM_RPE_LINK", quantity="none")
String1d	DP_EV_BOL_V_PWR (description="DP_EV_BOL_V_PWR", quantity="none")
Long1d	DM_SW_ERROR (description="DM_SW_ERROR [raw]", quantity="none")
String1d	DP_SPUL_CMD (description="DP_SPUL_CMD", quantity="none")
Long1d	DP_SPUS_LINK_DE (description="DP_SPUS_LINK_DE [raw]", quantity="none")
Long1d	DM_DECB_CTRL_ST (description="DM_DECB_CTRL_ST [raw]", quantity="none")
Double1d	DP_T (description="DP_T [eng, degC]", quantity="none")
String1d	DM_FPU_GR_TS_ST (description="DM_FPU_GR_TS_ST", quantity="none")
Double1d	DM_PSC_V4 (description="DM_PSC_V4 [eng, A]", quantity="none")
Double1d	DM_PSC_V3 (description="DM_PSC_V3 [eng, mA]", quantity="none")
Double1d	DM_PSC_V2 (description="DM_PSC_V2 [eng, mA]", quantity="none")
Double1d	DM_PSC_V1 (description="DM_PSC_V1 [eng, A]", quantity="none")
Long1d	DM_DECR_REC_PAC (description="DM_DECR_REC_PAC [raw]", quantity="none")
String1d	DP_STABLE_DEC (description="DP_STABLE_DEC", quantity="none")
String1d	SPS_DMC_ERROR (description="SPS_DMC_ERROR", quantity="none")
String1d	DM_BPE_TASK_WR (description="DM_BPE_TASK_WR", quantity="none")
Long1d	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
Long1d	DM_GRAT_CUR_POS (description="DM_GRAT_CUR_POS [raw]", quantity="none")
String1d	DP_SPUL_LINK (description="DP_SPUL_LINK", quantity="none")
String1d	DM_BC_LINK (description="DM_BC_LINK", quantity="none")
Long1d	DM_HK_DIAG_STAT (description="DM_HK_DIAG_STAT [raw]", quantity="none")
String1d	DP_1355_HANDLER (description="DP_1355_HANDLER", quantity="none")

String1d	DM_FPU_CS_TS_ST (description="DM_FPU_CS_TS_ST", quantity="none")
Long1d	DM_DM_DF_IND (description="DM_DM_DF_IND [raw]", quantity="none")
String1d	DP_EV_BOL_I_SP2 (description="DP_EV_BOL_I_SP2", quantity="none")
String1d	DP_EV_BOL_I_SP1 (description="DP_EV_BOL_I_SP1", quantity="none")
Long1d	DM_DPU_REC_PAC (description="DM_DPU_REC_PAC [raw]", quantity="none")
String1d	DP_COUNTER_PHOT (description="DP_COUNTER_PHOT", quantity="none")
Double1d	BOL_TEMP_FPU1 (description="BOL_TEMP_FPU1 [eng, K]", quantity="none")
Double1d	BOL_TEMP_FPU2 (description="BOL_TEMP_FPU2 [eng, K]", quantity="none")
Double1d	BOL_TEMP_DAQ (description="BOL_TEMP_DAQ [eng, degC]", quantity="none")
Long1d	DM_SEQ_STATUS (description="DM_SEQ_STATUS [raw]", quantity="none")
Long1d	DM_BPE_SPARE4 (description="DM_BPE_SPARE4 [raw]", quantity="none")
Long1d	DM_BC_ERROR (description="DM_BC_ERROR [raw]", quantity="none")
String1d	DM_DRC_LINK (description="DM_DRC_LINK", quantity="none")
String1d	DM_DBR_TASK_WR (description="DM_DBR_TASK_WR", quantity="none")
Double1d	DM_FPU_T1_TEMP (description="DM_FPU_T1_TEMP [eng, K]", quantity="none")
String1d	DM_DRR_ERR_NS (description="DM_DRR_ERR_NS", quantity="none")
String1d	DM_BR_TASK_AL (description="DM_BR_TASK_AL", quantity="none")
String1d	DM_FPU_S1_TS_ST (description="DM_FPU_S1_TS_ST", quantity="none")
Long1d	DM_TIME_2 (description="DM_TIME_2 [raw]", quantity="none")
String1d	DM_BC_TASK_AL (description="DM_BC_TASK_AL", quantity="none")
Double1d	BOL_HEATER_FPU (description="BOL_HEATER_FPU [eng, A]", quantity="none")
String1d	DM_SEQ_RUNNING (description="DM_SEQ_RUNNING", quantity="none")
Long1d	DM_TIME_1 (description="DM_TIME_1 [raw]", quantity="none")
Long1d	DP_COM_SPS_NACK (description="DP_COM_SPS_NACK [raw]", quantity="none")
String1d	DM_BC_ERR_NS (description="DM_BC_ERR_NS", quantity="none")

String1d	DM_DBC_POWER (description="DM_DBC_POWER", quantity="none")
Double1d	DM_SPU_PSU_P15V (description="DM_SPU_PSU_P15V [eng, V]", quantity="none")
Long1d	DM_RED_PAC_ENC (description="DM_RED_PAC_ENC [raw]", quantity="none")
Long1d	DM_BR_ERROR (description="DM_BR_ERROR [raw]", quantity="none")
String1d	DP_SPUS_HK (description="DP_SPUS_HK", quantity="none")
String1d	DP_EV_BOL_I_RO (description="DP_EV_BOL_I_RO", quantity="none")
Long1d	DM_DBC_SPARE3 (description="DM_DBC_SPARE3 [raw]", quantity="none")
Double1d	DM_CPU_LOAD (description="DM_CPU_LOAD [eng, %]", quantity="none")
Double1d	DM_FPU_T2_TEMP (description="DM_FPU_T2_TEMP [eng, K]", quantity="none")
Long1d	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
String1d	DP_EV_DEC_SPC (description="DP_EV_DEC_SPC", quantity="none")
String1d	DP_EVENT_DEC (description="DP_EVENT_DEC", quantity="none")
String1d	DM_RPE_ERR_NS (description="DM_RPE_ERR_NS", quantity="none")
Long1d	DP_STATUS (description="DP_STATUS [raw]", quantity="none")
Long1d	DP_COM_DMC (description="DP_COM_DMC [raw]", quantity="none")
String1d	DM_DBR_ERR_NS (description="DM_DBR_ERR_NS", quantity="none")
String1d	DM_DPUS_TASK_WR (description="DM_DPUS_TASK_WR", quantity="none")
Long1d	DM_BBID (description="DM_BBID [raw]", quantity="none")
String1d	DP_EV_BOL_T_WE (description="DP_EV_BOL_T_WE", quantity="none")
Long1d	DM_DM_SF_IND (description="DM_DM_SF_IND [raw]", quantity="none")
String1d	DM_BR_LINK (description="DM_BR_LINK", quantity="none")
String1d	DM_SEQ_ERR_NS (description="DM_SEQ_ERR_NS", quantity="none")
Double1d	DM_DCDC_TEMP (description="DM_DCDC_TEMP [eng, K]", quantity="none")
String1d	DM_HKD_DIAGMODE (description="DM_HKD_DIAGMODE", quantity="none")
Long1d	DM_DPU_SEND_PAC (description="DM_DPU_SEND_PAC [raw]", quantity="none")
String1d	DM_DRR_LINK (description="DM_DRR_LINK", quantity="none")

String1d	DP_AF_24_SPARE (description="DP_AF_24_SPARE", quantity="none")
String1d	DP_BURST_MODE (description="DP_BURST_MODE", quantity="none")
String1d	DP_COUNTER_SPS (description="DP_COUNTER_SPS", quantity="none")
Long1d	DP_DEC_LINK_DE (description="DP_DEC_LINK_DE [raw]", quantity="none")
String1d	DP_1355_LINK (description="DP_1355_LINK", quantity="none")
String1d	DP_1553CHANNEL (description="DP_1553CHANNEL", quantity="none")
Double1d	DM_FW_SPEC_TEMP (description="DM_FW_SPEC_TEMP [eng, K]", quantity="none")
String1d	DM_SW_ERR (description="DM_SW_ERR", quantity="none")
Long1d	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")
String1d	DM_DBR_SENDING (description="DM_DBR_SENDING", quantity="none")
String1d	DP_COUNTER_SPL (description="DP_COUNTER_SPL", quantity="none")
String1d	DM_DRR_TASK_AL (description="DM_DRR_TASK_AL", quantity="none")
Long1d	DM_SEQ_SPARE1 (description="DM_SEQ_SPARE1 [raw]", quantity="none")
Long1d	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
Long1d	DM_SEQ_SPARE2 (description="DM_SEQ_SPARE2 [raw]", quantity="none")
Long1d	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")
Long1d	DM_DPUS_ERROR (description="DM_DPUS_ERROR [raw]", quantity="none")
Long1d	DP_SPUL_LINK_DE (description="DP_SPUL_LINK_DE [raw]", quantity="none")
String1d	DP_EVENT_SPU (description="DP_EVENT_SPU", quantity="none")
String1d	DM_HKD_TASK_WR (description="DM_HKD_TASK_WR", quantity="none")
String1d	DM_DRC_TASK_WR (description="DM_DRC_TASK_WR", quantity="none")
Long1d	DP_COM_SPUS (description="DP_COM_SPUS [raw]", quantity="none")
Double1d	BOL_TEMP_B_2 (description="BOL_TEMP_B_2 [eng, degC]", quantity="none")
String1d	DM_BR_SENDING (description="DM_BR_SENDING", quantity="none")
Double1d	BOL_TEMP_B_3 (description="BOL_TEMP_B_3 [eng, degC]", quantity="none")
Double1d	BOL_TEMP_B_1 (description="BOL_TEMP_B_1 [eng, degC]", quantity="none")

Long1d	DP_COM_SPUL (description="DP_COM_SPUL [raw]", quantity="none")
Long1d	DM_HKD_SPARE3 (description="DM_HKD_SPARE3 [raw]", quantity="none")
Long1d	DP_AF_STATUS (description="DP_AF_STATUS [raw]", quantity="none")
String1d	DP_BLUE_SCIENCE (description="DP_BLUE_SCIENCE", quantity="none")
String1d	DM_DPUS_TASK_AL (description="DM_DPUS_TASK_AL", quantity="none")
Long1d	DP_SPARE (description="DP_SPARE [raw]", quantity="none")
Long1d	DM_R_SPEC_READ (description="DM_R_SPEC_READ [raw]", quantity="none")
Long1d	SPS_VID (description="SPS_VID [raw]", quantity="none")
Double1d	BOL_HEATER_SP (description="BOL_HEATER_SP [eng, A]", quantity="none")
Long1d	DM_BC_SPARE4 (description="DM_BC_SPARE4 [raw]", quantity="none")
Long1d	DM_HKCO_ERROR (description="DM_HKCO_ERROR [raw]", quantity="none")
String1d	DM_DRR_SENDING (description="DM_DRR_SENDING", quantity="none")
Long1d	DM_DRR_SPARE2 (description="DM_DRR_SPARE2 [raw]", quantity="none")
String1d	DM_BR_ERR_NS (description="DM_BR_ERR_NS", quantity="none")
Double1d	SPS_CPUWORKLOAD (description="SPS_CPUWORKLOAD [eng, %]", quantity="none")
Long1d	DM_PM_DF_IND (description="DM_PM_DF_IND [raw]", quantity="none")
Long1d	DM_DPUR_ERROR (description="DM_DPUR_ERROR [raw]", quantity="none")
Long1d	DM_BOL_REC_STAT (description="DM_BOL_REC_STAT [raw]", quantity="none")
String1d	DP_WHICH_OBCP (description="DP_WHICH_OBCP", quantity="none")
Double1d	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")
String1d	DP_TEST_MODE (description="DP_TEST_MODE", quantity="none")
String1d	DM_BPE_ERR_NS (description="DM_BPE_ERR_NS", quantity="none")
Long1d	DM_IRS_CNT (description="DM_IRS_CNT [raw]", quantity="none")
Long1d	SPS_CI (description="SPS_CI [raw]", quantity="none")
Long1d	DM_CHOP_CUR_POS (description="DM_CHOP_CUR_POS [raw]", quantity="none")

Long1d	DM_HKD_SPARE1 (description="DM_HKD_SPARE1 [raw]", quantity="none")
Long1d	DP_SW_VERS_ID (description="DP_SW_VERS_ID [raw]", quantity="none")
Long1d	DM_CUSTOM_ENT10 (description="DM_CUSTOM_ENT10 [raw]", quantity="none")
Double1d	BOL_TEMP_SP (description="BOL_TEMP_SP [eng, K]", quantity="none")
Long1d	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
Long1d	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")
String1d	DM_FWPH_CUR_POS (description="DM_FWPH_CUR_POS", quantity="none")
String1d	DM_DBC_LINK (description="DM_DBC_LINK", quantity="none")
Long1d	DM_BPE_ERROR (description="DM_BPE_ERROR [raw]", quantity="none")
Long1d	SPL_CI (description="SPL_CI [raw]", quantity="none")
Double1d	BOL_PWR_ANA_N_7 (description="BOL_PWR_ANA_N_7 [eng, V]", quantity="none")
Long1d	DM_DECR_CTRL_ST (description="DM_DECR_CTRL_ST [raw]", quantity="none")
Long1d	DP_TC_LOST (description="DP_TC_LOST [raw]", quantity="none")
Double1d	DP_VOL_15P (description="DP_VOL_15P [eng, V]", quantity="none")
Double1d	DP_VOL_15N (description="DP_VOL_15N [eng, V]", quantity="none")
Long1d	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
Long1d	DM_DPU_REC_STAT (description="DM_DPU_REC_STAT [raw]", quantity="none")
Long1d	DM_VID (description="DM_VID [raw]", quantity="none")
Double1d	BOL_TEMP_SP_SWT (description="BOL_TEMP_SP_SWT [eng, K]", quantity="none")
Double1d	DM_REF_VOLT_0V (description="DM_REF_VOLT_0V [eng, V]", quantity="none")
String1d	DP_COUNTER_DEC (description="DP_COUNTER_DEC", quantity="none")
Long1d	DM_B_SPEC_READ (description="DM_B_SPEC_READ [raw]", quantity="none")
String1d	DP_HK_MONITOR (description="DP_HK_MONITOR", quantity="none")
Double1d	BOL_TEMP_FPU_ST (description="BOL_TEMP_FPU_ST [eng, K]", quantity="none")
Double1d	BOL_TEMP_TS (description="BOL_TEMP_TS [eng, K]", quantity="none")
Long1d	DM_SW_SPARE5 (description="DM_SW_SPARE5 [raw]", quantity="none")

Long1d	DP_COM_REJ_DPU (description="DP_COM_REJ_DPU [raw]", quantity="none")
Double1d	DM_CHOPPER_TEMP (description="DM_CHOPPER_TEMP [eng, K]", quantity="none")
String1d	DM_RPE_TASK_WR (description="DM_RPE_TASK_WR", quantity="none")
Double1d	BOL_I_HEATER_B4 (description="BOL_I_HEATER_B4 [eng, A]", quantity="none")
Long1d	HD_APID (description="HD_APID [raw]", quantity="none")
String1d	DP_EV_BOL_I_FPU (description="DP_EV_BOL_I_FPU", quantity="none")
String1d	DP_EVENT_DPU (description="DP_EVENT_DPU", quantity="none")
Double1d	BOL_I_HEATER_B2 (description="BOL_I_HEATER_B2 [eng, A]", quantity="none")
Double1d	BOL_I_HEATER_B3 (description="BOL_I_HEATER_B3 [eng, A]", quantity="none")
Long1d	DM_DRR_ERROR (description="DM_DRR_ERROR [raw]", quantity="none")
Double1d	BOL_I_HEATER_B1 (description="BOL_I_HEATER_B1 [eng, A]", quantity="none")
Long1d	DM_DECB_REC_STA (description="DM_DECB_REC_STA [raw]", quantity="none")
Double1d	BOL_TEMP_EV (description="BOL_TEMP_EV [eng, K]", quantity="none")
String1d	DM_HKCO_TASK_WR (description="DM_HKCO_TASK_WR", quantity="none")
Long1d	DM_BLUE_ENC_PAC (description="DM_BLUE_ENC_PAC [raw]", quantity="none")

9.4.9. HPENG HPTCVERS: Telecommand Verification

product (type="HPENG", description="HPTCVERS")	
Metadata	
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	formatVersion (description="Format Version of the Products")
StringParameter	fileName (description="null")
StringParameter	missionConfiguration (description="Mission Configuration")

LongParameter	obsid (description="Observation ID")
LongParameter	obsType (description="null")
LongParameter	obsCount (description="OBSID")
table dataset	*(description="Generated from PacketSequence $Revision: 1.4 $")*
Metadata	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
Long1d	Time (description="Time [microseconds]", quantity="microsecond [1.0E-6 s]")
Long1d	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
Double1d	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
Long1d	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")
Long1d	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
Long1d	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
Long1d	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
Long1d	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")
Double1d	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")
Long1d	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
Long1d	HD_APID (description="HD_APID [raw]", quantity="none")
Long1d	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
Long1d	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
Long1d	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
Long1d	HD_TIME (description="HD_TIME [raw]", quantity="none")
Long1d	TC_PCKT_SUBTYPE (description="TC_PCKT_SUBTYPE [raw]", quantity="none")
Long1d	PCKT_SEQ_CONTR (description="PCKT_SEQ_CONTR [raw]", quantity="none")
Long1d	TC_PACKET_TYPE (description="TC_PACKET_TYPE [raw]", quantity="none")
Long1d	TC_PACKET_ID (description="TC_PACKET_ID [raw]", quantity="none")
Double1d	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")
Long1d	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")

9.4.10. HPTCVERS: Telecommand Verification

list context (type="HPTCVERS", description="Telecommand Verification")	
Metadata	
StringParameter	type (description="null")
StringParameter	creator (description="Creator misused until Testname is not Porper")
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	formatVersion (description="Format Version of the Products")
StringParameter	testName (description="null")
StringParameter	fileName (description="null")
StringParameter	camera (description="Camera")
LongParameter	obsid (description="Observation ID")
LongParameter	obsType (description="null")
LongParameter	obsCount (description="OBSID")
StringParameter	missionConfiguration (description="Mission Configuration")
StringParameter	testExecution (description="Test Name")
StringParameter	testDescription (description="Test Description")
product	*(type="HPENG", description="HPTCVERS")*
Metadata	
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	formatVersion (description="Format Version of the Products")
StringParameter	fileName (description="null")
StringParameter	missionConfiguration (description="Mission Configuration")
LongParameter	obsid (description="Observation ID")
LongParameter	obsType (description="null")
LongParameter	obsCount (description="OBSID")
table dataset	*(description="Generated from PacketSequence $Revision: 1.4 $")*
Metadata	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")

Long1d	Time (description="Time [microseconds]", quantity="microsecond [1.0E-6 s]")
Long1d	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
Double1d	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
Long1d	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")
Long1d	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
Long1d	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
Long1d	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
Long1d	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")
Double1d	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")
Long1d	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
Long1d	HD_APID (description="HD_APID [raw]", quantity="none")
Long1d	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
Long1d	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
Long1d	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
Long1d	HD_TIME (description="HD_TIME [raw]", quantity="none")
Long1d	TC_PCKT_SUBTYPE (description="TC_PCKT_SUBTYPE [raw]", quantity="none")
Long1d	PCKT_SEQ_CONTR (description="PCKT_SEQ_CONTR [raw]", quantity="none")
Long1d	TC_PACKET_TYPE (description="TC_PACKET_TYPE [raw]", quantity="none")
Long1d	TC_PACKET_ID (description="TC_PACKET_ID [raw]", quantity="none")
Double1d	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")
Long1d	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")

9.5. PACS Spectroscopy Level-1 Products

9.5.1. HPS3DBS: Spectral Cube Blue

list context (type="HPS3DBS", description="PACS Spectral Cube")	

Meta-data	
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	formatVersion (description="null")
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")
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_spec_red_FailedSPUBuffer (description="null")
LongParameter	qflag_pacs_spec_blue_FailedSPUBuffer (description="null")
DoubleParameter	chopAvoidFrom (description="ObservationParameter")
DoubleParameter	chopAvoidTo (description="ObservationParameter")
BooleanParameter	chopNod (description="ObservationParameter")
DoubleParameter	dec (description="ObservationParameter")
DoubleParameter	decoff (description="ObservationParameter")
BooleanParameter	doSlewScience (description="ObservationParameter")
BooleanParameter	faintLines (description="ObservationParameter")
StringParameter	fluxUnit (description="ObservationParameter")
StringParameter	lWave (description="ObservationParameter")
StringParameter	lcontFlux (description="ObservationParameter")
StringParameter	lineFlux (description="ObservationParameter")
StringParameter	lineId (description="ObservationParameter")
DoubleParameter	lineStep (description="ObservationParameter")
StringParameter	lineWidth (description="ObservationParameter")
StringParameter	lines (description="ObservationParameter")
LongParameter	m (description="ObservationParameter")
DoubleParameter	mapRasterAngle (description="ObservationParameter")
LongParameter	n (description="ObservationParameter")

LongParameter	naifid (description="ObservationParameter")
LongParameter	obsOverhead (description="ObservationParameter")
StringParameter	orderSel (description="ObservationParameter")
DoubleParameter	pointStep (description="ObservationParameter")
DoubleParameter	ra (description="ObservationParameter")
DoubleParameter	raoff (description="ObservationParameter")
StringParameter	redshiftType (description="ObservationParameter")
DoubleParameter	redshiftValue (description="ObservationParameter")
BooleanParameter	refSelected (description="ObservationParameter")
StringParameter	repeatLine (description="ObservationParameter")
StringParameter	source (description="ObservationParameter")
StringParameter	throw (description="ObservationParameter")
LongParameter	userNODcycles (description="ObservationParameter")
StringParameter	widthUnit (description="ObservationParameter")
StringParameter	fileName (description="null")
StringParameter	camera_signature (description="null")
LongParameter	obsid (description="null")
StringParameter	productNotes (description="null")
StringParameter	band (description="null")
product	*(type="HPS3DBS", description="PACS Spectral Cube")*
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	formatVersion (description="null")
StringParameter	productNotes (description="null")
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")
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_spec_red_FailedSPUBuffer (description="null")
LongParameter	qflag_pacs_spec_blue_FailedSPUBuffer (description="null")
DoubleParameter	chopAvoidFrom (description="ObservationParameter")
DoubleParameter	chopAvoidTo (description="ObservationParameter")

BooleanParameter	chopNod (description="ObservationParameter")
DoubleParameter	dec (description="ObservationParameter")
DoubleParameter	decoff (description="ObservationParameter")
BooleanParameter	doSlewScience (description="ObservationParameter")
BooleanParameter	faintLines (description="ObservationParameter")
StringParameter	fluxUnit (description="ObservationParameter")
StringParameter	lWave (description="ObservationParameter")
StringParameter	lcontFlux (description="ObservationParameter")
StringParameter	lineFlux (description="ObservationParameter")
StringParameter	lineId (description="ObservationParameter")
DoubleParameter	lineStep (description="ObservationParameter")
StringParameter	lineWidth (description="ObservationParameter")
StringParameter	lines (description="ObservationParameter")
LongParameter	m (description="ObservationParameter")
DoubleParameter	mapRasterAngle (description="ObservationParameter")
LongParameter	n (description="ObservationParameter")
LongParameter	naifid (description="ObservationParameter")
LongParameter	obsOverhead (description="ObservationParameter")
StringParameter	orderSel (description="ObservationParameter")
DoubleParameter	pointStep (description="ObservationParameter")
DoubleParameter	ra (description="ObservationParameter")
DoubleParameter	raoff (description="ObservationParameter")
StringParameter	redshiftType (description="ObservationParameter")
DoubleParameter	redshiftValue (description="ObservationParameter")

BooleanParameter	refSelected (description="ObservationParameter")
StringParameter	repeatLine (description="ObservationParameter")
StringParameter	source (description="ObservationParameter")
StringParameter	throw (description="ObservationParameter")
LongParameter	userNODcycles (description="ObservationParameter")
StringParameter	widthUnit (description="ObservationParameter")
StringParameter	fileName (description="null")
StringParameter	camera_signature (description="null")
LongParameter	obsid (description="null")
StringParameter	band (description="null")
array dataset	*(description="Cube")*
Metadata	
LongParameter	naxis (description="WCS: Number of Axes")
LongParameter	naxis1 (description="The number of columns")
LongParameter	naxis2 (description="The number of rows")
LongParameter	naxis3 (description="The number of layers")
StringParameter	cunit3 (description="WCS: Unit axis 3")
Double3d	(description="Cube", quantity="none")
array dataset	*(description="Right ascension in degrees")*
Metadata	
Double3d	(description="Right ascension in degrees", quantity="degree [0.01745329 rad]")
array dataset	*(description="Declination in degrees")*
Metadata	
Double3d	(description="Declination in degrees", quantity="degree [0.01745329 rad]")
array dataset	*(description="null")*
Metadata	
Double3d	(description="null", quantity="none")

array dataset	*(description="null")*
Metadata	
Double3d	(description="null", quantity="none")
array dataset	*(description="Exposure")*
Metadata	
Int3d	(description="Exposure", quantity="s")
table dataset	*(description="null")*
Metadata	
Double1d	DepthIndex (description="null", quantity="micron [1.0E-6 m]")
Int1d	LayerCount (description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double1d	(description="null", quantity="none")
composite	*(description="History of product")*
Metadata	
table dataset	*(description="History as Jython script")*
Metadata	
StringParameter	outvar (description="last output variable")
String1d	Lines (description="script lines", quantity="none")
table dataset	*(description="History of tasks")*
Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")
String1d	ProductType (description="Product Type for History", quantity="none")

String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

9.5.2. HPS3DRS: Spectral Cube Red

list context (type="HPS3DRS", description="PACS Spectral Cube")	
Meta-data	
String-Parameter	type (description="Product Type Identification")
String-Parameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
String-Parameter	description (description="Name of this product")
String-Parameter	instrument (description="Instrument attached to this product")
String-Parameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
String-Parameter	formatVersion (description="null")
Long-Parameter	detRow (description="Number of detector rows")
Long-Parameter	detCol (description="Number of detector columns")
	camName (description="Name of the Camera")

StringParameter	
LongParameter	relTimeOffset (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	qflag_pacs_spec_red_FailedSPUBuffer (description="null")
LongParameter	qflag_pacs_spec_blue_FailedSPUBuffer (description="null")
StringParameter	fileName (description="null")

StringParameter	camera_signature (description="null")
LongParameter	obsid (description="null")
StringParameter	productNotes (description="null")
StringParameter	band (description="null")
product	*(type="HPS3DRS", description="PACS Spectral Cube")*
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	formatVersion (description="null")
LongParameter	obsid (description="null")
StringParameter	productNotes (description="null")
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")

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_spec_red_FailedSPUBuffer (description="null")
LongParameter	qflag_pacs_spec_blue_FailedSPUBuffer (description="null")
StringParameter	fileName (description="null")
StringParameter	camera_signature (description="null")
StringParameter	band (description="null")
array dataset	*(description="Flux")*
Metadata	
Double3d	(description="Flux", quantity="none")
array dataset	*(description="Wavelength in micron")*
Metadata	
Double3d	(description="Wavelength in micron", quantity="micron [1.0E-6 m]")
array dataset	*(description="null")*
Metadata	
Short1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Short1d	(description="null", quantity="none")

array dataset	*(description="null")*
Metadata	
Long1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Int1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Int1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Int1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
String1d	(description="null", quantity="none")
array dataset	*(description="Ra in degrees")*
Metadata	
Double3d	(description="Ra in degrees", quantity="degree [0.01745329 rad]")
array dataset	*(description="Dec in degrees")*
Metadata	
Double3d	(description="Dec in degrees", quantity="degree [0.01745329 rad]")
array dataset	*(description="null")*
Metadata	
Byte1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Byte1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double1d	(description="null", quantity="none")

composite	*(description="Mask data stored in bit encoded arrays, in cube dimensions time X s")*
Metadata	
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")
array dataset	*(description="TBD")*
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="TBD", quantity="none")
array dataset	*(description="TBD")*
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="TBD", quantity="none")
array dataset	*(description="TBD")*

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="TBD", quantity="none")
array dataset	*(description="TBD")*
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="TBD", quantity="none")
array dataset	*(description="TBD")*
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="TBD", quantity="none")
array dataset	*(description="TBD")*
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="TBD", quantity="none")
array dataset	*(description="Mask created by SpecFlagOutliersTask This masks processing st")*
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 created by SpecFlagOutliersTask This masks processing st", quantity="none")
table dataset	*(description="BlockTable")*
Metadata	
StringParameter	MODE (description="PACS Mode")
Int1d	Obcp (description="OBCP", quantity="none")
Int1d	DMSActive (description="Dec Mec Sequence Active", quantity="none")
Int1d	ChopperPlateau (description="Chopper Plateau", quantity="none")
Int1d	CalSource (description="Calibration Source", quantity="none")
Int1d	Filter (description="Filter", quantity="none")
Int1d	StartIdx (description="Start Index", quantity="none")
Int1d	EndIdx (description="End Index (NOT INCLUSIVE)", quantity="none")
Int1d	NrIdx (description="Number of Indexes", quantity="none")
Double1d	Raster (description="Raster Position", quantity="none")
String1d	Id (description="Block ID", quantity="none")
String1d	Description (description="Verbose Description", quantity="none")
Int1d	OnSource (description="On-Source Label", quantity="none")
Int1d	OffSource1 (description="First Off-Source Label", quantity="none")
Int1d	OffSource2 (description="Second Off-Source Label", quantity="none")
Int1d	NoddingPosition (description="Nodding position (0 = None, 1 = A, 2 = B)", quantity="none")
Int1d	NodCycleNum (description="Nodding cycle number", quantity="none")
Int1d	RasterColumnNum (description="Raster column number", quantity="none")

Int1d	RasterLineNum (description="Raster line number", quantity="none")
Int1d	ScanDir (description="Scan Direction", quantity="none")
Int1d	WaSwitch (description="Wavelength switch active", quantity="none")
Int1d	GPRMin (description="Minimum grating position", quantity="none")
Int1d	GPRMax (description="Maximum grating position", quantity="none")
Int1d	ResLen (description="Reset length", quantity="none")
Int1d	LineId (description="Line Index as determined from grating position", quantity="none")
array dataset	*(description="null")*
Metadata	
Double3d	(description="null", quantity="none")
array dataset	*(description="Noise")*
Metadata	
Double3d	(description="Noise", quantity="none")
composite	*(description="History of product")*
Metadata	
table dataset	*(description="History as Jython script")*
Metadata	
StringParameter	outvar (description="last output variable")
String1d	Lines (description="script lines", quantity="none")
table dataset	*(description="History of tasks")*
Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")

String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

9.5.3. HPSCALR: Absolute pixel response and the dark current Red

product (type="Unknown", description="Product containing the absolute pixel response and the dark current")		
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	formatVersion (description="Version of product format")	
composite	*(description="Absolute pixel response and dark current for CalBlock0")*	
Metadata		
StringParameter	Band (description="Band")	
DateParameter	Start Time (description="Start Time")	
DateParameter	End Time (description="End Time")	
array dataset	*(description="null")*	
Metadata		
Double2d	(description="null", quantity="V/(s.Jy) [1.0E26 V.m2.Hz/(s.W)]")	
array dataset	*(description="null")*	
Metadata		
Double2d	(description="null", quantity="V/s")	
composite	*(description="History of product")*	
Metadata		
table dataset	*(description="History as Jython script")*	
Metadata		
StringParameter	outvar (description="last output variable")	
String1d	Lines (description="script lines", quantity="none")	

table dataset	*(description="History of tasks")*
Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")
String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

9.5.4. HPSFITBS: Frames Blue

product (type="HPSFITBS", description="Frames")	
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")
	endDate (description="End date of this product")

DateParameter	
StringParameter	formatVersion (description="Version of product format")
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_spec_red_FailedSPUBuffer (description="null")
LongParameter	qflag_pacs_spec_blue_FailedSPUBuffer (description="null")
DoubleParameter	chopAvoidFrom (description="ObservationParameter")
DoubleParameter	chopAvoidTo (description="ObservationParameter")
BooleanParameter	chopNod (description="ObservationParameter")
DoubleParameter	dec (description="ObservationParameter")
DoubleParameter	decoff (description="ObservationParameter")
BooleanParameter	doSlewScience (description="ObservationParameter")
BooleanParameter	faintLines (description="ObservationParameter")
StringParameter	fluxUnit (description="ObservationParameter")

StringParameter	lWave (description="ObservationParameter")
StringParameter	lcontFlux (description="ObservationParameter")
StringParameter	lineFlux (description="ObservationParameter")
StringParameter	lineId (description="ObservationParameter")
DoubleParameter	lineStep (description="ObservationParameter")
StringParameter	lineWidth (description="ObservationParameter")
StringParameter	lines (description="ObservationParameter")
LongParameter	m (description="ObservationParameter")
DoubleParameter	mapRasterAngle (description="ObservationParameter")
LongParameter	n (description="ObservationParameter")
LongParameter	naifid (description="ObservationParameter")
LongParameter	obsOverhead (description="ObservationParameter")
StringParameter	orderSel (description="ObservationParameter")
DoubleParameter	pointStep (description="ObservationParameter")
DoubleParameter	ra (description="ObservationParameter")
DoubleParameter	raoff (description="ObservationParameter")
StringParameter	redshiftType (description="ObservationParameter")
DoubleParameter	redshiftValue (description="ObservationParameter")
BooleanParameter	refSelected (description="ObservationParameter")
StringParameter	repeatLine (description="ObservationParameter")
StringParameter	source (description="ObservationParameter")
StringParameter	throw (description="ObservationParameter")
LongParameter	userNODcycles (description="ObservationParameter")
StringParameter	widthUnit (description="ObservationParameter")

StringParame-ter	fileName (description="null")
array dataset	*(description="null")*
Metadata	
Double3d	(description="null", quantity="none")
table dataset	*(description="Status")*
Metadata	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
Int1d	RESETINDEX (description="Indicates the reset index of the status paramet", quantity="none")
Long1d	OBSID (description="Identifier of the observation", quantity="none")
Long1d	BBID (description="Building block type", quantity="none")
Int1d	LBL (description="Label", quantity="none")
Int1d	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
Int1d	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
Long1d	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
Int1d	VLD (description="Validity flag set by DecMec", quantity="none")
Int1d	CPR (description="Chopper position", quantity="none")
Int1d	WPR (description="Filter wheel Position", quantity="none")
Int1d	GPR (description="Grating Position", quantity="none")
Int1d	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
Int1d	RRR (description="Readouts in Ramp", quantity="none")
Int1d	CRDC (description="Current Readout counter since last time reset", quantity="none")
Int1d	CRECR (description="CRE status word", quantity="none")
Bool1d	DMCSEQACTIVE (description="Indicates if a DMC sequence executing", quantity="none")
Int1d	CHOPPERPLATEAU (description="Indicates the chopper plateau within a sequence", quantity="none")
Int1d	CALSOURCE (description="Chopper on Calibration source 1, 2 or off (0)", quantity="none")
Int1d	SCANDIR (description="Scan Direction", quantity="none")
Bool1d	WASWITCH (description="Indicates that we are in Wavelength switching", quantity="none")
Int1d	WASWITCHPOS (description="Give wavelength switch position (0,1,2)", quantity="none")
Int1d	PIX (description="PIX counter for synchronisation to SPU housekeeping (CompressedEntHeader", quantity="none")

Int1d	RCX (description="Raw Channel Index in CompressedEntHeader", quantity="none")
Int1d	RESETCNT (description="Reset counter to identify frames belonging to a", quantity="none")
Int1d	BLOCKIDX (description="Reference to the BlockTable entry", quantity="none")
String1d	BAND (description="Wavelength Band", quantity="none")
Int1d	BBTYPE (description="Building Block Type", quantity="none")
Int1d	BBSEQCNT (description="Building Block Sequence Count", quantity="none")
Int1d	DP_WHICH_OBCP (description="OBCP Number", quantity="none")
array dataset	*(description="null")*
Metadata	
Double3d	(description="null", quantity="none")
table dataset	*(description="BlockTable")*
Metadata	
StringParameter	MODE (description="PACS Mode")
Int1d	Obcp (description="OBCP", quantity="none")
Int1d	DMSActive (description="Dec Mec Sequence Active", quantity="none")
Int1d	ChopperPlateau (description="Chopper Plateau", quantity="none")
Int1d	CalSource (description="Calibration Source", quantity="none")
Int1d	Filter (description="Filter", quantity="none")
Int1d	StartIdx (description="Start Index", quantity="none")
Int1d	EndIdx (description="End Index (NOT INCLUSIVE)", quantity="none")
Int1d	NrIdx (description="Number of Indexes", quantity="none")
Double1d	Raster (description="Raster Position", quantity="none")
String1d	Id (description="Block ID", quantity="none")
String1d	Description (description="Verbose Description", quantity="none")
Int1d	OnSource (description="On-Source Label", quantity="none")
Int1d	OffSource1 (description="First Off-Source Label", quantity="none")
Int1d	OffSource2 (description="Second Off-Source Label", quantity="none")
Int1d	NoddingPosition (description="Nodding position (0 = None, 1 = A, 2 = B)", quantity="none")
Int1d	NodCycleNum (description="Nodding cycle number", quantity="none")
Int1d	RasterColumnNum (description="Raster column number", quantity="none")
Int1d	RasterLineNum (description="Raster line number", quantity="none")
Int1d	ScanDir (description="Scan Direction", quantity="none")
Int1d	WaSwitch (description="Wavelength switch active", quantity="none")
Int1d	GPRMin (description="Minimum grating position", quantity="none")
Int1d	GPRMax (description="Maximum grating position", quantity="none")
Int1d	ResLen (description="Reset length", quantity="none")

Int1d	LineId (description="Line Index as determined from grating position", quantity="none")
array dataset	*(description="null")*
Metadata	
Bool2d	(description="null", quantity="none")
composite	*(description="Mask data stored in bit encoded arrays")*
Metadata	
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")
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")

9.5.5. HPSFITRS: Frames Red

product (type="HPSFITRS", description="Frames")	
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")
	endDate (description="End date of this product")

DateParameter	
StringParameter	formatVersion (description="Version of product format")
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_spec_red_FailedSPUBuffer (description="null")
LongParameter	qflag_pacs_spec_blue_FailedSPUBuffer (description="null")
StringParameter	fileName (description="null")

array dataset	*(description="null")*
Metadata	
Double3d	(description="null", quantity="none")

table dataset	*(description="Status")*
Metadata	

StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
Int1d	RESETINDEX (description="Indicates the reset index of the status paramet", quantity="none")
Long1d	OBSID (description="Identifier of the observation", quantity="none")
Long1d	BBID (description="Building block type", quantity="none")

Int1d	LBL (description="Label", quantity="none")
Int1d	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
Int1d	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
Long1d	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
Int1d	VLD (description="Validity flag set by DecMec", quantity="none")
Int1d	CPR (description="Chopper position", quantity="none")
Int1d	WPR (description="Filter wheel Position", quantity="none")
Int1d	GPR (description="Grating Position", quantity="none")
Int1d	CRCRMP (description="Readout counter within an integration ramp", quantity="none")
Int1d	RRR (description="Readouts in Ramp", quantity="none")
Int1d	CRDC (description="Current Readout counter since last time reset", quantity="none")
Int1d	CRECR (description="CRE status word", quantity="none")
Bool1d	DMCSEQACTIVE (description="Indicates if a DMC sequence executing", quantity="none")
Int1d	CHOPPERPLATEAU (description="Indicates the chopper plateau within a sequence", quantity="none")
Int1d	CALSOURCE (description="Chopper on Calibration source 1, 2 or off (0)", quantity="none")
Int1d	SCANDIR (description="Scan Direction", quantity="none")
Bool1d	WASWITCH (description="Indicates that we are in Wavelength switching", quantity="none")
Int1d	WASWITCHPOS (description="Give wavelength switch position (0,1,2)", quantity="none")
Int1d	PIX (description="PIX counter for synchronisation to SPU housekeeping (CompressedEntHeader", quantity="none")
Int1d	RCX (description="Raw Channel Index in CompressedEntHeader", quantity="none")
Int1d	RESETCNT (description="Reset counter to identify frames belonging to a", quantity="none")
Int1d	BLOCKIDX (description="Reference to the BlockTable entry", quantity="none")
String1d	BAND (description="Wavelength Band", quantity="none")
Int1d	BBTYPE (description="Building Block Type", quantity="none")
Int1d	BBSEQCNT (description="Building Block Sequence Count", quantity="none")
Int1d	DP_WHICH_OBCP (description="OBCP Number", quantity="none")
array dataset	*(description="null")*
Metadata	
Double3d	(description="null", quantity="none")

table dataset	*(description="BlockTable")*
Metadata	
StringParameter	MODE (description="PACS Mode")
Int1d	Obcp (description="OBCP", quantity="none")
Int1d	DMSActive (description="Dec Mec Sequence Active", quantity="none")
Int1d	ChopperPlateau (description="Chopper Plateau", quantity="none")
Int1d	CalSource (description="Calibration Source", quantity="none")
Int1d	Filter (description="Filter", quantity="none")
Int1d	StartIdx (description="Start Index", quantity="none")
Int1d	EndIdx (description="End Index (NOT INCLUSIVE)", quantity="none")
Int1d	NrIdx (description="Number of Indexes", quantity="none")
Double1d	Raster (description="Raster Position", quantity="none")
String1d	Id (description="Block ID", quantity="none")
String1d	Description (description="Verbose Description", quantity="none")
Int1d	OnSource (description="On-Source Label", quantity="none")
Int1d	OffSource1 (description="First Off-Source Label", quantity="none")
Int1d	OffSource2 (description="Second Off-Source Label", quantity="none")
Int1d	NoddingPosition (description="Nodding position (0 = None, 1 = A, 2 = B)", quantity="none")
Int1d	NodCycleNum (description="Nodding cycle number", quantity="none")
Int1d	RasterColumnNum (description="Raster column number", quantity="none")
Int1d	RasterLineNum (description="Raster line number", quantity="none")
Int1d	ScanDir (description="Scan Direction", quantity="none")
Int1d	WaSwitch (description="Wavelength switch active", quantity="none")
Int1d	GPRMin (description="Minimum grating position", quantity="none")
Int1d	GPRMax (description="Maximum grating position", quantity="none")
Int1d	ResLen (description="Reset length", quantity="none")
Int1d	LineId (description="Line Index as determined from grating position", quantity="none")
array dataset	*(description="null")*
Metadata	
Bool2d	(description="null", quantity="none")
composite	*(description="Mask data stored in bit encoded arrays")*
Metadata	
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")
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")

9.6. PACS Spectroscopy Level-2 Products

9.6.1. HPS3DPB: Spectroscopy 3D Projected Blue

list context (type="Unknown", description="Unknown")	
Meta-data	
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	formatVersion (description="Version of product format")
product	*(type="Unknown", description="Unknown")*
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	formatVersion (description="Version of product format")
array dataset	*(description="Cube")*
Metadata	
LongParameter	naxis (description="WCS: Number of Axes")
LongParameter	naxis1 (description="The number of columns")
LongParameter	naxis2 (description="The number of rows")
LongParameter	naxis3 (description="The number of layers")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
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"")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represent")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	cunit3 (description="WCS: Unit axis 3")
Double3d	(description="Cube", quantity="Jy [1.0E-26 W/m2/Hz]")
array dataset	*(description="Exposure")*
Metadata	
Double3d	(description="Exposure", quantity="s")
table dataset	*(description="null")*
Metadata	
Double1d	DepthIndex (description="null", quantity="micron [1.0E-6 m]")
Int1d	LayerCount (description="null", quantity="none")
composite	*(description="History of product")*
Metadata	
table dataset	*(description="History as Jython script")*
Metadata	
StringParameter	outvar (description="last output variable")
String1d	Lines (description="script lines", quantity="none")
table dataset	*(description="History of tasks")*

Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")
String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

9.6.2. HPS3DPR: Spectroscopy 3D Projected Red

list context (type="Unknown", description="Unknown")	
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")
	formatVersion (description="Version of product format")

StringPa-rameter	
product	*(type="Unknown", description="Unknown")*
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	formatVersion (description="Version of product format")
array dataset	*(description="Cube")*
Metadata	
LongParameter	naxis (description="WCS: Number of Axes")
LongParameter	naxis1 (description="The number of columns")
LongParameter	naxis2 (description="The number of rows")
LongParameter	naxis3 (description="The number of layers")
DoubleParame-ter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParame-ter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
DoubleParame-ter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParame-ter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParame-ter	cdelt1 (description="WCS: Pixel scale axis 1, unit=Angle")
DoubleParame-ter	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"")
StringParameter	ctype3 (description="WCS: Description of what the 3rd axis represent")
StringParameter	cunit1 (description="WCS: Unit axis 1, default="")
StringParameter	cunit2 (description="WCS: Unit axis 2, default="")
StringParameter	cunit3 (description="WCS: Unit axis 3")
Double3d	(description="Cube", quantity="Jy [1.0E-26 W/m2/Hz]")
array dataset	*(description="Exposure")*
Metadata	
Double3d	(description="Exposure", quantity="s")
table dataset	*(description="null")*

Metadata	
Double1d	DepthIndex (description="null", quantity="micron [1.0E-6 m]")
Int1d	LayerCount (description="null", quantity="none")
composite	*(description="History of product")*
Metadata	
table dataset	*(description="History as Jython script")*
Metadata	
StringParameter	outvar (description="last output variable")
String1d	Lines (description="script lines", quantity="none")
table dataset	*(description="History of tasks")*
Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")
String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

9.6.3. HPS3DRB: Spectroscopy 3D Rebinned Blue

list context (type="HPS3DRS", description="PACS Spectral Cube")	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
	creationDate (description="Creation date of this product")

DateParameter	
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	formatVersion (description="null")
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")
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_spec_red_FailedSPUBuffer (description="null")
LongParameter	qflag_pacs_spec_blue_FailedSPUBuffer (description="null")

StringParameter	fileName (description="null")
StringParameter	camera_signature (description="null")
LongParameter	obsid (description="null")
StringParameter	productNotes (description="null")
StringParameter	band (description="null")
product	*(type="HPS3DRS", description="PACS Spectral Cube")*
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	formatVersion (description="null")
StringParameter	productNotes (description="null")
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")
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_spec_red_FailedSPUBuffer (description="null")
LongParameter	qflag_pacs_spec_blue_FailedSPUBuffer (description="null")
StringParameter	fileName (description="null")
StringParameter	camera_signature (description="null")
LongParameter	obsid (description="null")
StringParameter	band (description="null")
array dataset	*(description="Cube")*
Metadata	
LongParameter	naxis (description="WCS: Number of Axes")
LongParameter	naxis1 (description="The number of columns")
LongParameter	naxis2 (description="The number of rows")
LongParameter	naxis3 (description="The number of layers")
StringParameter	cunit3 (description="WCS: Unit axis 3")
Double3d	(description="Cube", quantity="none")
array dataset	*(description="Right ascension in degrees")*
Metadata	
Double3d	(description="Right ascension in degrees", quantity="degree [0.01745329 rad]")
array dataset	*(description="Declination in degrees")*
Metadata	
Double3d	(description="Declination in degrees", quantity="degree [0.01745329 rad]")
array dataset	*(description="null")*

Metadata	
Double3d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double3d	(description="null", quantity="none")
array dataset	*(description="Exposure")*
Metadata	
Int3d	(description="Exposure", quantity="s")
table dataset	*(description="null")*
Metadata	
Double1d	DepthIndex (description="null", quantity="micron [1.0E-6 m]")
Int1d	LayerCount (description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double1d	(description="null", quantity="none")
composite	*(description="History of product")*
Metadata	
table dataset	*(description="History as Jython script")*
Metadata	
StringParameter	outvar (description="last output variable")
String1d	Lines (description="script lines", quantity="none")
table dataset	*(description="History of tasks")*
Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")

String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

9.6.4. HPS3DRS: Spectroscopy 3D Rebinned Red

list context (type="HPS3DRS", description="PACS Spectral Cube")	
Meta-data	
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	formatVersion (description="null")
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")
DoubleParameter	Apid (description="null")
DoubleParameter	subType (description="null")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
	algorithm (description="null")

StringParameter	
DoubleParameter	compNumber (description="null")
StringParameter	compMode (description="null")
DoubleParameter	dxid (description="null")
LongParameter	qflag_pacs_spec_red_FailedSPUBuffer (description="null")
LongParameter	qflag_pacs_spec_blue_FailedSPUBuffer (description="null")
StringParameter	fileName (description="null")
StringParameter	camera_signature (description="null")
LongParameter	obsid (description="null")
StringParameter	productNotes (description="null")
StringParameter	band (description="null")
product	*(type="HPS3DRS", description="PACS Spectral Cube")*
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	formatVersion (description="null")
StringParameter	productNotes (description="null")
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")
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_spec_red_FailedSPUBuffer (description="null")
LongParameter	qflag_pacs_spec_blue_FailedSPUBuffer (description="null")
StringParameter	fileName (description="null")
StringParameter	camera_signature (description="null")
LongParameter	obsid (description="null")
StringParameter	band (description="null")
array dataset	*(description="Cube")*
Metadata	
LongParameter	naxis (description="WCS: Number of Axes")
LongParameter	naxis1 (description="The number of columns")
LongParameter	naxis2 (description="The number of rows")
LongParameter	naxis3 (description="The number of layers")
StringParameter	cunit3 (description="WCS: Unit axis 3")
Double3d	(description="Cube", quantity="none")

array dataset	*(description="Right ascension in degrees")*
Metadata	
Double3d	(description="Right ascension in degrees", quantity="degree [0.01745329 rad]")
array dataset	*(description="Declination in degrees")*
Metadata	
Double3d	(description="Declination in degrees", quantity="degree [0.01745329 rad]")
array dataset	*(description="null")*
Metadata	
Double3d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double3d	(description="null", quantity="none")
array dataset	*(description="Exposure")*
Metadata	
Int3d	(description="Exposure", quantity="s")
table dataset	*(description="null")*
Metadata	
Double1d	DepthIndex (description="null", quantity="micron [1.0E-6 m]")
Int1d	LayerCount (description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double1d	(description="null", quantity="none")
composite	*(description="History of product")*
Metadata	
table dataset	*(description="History as Jython script")*
Metadata	
StringParameter	outvar (description="last output variable")
String1d	Lines (description="script lines", quantity="none")
table dataset	*(description="History of tasks")*
Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")

String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")
String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

Chapter 10. PACS Calibration Products

10.1. PACS Common Calibration History Products

10.1.1. ChopperAngle

product (type="ChopperAngle", description="Chopper position readout versus chopper angle calibration")	
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	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="Calfile type identifier")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")

array dataset	*(description="FP I Voltage readback")*
Metadata	
Double1d	(description="FP I Voltage readback", quantity="none")
array dataset	*(description="Deflection angle")*
Metadata	
Double1d	(description="Deflection angle", quantity="none")
array dataset	*(description="zero offset corrected FP I Voltage readback")*
Metadata	
Double1d	(description="zero offset corrected FP I Voltage readback", quantity="none")
array dataset	*(description="zero offset corrected deflection angle")*
Metadata	
Double1d	(description="zero offset corrected deflection angle", quantity="none")
array dataset	*(description="Zeiss amplification factor")*
Metadata	
Double1d	(description="Zeiss amplification factor", quantity="none")
array dataset	*(description="CSL amplification factor")*
Metadata	
Double1d	(description="CSL amplification factor", quantity="none")
array dataset	*(description="Zero point offset")*
Metadata	
Double1d	(description="Zero point offset", quantity="none")
array dataset	*(description="conversion factor to convert decmec readouts to voltages")*
Metadata	
Double1d	(description="conversion factor to convert decmec readouts to voltages", quantity="none")
array dataset	*(description="3 deflection angle ranges of polynomial fits (Science, Calibration w")*
Metadata	
Double1d	(description="3 deflection angle ranges of polynomial fits (Science, Calibration w", quantity="none")

array dataset	*(description="fitted polynomial coefficients of calibration window for conversion")*
Metadata	
Double1d	(description="fitted polynomial coefficients of calibration window for conversion", quantity="none")
array dataset	*(description="fitted polynomial coefficients of calibration window for conversion")*
Metadata	
Double1d	(description="fitted polynomial coefficients of calibration window for conversion", quantity="none")
array dataset	*(description="fitted polynomial coefficients of science window for conversion volt")*
Metadata	
Double1d	(description="fitted polynomial coefficients of science window for conversion volt", quantity="none")
array dataset	*(description="fitted polynomial coefficients of calibration window for conversion")*
Metadata	
Double1d	(description="fitted polynomial coefficients of calibration window for conversion", quantity="none")
array dataset	*(description="fitted polynomial coefficients of calibration window for conversion")*
Metadata	
Double1d	(description="fitted polynomial coefficients of calibration window for conversion", quantity="none")
array dataset	*(description="fitted polynomial coefficients of science window for conversion angl")*
Metadata	
Double1d	(description="fitted polynomial coefficients of science window for conversion angl", quantity="none")
array dataset	*(description="currents")*
Metadata	
Double1d	(description="currents", quantity="none")
array dataset	*(description="angles where currents are measured")*
Metadata	
Double1d	(description="angles where currents are measured", quantity="none")

10.1.2. ChopperAngleRedundant

product (type="ChopperAngleRedundant", description="Chopper position readout versus chopper angle calibration for redundant chopper")	
Meta-data	
String-Parameter	type (description="Product Type Identification")
String-Parameter	creator (description="Generator of this product")
DatePa-rameter	creationDate (description="Date of file creation")
String-Parameter	description (description="Name of this product")
String-Parameter	instrument (description="Instrument attached to this product")
String-Parameter	modelName (description="Model name attached to this product")
DatePa-rameter	startDate (description="Start date of this product")
DatePa-rameter	endDate (description="End date of this product")
String-Parameter	formatVersion (description="Calfile format version")
String-Parameter	calFileId (description="null")
LongPa-rameter	calFileVersion (description="null")
String-Parameter	author (description="Author of the data")
String-Parameter	fileName (description="null")
array dataset	*(description="FP II Voltage readback")*
Metada-ta	
Double1d	(description="FP II Voltage readback", quantity="none")
array dataset	*(description="Deflection angle")*
Metada-ta	

Double1d	(description="Deflection angle", quantity="none")
array dataset	*(description="zero offset corrected FP II Voltage readback")*
Metada-ta	
Double1d	(description="zero offset corrected FP II Voltage readback", quantity="none")
array dataset	*(description="zero offset corrected deflection angle")*
Metada-ta	
Double1d	(description="zero offset corrected deflection angle", quantity="none")
array dataset	*(description="Zeiss amplification factor")*
Metada-ta	
Double1d	(description="Zeiss amplification factor", quantity="none")
array dataset	*(description="CSL amplification factor")*
Metada-ta	
Double1d	(description="CSL amplification factor", quantity="none")
array dataset	*(description="Zero point offset")*
Metada-ta	
Double1d	(description="Zero point offset", quantity="none")
array dataset	*(description="conversion factor to convert decmec readouts to voltages")*
Metada-ta	
Double1d	(description="conversion factor to convert decmec readouts to voltages", quantity="none")
array dataset	*(description="3 deflection angle ranges of polynomial fits (Science, Calibration w")*
Metada-ta	
Double1d	(description="3 deflection angle ranges of polynomial fits (Science, Calibration w", quantity="none")
array dataset	*(description="fitted polynomial coefficients of calibration window for conversion")*
Metada-ta	
Double1d	(description="fitted polynomial coefficients of calibration window for conversion", quantity="none")
array dataset	*(description="fitted polynomial coefficients of calibration window for conversion")*

Metadata	
Double1d	(description="fitted polynomial coefficients of calibration window for conversion", quantity="none")
array dataset	*(description="fitted polynomial coefficients of science window for conversion volt")*
Metadata	
Double1d	(description="fitted polynomial coefficients of science window for conversion volt", quantity="none")
array dataset	*(description="fitted polynomial coefficients of calibration window for conversion")*
Metadata	
Double1d	(description="fitted polynomial coefficients of calibration window for conversion", quantity="none")
array dataset	*(description="fitted polynomial coefficients of calibration window for conversion")*
Metadata	
Double1d	(description="fitted polynomial coefficients of calibration window for conversion", quantity="none")
array dataset	*(description="fitted polynomial coefficients of science window for conversion angl")*
Metadata	
Double1d	(description="fitted polynomial coefficients of science window for conversion angl", quantity="none")
array dataset	*(description="currents")*
Metadata	
Double1d	(description="currents", quantity="none")
array dataset	*(description="angles where currents are measured")*
Metadata	
Double1d	(description="angles where currents are measured", 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")	
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	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="Product Type Identification")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
array dataset	*(description="specified position accuracy threshold for a plateaux in calibration")*
Metadata	
Double1d	(description="specified position accuracy threshold for a plateaux in calibration", quantity="none")
array dataset	*(description="specified position accuracy threshold for a plateaux in science wind")*
Metadata	
Double1d	(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")	
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	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
array dataset	*(description="zero offset between mechanical and optical zero")*
Metadata	
Int1d	

			(description="zero offset between mechanical and optical zero", quantity="none")		
array dataset	*(description="conversion factor from chopper deflection (degrees) to angle on sky&")*				
Metadata					
Double1d	(description="conversion factor from chopper deflection (degrees) to angle on sky&", quantity="none")				

10.1.5. CsResistanceTemperature

product (type="CsResistanceTemperature", description="CS Resistance temperature conversion")		
Metadata		
StringParameter	type (description="null")	
StringParameter	creator (description="null")	
DateParameter	creationDate (description="Creation date of this product")	
StringParameter	description (description="null")	
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	formatVersion (description="null")	
StringParameter	calFileId (description="null")	
StringParameter	productNotes (description="null")	
StringParameter	versionNotes (description="null")	
LongParameter	calFileVersion (description="null")	
StringParameter	fileName (description="null")	
StringParameter	author (description="null")	
composite	*(description="Temperature - Resistance conversion informaltable for the first internal ca&")*	
Metadata		
array dataset	*(description="Temperature values in Kelvin")*	
Metadata		
Double1d	(description="Temperature values in Kelvin", quantity="K")	
array dataset	*(description="Resistance values in Ohms")*	
Metadata		

Double1d	(description="Resistance values in Ohms", quantity="?")
composite	*(description="Temperature - Resistace conversion informaltable for the second internal ca&")*
Metadata	
array dataset	*(description="Temperature values in Kelvin")*
Metadata	
Double1d	(description="Temperature values in Kelvin", quantity="K")
array dataset	*(description="Resistance values in Ohms")*
Metadata	
Double1d	(description="Resistance values in Ohms", quantity="?")

10.1.6. FilterWheel2Band

product (type="FilterWheel2Band", description="Defines the wheel position (wpr) readout to band conversion")	
Metadata	
StringParameter	type (description="type (Classname0 of the calibration product")
StringParameter	creator (description="Author of the data")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument")
StringParameter	modelName (description="Instrument Model Name")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="Calfile type identifier")
StringParameter	author (description="Author of the data")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	fileName (description="Calibration product fits filename")
informaltable dataset	*(description="FilterWheel to Band Conversion")*
Metadata	
Int1d	wpr (description="Wheel position readout", quantity="none")
String1d	band (description="Band", quantity="none")
String1d	camera (description="Camera : SPECBLUE, SPECRED, PHOTBLUE, PHOTRED", quantity="none")
String1d	description (description="Description", quantity="none")

10.1.7. ObcpDescription

product (type="ObcpDescription", description="Describes the OBCPs of PACS")	
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	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="Calfile Type identifier")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	fileName (description="Filename used for saving FITS file")
StringParameter	author (description="The author of the product, i.e. the one that provides its contents, not its format.")

informaltable dataset	*(description="OBCP and DMCS Description")*

Metadata		
	Int1d	OBCPNumber (description="OBCP Number", quantity="none")
	String1d	OBCPDescription (description="OBCP Description", quantity="none")
	Int1d	DMCSNumber (description="DMC Sequence Number", quantity="none")
	String1d	DMCSDescription (description="DMC Sequence Description", quantity="none")

informaltable dataset	*(description="OBCP Block descriptions")*

Metadata		
	Int1d	OBCPNumber (description="OBCP Number", quantity="none")
	String1d	BlockId (description="Block ID", quantity="none")
	String1d	BlockDesc (description="Block Description", quantity="none")
	Bool1d	IsSpec (description="True if it is a Spectrometer OBCP", quantity="none")
	String1d	Labels (description="Identification Labels", quantity="none")

10.1.8. Siam

product (type="Siam", description="Spacecraft-Instrument alignment matrices")	
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	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="Calfile type identifier")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
StringParameter	starTracker (description="Active Star-tracker ID")
array dataset	*(description="Photometer SIAM")*
Metadata	
StringParameter	apertureId (description="Aperture identifier")
DateParameter	validityStart (description="Start of calibration validity")
LongParameter	nSaa (description="Number of reference Solar Aspect Angles")
Double2d	(description="Photometer SIAM", quantity="none")
array dataset	*(description="Photometer SIAM")*
Metadata	
StringParameter	apertureId (description="Aperture identifier")
DateParameter	validityStart (description="Start of calibration validity")
LongParameter	nSaa (description="Number of reference Solar Aspect Angles")
Double2d	(description="Photometer SIAM", quantity="none")

10.1.9. TimeDependency

product (type="TimeDependency", description="Defines time dependency for calibration products.")	
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	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="Calfile Type identifier")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	scope (description="null")
StringParameter	fileName (description="Filename used for saving FITS file")

StringParameter	author (description="null")		
informaltable dataset	*(description="Time Dependency Informaltable for FM")*		
Metadata			
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")		
String1d	type (description="null", quantity="none")		
String1d	unit (description="null", quantity="none")		
Long1d	time (description="null", quantity="none")		
Long1d	version (description="null", quantity="none")		
String1d	comment (description="null", quantity="none")		

10.2. PACS Photometer Calibration Products

10.2.1. Absorption

product (type="Absorption", description="Absorption values Photometer")	
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	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="Calfile type identifier")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	bands (description="PACS band")
StringParameter	fileName (description="null")
array dataset	*(description="null")*
Metadata	
Float1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	

Float1d	(description="null", quantity="none")

10.2.2. ArrayInstrument

product (type="ArrayInstrument", description="Array to Instrument coordinate conversion")	
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	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="Calfile type identifier")
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")
	(description="Cube with coefficients for z (blue)")

array dataset	
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")

10.2.3. BadPixelMask

product (type="BadPixelMask", description="Bad pixels mask for PACS Photometer")	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")
DateParameter	creationDate (description="null")
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	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="Calfile type identifier")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="null")
StringParameter	fileName (description="null")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")
array dataset	*(description="Bad Pixels mask for the Red Photometer")*
Metadata	

Bool2d	(description="Bad Pixels mask for the Red Photometer", quantity="none")
array dataset	*(description="Bad Pixels mask for the Blue Photometer")*
Metadata	
Bool2d	(description="Bad Pixels mask for the Blue Photometer", quantity="none")
array dataset	*(description="null")*
Metadata	
Bool2d	(description="null", quantity="none")

10.2.4. CalSources

product (type="CalSources", description="Flux per pixel from the internal calibration sources (CSs) in the blue and red channel")	
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="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="Calfile type identifier")
StringParameter	calFieldVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="Calibration product fits filename")
LongParameter	calFileVersion (description="Calfile version")
array dataset	*(description="CSs image cube through 70 microns filter")*
Metadata	

Double3d	(description="CSs image cube through 70 microns filter", quantity="none")
array dataset	*(description="Chopper positions of CSs70")*
Metadata	
Int1d	(description="Chopper positions of CSs70", quantity="none")
array dataset	*(description="CSs image cube through 100 microns filter")*
Metadata	
Double3d	(description="CSs image cube through 100 microns filter", quantity="none")
array dataset	*(description="Chopper positions of CSs100")*
Metadata	
Int1d	(description="Chopper positions of CSs100", quantity="none")
array dataset	*(description="CSs image cube through 160 microns filter")*
Metadata	
Double3d	(description="CSs image cube through 160 microns filter", quantity="none")
array dataset	*(description="Chopper positions of CSs160")*
Metadata	
Int1d	(description="Chopper positions of CSs160", quantity="none")

10.2.5. ClSaturationLimits

product (type="ClSaturationLimits", description="CL saturation limits")	
Metadata	
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	formatVersion (description="null")
StringParameter	calFileId (description="null")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	fileName (description="null")
StringParameter	author (description="null")
array dataset	*(description="CL saturation limits")*

Metadata	
Double1d	(description="CL saturation limits", quantity="mV [0.0010 V]")

10.2.6. ClTransferFunction

product (type="ClTransferFunction", description="SurfCal_20061120 calibration VRL-VH_BLIND for saturation limits computation")	
Metadata	
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	formatVersion (description="null")
StringParameter	calFileId (description="null")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	fileName (description="null")
StringParameter	author (description="null")
array dataset	*(description="calvhb - [6,25,5] the values of VH_BLIND used in the calibration, p&")*
Metadata	
Double3d	(description="calvhb - [6,25,5] the values of VH_BLIND used in the calibration, p&", quantity="V")
array dataset	*(description="calvrl - [6,25,5] the values of VRL used in the calibration, per gr&")*
Metadata	
Double3d	(description="calvrl - [6,25,5] the values of VRL used in the calibration, per gr&", quantity="V")
array dataset	*(description="surf - [10,16,16,25,5] the output signal for every VRL (25) and eve&")*
Metadata	
Double5d	(description="surf - [10,16,16,25,5] the output signal for every VRL (25) and eve&", quantity="none")

10.2.7. CorrZeroLevel

product (type="CorrZeroLevel", description="Zero-level corr for PACS Photometer based on the low-freq noise observations of OD97")	
Metadata	

StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="null")
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	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="Calfile type identifier")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
array dataset	*(description="Zero-level corr for the Blue Photometer")*
Metadata	
Float2d	(description="Zero-level corr for the Blue Photometer", quantity="none")
array dataset	*(description="Zero-level corr for the Green Photmeter")*
Metadata	
Float2d	(description="Zero-level corr for the Green Photmeter", quantity="none")
array dataset	*(description="Zero-level for the Red Photometer")*
Metadata	
Float2d	(description="Zero-level for the Red Photometer", quantity="none")

10.2.8. CrosstalkMatrix

product (type="CrosstalkMatrix", description="Photometer Crosstalk matrix for red and blue channel")	
Metadata	
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")
StringParameter	formatVersion (description="Calfile format version")
LongParameter	creationDate_ILLEGAL_FORMAT (description="Date of file creation")
StringParameter	calFileId (description="Photometer Crosstalk Matrix")
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")

10.2.9. DetectorSortMatrix

product (type="DetectorSortMatrix", description="Detector sorting matrices for the red and blue photometer.")	
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	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="Calfile type identifier")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="Calibration product fits filen")
array dataset	*(description="null")*
Metadata	
Int2d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Int2d	(description="null", quantity="none")

10.2.10. DiffCS

product (type="DiffCS", description="Difference of CS1 and CS2")	
Metadata	

StringParameter	type (description="null")
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="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="Short description in xml format")
StringParameter	versionNotes (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	fileName (description="null")
StringParameter	author (description="null")
StringParameter	calFileId (description="CalFile Type identifier")
StringParameter	channel (description="channel(s) stored")
composite	*(description="null")*
Metadata	
DoubleParameter	cs1CPR (description="chopper position unit=(CU)")
DoubleParameter	cs1Bias (description="|VH-VL|")
DoubleParameter	cs1Vlow (description="Vl voltage")
StringParameter	Mode (description="possible readout mode values : {Direct,DDCS}")
DoubleParameter	cs1Gain (description="possible values: {0=high,1=low}")
DoubleParameter	cs1Temperature (description="Temperature of cs1")
DateParameter	cs1Time (description="creation date")
DoubleParameter	cs2CPR (description="chopper position unit=(CU)")
DoubleParameter	cs2Bias (description="|VH-VL|")
DoubleParameter	cs2Vlow (description="Vl voltage")
DoubleParameter	cs2Gain (description="possible values: {0=high,1=low}")

DoubleParameter	cs2Temperature (description="Temperature of cs1")
DateParameter	cs2Time (description="creation date")
LongParameter	obsid (description="observation identifier")
array dataset	*(description="CS1-CS2")*
Metadata	
Double2d	(description="CS1-CS2", quantity="V")
array dataset	*(description="CS1-CS2 noise")*
Metadata	
Double2d	(description="CS1-CS2 noise", quantity="V")
array dataset	*(description="Masked pixel")*
Metadata	
Bool2d	(description="Masked pixel", quantity="")
array dataset	*(description="Unitary coverage")*
Metadata	
Int2d	(description="Unitary coverage", quantity="")
composite	*(description="null")*
Metadata	
DoubleParameter	cs1CPR (description="chopper position unit=(CU)")
DoubleParameter	cs1Bias (description="|VH-VL|")
DoubleParameter	cs1Vlow (description="Vl voltage")
StringParameter	Mode (description="possible readout mode values : {Direct,DDCS}")
DoubleParameter	cs1Gain (description="possible values: {0=high,1=low}")
DoubleParameter	cs1Temperature (description="Temperature of cs1")
DateParameter	cs1Time (description="creation date")
DoubleParameter	cs2CPR (description="chopper position unit=(CU)")
DoubleParameter	cs2Bias (description="|VH-VL|")
DoubleParameter	cs2Vlow (description="Vl voltage")
DoubleParameter	cs2Gain (description="possible values: {0=high,1=low}")
DoubleParameter	cs2Temperature (description="Temperature of cs1")
DateParameter	cs2Time (description="creation date")
LongParameter	obsid (description="observation indentifier")
array dataset	*(description="CS1-CS2")*
Metadata	
Double2d	(description="CS1-CS2", quantity="V")
array dataset	*(description="CS1-CS2 noise")*
Metadata	
Double2d	(description="CS1-CS2 noise", quantity="V")

array dataset	*(description="Masked pixel")*
Metadata	
Bool2d	(description="Masked pixel", quantity="")
array dataset	*(description="Unitary coverage")*
Metadata	
Int2d	(description="Unitary coverage", quantity="")
composite	*(description="null")*
Metadata	
DoubleParameter	cs1CPR (description="chopper position unit=(CU)")
DoubleParameter	cs1Bias (description="|VH-VL|")
DoubleParameter	cs1Vlow (description="Vl voltage")
StringParameter	Mode (description="possible readout mode values : {Direct,DDCS}")
DoubleParameter	cs1Gain (description="possible values: {0=high,1=low}")
DoubleParameter	cs1Temperature (description="Temperature of cs1")
DateParameter	cs1Time (description="creation date")
DoubleParameter	cs2CPR (description="chopper position unit=(CU)")
DoubleParameter	cs2Bias (description="|VH-VL|")
DoubleParameter	cs2Vlow (description="Vl voltage")
DoubleParameter	cs2Gain (description="possible values: {0=high,1=low}")
DoubleParameter	cs2Temperature (description="Temperature of cs1")
DateParameter	cs2Time (description="creation date")
LongParameter	obsid (description="observation identifier")
array dataset	*(description="CS1-CS2")*
Metadata	
Double2d	(description="CS1-CS2", quantity="V")
array dataset	*(description="CS1-CS2 noise")*
Metadata	
Double2d	(description="CS1-CS2 noise", quantity="V")
array dataset	*(description="Masked pixel")*
Metadata	
Bool2d	(description="Masked pixel", quantity="")
array dataset	*(description="Unitary coverage")*
Metadata	
Int2d	(description="Unitary coverage", quantity="")

10.2.11. FilterTransmission

product (type="FilterTransmission", description="FilterTransmissions calibration product for the red and blue photometer.")	
Metadata	
StringParameter	type (description="null")
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="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="Short description in xml format")
StringParameter	versionNotes (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	fileName (description="null")
StringParameter	author (description="null")
StringParameter	calFileId (description="null")
StringParameter	bands (description="null")
informaltable dataset	*(description="null")*
Metadata	
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")
Float1d	transmission (description="transmission", quantity="")
Float1d	wavelength (description="wavelength", quantity="micron [1.0E-6 m]")
informaltable dataset	*(description="null")*
Metadata	
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")
Float1d	transmission (description="transmission", quantity="")
Float1d	wavelength (description="wavelength", quantity="micron [1.0E-6 m]")
informaltable dataset	*(description="null")*
Metadata	
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")
Float1d	transmission (description="transmission", quantity="")
Float1d	wavelength (description="wavelength", quantity="micron [1.0E-6 m]")

10.2.12. FlatField

product (type="FlatField", description="FlatFields calibration product for the red and blue photometer.")	
Metadata	
StringParameter	type (description="null")
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="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="Short description in xml format")
	versionNotes (description="null")

StringParameter	
LongParameter	calFileVersion (description="null")
StringParameter	fileName (description="null")
StringParameter	author (description="null")
StringParameter	calFileId (description="null")
composite	*(description="null")*
Metadata	
DoubleParameter	MeanFlux (description="<f1-f2>")
DoubleParameter	DeltaFlux (description="|f1-f2|")
StringParameter	Summary (description="Flat field building context")
DoubleParameter	Bias (description="bias voltage (vh-vl)")
DoubleParameter	Vlow (description="low voltage")
StringParameter	Mode (description="Gain of the electronic chain = {low,high}")
DateParameter	CreationDate (description="creation date")
LongParameter	Obsid (description="observation identifier")
array dataset	*(description="red flat field dimensionless")*
Metadata	
Double2d	(description="red flat field dimensionless", quantity="")
array dataset	*(description="red noise dimensionless")*
Metadata	
Double2d	(description="red noise dimensionless", quantity="")
array dataset	*(description="red mask")*
Metadata	
Bool2d	(description="red mask", quantity="")
array dataset	*(description="red coverage")*
Metadata	
Int2d	(description="red coverage", quantity="")
composite	*(description="null")*
Metadata	
DoubleParameter	MeanFlux (description="<f1-f2>")
DoubleParameter	DeltaFlux (description="|f1-f2|")
StringParameter	Summary (description="Flat field building context")
DoubleParameter	Bias (description="bias voltage (vh-vl)")
DoubleParameter	Vlow (description="low voltage")

StringParameter	Mode (description="Gain of the electronic chain = {low,high}")
DateParameter	CreationDate (description="creation date")
LongParameter	Obsid (description="observation indentifier")
array dataset	*(description="green flat field dimensionless")*
Metadata	
Double2d	(description="green flat field dimensionless", quantity="")
array dataset	*(description="green noise dimensionless")*
Metadata	
Double2d	(description="green noise dimensionless", quantity="")
array dataset	*(description="green mask")*
Metadata	
Bool2d	(description="green mask", quantity="")
array dataset	*(description="green coverage")*
Metadata	
Int2d	(description="green coverage", quantity="")
composite	*(description="null")*
Metadata	
DoubleParameter	MeanFlux (description="<f1-f2>")
DoubleParameter	DeltaFlux (description="|f1-f2|")
StringParameter	Summary (description="Flat field building context")
DoubleParameter	Bias (description="bias voltage (vh-vl)")
DoubleParameter	Vlow (description="low voltage")
StringParameter	Mode (description="Gain of the electronic chain = {low,high}")
DateParameter	CreationDate (description="creation date")
LongParameter	Obsid (description="observation identifier")
array dataset	*(description="blue flat field dimensionless")*
Metadata	
Double2d	(description="blue flat field dimensionless", quantity="")
array dataset	*(description="blue noise dimensionless")*
Metadata	
Double2d	(description="blue noise dimensionless", quantity="")
array dataset	*(description="blue mask")*
Metadata	
Bool2d	(description="blue mask", quantity="")
array dataset	*(description="blue coverage")*

Metadata	
Int2d	(description="blue coverage", quantity="")

10.2.13. Gain

product (type="Gain", description="Photometer Gain parameters for Digits to Volts conversion")	
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	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="Calfile type identifier")
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")

10.2.14. Invntt

product (type="Invntt", description="Noise2Noise correlation for MadMap")	
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	formatVersion (description="Calfile format version")

StringParameter	calFileId (description="null")
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")

10.2.15. InvnttBL

product (type="InvnttBL", description="BL band inverse noise time-time correlation for MadMap based on the low-freq noise observations of OD97")	
Metadata	
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	formatVersion (description="null")
StringParameter	calFileId (description="null")
StringParameter	author (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	fileName (description="null")
	(description="null")

array dataset	
Metadata	
Double2d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Int1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")

10.2.16. InvnttBS

product (type="InvnttBS", description="BS band inverse noise time-time correlation for MadMap based on the low-freq noise observations of OD97")	
Metadata	
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")
	endDate (description="End date of this product")

DateParameter	
StringParameter	formatVersion (description="null")
StringParameter	calFileId (description="null")
StringParameter	author (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	fileName (description="null")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Int1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")

10.2.17. Masks

product (type="Masks", description="Boolean-2D arrays marking the positions of permanently damaged or u")	
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	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="Calfile type identifier")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="Calibration product fits filename")
LongParameter	calFileVersion (description="Calfile version")
array dataset	*(description="Mask of operational pixels on bolometer red")*
Metadata	
Bool2d	(description="Mask of operational pixels on bolometer red", quantity="none")
array dataset	*(description="Mask of operational pixels on bolometer blue")*
Metadata	
Bool2d	(description="Mask of operational pixels on bolometer blue", quantity="none")

10.2.18. NoisePerPixel

product (type="NoisePerPixel", description="Noise for each pixel to populate the starting values in the noise cube")	
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	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="NoisePerPixel")

StringParameter	author (description="The author of the product, i.e. the one that provides its contents, not its format.")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	fileName (description="Filename used for saving FITS file")
StringParameter	PACS_PHOT_MODE (description="Bolometer readout mode")
DoubleParameter	BOL_VD_B_1 (description="Bias blue group 1")
DoubleParameter	BOL_VD_B_2 (description="Bias blue group 2")
DoubleParameter	BOL_VD_B_3 (description="Bias blue group 3")
DoubleParameter	BOL_VD_B_4 (description="Bias blue group 4")
DoubleParameter	BOL_VD_R_1 (description="Bias red group 1")
DoubleParameter	BOL_VD_R_2 (description="Bias red group 2")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")

10.2.19. Responsivity

product (type="Responsivity", description="Responsivity calibration product for red and blue photometers.")	
Metadata	
StringParameter	type (description="null")
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="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="null")
StringParameter	productNotes (description="Short description in xml format")
StringParameter	versionNotes (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	fileName (description="null")
StringParameter	author (description="null")
StringParameter	calFileId (description="null")
composite	*(description="null")*
Metadata	
DoubleParameter	ConversionFactor (description="conversion factor Jy/pW/px")
DoubleParameter	EffectiveAperture (description="primary mirror surface")
DoubleParameter	Bandwidth (description="Bandwidth related to the reference wavelength")
DoubleParameter	RefWavelength (description="Reference wavelength in micrometer")
DoubleParameter	Responsivity (description="Responsivity in V/Jy per pixel")
DoubleParameter	Bias (description="bias voltage (vh-vl)")
DoubleParameter	Vlow (description="low voltage")
StringParameter	Mode (description="readout mode of the electronic chain = {DDCS,Di")
LongParameter	Gain (description="Gain of the electronic chain = {low,high}")
LongParameter	Obsid (description="OBservation IDentifier")
DateParameter	CreationDate (description="creation date")
DoubleParameter	

	CorrectionFactor (description="photometry correction from astronomical calibration source")
array dataset	*(description="Responsivity in V/Jy per pixel")*
Metadata	
Double1d	(description="Responsivity in V/Jy per pixel", quantity="V/Jy [1.0E26 V m2 Hz/W]")
composite	*(description="null")*
Metadata	
DoubleParameter	ConversionFactor (description="conversion factor Jy/pW/px")
DoubleParameter	EffectiveAperture (description="primary mirror surface")
DoubleParameter	Bandwidth (description="bandwidth related to the reference wavelength")
DoubleParameter	RefWavelength (description="Reference wavelength in micrometer")
DoubleParameter	Responsivity (description="Responsivity in V/Jy per pixel")
DoubleParameter	Bias (description="bias voltage (vh-vl)")
DoubleParameter	Vlow (description="low voltage")
StringParameter	Mode (description="readout mode of the electronic chain = {DDCS,Di")
LongParameter	Gain (description="Gain of the electronic chain = {low,high}")
LongParameter	Obsid (description="OBservation IDentifier")
DateParameter	CreationDate (description="creation date")
DoubleParameter	CorrectionFactor (description="photometry correction from astronomical calibration source")
array dataset	*(description="Responsivity in V/Jy per pixel")*
Metadata	
Double1d	(description="Responsivity in V/Jy per pixel", quantity="V/Jy [1.0E26 V m2 Hz/W]")
composite	*(description="null")*
Metadata	
DoubleParameter	ConversionFactor (description="conversion factor Jy/pW/px")
DoubleParameter	EffectiveAperture (description="primary mirror surface")
DoubleParameter	Bandwidth (description="bandwidth related to the reference wavelength")
DoubleParameter	RefWavelength (description="Reference wavelength in micrometer")
DoubleParameter	Responsivity (description="Responsivity in V/Jy per pixel")
DoubleParameter	Bias (description="bias voltage (vh-vl)")
DoubleParameter	Vlow (description="low voltage")
StringParameter	Mode (description="readout mode of the electronic chain = {DDCS,Di")
LongParameter	Gain (description="Gain of the electronic chain = {low,high}")
LongParameter	Obsid (description="OBservation IDentifier")
DateParameter	CreationDate (description="creation date")
DoubleParameter	CorrectionFactor (description="photometry correction from astronomical calibration source")
array dataset	*(description="Responsivity in V/Jy per pixel")*

Metadata	
Double1d	(description="Responsivity in V/Jy per pixel", quantity="V/Jy [1.0E26 V m2 Hz/W]")

10.2.20. SatLimits

product (type="SatLimits", description="Matrix of saturation values for Photometer")	
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	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="Calfile type identifier")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
array dataset	*(description="Saturation values signed modes")*
Metadata	
Int1d	(description="Saturation values signed modes", quantity="none")
array dataset	*(description="Saturation values unsigned modes")*
Metadata	
Int1d	(description="Saturation values unsigned modes", quantity="none")

10.2.21. SubArrayArray

product (type="SubArrayArray", description="Coordinate conversion (row, col) -> (U,V) for the bolometer arrays")	
Meta-data	
String-Param-eter	type (description="Product Type Identification")
String-Param-eter	creator (description="Creator of this Product")
DatePa-rameter	creationDate (description="Creation date of this product")

String-Parameter	description (description="Description of this Product")
String-Parameter	instrument (description="instrument attached to this Product")
String-Parameter	modelName (description="model name attached to this Product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
String-Parameter	formatVersion (description="Calfile Format version")
String-Parameter	calFileId (description="Calfile Type identifier")
Long-Parameter	calFileVersion (description="Calfile format version")
String-Parameter	fileName (description="filename of the calfile")
String-Parameter	author (description="Author of this Product")
DoubleParameter	activeFraction (description="Active fraction of pixel")
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")

10.2.22. TimeDependency

product (type="TimeDependency", description="Defines time dependency for calibration products.")	
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	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="Calfile Type identifier")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	scope (description="null")
StringParameter	fileName (description="Filename used for saving FITS file")
StringParameter	author (description="null")
informaltable dataset	*(description="Time Dependency Informaltable for FM")*
Metadata	
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")
String1d	type (description="null", quantity="none")
String1d	unit (description="null", quantity="none")
Long1d	time (description="null", quantity="none")
Long1d	version (description="null", quantity="none")
String1d	comment (description="null", quantity="none")

10.3. PACS Spectrometer Calibration Products

10.3.1. AbsoluteCapacitance

product (type="AbsoluteCapacitance", description="contains the measured capacitances for the red and blue array")					
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	formatVersion (description="Calfile Format version")				
StringParameter	calFileId (description="null")				
StringParameter	fileName (description="null")				
LongParameter	calFileVersion (description="null")				
StringParameter	author (description="Author of the data")				
array dataset	*(description="measured capacitances per red module")*				
Metadata					
Double3d	(description="measured capacitances per red module", quantity="pF [1.0E-12 F]")				
array dataset	*(description="measured capacitances per blue module")*				
Metadata					
Double3d	(description="measured capacitances per blue module", quantity="pF [1.0E-12 F]")				

10.3.2. ArrayInstrument

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

StringParameter	
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	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="Calfile type identifier")
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")

10.3.3. BadPixelMask

product (type="BadPixelMask", description="Bad pixels mask for PACS Photometer")	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")
DateParameter	creationDate (description="null")
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	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="Calfile type identifier")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="null")
StringParameter	fileName (description="null")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")
array dataset	*(description="Bad Pixels mask for the Red Photometer")*
Metadata	
Bool2d	(description="Bad Pixels mask for the Red Photometer", quantity="none")
array dataset	*(description="Bad Pixels mask for the Blue Photometer")*
Metadata	
Bool2d	(description="Bad Pixels mask for the Blue Photometer", quantity="none")
array dataset	*(description="null")*
Metadata	
Bool2d	(description="null", quantity="none")

10.3.4. CalSourceFlux

product (type="CalSourceFlux", description="contains the fluxes in Jy of both calibration sources")

Metadata				
StringParameter	type (description="Product Type Identification")			
StringParameter	creator (description="Generator of this product")			
DateParameter	creationDate (description="null")			
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	formatVersion (description="Calfile Format version")			
StringParameter	calFileId (description="null")			
StringParameter	fileName (description="null")			
LongParameter	calFileVersion (description="null")			
StringParameter	author (description="Author of the data")			
StringParameter	versionNotes (description="null")			
informaltable dataset	*(description="contains the fluxes in Jy of both calibration sources 1 and 2 at ea&")*			
Metadata				
String1d	idstr (description="identification name for the key wavelength", quantity="")			
Double1d	keywave (description="prime key wavelengths", quantity="micron [1.0E-6 m]")			
Double3d	cs1flux (description="flux of CS1 at prime key wavelengths", quantity="Jy [1.0E-26 W/m2/Hz]")			
Double3d	cs2flux (description="flux of CS2 at prime key wavelengths", quantity="Jy [1.0E-26 W/m2/Hz]")			

10.3.5. CapacitanceRatios

product (type="CapacitanceRatios", description="contains the capacitance ratios for the red and blue array")	
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	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")

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")

10.3.6. ChopperThrowDescription

product (type="ChopperThrowDescription", description="Defines the CPR (chopper position read-outs) versus a verbal description")	
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	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
informaltable dataset	*(description="verbal description of chopper throws")*
Metadata	
String1d	throwNames (description="null", quantity="none")
Int1d	cprPos (description="null", quantity="none")
Int1d	tolerance (description="null", quantity="none")

10.3.7. CrosstalkMatrix

product (type="CrosstalkMatrix", description="Photometer Crosstalk matrix for red and blue channel")

Metadata	
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")
StringParameter	formatVersion (description="Calfile format version")
LongParameter	creationDate_ILLEGAL_FORMAT (description="Date of file creation")
StringParameter	calFileId (description="Photometer Crosstalk Matrix")
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")

10.3.8. DarkCurrent

product (type="DarkCurrent", description="dark current [V/s] for PACS spectrometer blue and red arrays.")	
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	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")

array dataset	*(description="dark current of red array in V/s")*
Metadata	
Double2d	(description="dark current of red array in V/s", quantity="V/s")
array dataset	*(description="dark current of blue array in V/s")*
Metadata	
Double2d	(description="dark current of blue array in V/s", quantity="V/s")
array dataset	*(description="dark current error of red array in V/s")*
Metadata	
Double2d	(description="dark current error of red array in V/s", quantity="V/s")
array dataset	*(description="dark current error of blue array in V/s")*
Metadata	
Double2d	(description="dark current error of blue array in V/s", quantity="V/s")

10.3.9. DetectorSortMatrix

product (type="DetectorSortMatrix", description="Detector sorting matrices for the red and blue photometer.")	
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	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="Calfile type identifier")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="Calibration product fits filen")
array dataset	*(description="null")*
Metadata	
Int2d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Int2d	(description="null", quantity="none")

10.3.10. DiscardRampHooks

product (type="DiscardRampHooks", description="number of discarded readouts at the ramp start to account for the hook response")					
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	formatVersion (description="Calfile Format version")				
StringParameter	calFileId (description="null")				
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					
Int1d	(description="number of full resolution red ramp readouts affected by the initial&", quantity="none")				

10.3.11. EffectiveCapacitance

product (type="EffectiveCapacitance", description="Effective measured capacitances of the four possible commandable capacitances of the spectrometer")	
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	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="Calfile type identifier")
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	
Double1d	(description="effective measured capacitances in pF", quantity="none")

10.3.12. FilterBandConversion

product (type="FilterBandConversion", description="Defines the wheel position (wpr) readout to band conversion")	
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	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
informaltable dataset	*(description="association of filter wheel position to spectral bands")*
Metadata	
Int1d	wpr (description="null", quantity="none")
String1d	band (description="null", quantity="none")
String1d	camera (description="null", quantity="none")
String1d	description (description="null", quantity="none")

10.3.13. GprHall

product (type="GprHall", description="Defines the GPR (DM_GRAT_CUR_POS) versus Hall sensor readback calibration object")	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
	creationDate (description="Date of file creation")

DatePa-rameter	
StringPa-rameter	description (description="Name of this product")
StringPa-rameter	instrument (description="Instrument attached to this product")
StringPa-rameter	modelName (description="Model name attached to this product")
DatePa-rameter	startDate (description="Start date of this product")
DatePa-rameter	endDate (description="End date of this product")
StringPa-rameter	formatVersion (description="Calfile format version")
StringPa-rameter	calFileId (description="null")
StringPa-rameter	author (description="Author of the data")
StringPa-rameter	fileName (description="null")
LongPa-rameter	calFileVersion (description="null")
array dataset	*(description="Grating position readback")*
Metadata	
Double1d	(description="Grating position readback", quantity="none")
array dataset	*(description="HALL A sensor")*
Metadata	
Double1d	(description="HALL A sensor", quantity="none")
array dataset	*(description="HALL B sensor")*
Metadata	
Double1d	(description="HALL B sensor", quantity="none")
infor-maltable dataset	*(description="Sorted, Unique, Partitionned 0_A")*
Metadata	
Double1d	Hall (description="null", quantity="none")
Double1d	GPR (description="null", quantity="none")
infor-maltable dataset	*(description="Sorted, Unique, Partitionned 1_A")*
Metadata	
Double1d	Hall (description="null", quantity="none")
Double1d	GPR (description="null", quantity="none")

informaltable dataset	*(description="Sorted, Unique, Partitionned 2_A")*
Metadata	
Double1d	Hall (description="null", quantity="none")
Double1d	GPR (description="null", quantity="none")
informaltable dataset	*(description="Sorted, Unique, Partitionned 3_A")*
Metadata	
Double1d	Hall (description="null", quantity="none")
Double1d	GPR (description="null", quantity="none")
informaltable dataset	*(description="Sorted, Unique, Partitionned 0_B")*
Metadata	
Double1d	Hall (description="null", quantity="none")
Double1d	GPR (description="null", quantity="none")
informaltable dataset	*(description="Sorted, Unique, Partitionned 1_B")*
Metadata	
Double1d	Hall (description="null", quantity="none")
Double1d	GPR (description="null", quantity="none")
informaltable dataset	*(description="Sorted, Unique, Partitionned 2_B")*
Metadata	
Double1d	Hall (description="null", quantity="none")
Double1d	GPR (description="null", quantity="none")
informaltable dataset	*(description="Sorted, Unique, Partitionned 3_B")*
Metadata	
Double1d	Hall (description="null", quantity="none")
Double1d	GPR (description="null", quantity="none")

10.3.14. GratingJitterThreshold

product (type="GratingJitterThreshold", description="value for the jitter threshold of the final grating positions in readout units")	
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	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
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	
Double1d	(description="accuracy of final grating position in readouts", quantity="none")

10.3.15. KeyWavelengths

product (type="KeyWavelengths", description="defines the primary and secondary key wavelengths")	
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	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
informaltable dataset	*(description="definitions of primary and secondary key wavelengths")*
Metadata	
Int1d	id (description="key wavelength counter", quantity="")
String1d	band (description="band name for the key wavelength", quantity="")
Double1d	keywave (description="key wavelengths", quantity="micron [1.0E-6 m]")
String1d	

	idstr (description="identification name for the key wavelength", quantity="")
Double1d	gratpos (description="grating position of the key wavelength", quantity="")
String1d	primesec (description="indicates if primary or secondary key wavelengt", quantity="")
Double1d	beginLambda (description="Begin of wavelength interval", quantity="micron [1.0E-6 m]")
Double1d	endLambda (description="End of wavelength interval", quantity="micron [1.0E-6 m]")

10.3.16. LabelDescription

product (type="LabelDescription", description="defines the bit coded labels vs. a verbal description")	
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	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
array dataset	*(description="Label descriptions for Spectrometer")*
Metadata	
String1d	(description="Label descriptions for Spectrometer", quantity="none")
array dataset	*(description="Label bit setting for Spectrometer")*
Metadata	
Int1d	(description="Label bit setting for Spectrometer", quantity="none")

10.3.17. LittrowParameters

product (type="LittrowParameters", description="Littrow parameters for wavelength calibration")	
Metadata	
	type (description="Product Type Identification")

StringParameter	
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	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
array dataset	*(description="Grating Constant")*
Metadata	
Double1d	(description="Grating Constant", quantity="none")
array dataset	*(description="Grating readout steps per degree")*
Metadata	
Double1d	(description="Grating readout steps per degree", quantity="none")
array dataset	*(description="Angular deviation from ideal Littrow case (input angle)")*
Metadata	
Double1d	(description="Angular deviation from ideal Littrow case (input angle)", quantity="none")
array dataset	*(description="Angular deviation from ideal Littrow case (output angle)")*
Metadata	
Double1d	(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	
Double1d	(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	
Double1d	(description="Correction of output angle per pixel unit offset to central pixel", quantity="none")
array dataset	*(description="Grating angle at grating zero position")*
Metadata	
Double1d	(description="Grating angle at grating zero position", quantity="none")
array dataset	*(description="Grating angle at grating zero position")*
Metadata	
Double1d	(description="Grating angle at grating zero position", quantity="none")

10.3.18. LittrowPolynomes

product (type="LittrowPolynomes", description="Grating wavelength calibration: Littrow equation parameters / polynome approximation for alpha per pixel")	
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	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="Filename used for saving FITS file")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")

LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="null")
StringParameter	fileName (description="null")
composite	*(description="null")*
Metadata	
array dataset	*(description="null")*
Metadata	
Double1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")

composite	*(description="null")*
Metadata	
array dataset	*(description="null")*
Metadata	
Double1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")
composite	*(description="null")*
Metadata	
array dataset	*(description="null")*

Metadata	
Double1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")
com-posite	*(description="null")*
Metadata	
array dataset	*(description="null")*
Metadata	
Double1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double1d	(description="null", quantity="none")

array dataset	*(description="null")*
Metadata	
Double1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double1d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")
array dataset	*(description="null")*
Metadata	
Double2d	(description="null", quantity="none")

10.3.19. ModuleArray

product (type="ModuleArray", description="Module to Array coordinate conversion calibration object")	
Meta-data	
String-Parame-ter	type (description="Product Type Identification")
String-Parame-ter	creator (description="Generator of this product")
DatePa-rameter	creationDate (description="Creation date of this product")
String-Parame-ter	description (description="Name of this product")

String-Parameter	instrument (description="Instrument attached to this product")
String-Parameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
String-Parameter	formatVersion (description="Calfile Format version")
String-Parameter	calFileId (description="null")
String-Parameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
String-Parameter	author (description="Author of the data")
array dataset	*(description="y-stage (y-sky) coordinate of the blue module w.r.t module 12 as re&")*
Metadata	
Double1d	(description="y-stage (y-sky) coordinate of the blue module w.r.t module 12 as re&", quantity="none")
array dataset	*(description="x-stage (-z-sky) coordinate of the blue module w.r.t module 12 as r&")*
Metadata	
Double1d	(description="x-stage (-z-sky) coordinate of the blue module w.r.t module 12 as r&", quantity="none")
array dataset	*(description="y-stage (y-sky) coordinate of the red module w.r.t module 12 as ref&")*
Metadata	
Double1d	(description="y-stage (y-sky) coordinate of the red module w.r.t module 12 as ref&", quantity="none")
array dataset	*(description="x-stage (-z-sky) coordinate of the red module w.r.t module 12 as re&")*
Metadata	
Double1d	(description="x-stage (-z-sky) coordinate of the red module w.r.t module 12 as re&", quantity="none")

array dataset	*(description="y-stage (y-sky) coordinate of the blue module w.r.t module 12 as re&")*
Metadata	
Double1d	(description="y-stage (y-sky) coordinate of the blue module w.r.t module 12 as re&", quantity="none")
array dataset	*(description="x-stage (-z-sky) coordinate of the blue module w.r.t module 12 as r&")*
Metadata	
Double1d	(description="x-stage (-z-sky) coordinate of the blue module w.r.t module 12 as r&", quantity="none")
array dataset	*(description="y-stage (y-sky) coordinate of the red module w.r.t module 12 as ref&")*
Metadata	
Double1d	(description="y-stage (y-sky) coordinate of the red module w.r.t module 12 as ref&", quantity="none")
array dataset	*(description="x-stage (-z-sky) coordinate of the red module w.r.t module 12 as re&")*
Metadata	
Double1d	(description="x-stage (-z-sky) coordinate of the red module w.r.t module 12 as re&", quantity="none")
array dataset	*(description="y-stage (y-sky) coordinate of the blue module w.r.t module 12 as re&")*
Metadata	
Double1d	(description="y-stage (y-sky) coordinate of the blue module w.r.t module 12 as re&", quantity="none")
array dataset	*(description="x-stage (-z-sky) coordinate of the blue module w.r.t module 12 as r&")*
Metadata	
Double1d	(description="x-stage (-z-sky) coordinate of the blue module w.r.t module 12 as r&", quantity="none")
array dataset	*(description="y-stage (y-sky) coordinate of the red module w.r.t module 12 as ref&")*
Metadata	
Double1d	(description="y-stage (y-sky) coordinate of the red module w.r.t module 12 as ref&", quantity="none")
array dataset	*(description="x-stage (-z-sky) coordinate of the red module w.r.t module 12 as re&")*
Metadata	
Double1d	(description="x-stage (-z-sky) coordinate of the red module w.r.t module 12 as re&", quantity="none")

array dataset	*(description="y-stage (y-sky) coordinate of the blue module w.r.t module 12 as re&")*
Metadata	
Double1d	(description="y-stage (y-sky) coordinate of the blue module w.r.t module 12 as re&", quantity="none")
array dataset	*(description="x-stage (-z-sky) coordinate of the blue module w.r.t module 12 as r&")*
Metadata	
Double1d	(description="x-stage (-z-sky) coordinate of the blue module w.r.t module 12 as r&", quantity="none")
array dataset	*(description="y-stage (y-sky) coordinate of the red module w.r.t module 12 as ref&")*
Metadata	
Double1d	(description="y-stage (y-sky) coordinate of the red module w.r.t module 12 as ref&", quantity="none")
array dataset	*(description="x-stage (-z-sky) coordinate of the red module w.r.t module 12 as re&")*
Metadata	
Double1d	(description="x-stage (-z-sky) coordinate of the red module w.r.t module 12 as re&", quantity="none")

10.3.20. NoisyPixelMask

product (type="NoisyPixelMask", description="Noisy pixels mask for PACS spectrometer.")	
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	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
array dataset	*(description="Noisy pixels of red array stored in a Bool2d(18, 25)")*
Metadata	

Bool2d	(description="Noisy pixels of red array stored in a Bool2d(18, 25)", quantity="none")
array dataset	*(description="Noisy pixels of blue array stored in a Bool2d(18, 25)")*
Metadata	
Bool2d	(description="Noisy pixels of blue array stored in a Bool2d(18, 25)", quantity="none")

10.3.21. NominalResponse

product (type="NominalResponse", description="contains the nominal responses in V/s/Jy per prime key wavelength")	
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	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
informaltable dataset	*(description="contains the nominal responses in V/s/Jy for each band")*
Metadata	
Double2d	b2a (description="response of band B2A", quantity="V/(s Jy) [1.0E26 V m2 Hz/(s W)]")
Double2d	b2b (description="response of band B2B", quantity="V/(s Jy) [1.0E26 V m2 Hz/(s W)]")
Double2d	b3a (description="response of band B3A", quantity="V/(s Jy) [1.0E26 V m2 Hz/(s W)]")
Double2d	r1 (description="response of band R1", quantity="V/(s Jy) [1.0E26 V m2 Hz/(s W)]")

10.3.22. NonLinearity

product (type="NonLinearity", description="contains coefficents of a second order polynomial to linearize signals for the red and blue array stored in a Double3d(18, 25, 3)")	
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	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
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 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")

10.3.23. Psf

product (type="Psf", description="Point spread functions for the red and blue spectrometer.")	
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	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")

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	
Double3d	(description="3D dataset with x,y 27X27 red PSF points, z are the spectrally aver&", quantity="none")
array dataset	*(description="3D dataset with x,y 27X27 blue PSF points, z are the spectrally ave&")*
Metadata	
Double3d	(description="3D dataset with x,y 27X27 blue PSF points, z are the spectrally ave&", quantity="none")
array dataset	*(description="4D dataset with x,y 27X27 red PSF points, z are the 25 modules, 4th&")*
Metadata	
Double4d	(description="4D dataset with x,y 27X27 red PSF points, z are the 25 modules, 4th&", quantity="none")
array dataset	*(description="4D dataset with x,y 27X27 blue PSF points, z are the 25 modules, 4t&")*
Metadata	
Double4d	(description="4D dataset with x,y 27X27 blue PSF points, z are the 25 modules, 4t&", quantity="none")

10.3.24. RampSatLimits

product (type="RampSatLimits", description="contains the ramp saturation limits (digits) for the red and blue array")	
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	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
array dataset	*(description="saturation limits of the red array in digits dependend on the capac&")*

Metadata	
Double3d	(description="saturation limits of the red array in digits dependend on the capac&", quantity="none")
array dataset	*(description="saturation limits of the blue array in digits dependend on the capa&")*
Metadata	
Double3d	(description="saturation limits of the blue array in digits dependend on the capa&", quantity="none")

10.3.25. Readouts2Volts

product (type="Readouts2Volts", description="Defines the ramp readout to volt conversion")	
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	formatVersion (description="Calfile format version")
StringParameter	calFileId (description="null")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
array dataset	*(description="Start value Digits")*
Metadata	
Double1d	(description="Start value Digits", quantity="none")
array dataset	*(description="End value Digits")*
Metadata	

Double1d	(description="End value Digits", quantity="none")
array dataset	*(description="Start value Voltage")*
Metadata	
Double1d	(description="Start value Voltage", quantity="none")
array dataset	*(description="End value Voltage")*
Metadata	
Double1d	(description="End value Voltage", quantity="none")
array dataset	*(description="Start value Digits")*
Metadata	
Double1d	(description="Start value Digits", quantity="none")
array dataset	*(description="End value Digits")*
Metadata	
Double1d	(description="End value Digits", quantity="none")
array dataset	*(description="Start value Voltage")*
Metadata	
Double1d	(description="Start value Voltage", quantity="none")
array dataset	*(description="End value Voltage")*
Metadata	
Double1d	(description="End value Voltage", quantity="none")

10.3.26. RelCalSourceFlux

product (type="RelCalSourceFlux", description="contains the flux ratios of both calibration sources at key wavelengths to prime key wavelengths")	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="null")
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	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")

StringParameter	author (description="Author of the data")			
StringParameter	versionNotes (description="null")			
informaltable dataset	*(description="contains the flux ratios of both CS at each key wavelength to prime&")*			
Metadata				
String1d	idstr (description="identification name for the key wavelength", quantity="")			
Double1d	keywave (description="secondary key wavelengths", quantity="micron [1.0E-6 m]")			
Double1d	primekeywave (description="prime key wavelengths", quantity="micron [1.0E-6 m]")			
Double3d	cs1fluxratio (description="flux ratios of CS1", quantity="")			
Double3d	cs2fluxratio (description="flux ratios of CS2s", quantity="")			
String1d	primeidstr (description="null", quantity="none")			

10.3.27. RsrfB2A

product (type="RsrfB2A", description="Relative spectral Response Function for one spectral band")	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="null")
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	formatVersion (description="null")
StringParameter	calFileId (description="null")
StringParameter	productNotes (description="null")
StringParameter	versionNotes (description="null")
StringParameter	band (description="null")
StringParameter	author (description="null")

StringParame-ter	fileName (description="null")
LongParameter	calFileVersion (description="Calfile version")
array dataset	*(description="Grating Position")*
Metadata	
Double1d	(description="Grating Position", quantity="")
array dataset	*(description="Relative response (Fnu)")*
Metadata	
Double3d	(description="Relative response (Fnu)", quantity="")
array dataset	*(description="Statistical error on the Relative Response")*
Metadata	
Double3d	(description="Statistical error on the Relative Response", quantity="")
compos-ite	*(description="History of product")*
Metadata	
LongParameter	id (description="Unique ID")
informaltable dataset	*(description="History as Jython script")*
Metadata	
StringParameter	outvar (description="last output variable")
String1d	Lines (description="script lines", quantity="none")
informaltable dataset	*(description="History of tasks")*
Metadata	
Long1d	ID (description="Links the parameter and task informaltable", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
informaltable dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task informaltable", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")

Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")
String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

10.3.28. Sensitivity

product (type="Sensitivity", description="contains the line and continuum RMS noise fluctuations for 1 sec integration time")	
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	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
array dataset	*(description="wavelengths for order 1")*
Metadata	
Double1d	(description="wavelengths for order 1", quantity="micron [1.0E-6 m]")
array dataset	*(description="wavelengths for order 2")*
Metadata	
Double1d	(description="wavelengths for order 2", quantity="micron [1.0E-6 m]")

array dataset	*(description="wavelengths for extreme order 2")*
Metadata	
Double1d	(description="wavelengths for extreme order 2", quantity="micron [1.0E-6 m]")
array dataset	*(description="wavelengths for order 3")*
Metadata	
Double1d	(description="wavelengths for order 3", quantity="micron [1.0E-6 m]")
array dataset	*(description="continuum rms noise unit jy for order 1")*
Metadata	
Double1d	(description="continuum rms noise unit jy for order 1", quantity="Jy [1.0E-26 W/m2/Hz]")
array dataset	*(description="continuum rms noise unit jy for order 2")*
Metadata	
Double1d	(description="continuum rms noise unit jy for order 2", quantity="Jy [1.0E-26 W/m2/Hz]")
array dataset	*(description="continuum rms noise unit jy for order 23")*
Metadata	
Double1d	(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	
Double1d	(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	
Double1d	(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	
Double1d	(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	
Double1d	(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	
Double1d	(description="line rms noise unit W/m^2 for order 3", quantity="W/m2")

10.3.29. SignalSatLimits

product (type="SignalSatLimits", description="contains the signal saturation limits (digits/second) for the red and blue array scaled for 1 second reset interval")	
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	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
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")

10.3.30. SpecProperties

product (type="SpecProperties", description="spectrometer constants to calculate spectral resolution vs. wavelength")	
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	formatVersion (description="Calfile Format version")

StringParameter	calFileId (description="null")
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="")
array dataset	*(description="speed of light in km/s")*
Metadata	
Double1d	(description="speed of light in km/s", quantity="km/s [1000.0 m/s]")

10.3.31. TelescopeBackground

product (type="TelescopeBackground", description="SED of the telescope background")	
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	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
array dataset	*(description="wavelengths")*
Metadata	
Double1d	(description="wavelengths", quantity="micron [1.0E-6 m]")

array dataset	*(description="telescope flux in unit jy")*
Metadata	
Double1d	(description="telescope flux in unit jy", quantity="Jy [1.0E-26 W/m2/Hz]")
array dataset	*(description="telescope flux in unit W/pix")*
Metadata	
Double1d	(description="telescope flux in unit W/pix", quantity="W")

10.3.32. TimeDependency

product (type="TimeDependency", description="Defines time dependency for calibration products.")	
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	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="Calfile Type identifier")
LongParameter	calFileVersion (description="Calfile version")
StringParameter	scope (description="null")
StringParameter	fileName (description="Filename used for saving FITS file")
StringParameter	author (description="null")
informaltable dataset	*(description="Time Dependency Informaltable for FM")*
Metadata	
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")
String1d	type (description="null", quantity="none")
String1d	unit (description="null", quantity="none")
Long1d	time (description="null", quantity="none")
Long1d	version (description="null", quantity="none")
String1d	comment (description="null", quantity="none")

Chapter 11. SPIRE Observational Products

11.1. SPIRE Level-0 Products

11.1.1. RPDT: Raw Photometer Detector Timeline

product (type="RPDT", description="Raw Photometer Detector Timeline")	
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	formatVersion (description="Version of product format")
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="Observation identifier")
StringParameter	obsMode (description="Observation mode name")
LongParameter	odNumber (description="Operational day number")
StringParameter	origin (description="Site that created the product")
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	level (description="The level of the product")
StringParameter	source (description="TM source packet name")
StringParameter	elecSide (description="Electronic side")
StringParameter	bbTypeName (description="Building block type name")
StringParameter	biasMode (description="Bias mode")
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="")
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Int1d	PHOTFARRAY021 (description="Parameter Value", quantity="")
Int1d	PHOTFARRAY022 (description="Parameter Value", quantity="")
Int1d	PHOTFARRAY023 (description="Parameter Value", quantity="")
Int1d	PHOTFARRAY024 (description="Parameter Value", quantity="")
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Int1d	PHOTFARRAY030 (description="Parameter Value", quantity="")
Int1d	PHOTFARRAY031 (description="Parameter Value", quantity="")
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Int1d	PHOTFARRAY034 (description="Parameter Value", quantity="")
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Int1d	PHOTFARRAY282 (description="Parameter Value", quantity="")
Int1d	PHOTFARRAY283 (description="Parameter Value", quantity="")
Int1d	PHOTFARRAY284 (description="Parameter Value", quantity="")
Int1d	PHOTFARRAY285 (description="Parameter Value", quantity="")

Int1d	PHOTFARRAY286 (description="Parameter Value", quantity="")
Int1d	PHOTFARRAY287 (description="Parameter Value", quantity="")
Int1d	PHOTFARRAY288 (description="Parameter Value", quantity="")
Int1d	PHOTFADCFLGS (description="Parameter Value", quantity="")
Long1d	PHOTFFRAMETIME (description="Parameter Value", quantity="")
Long1d	sdfTime (description="SpireDataFrame time", quantity="")
Long1d	packetTime (description="TM packet time", quantity="")
Int1d	seqCount (description="Sequence count", quantity="")

11.1.2. RPOT: Raw Photometer Offset Timeline

product (type="RPOT", description="Raw Photometer Offset Timeline")	
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	formatVersion (description="Version of product format")
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="Observation identifier")
StringParameter	obsMode (description="Observation mode name")
LongParameter	odNumber (description="Operational day number")
StringParameter	origin (description="Site that created the product")
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	level (description="The level of the product")
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="")
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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="")
Int1d	PHOTOFF037 (description="Parameter Value", quantity="")
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Int1d	PHOTOFF041 (description="Parameter Value", quantity="")
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Int1d	PHOTOFF045 (description="Parameter Value", quantity="")
Int1d	PHOTOFF046 (description="Parameter Value", quantity="")
Int1d	PHOTOFF047 (description="Parameter Value", quantity="")
Int1d	PHOTOFF048 (description="Parameter Value", quantity="")
Int1d	PHOTOFF049 (description="Parameter Value", quantity="")
Int1d	PHOTOFF050 (description="Parameter Value", quantity="")
Int1d	PHOTOFF051 (description="Parameter Value", quantity="")
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Int1d	PHOTOFF053 (description="Parameter Value", quantity="")
Int1d	PHOTOFF054 (description="Parameter Value", quantity="")
Int1d	PHOTOFF055 (description="Parameter Value", quantity="")
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Int1d	PHOTOFF061 (description="Parameter Value", quantity="")
Int1d	PHOTOFF062 (description="Parameter Value", quantity="")
Int1d	PHOTOFF063 (description="Parameter Value", quantity="")
Int1d	PHOTOFF064 (description="Parameter Value", quantity="")
Int1d	PHOTOFF065 (description="Parameter Value", quantity="")
Int1d	PHOTOFF066 (description="Parameter Value", quantity="")
Int1d	PHOTOFF067 (description="Parameter Value", quantity="")
Int1d	PHOTOFF068 (description="Parameter Value", quantity="")
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Int1d	PHOTOFF071 (description="Parameter Value", quantity="")
Int1d	PHOTOFF072 (description="Parameter Value", quantity="")
Int1d	PHOTOFF073 (description="Parameter Value", quantity="")
Int1d	PHOTOFF074 (description="Parameter Value", quantity="")

Int1d	PHOTOFF075 (description="Parameter Value", quantity="")
Int1d	PHOTOFF076 (description="Parameter Value", quantity="")
Int1d	PHOTOFF077 (description="Parameter Value", quantity="")
Int1d	PHOTOFF078 (description="Parameter Value", quantity="")
Int1d	PHOTOFF079 (description="Parameter Value", quantity="")
Int1d	PHOTOFF080 (description="Parameter Value", quantity="")
Int1d	PHOTOFF081 (description="Parameter Value", quantity="")
Int1d	PHOTOFF082 (description="Parameter Value", quantity="")
Int1d	PHOTOFF083 (description="Parameter Value", quantity="")
Int1d	PHOTOFF084 (description="Parameter Value", quantity="")
Int1d	PHOTOFF085 (description="Parameter Value", quantity="")
Int1d	PHOTOFF086 (description="Parameter Value", quantity="")
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Int1d	PHOTOFF107 (description="Parameter Value", quantity="")
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Int1d	PHOTOFF113 (description="Parameter Value", quantity="")
Int1d	PHOTOFF114 (description="Parameter Value", quantity="")
Int1d	PHOTOFF115 (description="Parameter Value", quantity="")
Int1d	PHOTOFF116 (description="Parameter Value", quantity="")

Int1d	PHOTOFF117 (description="Parameter Value", quantity="")
Int1d	PHOTOFF118 (description="Parameter Value", quantity="")
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Int1d	PHOTOFF159 (description="Parameter Value", quantity="")
Int1d	PHOTOFF160 (description="Parameter Value", quantity="")
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Int1d	PHOTOFF166 (description="Parameter Value", quantity="")
Int1d	PHOTOFF167 (description="Parameter Value", quantity="")
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Int1d	PHOTOFF170 (description="Parameter Value", quantity="")
Int1d	PHOTOFF171 (description="Parameter Value", quantity="")
Int1d	PHOTOFF172 (description="Parameter Value", quantity="")
Int1d	PHOTOFF173 (description="Parameter Value", quantity="")
Int1d	PHOTOFF174 (description="Parameter Value", quantity="")
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Int1d	PHOTOFF179 (description="Parameter Value", quantity="")
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Int1d	PHOTOFF185 (description="Parameter Value", quantity="")
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Int1d	PHOTOFF189 (description="Parameter Value", quantity="")
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Int1d	PHOTOFF197 (description="Parameter Value", quantity="")
Int1d	PHOTOFF198 (description="Parameter Value", quantity="")
Int1d	PHOTOFF199 (description="Parameter Value", quantity="")
Int1d	PHOTOFF200 (description="Parameter Value", quantity="")

Int1d	PHOTOFF201 (description="Parameter Value", quantity="")
Int1d	PHOTOFF202 (description="Parameter Value", quantity="")
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Int1d	PHOTOFF211 (description="Parameter Value", quantity="")
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Int1d	PHOTOFF219 (description="Parameter Value", quantity="")
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Int1d	PHOTOFF239 (description="Parameter Value", quantity="")
Int1d	PHOTOFF240 (description="Parameter Value", quantity="")
Int1d	PHOTOFF241 (description="Parameter Value", quantity="")
Int1d	PHOTOFF242 (description="Parameter Value", quantity="")

Int1d	PHOTOFF243 (description="Parameter Value", quantity="")
Int1d	PHOTOFF244 (description="Parameter Value", quantity="")
Int1d	PHOTOFF245 (description="Parameter Value", quantity="")
Int1d	PHOTOFF246 (description="Parameter Value", quantity="")
Int1d	PHOTOFF247 (description="Parameter Value", quantity="")
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Int1d	PHOTOFF255 (description="Parameter Value", quantity="")
Int1d	PHOTOFF256 (description="Parameter Value", quantity="")
Int1d	PHOTOFF257 (description="Parameter Value", quantity="")
Int1d	PHOTOFF258 (description="Parameter Value", quantity="")
Int1d	PHOTOFF259 (description="Parameter Value", quantity="")
Int1d	PHOTOFF260 (description="Parameter Value", quantity="")
Int1d	PHOTOFF261 (description="Parameter Value", quantity="")
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Int1d	PHOTOFF263 (description="Parameter Value", quantity="")
Int1d	PHOTOFF264 (description="Parameter Value", quantity="")
Int1d	PHOTOFF265 (description="Parameter Value", quantity="")
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Int1d	PHOTOFF267 (description="Parameter Value", quantity="")
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Int1d	PHOTOFF277 (description="Parameter Value", quantity="")
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Int1d	PHOTOFF281 (description="Parameter Value", quantity="")
Int1d	PHOTOFF282 (description="Parameter Value", quantity="")
Int1d	PHOTOFF283 (description="Parameter Value", quantity="")
Int1d	PHOTOFF284 (description="Parameter Value", quantity="")

Int1d	PHOTOFF285 (description="Parameter Value", quantity="")
Int1d	PHOTOFF286 (description="Parameter Value", quantity="")
Int1d	PHOTOFF287 (description="Parameter Value", quantity="")
Int1d	PHOTOFF288 (description="Parameter Value", quantity="")
Int1d	PHOTOFFADCFLGS (description="Parameter Value", quantity="")
Long1d	PHOTOFFFRAMETIME (description="Parameter Value", quantity="")
Long1d	sdfTime (description="SpireDataFrame time", quantity="")
Long1d	packetTime (description="TM packet time", quantity="")
Int1d	seqCount (description="Sequence count", quantity="")

11.1.3. RSDT: Raw Spectrometer Detector Timeline

product (type="RSDT", description="Raw Spectrometer Detector Timeline")	
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	formatVersion (description="Version of product format")
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="Observation identifier")
StringParameter	obsMode (description="Observation mode name")
LongParameter	odNumber (description="Operational day number")
StringParameter	origin (description="Site that created the product")
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	level (description="The level of the product")
StringParameter	source (description="TM source packet name")
StringParameter	elecSide (description="Electronic side")
StringParameter	bbTypeName (description="Building block type name")
table dataset	*(description="Spectrometer Full Array (Nominal Science Report)")*
Metadata	
Int1d	SPECFARRAY001 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY002 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY003 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY004 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY005 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY006 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY007 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY008 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY009 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY010 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY011 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY012 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY013 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY014 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY015 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY016 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY017 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY018 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY019 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY020 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY021 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY022 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY023 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY024 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY025 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY026 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY027 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY028 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY029 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY030 (description="Parameter Value", quantity="")

Int1d	SPECFARRAY031 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY032 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY033 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY034 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY035 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY036 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY037 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY038 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY039 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY040 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY041 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY042 (description="Parameter Value", quantity="")
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Int1d	SPECFARRAY044 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY045 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY046 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY047 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY048 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY049 (description="Parameter Value", quantity="")
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Int1d	SPECFARRAY060 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY061 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY062 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY063 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY064 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY065 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY066 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY067 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY068 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY069 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY070 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY071 (description="Parameter Value", quantity="")
Int1d	SPECFARRAY072 (description="Parameter Value", quantity="")

Int1d	SPECFADCFLGS (description="Parameter Value", quantity="")
Long1d	SPECFFRAMETIME (description="Parameter Value", quantity="")
Long1d	sdfTime (description="SpireDataFrame time", quantity="")
Long1d	packetTime (description="TM packet time", quantity="")
Int1d	seqCount (description="Sequence count", quantity="")

11.1.4. RSOT: Raw Spectrometer Offset Timeline

product (type="RSOT", description="Raw Spectrometer Offset Timeline")	
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	formatVersion (description="Version of product format")
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="Observation identifier")
StringParameter	obsMode (description="Observation mode name")
LongParameter	odNumber (description="Operational day number")
StringParameter	origin (description="Site that created the product")
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	level (description="The level of the product")
StringParameter	source (description="TM source packet name")
StringParameter	elecSide (description="Electronic side")
StringParameter	bbTypeName (description="Building block type name")
table dataset	*(description="Spectrometer Offsets")*
Metadata	
Int1d	SPECOFF001 (description="Parameter Value", quantity="")
Int1d	SPECOFF002 (description="Parameter Value", quantity="")
Int1d	SPECOFF003 (description="Parameter Value", quantity="")
Int1d	SPECOFF004 (description="Parameter Value", quantity="")
Int1d	SPECOFF005 (description="Parameter Value", quantity="")
Int1d	SPECOFF006 (description="Parameter Value", quantity="")
Int1d	SPECOFF007 (description="Parameter Value", quantity="")
Int1d	SPECOFF008 (description="Parameter Value", quantity="")
Int1d	SPECOFF009 (description="Parameter Value", quantity="")
Int1d	SPECOFF010 (description="Parameter Value", quantity="")
Int1d	SPECOFF011 (description="Parameter Value", quantity="")
Int1d	SPECOFF012 (description="Parameter Value", quantity="")
Int1d	SPECOFF013 (description="Parameter Value", quantity="")
Int1d	SPECOFF014 (description="Parameter Value", quantity="")
Int1d	SPECOFF015 (description="Parameter Value", quantity="")
Int1d	SPECOFF016 (description="Parameter Value", quantity="")
Int1d	SPECOFF017 (description="Parameter Value", quantity="")
Int1d	SPECOFF018 (description="Parameter Value", quantity="")
Int1d	SPECOFF019 (description="Parameter Value", quantity="")
Int1d	SPECOFF020 (description="Parameter Value", quantity="")
Int1d	SPECOFF021 (description="Parameter Value", quantity="")
Int1d	SPECOFF022 (description="Parameter Value", quantity="")
Int1d	SPECOFF023 (description="Parameter Value", quantity="")
Int1d	SPECOFF024 (description="Parameter Value", quantity="")
Int1d	SPECOFF025 (description="Parameter Value", quantity="")
Int1d	SPECOFF026 (description="Parameter Value", quantity="")
Int1d	SPECOFF027 (description="Parameter Value", quantity="")
Int1d	SPECOFF028 (description="Parameter Value", quantity="")
Int1d	SPECOFF029 (description="Parameter Value", quantity="")
Int1d	SPECOFF030 (description="Parameter Value", quantity="")
Int1d	SPECOFF031 (description="Parameter Value", quantity="")
Int1d	SPECOFF032 (description="Parameter Value", quantity="")
Int1d	SPECOFF033 (description="Parameter Value", quantity="")
Int1d	SPECOFF034 (description="Parameter Value", quantity="")
Int1d	SPECOFF035 (description="Parameter Value", quantity="")

Int1d	SPECOFF036 (description="Parameter Value", quantity="")
Int1d	SPECOFF037 (description="Parameter Value", quantity="")
Int1d	SPECOFF038 (description="Parameter Value", quantity="")
Int1d	SPECOFF039 (description="Parameter Value", quantity="")
Int1d	SPECOFF040 (description="Parameter Value", quantity="")
Int1d	SPECOFF041 (description="Parameter Value", quantity="")
Int1d	SPECOFF042 (description="Parameter Value", quantity="")
Int1d	SPECOFF043 (description="Parameter Value", quantity="")
Int1d	SPECOFF044 (description="Parameter Value", quantity="")
Int1d	SPECOFF045 (description="Parameter Value", quantity="")
Int1d	SPECOFF046 (description="Parameter Value", quantity="")
Int1d	SPECOFF047 (description="Parameter Value", quantity="")
Int1d	SPECOFF048 (description="Parameter Value", quantity="")
Int1d	SPECOFF049 (description="Parameter Value", quantity="")
Int1d	SPECOFF050 (description="Parameter Value", quantity="")
Int1d	SPECOFF051 (description="Parameter Value", quantity="")
Int1d	SPECOFF052 (description="Parameter Value", quantity="")
Int1d	SPECOFF053 (description="Parameter Value", quantity="")
Int1d	SPECOFF054 (description="Parameter Value", quantity="")
Int1d	SPECOFF055 (description="Parameter Value", quantity="")
Int1d	SPECOFF056 (description="Parameter Value", quantity="")
Int1d	SPECOFF057 (description="Parameter Value", quantity="")
Int1d	SPECOFF058 (description="Parameter Value", quantity="")
Int1d	SPECOFF059 (description="Parameter Value", quantity="")
Int1d	SPECOFF060 (description="Parameter Value", quantity="")
Int1d	SPECOFF061 (description="Parameter Value", quantity="")
Int1d	SPECOFF062 (description="Parameter Value", quantity="")
Int1d	SPECOFF063 (description="Parameter Value", quantity="")
Int1d	SPECOFF064 (description="Parameter Value", quantity="")
Int1d	SPECOFF065 (description="Parameter Value", quantity="")
Int1d	SPECOFF066 (description="Parameter Value", quantity="")
Int1d	SPECOFF067 (description="Parameter Value", quantity="")
Int1d	SPECOFF068 (description="Parameter Value", quantity="")
Int1d	SPECOFF069 (description="Parameter Value", quantity="")
Int1d	SPECOFF070 (description="Parameter Value", quantity="")
Int1d	SPECOFF071 (description="Parameter Value", quantity="")
Int1d	SPECOFF072 (description="Parameter Value", quantity="")
Int1d	SPECOFFADCFLGS (description="Parameter Value", quantity="")
Long1d	SPECOFFFRAMETIME (description="Parameter Value", quantity="")
Long1d	sdfTime (description="SpireDataFrame time", quantity="")
Long1d	packetTime (description="TM packet time", quantity="")

Int1d	seqCount (description="Sequence count", quantity="")

11.1.5. RNHKT: Raw Nominal Housekeeping Timeline

product (type="RNHKT", description="Raw Nominal House Keeping Timeline")	
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	formatVersion (description="Version of product format")
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="Observation identifier")
StringParameter	obsMode (description="Observation mode name")
LongParameter	odNumber (description="Operational day number")
StringParameter	origin (description="Site that created the product")
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	level (description="The level of the product")
StringParameter	source (description="TM source packet name")
StringParameter	elecSide (description="Electronic side")

StringParameter	bbTypeName (description="Building block type name")
table dataset	*(description="Nominal HK Parameter Report")*
Metadata	
Short1d	NHK_VERS (description="Parameter Value", quantity="")
Short1d	NHK_TYPE (description="Parameter Value", quantity="")
Short1d	NHK_DFHFLAG (description="Parameter Value", quantity="")
Short1d	NHK_APID (description="Parameter Value", quantity="")
Short1d	NHK_SEGFLAG (description="Parameter Value", quantity="")
Short1d	NHK_SSC (description="Parameter Value", quantity="")
Int1d	NHK_PKTLEN (description="Parameter Value", quantity="")
Short1d	NHK_PUSVERS (description="Parameter Value", quantity="")
Short1d	NHK_PKTTYPE (description="Parameter Value", quantity="")
Short1d	NHK_PKTSTYPE (description="Parameter Value", quantity="")
Long1d	NHK_PKTCTIME (description="Parameter Value", quantity="")
Int1d	NHK_PKTFTIME (description="Parameter Value", quantity="")
Int1d	BBFULLTYPE (description="Parameter Value", quantity="")
Int1d	MODE (description="Parameter Value", quantity="")
Int1d	STEP (description="Parameter Value", quantity="")
Long1d	THSK (description="Parameter Value", quantity="")
Long1d	TRESET (description="Parameter Value", quantity="")
Int1d	TCRECV (description="Parameter Value", quantity="")
Int1d	TCRECN (description="Parameter Value", quantity="")
Int1d	TCEXEC (description="Parameter Value", quantity="")
Int1d	TCEXEN (description="Parameter Value", quantity="")
Int1d	TM1N (description="Parameter Value", quantity="")
Int1d	TM2N (description="Parameter Value", quantity="")
Int1d	TM3N (description="Parameter Value", quantity="")
Int1d	TM4N (description="Parameter Value", quantity="")
Int1d	TM5N (description="Parameter Value", quantity="")
Int1d	DCUFRAMECNT (description="Parameter Value", quantity="")
Int1d	MCUFRAMECNT (description="Parameter Value", quantity="")
Int1d	SCUFRAMECNT (description="Parameter Value", quantity="")
Long1d	TSYNC (description="Parameter Value", quantity="")
Long1d	TDIFF (description="Parameter Value", quantity="")
Int1d	MEMSTAT_1 (description="Parameter Value", quantity="")
Int1d	MEMSTAT_2 (description="Parameter Value", quantity="")
Int1d	MEMSTAT_3 (description="Parameter Value", quantity="")
Int1d	MONSTAT (description="Parameter Value", quantity="")
Short1d	DCULSIFSTAT (description="Parameter Value", quantity="")
Short1d	DCUHSIFMODE (description="Parameter Value", quantity="")
Short1d	MCULSIFSTAT (description="Parameter Value", quantity="")
Short1d	MCUHSIFMODE (description="Parameter Value", quantity="")

Short1d	SCULSIFSTAT (description="Parameter Value", quantity="")
Short1d	SCUHSMODE (description="Parameter Value", quantity="")
Int1d	BBCOUNT (description="Parameter Value", quantity="")
Int1d	VMSTAT (description="Parameter Value", quantity="")
Int1d	VM1STAT (description="Parameter Value", quantity="")
Int1d	VM2STAT (description="Parameter Value", quantity="")
Int1d	VM3STAT (description="Parameter Value", quantity="")
Int1d	VMSTATAFX (description="Parameter Value", quantity="")
Int1d	SD_VALUE0 (description="Parameter Value", quantity="")
Int1d	SD_ADDRESS0 (description="Parameter Value", quantity="")
Int1d	SD_VALUE1 (description="Parameter Value", quantity="")
Int1d	SD_ADDRESS1 (description="Parameter Value", quantity="")
Int1d	SD_VALUE2 (description="Parameter Value", quantity="")
Int1d	SD_ADDRESS2 (description="Parameter Value", quantity="")
Int1d	SD_VALUE3 (description="Parameter Value", quantity="")
Int1d	SD_ADDRESS3 (description="Parameter Value", quantity="")
Int1d	DPUP5V (description="Parameter Value", quantity="")
Int1d	DPUP15V (description="Parameter Value", quantity="")
Int1d	DPUM15V (description="Parameter Value", quantity="")
Int1d	DPUTEMP (description="Parameter Value", quantity="")
Int1d	CPULOAD (description="Parameter Value", quantity="")
Long1d	LSLOAD (description="Parameter Value", quantity="")
Int1d	DPUP2_5V (description="Parameter Value", quantity="")
Int1d	DCUDATAMODE (description="Parameter Value", quantity="")
Int1d	DCUDATAFRMS (description="Parameter Value", quantity="")
Int1d	DCUDATASTAT (description="Parameter Value", quantity="")
Int1d	PHOTBIASDIV (description="Parameter Value", quantity="")
Int1d	PHOTBIASMODE (description="Parameter Value", quantity="")
Int1d	PHOTMCLKDIV (description="Parameter Value", quantity="")
Int1d	PSWBIAS (description="Parameter Value", quantity="")
Int1d	PMWBIAS (description="Parameter Value", quantity="")
Int1d	PLWBIAS (description="Parameter Value", quantity="")
Int1d	TCBIAS (description="Parameter Value", quantity="")
Int1d	PSWPHASE (description="Parameter Value", quantity="")
Int1d	PMWPHASE (description="Parameter Value", quantity="")
Int1d	PLWPHASE (description="Parameter Value", quantity="")
Int1d	TCPHASE (description="Parameter Value", quantity="")
Int1d	PSWJFETSTAT (description="Parameter Value", quantity="")
Short1d	PSW_VDD_JFET1 (description="Parameter Value", quantity="")
Short1d	PSW_VDD_JFET2 (description="Parameter Value", quantity="")
Short1d	PSW_VDD_JFET3 (description="Parameter Value", quantity="")
Short1d	PSW_VDD_JFET4 (description="Parameter Value", quantity="")

Short1d	PSW_VDD_JFET5 (description="Parameter Value", quantity="")
Short1d	PSW_VDD_JFET6 (description="Parameter Value", quantity="")
Int1d	PMLWJFETSTAT (description="Parameter Value", quantity="")
Short1d	PMW_VDD_JFET1 (description="Parameter Value", quantity="")
Short1d	PMW_VDD_JFET2 (description="Parameter Value", quantity="")
Short1d	PMW_VDD_JFET3 (description="Parameter Value", quantity="")
Short1d	PMW_VDD_JFET4 (description="Parameter Value", quantity="")
Short1d	PLW_VDD_JFET1 (description="Parameter Value", quantity="")
Short1d	PLW_VDD_JFET2 (description="Parameter Value", quantity="")
Short1d	TC_VDD_JFET (description="Parameter Value", quantity="")
Int1d	PSWJFET1V (description="Parameter Value", quantity="")
Int1d	PSWJFET2V (description="Parameter Value", quantity="")
Int1d	PSWJFET3V (description="Parameter Value", quantity="")
Int1d	PSWJFET4V (description="Parameter Value", quantity="")
Int1d	PSWJFET5V (description="Parameter Value", quantity="")
Int1d	PSWJFET6V (description="Parameter Value", quantity="")
Int1d	PMWJFET1V (description="Parameter Value", quantity="")
Int1d	PMWJFET2V (description="Parameter Value", quantity="")
Int1d	PMWJFET3V (description="Parameter Value", quantity="")
Int1d	PMWJFET4V (description="Parameter Value", quantity="")
Int1d	PLWJFET1V (description="Parameter Value", quantity="")
Int1d	PLWJFET2V (description="Parameter Value", quantity="")
Int1d	PHOTHTRV (description="Parameter Value", quantity="")
Int1d	TCJFETV (description="Parameter Value", quantity="")
Int1d	SPECBIASDIV (description="Parameter Value", quantity="")
Int1d	SPECBIASMODE (description="Parameter Value", quantity="")
Int1d	SPECMCLKDIV (description="Parameter Value", quantity="")
Int1d	SSWBIAS (description="Parameter Value", quantity="")
Int1d	SLWBIAS (description="Parameter Value", quantity="")
Int1d	SSWPHASE (description="Parameter Value", quantity="")
Int1d	SLWPHASE (description="Parameter Value", quantity="")
Int1d	SPECJFETSTAT (description="Parameter Value", quantity="")
Short1d	SLW_VDD_JFET1 (description="Parameter Value", quantity="")
Short1d	SSW_VDD_JFET1 (description="Parameter Value", quantity="")
Short1d	SSW_VDD_JFET2 (description="Parameter Value", quantity="")
Int1d	SSWJFET1V (description="Parameter Value", quantity="")
Int1d	SSWJFET2V (description="Parameter Value", quantity="")
Int1d	SLWJFET1V (description="Parameter Value", quantity="")
Int1d	SPECHTRV (description="Parameter Value", quantity="")
Int1d	TC1TEMP (description="Parameter Value", quantity="")
Int1d	TC2TEMP (description="Parameter Value", quantity="")
Int1d	TC3TEMP (description="Parameter Value", quantity="")

Int1d	BIASP5V (description="Parameter Value", quantity="")
Int1d	BIASP9V (description="Parameter Value", quantity="")
Int1d	BIASM9V (description="Parameter Value", quantity="")
Int1d	OBSVER (description="Parameter Value", quantity="")
Short1d	OBSVER1 (description="Parameter Value", quantity="")
Short1d	OBSVER2 (description="Parameter Value", quantity="")
Short1d	OBSVER3 (description="Parameter Value", quantity="")
Int1d	TMMODE (description="Parameter Value", quantity="")
Int1d	FIFO_DF_FLAG (description="Parameter Value", quantity="")
Int1d	PLIAP5V (description="Parameter Value", quantity="")
Int1d	PLIAP9V (description="Parameter Value", quantity="")
Int1d	PLIAM9V (description="Parameter Value", quantity="")
Int1d	SLIAP5V (description="Parameter Value", quantity="")
Int1d	SLIAP9V (description="Parameter Value", quantity="")
Int1d	SLIAM9V (description="Parameter Value", quantity="")
Int1d	LIAP9TEMP (description="Parameter Value", quantity="")
Int1d	LIAP8TEMP (description="Parameter Value", quantity="")
Int1d	LIAP7TEMP (description="Parameter Value", quantity="")
Int1d	LIAP6TEMP (description="Parameter Value", quantity="")
Int1d	LIAP5TEMP (description="Parameter Value", quantity="")
Int1d	LIAP4TEMP (description="Parameter Value", quantity="")
Int1d	LIAP3TEMP (description="Parameter Value", quantity="")
Int1d	LIAP2TEMP (description="Parameter Value", quantity="")
Int1d	LIAP1TEMP (description="Parameter Value", quantity="")
Int1d	LIAS1TEMP (description="Parameter Value", quantity="")
Int1d	LIAS2TEMP (description="Parameter Value", quantity="")
Int1d	LIAS3TEMP (description="Parameter Value", quantity="")
Int1d	BIASTEMP (description="Parameter Value", quantity="")
Int1d	DAQTEMP (description="Parameter Value", quantity="")
Int1d	LIASTAT (description="Parameter Value", quantity="")
Short1d	LIAP1STAT (description="Parameter Value", quantity="")
Short1d	LIAP2STAT (description="Parameter Value", quantity="")
Short1d	LIAP3STAT (description="Parameter Value", quantity="")
Short1d	LIAP4STAT (description="Parameter Value", quantity="")
Short1d	LIAP5STAT (description="Parameter Value", quantity="")
Short1d	LIAP6STAT (description="Parameter Value", quantity="")
Short1d	LIAP7STAT (description="Parameter Value", quantity="")
Short1d	LIAP8STAT (description="Parameter Value", quantity="")
Short1d	LIAP9STAT (description="Parameter Value", quantity="")
Short1d	LIAS1STAT (description="Parameter Value", quantity="")
Short1d	LIAS2STAT (description="Parameter Value", quantity="")
Short1d	LIAS3STAT (description="Parameter Value", quantity="")

Int1d	MCUIFSTAT (description="Parameter Value", quantity="")
Int1d	MCUIFCTRL (description="Parameter Value", quantity="")
Int1d	MCUSSDEL (description="Parameter Value", quantity="")
Int1d	MCUP5V (description="Parameter Value", quantity="")
Int1d	MCUP14V (description="Parameter Value", quantity="")
Int1d	MCUM14V (description="Parameter Value", quantity="")
Int1d	MCUP15V (description="Parameter Value", quantity="")
Int1d	MCUM15V (description="Parameter Value", quantity="")
Int1d	MCUMACTEMP (description="Parameter Value", quantity="")
Int1d	MCUSMECTEMP (description="Parameter Value", quantity="")
Int1d	MCUBSMTEMP (description="Parameter Value", quantity="")
Int1d	MCUERR (description="Parameter Value", quantity="")
Int1d	MCUSCHEDCNTLSW (description="Parameter Value", quantity="")
Int1d	MCUSCHEDCNTMSW (description="Parameter Value", quantity="")
Int1d	MCUTM10TSAMPLE (description="Parameter Value", quantity="")
Int1d	MCUFRAMESTART (description="Parameter Value", quantity="")
Int1d	MCUTM12TSAMPLE (description="Parameter Value", quantity="")
Int1d	MCUFRAMES (description="Parameter Value", quantity="")
Int1d	MCUTM14TSAMPLE (description="Parameter Value", quantity="")
Int1d	MCUTM15TSAMPLE (description="Parameter Value", quantity="")
Int1d	MCUTMSTATUS (description="Parameter Value", quantity="")
Int1d	MCUBOOTSTAT (description="Parameter Value", quantity="")
Int1d	MCUDLOADCONF (description="Parameter Value", quantity="")
Int1d	SMECLOSTCOUNT (description="Parameter Value", quantity="")
Int1d	SMECENCPWR (description="Parameter Value", quantity="")
Int1d	SMECLVDTPWR (description="Parameter Value", quantity="")
Int1d	SMECLATCHSTAT (description="Parameter Value", quantity="")
Int1d	SMECLOOPMODE (description="Parameter Value", quantity="")
Int1d	SCANSTART (description="Parameter Value", quantity="")
Int1d	SCANEND (description="Parameter Value", quantity="")
Int1d	SCANFSPEED (description="Parameter Value", quantity="")
Int1d	SCANS (description="Parameter Value", quantity="")
Int1d	SCANMODE (description="Parameter Value", quantity="")
Int1d	SMECKP (description="Parameter Value", quantity="")
Int1d	SMECKD (description="Parameter Value", quantity="")
Int1d	SMECDFILT (description="Parameter Value", quantity="")
Int1d	SMECKI (description="Parameter Value", quantity="")
Int1d	SMECINTLIMIT (description="Parameter Value", quantity="")
Int1d	SMECINTTHRESH (description="Parameter Value", quantity="")
Int1d	SMECRATELIMIT (description="Parameter Value", quantity="")
Int1d	SMECDFILT2 (description="Parameter Value", quantity="")

Int1d	SMECFFGAIN (description="Parameter Value", quantity="")
Int1d	SMECFFOFFSET (description="Parameter Value", quantity="")
Int1d	SCANRSPEED (description="Parameter Value", quantity="")
Int1d	SMECBEMFGAIN (description="Parameter Value", quantity="")
Int1d	SMECMOTORRES (description="Parameter Value", quantity="")
Int1d	SMECMOTORBEMF (description="Parameter Value", quantity="")
Int1d	SMECRATESCALE (description="Parameter Value", quantity="")
Int1d	SMECLVDTOFFSET (description="Parameter Value", quantity="")
Int1d	SMECLVDTSCALE (description="Parameter Value", quantity="")
Int1d	SMECSTAT (description="Parameter Value", quantity="")
Short1d	SMECFLAG (description="Parameter Value", quantity="")
Short1d	SMECLVDTSIGN (description="Parameter Value", quantity="")
Short1d	SMECINIT (description="Parameter Value", quantity="")
Short1d	SMECSCANDIR (description="Parameter Value", quantity="")
Short1d	SMECSCANCNT (description="Parameter Value", quantity="")
Int1d	SMECENCPOSN (description="Parameter Value", quantity="")
Int1d	SMECENCSIG1 (description="Parameter Value", quantity="")
Int1d	SMECENCSIG2 (description="Parameter Value", quantity="")
Int1d	SMECENCSIG3 (description="Parameter Value", quantity="")
Int1d	SMECLVDTPOSN (description="Parameter Value", quantity="")
Int1d	SMECLVDTACSIG (description="Parameter Value", quantity="")
Int1d	SMECLVDTDCSIG (description="Parameter Value", quantity="")
Int1d	SMECTRAJPOSN (description="Parameter Value", quantity="")
Int1d	SMECDACVAL (description="Parameter Value", quantity="")
Int1d	SMECPOSNDELTA (description="Parameter Value", quantity="")
Int1d	SMECENCFINEPOSN (description="Parameter Value", quantity="")
Int1d	SMECMEANSPEED (description="Parameter Value", quantity="")
Int1d	SMECSCANPOSNERR (description="Parameter Value", quantity="")
Int1d	SMECMOTORCURR (description="Parameter Value", quantity="")
Int1d	SMECMOTORVOLT (description="Parameter Value", quantity="")
Int1d	SMECENCSIG1AMP (description="Parameter Value", quantity="")
Int1d	SMECENCSIG1OFF (description="Parameter Value", quantity="")
Int1d	SMECENCSIG2AMP (description="Parameter Value", quantity="")
Int1d	SMECENCSIG2OFF (description="Parameter Value", quantity="")
Int1d	SMECENCSIG3AMP (description="Parameter Value", quantity="")
Int1d	SMECENCSIG3OFF (description="Parameter Value", quantity="")
Int1d	CHOPSENSPWR (description="Parameter Value", quantity="")
Int1d	CHOPLOOPMODE (description="Parameter Value", quantity="")
Int1d	CHOPPOSN (description="Parameter Value", quantity="")
Int1d	CHOPPOSN2 (description="Parameter Value", quantity="")
Int1d	BSMMODE (description="Parameter Value", quantity="")

Int1d	CHOPFFOFFSET (description="Parameter Value", quantity="")
Int1d	CHOPKP (description="Parameter Value", quantity="")
Int1d	CHOPKD (description="Parameter Value", quantity="")
Int1d	CHOPKI (description="Parameter Value", quantity="")
Int1d	CHOPINTREF (description="Parameter Value", quantity="")
Int1d	CHOPINTLIMIT (description="Parameter Value", quantity="")
Int1d	CHOPFFGAIN (description="Parameter Value", quantity="")
Int1d	CHOPFFGAINDIFF (description="Parameter Value", quantity="")
Int1d	CHOPDIFFTC1 (description="Parameter Value", quantity="")
Int1d	CHOPDIFFTC2 (description="Parameter Value", quantity="")
Int1d	CHOPRATELIMIT (description="Parameter Value", quantity="")
Int1d	CHOPMOTBEMFGAIN (description="Parameter Value", quantity="")
Int1d	CHOPMOTRES (description="Parameter Value", quantity="")
Int1d	CHOPMOTIND (description="Parameter Value", quantity="")
Int1d	CHOPRATESCALE (description="Parameter Value", quantity="")
Int1d	CHOPPOSNSCALE (description="Parameter Value", quantity="")
Int1d	CHOPBEMFRATFIL1 (description="Parameter Value", quantity="")
Int1d	CHOPBEMFRATFIL2 (description="Parameter Value", quantity="")
Int1d	CHOPJIGGCOUPLE (description="Parameter Value", quantity="")
Int1d	BSMSTAT (description="Parameter Value", quantity="")
Int1d	CHOPPOSNERR (description="Parameter Value", quantity="")
Int1d	CHOPSENSSIG (description="Parameter Value", quantity="")
Int1d	CHOPDACVAL (description="Parameter Value", quantity="")
Int1d	CHOPMOTORCURR (description="Parameter Value", quantity="")
Int1d	CHOPMOTORVOLT (description="Parameter Value", quantity="")
Int1d	JIGGSENSPWR (description="Parameter Value", quantity="")
Int1d	JIGGLOOPMODE (description="Parameter Value", quantity="")
Int1d	JIGGPOSN (description="Parameter Value", quantity="")
Int1d	JIGGPOSN2 (description="Parameter Value", quantity="")
Int1d	JIGGFFOFFSET (description="Parameter Value", quantity="")
Int1d	JIGGKP (description="Parameter Value", quantity="")
Int1d	JIGGKD (description="Parameter Value", quantity="")
Int1d	JIGGKI (description="Parameter Value", quantity="")
Int1d	JIGGINTREF (description="Parameter Value", quantity="")
Int1d	JIGGINTLIMIT (description="Parameter Value", quantity="")
Int1d	JIGGFFGAIN (description="Parameter Value", quantity="")
Int1d	JIGGFFGAINDIFF (description="Parameter Value", quantity="")
Int1d	JIGGDIFFTC1 (description="Parameter Value", quantity="")
Int1d	JIGGDIFFTC2 (description="Parameter Value", quantity="")
Int1d	JIGGRATELIMIT (description="Parameter Value", quantity="")
Int1d	JIGGMOTBEMFGAIN (description="Parameter Value", quantity="")

Int1d	JIGGMOTRES (description="Parameter Value", quantity="")
Int1d	JIGGMOTIND (description="Parameter Value", quantity="")
Int1d	JIGGRATESCALE (description="Parameter Value", quantity="")
Int1d	JIGGPOSNSCALE (description="Parameter Value", quantity="")
Int1d	JIGGBEMFRATFIL1 (description="Parameter Value", quantity="")
Int1d	JIGGBEMFRATFIL2 (description="Parameter Value", quantity="")
Int1d	JIGGCHOPCOUPLE (description="Parameter Value", quantity="")
Int1d	JIGGPOSNERR (description="Parameter Value", quantity="")
Int1d	JIGGSENSSIG (description="Parameter Value", quantity="")
Int1d	JIGGDACVAL (description="Parameter Value", quantity="")
Int1d	JIGGMOTORCURR (description="Parameter Value", quantity="")
Int1d	JIGGMOTORVOLT (description="Parameter Value", quantity="")
Int1d	MCUPCKT10PARM05 (description="Parameter Value", quantity="")
Int1d	MCUPCKT10PARM01 (description="Parameter Value", quantity="")
Int1d	MCUPCKT10PARM02 (description="Parameter Value", quantity="")
Int1d	MCUPCKT10PARM03 (description="Parameter Value", quantity="")
Int1d	MCUPCKT10PARM04 (description="Parameter Value", quantity="")
Int1d	MCUPCKT12PARM01 (description="Parameter Value", quantity="")
Int1d	MCUPCKT12PARM02 (description="Parameter Value", quantity="")
Int1d	MCUPCKT12PARM03 (description="Parameter Value", quantity="")
Int1d	MCUPCKT12PARM04 (description="Parameter Value", quantity="")
Int1d	MCUPCKT12PARM05 (description="Parameter Value", quantity="")
Int1d	MCUPCKT12PARM06 (description="Parameter Value", quantity="")
Int1d	MCUPCKT14PARM01 (description="Parameter Value", quantity="")
Int1d	MCUPCKT14PARM02 (description="Parameter Value", quantity="")
Int1d	MCUPCKT14PARM03 (description="Parameter Value", quantity="")
Int1d	MCUPCKT14PARM04 (description="Parameter Value", quantity="")
Int1d	MCUPCKT14PARM05 (description="Parameter Value", quantity="")
Int1d	MCUPCKT14PARM06 (description="Parameter Value", quantity="")
Int1d	MCUPCKT14PARM07 (description="Parameter Value", quantity="")
Int1d	MCUPCKT14PARM08 (description="Parameter Value", quantity="")
Int1d	MCUPCKT14PARM09 (description="Parameter Value", quantity="")
Int1d	MCUPCKT14PARM10 (description="Parameter Value", quantity="")
Int1d	MCUPCKT14PARM11 (description="Parameter Value", quantity="")
Int1d	MCUPCKT14PARM12 (description="Parameter Value", quantity="")
Int1d	MCUPCKT14PARM13 (description="Parameter Value", quantity="")
Int1d	MCUPCKT14PARM14 (description="Parameter Value", quantity="")
Int1d	SCUIFSTAT (description="Parameter Value", quantity="")
Int1d	SCUIFCTRL (description="Parameter Value", quantity="")
Int1d	SCUSSDEL (description="Parameter Value", quantity="")
Int1d	SCUSTAT (description="Parameter Value", quantity="")
Int1d	SCUTEMPSTAT (description="Parameter Value", quantity="")

Int1d	SCUDCDCSTAT (description="Parameter Value", quantity="")
Short1d	PLIABITSTAT (description="Parameter Value", quantity="")
Short1d	SLIABITSTAT (description="Parameter Value", quantity="")
Short1d	MCUBITSTAT (description="Parameter Value", quantity="")
Int1d	SCUP5V (description="Parameter Value", quantity="")
Int1d	SCUP9V (description="Parameter Value", quantity="")
Int1d	SCUM9V (description="Parameter Value", quantity="")
Int1d	EVHSV (description="Parameter Value", quantity="")
Int1d	SPHSV (description="Parameter Value", quantity="")
Int1d	TCHTRV (description="Parameter Value", quantity="")
Int1d	SPHTRV (description="Parameter Value", quantity="")
Int1d	CCUTEMP (description="Parameter Value", quantity="")
Int1d	TCUTEMP (description="Parameter Value", quantity="")
Int1d	PSUTEMP1 (description="Parameter Value", quantity="")
Int1d	SCUFRAMECONF (description="Parameter Value", quantity="")
Int1d	SCUFRAMES (description="Parameter Value", quantity="")
Int1d	SCUFRAMESTAT (description="Parameter Value", quantity="")
Int1d	SCUCTRL (description="Parameter Value", quantity="")
Int1d	PCALV (description="Parameter Value", quantity="")
Int1d	SCAL2V (description="Parameter Value", quantity="")
Int1d	SCAL4V (description="Parameter Value", quantity="")
Int1d	SCUCHT2_5V (description="Parameter Value", quantity="")
Int1d	SCUCHTREF (description="Parameter Value", quantity="")
Int1d	SCUCHTGND (description="Parameter Value", quantity="")
Int1d	PCALCURR (description="Parameter Value", quantity="")
Int1d	SCAL2CURR (description="Parameter Value", quantity="")
Int1d	SCAL4CURR (description="Parameter Value", quantity="")
Int1d	PSUTEMP2 (description="Parameter Value", quantity="")
Int1d	SUBKSTAT (description="Parameter Value", quantity="")
Int1d	PUMPHTRTEMP (description="Parameter Value", quantity="")
Int1d	PUMPHSTEMP (description="Parameter Value", quantity="")
Int1d	EVAPHSTEMP (description="Parameter Value", quantity="")
Int1d	SHUNTTEMP (description="Parameter Value", quantity="")
Int1d	EMCFILTEMP (description="Parameter Value", quantity="")
Int1d	SL0TEMP (description="Parameter Value", quantity="")
Int1d	PL0TEMP (description="Parameter Value", quantity="")
Int1d	OPTTEMP (description="Parameter Value", quantity="")
Int1d	BAFTEMP (description="Parameter Value", quantity="")
Int1d	BSMIFTEMP (description="Parameter Value", quantity="")
Int1d	SCAL2TEMP (description="Parameter Value", quantity="")
Int1d	SCAL4TEMP (description="Parameter Value", quantity="")
Int1d	SCALTEMP (description="Parameter Value", quantity="")

Int1d	SMECIFTEMP (description="Parameter Value", quantity="")
Int1d	SMECTEMP (description="Parameter Value", quantity="")
Int1d	BSMTEMP (description="Parameter Value", quantity="")
Int1d	SUBKTEMP (description="Parameter Value", quantity="")
Int1d	SCUTHTREF (description="Parameter Value", quantity="")
Int1d	SCUTHTGND (description="Parameter Value", quantity="")
Int1d	LOSTTCBLOCK (description="Parameter Value", quantity="")
Int1d	LOSTEVBLOCK (description="Parameter Value", quantity="")
Int1d	LOSTHKBLOCK (description="Parameter Value", quantity="")
Int1d	LOSTSDBLOCK (description="Parameter Value", quantity="")
Int1d	LOSTNTBLOCK (description="Parameter Value", quantity="")
Int1d	LS_HP_FIFOSTAT (description="Parameter Value", quantity="")
Int1d	LS_LP_FIFOSTAT (description="Parameter Value", quantity="")
Short1d	MCUPCKT10STAT (description="Parameter Value", quantity="")
Short1d	MCUPCKT12STAT (description="Parameter Value", quantity="")
Short1d	MCUPCKT14STAT (description="Parameter Value", quantity="")
Short1d	MCUPCKT15STAT (description="Parameter Value", quantity="")
Short1d	MCURAMINTEGRITY (description="Parameter Value", quantity="")
Short1d	MCURAMTSTPROG (description="Parameter Value", quantity="")
Short1d	MCURAMTSTDATA (description="Parameter Value", quantity="")
Short1d	MCUPROM2RAMCOPY (description="Parameter Value", quantity="")
Short1d	MCUBOOTMODE (description="Parameter Value", quantity="")
Int1d	SMECSELECTTAB (description="Parameter Value", quantity="")
Int1d	CREC_STEP (description="Parameter Value", quantity="")
Int1d	PTC_STAGE (description="Parameter Value", quantity="")
Int1d	SCAL_STAGE (description="Parameter Value", quantity="")
Int1d	JIGGLE_STEP (description="Parameter Value", quantity="")
Int1d	LOSTRPBLOCK (description="Parameter Value", quantity="")
Int1d	LIAFAILCOUNT (description="Parameter Value", quantity="")
Int1d	SCANRES (description="Parameter Value", quantity="")
Int1d	TABLE7_07_LWORD (description="Parameter Value", quantity="")
Int1d	TABLE7_08_LWORD (description="Parameter Value", quantity="")
Int1d	TABLE7_09_LWORD (description="Parameter Value", quantity="")
Long1d	TABLE7_10 (description="Parameter Value", quantity="")
Long1d	TABLE7_11 (description="Parameter Value", quantity="")
Long1d	TABLE7_12 (description="Parameter Value", quantity="")
Int1d	HK_00 (description="Parameter Value", quantity="")
Int1d	HK_01 (description="Parameter Value", quantity="")
Int1d	HK_02 (description="Parameter Value", quantity="")
Int1d	HK_03 (description="Parameter Value", quantity="")

Int1d	HK_04 (description="Parameter Value", quantity="")
Int1d	HK_05 (description="Parameter Value", quantity="")
Int1d	HK_06 (description="Parameter Value", quantity="")
Int1d	HK_07 (description="Parameter Value", quantity="")
Int1d	HK_08 (description="Parameter Value", quantity="")
Int1d	HK_09 (description="Parameter Value", quantity="")
Int1d	HK_10 (description="Parameter Value", quantity="")
Int1d	HK_11 (description="Parameter Value", quantity="")
Int1d	HK_12 (description="Parameter Value", quantity="")
Int1d	HK_13 (description="Parameter Value", quantity="")
Int1d	HK_14 (description="Parameter Value", quantity="")
Int1d	HK_15 (description="Parameter Value", quantity="")
Int1d	HK_16 (description="Parameter Value", quantity="")
Int1d	HK_17 (description="Parameter Value", quantity="")
Int1d	HK_18 (description="Parameter Value", quantity="")
Int1d	HK_19 (description="Parameter Value", quantity="")
Int1d	HK_20 (description="Parameter Value", quantity="")
Int1d	HK_21 (description="Parameter Value", quantity="")
Int1d	HK_22 (description="Parameter Value", quantity="")
Int1d	HK_23 (description="Parameter Value", quantity="")
Long1d	sdfTime (description="SpireDataFrame time", quantity="")
Long1d	packetTime (description="TM packet time", quantity="")
Int1d	seqCount (description="Sequence count", quantity="")

11.1.6. RCHKT: Raw Critical Housekeeping Timeline

product (type="RCHKT", description="Raw Critical House Keeping Timeline")	
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	formatVersion (description="Version of product format")
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="Observation identifier")
StringParameter	obsMode (description="Observation mode name")
LongParameter	odNumber (description="Operational day number")
StringParameter	origin (description="Site that created the product")
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	level (description="The level of the product")
StringParameter	source (description="TM source packet name")
StringParameter	elecSide (description="Electronic side")
StringParameter	bbTypeName (description="Building block type name")
table dataset	*(description="Critical HK Parameter Report")*
Metadata	
Int1d	SID_C (description="Parameter Value", quantity="")
Long1d	OBSID_C (description="Parameter Value", quantity="")
Long1d	BBID_C (description="Parameter Value", quantity="")
Int1d	MODE_C (description="Parameter Value", quantity="")
Int1d	STEP_C (description="Parameter Value", quantity="")
Int1d	TCRECV_C (description="Parameter Value", quantity="")
Int1d	TCEXEC_C (description="Parameter Value", quantity="")
Int1d	MEMSTAT1_C (description="Parameter Value", quantity="")
Int1d	MEMSTAT2_C (description="Parameter Value", quantity="")
Int1d	MEMSTAT3_C (description="Parameter Value", quantity="")
Int1d	MONSTAT_C (description="Parameter Value", quantity="")
Int1d	SCUDCDCSTAT_C (description="Parameter Value", quantity="")
Int1d	MCUIFSTAT_C (description="Parameter Value", quantity="")
Int1d	SCUIFSTAT_C (description="Parameter Value", quantity="")
Int1d	PSWJFETSTAT_C (description="Parameter Value", quantity="")
Short1d	PSW_VDD_JFET1_C (description="Parameter Value", quantity="")
Short1d	PSW_VDD_JFET2_C (description="Parameter Value", quantity="")

Short1d	PSW_VDD_JFET3_C (description="Parameter Value", quantity="")
Short1d	PSW_VDD_JFET4_C (description="Parameter Value", quantity="")
Short1d	PSW_VDD_JFET5_C (description="Parameter Value", quantity="")
Short1d	PSW_VDD_JFET6_C (description="Parameter Value", quantity="")
Int1d	PMLWJFETSTAT_C (description="Parameter Value", quantity="")
Short1d	PMW_VDD_JFET1_C (description="Parameter Value", quantity="")
Short1d	PMW_VDD_JFET2_C (description="Parameter Value", quantity="")
Short1d	PMW_VDD_JFET3_C (description="Parameter Value", quantity="")
Short1d	PMW_VDD_JFET4_C (description="Parameter Value", quantity="")
Short1d	PLW_VDD_JFET1_C (description="Parameter Value", quantity="")
Short1d	PLW_VDD_JFET2_C (description="Parameter Value", quantity="")
Short1d	TC_VDD_JFET_C (description="Parameter Value", quantity="")
Int1d	SPECJFETSTAT_C (description="Parameter Value", quantity="")
Short1d	SLW_VDD_JFET1_C (description="Parameter Value", quantity="")
Short1d	SSW_VDD_JFET1_C (description="Parameter Value", quantity="")
Short1d	SSW_VDD_JFET2_C (description="Parameter Value", quantity="")
Int1d	LIASTAT_C (description="Parameter Value", quantity="")
Short1d	LIAP1STAT_C (description="Parameter Value", quantity="")
Short1d	LIAP2STAT_C (description="Parameter Value", quantity="")
Short1d	LIAP3STAT_C (description="Parameter Value", quantity="")
Short1d	LIAP4STAT_C (description="Parameter Value", quantity="")
Short1d	LIAP5STAT_C (description="Parameter Value", quantity="")
Short1d	LIAP6STAT_C (description="Parameter Value", quantity="")
Short1d	LIAP7STAT_C (description="Parameter Value", quantity="")
Short1d	LIAP8STAT_C (description="Parameter Value", quantity="")
Short1d	LIAP9STAT_C (description="Parameter Value", quantity="")
Short1d	LIAS1STAT_C (description="Parameter Value", quantity="")
Short1d	LIAS2STAT_C (description="Parameter Value", quantity="")
Short1d	LIAS3STAT_C (description="Parameter Value", quantity="")
Int1d	MCUERR_C (description="Parameter Value", quantity="")
Int1d	SMECSTAT_C (description="Parameter Value", quantity="")
Int1d	BSMSTAT_C (description="Parameter Value", quantity="")
Int1d	SCUSTAT_C (description="Parameter Value", quantity="")
Int1d	SUBKTEMP_C (description="Parameter Value", quantity="")
Int1d	OBSVER_C (description="Parameter Value", quantity="")
Short1d	OBSVER1_C (description="Parameter Value", quantity="")
Short1d	OBSVER2_C (description="Parameter Value", quantity="")
Short1d	OBSVER3_C (description="Parameter Value", quantity="")
Short1d	CHK_VERS (description="Parameter Value", quantity="")
Short1d	CHK_TYPE (description="Parameter Value", quantity="")
Short1d	CHK_DFHFLAG (description="Parameter Value", quantity="")
Short1d	CHK_APID (description="Parameter Value", quantity="")

Short1d	CHK_SEGFLAG (description="Parameter Value", quantity="")
Short1d	CHK_SSC (description="Parameter Value", quantity="")
Int1d	CHK_PKTLEN (description="Parameter Value", quantity="")
Short1d	CHK_PUSVERS (description="Parameter Value", quantity="")
Short1d	CHK_PKTTYPE (description="Parameter Value", quantity="")
Short1d	CHK_PKTSTYPE (description="Parameter Value", quantity="")
Long1d	CHK_PKTCTIME (description="Parameter Value", quantity="")
Int1d	CHK_PKTFTIME (description="Parameter Value", quantity="")
Long1d	sdfTime (description="SpireDataFrame time", quantity="")
Long1d	packetTime (description="TM packet time", quantity="")
Int1d	seqCount (description="Sequence count", quantity="")

11.1.7. RBSMT: Raw Beam Steering Mirror Timeline

product (type="RBSMT", description="Raw Beam Steering Mirror Timeline")	
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	formatVersion (description="Version of product format")
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="Observation identifier")
StringParameter	obsMode (description="Observation mode name")
LongParameter	odNumber (description="Operational day number")
StringParameter	origin (description="Site that created the product")
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	level (description="The level of the product")
StringParameter	source (description="TM source packet name")
StringParameter	elecSide (description="Electronic side")
StringParameter	bbTypeName (description="Building block type name")
table dataset	*(description="BSM Block (Nominal Science Report)")*
Metadata	
Long1d	BSMACQTIME (description="Parameter Value", quantity="")
Int1d	BSMCHOPSENSSIG (description="Parameter Value", quantity="")
Int1d	BSMCHOPMOTORCURR (description="Parameter Value", quantity="")
Int1d	BSMCHOPMOTORVOLT (description="Parameter Value", quantity="")
Int1d	BSMJIGGSENSSIG (description="Parameter Value", quantity="")
Int1d	BSMJIGGMOTORCURR (description="Parameter Value", quantity="")
Int1d	BSMJIGGMOTORVOLT (description="Parameter Value", quantity="")
Long1d	BSMTTIME (description="Parameter Value", quantity="")
Long1d	sdfTime (description="SpireDataFrame time", quantity="")
Long1d	packetTime (description="TM packet time", quantity="")
Int1d	seqCount (description="Sequence count", quantity="")

11.1.8. RSMECT: Raw Spectrometer Mechanism Timeline

product (type="RSMECT", description="Raw Spectrometer Mechanism Timeline")	
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	formatVersion (description="Version of product format")

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="Observation identifier")
StringParameter	obsMode (description="Observation mode name")
LongParameter	odNumber (description="Operational day number")
StringParameter	origin (description="Site that created the product")
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	level (description="The level of the product")
StringParameter	source (description="TM source packet name")
StringParameter	elecSide (description="Electronic side")
StringParameter	bbTypeName (description="Building block type name")
table dataset	*(description="SMEC Selected Data (B Type Science Report)")*
Metadata	
Long1d	SMECSELACQTIME (description="Parameter Value", quantity="")
Int1d	SMECSELENCPOSN (description="Parameter Value", quantity="")
Int1d	SMECSELENCFINEPOSN (description="Parameter Value", quantity="")
Int1d	SMECSELLVDTPOSN (description="Parameter Value", quantity="")
Int1d	SMECSELMOTORBEMF (description="Parameter Value", quantity="")
Long1d	sdfTime (description="SpireDataFrame time", quantity="")
Long1d	packetTime (description="TM packet time", quantity="")
Int1d	seqCount (description="Sequence count", quantity="")

11.1.9. RSCUT: Raw Subsystem Control Unit Timeline

product (type="RSCUT", description="Raw Subsystem Control Unit Timeline")	
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	formatVersion (description="Version of product format")
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="Observation identifier")
StringParameter	obsMode (description="Observation mode name")
LongParameter	odNumber (description="Operational day number")
StringParameter	origin (description="Site that created the product")
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	level (description="The level of the product")
StringParameter	source (description="TM source packet name")
StringParameter	elecSide (description="Electronic side")
StringParameter	bbTypeName (description="Building block type name")

table dataset	*(description="SCU Block (Nominal Science Report)")*
Metadata	
Int1d	SCUPHTEMP (description="Parameter Value", quantity="")
Int1d	SCUPHSTEMP (description="Parameter Value", quantity="")
Int1d	SCUEVHSTEMP (description="Parameter Value", quantity="")
Int1d	SCUSHUNTTEMP (description="Parameter Value", quantity="")
Int1d	SCUEMCFILTEMP (description="Parameter Value", quantity="")
Int1d	SCUSL0TEMP (description="Parameter Value", quantity="")
Int1d	SCUPL0TEMP (description="Parameter Value", quantity="")
Int1d	SCUOPTTEMP (description="Parameter Value", quantity="")
Int1d	SCUBAFTEMP (description="Parameter Value", quantity="")
Int1d	SCUBSMIFTEMP (description="Parameter Value", quantity="")
Int1d	SCUSCAL2TEMP (description="Parameter Value", quantity="")
Int1d	SCUSCAL4TEMP (description="Parameter Value", quantity="")
Int1d	SCUSCALTEMP (description="Parameter Value", quantity="")
Int1d	SCUSMECIFTEMP (description="Parameter Value", quantity="")
Int1d	SCUSMECTEMP (description="Parameter Value", quantity="")
Int1d	SCUBSMTEMP (description="Parameter Value", quantity="")
Int1d	SCUSUBKTEMP (description="Parameter Value", quantity="")
Int1d	SCUTCHTRV (description="Parameter Value", quantity="")
Int1d	SCUPCALCURR (description="Parameter Value", quantity="")
Int1d	SCUPCALV (description="Parameter Value", quantity="")
Int1d	SCUSCAL2CURR (description="Parameter Value", quantity="")
Int1d	SCUSCAL2V (description="Parameter Value", quantity="")
Int1d	SCUSCAL4CURR (description="Parameter Value", quantity="")
Int1d	SCUSCAL4V (description="Parameter Value", quantity="")
Int1d	SCUADC_FLAGS (description="Parameter Value", quantity="")
Long1d	SCUFRAMETIME (description="Parameter Value", quantity="")
Long1d	sdfTime (description="SpireDataFrame time", quantity="")
Long1d	packetTime (description="TM packet time", quantity="")
Int1d	seqCount (description="Sequence count", quantity="")

11.2. SPIRE Level-0.5 Products

11.2.1. PDT: Photometer Detector Timeline

product (type="PDT", description="Photometer Detector Timeline")	
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	formatVersion (description="Version of product format")
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="Observation identifier")
StringParameter	obsMode (description="Observation mode name")
LongParameter	odNumber (description="Operational day number")
StringParameter	origin (description="Site that created the product")
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")
StringParameter	biasMode (description="Bias mode")
LongParameter	maskDead (description="Mask value for dead channel")
LongParameter	maskMaster (description="Mask value for master bit")
LongParameter	maskNoisy (description="Mask value for noisy channel")
LongParameter	maskSlow (description="Mask value for slow channel")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky")
BooleanParameter	adcErrFlag (description="Presence of ADC Latch errors")
DoubleParameter	ratioTrucated (description="Total fraction of out of range values")
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")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation")
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="Scan line number")
StringParameter	level (description="The level of the product")
table dataset	*(description="Voltages table")*
Metadata	
Double1d	sampleTime (description="Sample time", quantity="TAI")
Float1d	PSWR1 (description="PHOTFARRAY001", quantity="V")
Float1d	PSWD16 (description="PHOTFARRAY002", quantity="V")
Float1d	PSWT1 (description="PHOTFARRAY003", quantity="V")
Float1d	PSWB16 (description="PHOTFARRAY004", quantity="V")
Float1d	PSWC15 (description="PHOTFARRAY005", quantity="V")
Float1d	PSWA15 (description="PHOTFARRAY006", quantity="V")
Float1d	PSWD15 (description="PHOTFARRAY007", quantity="V")
Float1d	PSWB15 (description="PHOTFARRAY008", quantity="V")
Float1d	PSWC14 (description="PHOTFARRAY009", quantity="V")
Float1d	PSWD14 (description="PHOTFARRAY010", quantity="V")
Float1d	PSWA14 (description="PHOTFARRAY011", quantity="V")
Float1d	PSWA13 (description="PHOTFARRAY012", quantity="V")
Float1d	PSWB14 (description="PHOTFARRAY013", quantity="V")
Float1d	PSWC13 (description="PHOTFARRAY014", quantity="V")
Float1d	PSWB13 (description="PHOTFARRAY015", quantity="V")
Float1d	PSWD13 (description="PHOTFARRAY016", quantity="V")
Float1d	PSWA12 (description="PHOTFARRAY017", quantity="V")
Float1d	PSWC12 (description="PHOTFARRAY018", quantity="V")
Float1d	PSWD12 (description="PHOTFARRAY019", quantity="V")
Float1d	PSWB12 (description="PHOTFARRAY020", quantity="V")
Float1d	PSWE11 (description="PHOTFARRAY021", quantity="V")
Float1d	PSWA11 (description="PHOTFARRAY022", quantity="V")
Float1d	PSWC11 (description="PHOTFARRAY023", quantity="V")
Float1d	PSWB11 (description="PHOTFARRAY024", quantity="V")
Float1d	PSWE1 (description="PHOTFARRAY025", quantity="V")
Float1d	PSWF1 (description="PHOTFARRAY026", quantity="V")
Float1d	PSWT2 (description="PHOTFARRAY027", quantity="V")
Float1d	PSWH1 (description="PHOTFARRAY028", quantity="V")
Float1d	PSWG1 (description="PHOTFARRAY029", quantity="V")
Float1d	PSWJ1 (description="PHOTFARRAY030", quantity="V")
Float1d	PSWH2 (description="PHOTFARRAY031", quantity="V")
Float1d	PSWF2 (description="PHOTFARRAY032", quantity="V")
Float1d	PSWJ2 (description="PHOTFARRAY033", quantity="V")
Float1d	PSWG2 (description="PHOTFARRAY034", quantity="V")

Float1d	PSWH3 (description="PHOTFARRAY035", quantity="V")
Float1d	PSWJ3 (description="PHOTFARRAY036", quantity="V")
Float1d	PSWE2 (description="PHOTFARRAY037", quantity="V")
Float1d	PSWF3 (description="PHOTFARRAY038", quantity="V")
Float1d	PSWG3 (description="PHOTFARRAY039", quantity="V")
Float1d	PSWH4 (description="PHOTFARRAY040", quantity="V")
Float1d	PSWJ4 (description="PHOTFARRAY041", quantity="V")
Float1d	PSWE3 (description="PHOTFARRAY042", quantity="V")
Float1d	PSWF4 (description="PHOTFARRAY043", quantity="V")
Float1d	PSWG4 (description="PHOTFARRAY044", quantity="V")
Float1d	PSWH5 (description="PHOTFARRAY045", quantity="V")
Float1d	PSWE4 (description="PHOTFARRAY046", quantity="V")
Float1d	PSWJ5 (description="PHOTFARRAY047", quantity="V")
Float1d	PSWF5 (description="PHOTFARRAY048", quantity="V")
Float1d	PSWD6 (description="PHOTFARRAY049", quantity="V")
Float1d	PSWB6 (description="PHOTFARRAY050", quantity="V")
Float1d	PSWC5 (description="PHOTFARRAY051", quantity="V")
Float1d	PSWA5 (description="PHOTFARRAY052", quantity="V")
Float1d	PSWE5 (description="PHOTFARRAY053", quantity="V")
Float1d	PSWB5 (description="PHOTFARRAY054", quantity="V")
Float1d	PSWD5 (description="PHOTFARRAY055", quantity="V")
Float1d	PSWC4 (description="PHOTFARRAY056", quantity="V")
Float1d	PSWA4 (description="PHOTFARRAY057", quantity="V")
Float1d	PSWD4 (description="PHOTFARRAY058", quantity="V")
Float1d	PSWB4 (description="PHOTFARRAY059", quantity="V")
Float1d	PSWC3 (description="PHOTFARRAY060", quantity="V")
Float1d	PSWB3 (description="PHOTFARRAY061", quantity="V")
Float1d	PSWA3 (description="PHOTFARRAY062", quantity="V")
Float1d	PSWA2 (description="PHOTFARRAY063", quantity="V")
Float1d	PSWD3 (description="PHOTFARRAY064", quantity="V")
Float1d	PSWC2 (description="PHOTFARRAY065", quantity="V")
Float1d	PSWB2 (description="PHOTFARRAY066", quantity="V")
Float1d	PSWD2 (description="PHOTFARRAY067", quantity="V")
Float1d	PSWA1 (description="PHOTFARRAY068", quantity="V")
Float1d	PSWC1 (description="PHOTFARRAY069", quantity="V")
Float1d	PSWB1 (description="PHOTFARRAY070", quantity="V")
Float1d	PSWDP1 (description="PHOTFARRAY071", quantity="V")
Float1d	PSWD1 (description="PHOTFARRAY072", quantity="V")
Float1d	PSWF12 (description="PHOTFARRAY073", quantity="V")
Float1d	PSWJ11 (description="PHOTFARRAY074", quantity="V")
Float1d	PSWE12 (description="PHOTFARRAY075", quantity="V")
Float1d	PSWH12 (description="PHOTFARRAY076", quantity="V")

Float1d	PSWG12 (description="PHOTFARRAY077", quantity="V")
Float1d	PSWF13 (description="PHOTFARRAY078", quantity="V")
Float1d	PSWE13 (description="PHOTFARRAY079", quantity="V")
Float1d	PSWJ12 (description="PHOTFARRAY080", quantity="V")
Float1d	PSWH13 (description="PHOTFARRAY081", quantity="V")
Float1d	PSWG13 (description="PHOTFARRAY082", quantity="V")
Float1d	PSWF14 (description="PHOTFARRAY083", quantity="V")
Float1d	PSWE14 (description="PHOTFARRAY084", quantity="V")
Float1d	PSWJ13 (description="PHOTFARRAY085", quantity="V")
Float1d	PSWH14 (description="PHOTFARRAY086", quantity="V")
Float1d	PSWG14 (description="PHOTFARRAY087", quantity="V")
Float1d	PSWJ14 (description="PHOTFARRAY088", quantity="V")
Float1d	PSWF15 (description="PHOTFARRAY089", quantity="V")
Float1d	PSWH15 (description="PHOTFARRAY090", quantity="V")
Float1d	PSWJ15 (description="PHOTFARRAY091", quantity="V")
Float1d	PSWG15 (description="PHOTFARRAY092", quantity="V")
Float1d	PSWH16 (description="PHOTFARRAY093", quantity="V")
Float1d	PSWDP2 (description="PHOTFARRAY094", quantity="V")
Float1d	PSWF16 (description="PHOTFARRAY095", quantity="V")
Float1d	PSWE15 (description="PHOTFARRAY096", quantity="V")
Float1d	PSWD11 (description="PHOTFARRAY097", quantity="V")
Float1d	PSWA10 (description="PHOTFARRAY098", quantity="V")
Float1d	PSWE10 (description="PHOTFARRAY099", quantity="V")
Float1d	PSWC10 (description="PHOTFARRAY100", quantity="V")
Float1d	PSWB10 (description="PHOTFARRAY101", quantity="V")
Float1d	PSWD10 (description="PHOTFARRAY102", quantity="V")
Float1d	PSWA9 (description="PHOTFARRAY103", quantity="V")
Float1d	PSWE9 (description="PHOTFARRAY104", quantity="V")
Float1d	PSWC9 (description="PHOTFARRAY105", quantity="V")
Float1d	PSWB9 (description="PHOTFARRAY106", quantity="V")
Float1d	PSWD9 (description="PHOTFARRAY107", quantity="V")
Float1d	PSWA8 (description="PHOTFARRAY108", quantity="V")
Float1d	PSWC8 (description="PHOTFARRAY109", quantity="V")
Float1d	PSWE8 (description="PHOTFARRAY110", quantity="V")
Float1d	PSWD8 (description="PHOTFARRAY111", quantity="V")
Float1d	PSWB8 (description="PHOTFARRAY112", quantity="V")
Float1d	PSWC7 (description="PHOTFARRAY113", quantity="V")
Float1d	PSWE7 (description="PHOTFARRAY114", quantity="V")
Float1d	PSWA7 (description="PHOTFARRAY115", quantity="V")
Float1d	PSWD7 (description="PHOTFARRAY116", quantity="V")
Float1d	PSWB7 (description="PHOTFARRAY117", quantity="V")
Float1d	PSWC6 (description="PHOTFARRAY118", quantity="V")

Float1d	PSWE6 (description="PHOTFARRAY119", quantity="V")
Float1d	PSWA6 (description="PHOTFARRAY120", quantity="V")
Float1d	PSWG5 (description="PHOTFARRAY121", quantity="V")
Float1d	PSWH6 (description="PHOTFARRAY122", quantity="V")
Float1d	PSWJ6 (description="PHOTFARRAY123", quantity="V")
Float1d	PSWF6 (description="PHOTFARRAY124", quantity="V")
Float1d	PSWG6 (description="PHOTFARRAY125", quantity="V")
Float1d	PSWH7 (description="PHOTFARRAY126", quantity="V")
Float1d	PSWF7 (description="PHOTFARRAY127", quantity="V")
Float1d	PSWJ7 (description="PHOTFARRAY128", quantity="V")
Float1d	PSWG7 (description="PHOTFARRAY129", quantity="V")
Float1d	PSWH8 (description="PHOTFARRAY130", quantity="V")
Float1d	PSWF8 (description="PHOTFARRAY131", quantity="V")
Float1d	PSWG8 (description="PHOTFARRAY132", quantity="V")
Float1d	PSWJ8 (description="PHOTFARRAY133", quantity="V")
Float1d	PSWF9 (description="PHOTFARRAY134", quantity="V")
Float1d	PSWH9 (description="PHOTFARRAY135", quantity="V")
Float1d	PSWG9 (description="PHOTFARRAY136", quantity="V")
Float1d	PSWJ9 (description="PHOTFARRAY137", quantity="V")
Float1d	PSWF10 (description="PHOTFARRAY138", quantity="V")
Float1d	PSWH10 (description="PHOTFARRAY139", quantity="V")
Float1d	PSWG10 (description="PHOTFARRAY140", quantity="V")
Float1d	PSWF11 (description="PHOTFARRAY141", quantity="V")
Float1d	PSWJ10 (description="PHOTFARRAY142", quantity="V")
Float1d	PSWH11 (description="PHOTFARRAY143", quantity="V")
Float1d	PSWG11 (description="PHOTFARRAY144", quantity="V")
Float1d	PLWR1 (description="PHOTFARRAY145", quantity="V")
Float1d	PLWA8 (description="PHOTFARRAY146", quantity="V")
Float1d	PLWA7 (description="PHOTFARRAY147", quantity="V")
Float1d	PLWA6 (description="PHOTFARRAY148", quantity="V")
Float1d	PLWA9 (description="PHOTFARRAY149", quantity="V")
Float1d	PLWC9 (description="PHOTFARRAY150", quantity="V")
Float1d	PLWB8 (description="PHOTFARRAY151", quantity="V")
Float1d	PLWB7 (description="PHOTFARRAY152", quantity="V")
Float1d	PLWC7 (description="PHOTFARRAY153", quantity="V")
Float1d	PLWB5 (description="PHOTFARRAY154", quantity="V")
Float1d	PLWB6 (description="PHOTFARRAY155", quantity="V")
Float1d	PLWA5 (description="PHOTFARRAY156", quantity="V")
Float1d	PLWT1 (description="PHOTFARRAY157", quantity="V")
Float1d	PLWB4 (description="PHOTFARRAY158", quantity="V")
Float1d	PLWC4 (description="PHOTFARRAY159", quantity="V")
Float1d	PLWB3 (description="PHOTFARRAY160", quantity="V")

Float1d	PLWC2 (description="PHOTFARRAY161", quantity="V")
Float1d	PLWB2 (description="PHOTFARRAY162", quantity="V")
Float1d	PLWB1 (description="PHOTFARRAY163", quantity="V")
Float1d	PLWA3 (description="PHOTFARRAY164", quantity="V")
Float1d	PLWA4 (description="PHOTFARRAY165", quantity="V")
Float1d	PLWA1 (description="PHOTFARRAY166", quantity="V")
Float1d	PLWDP1 (description="PHOTFARRAY167", quantity="V")
Float1d	PLWA2 (description="PHOTFARRAY168", quantity="V")
Float1d	PLWE1 (description="PHOTFARRAY169", quantity="V")
Float1d	PLWE2 (description="PHOTFARRAY170", quantity="V")
Float1d	PLWE3 (description="PHOTFARRAY171", quantity="V")
Float1d	PLWE4 (description="PHOTFARRAY172", quantity="V")
Float1d	PLWD1 (description="PHOTFARRAY173", quantity="V")
Float1d	PLWD2 (description="PHOTFARRAY174", quantity="V")
Float1d	PLWD3 (description="PHOTFARRAY175", quantity="V")
Float1d	PLWD4 (description="PHOTFARRAY176", quantity="V")
Float1d	PLWC1 (description="PHOTFARRAY177", quantity="V")
Float1d	PLWC3 (description="PHOTFARRAY178", quantity="V")
Float1d	PLWC5 (description="PHOTFARRAY179", quantity="V")
Float1d	PLWT2 (description="PHOTFARRAY180", quantity="V")
Float1d	PLWE5 (description="PHOTFARRAY181", quantity="V")
Float1d	PLWC6 (description="PHOTFARRAY182", quantity="V")
Float1d	PLWC8 (description="PHOTFARRAY183", quantity="V")
Float1d	PLWD5 (description="PHOTFARRAY184", quantity="V")
Float1d	PLWD6 (description="PHOTFARRAY185", quantity="V")
Float1d	PLWD7 (description="PHOTFARRAY186", quantity="V")
Float1d	PLWD8 (description="PHOTFARRAY187", quantity="V")
Float1d	PLWE7 (description="PHOTFARRAY188", quantity="V")
Float1d	PLWE6 (description="PHOTFARRAY189", quantity="V")
Float1d	PLWE8 (description="PHOTFARRAY190", quantity="V")
Float1d	PLWDP2 (description="PHOTFARRAY191", quantity="V")
Float1d	PLWE9 (description="PHOTFARRAY192", quantity="V")
Float1d	PMWA13 (description="PHOTFARRAY193", quantity="V")
Float1d	PMWT1 (description="PHOTFARRAY194", quantity="V")
Float1d	PMWB12 (description="PHOTFARRAY195", quantity="V")
Float1d	PMWC13 (description="PHOTFARRAY196", quantity="V")
Float1d	PMWA12 (description="PHOTFARRAY197", quantity="V")
Float1d	PMWD12 (description="PHOTFARRAY198", quantity="V")
Float1d	PMWC12 (description="PHOTFARRAY199", quantity="V")
Float1d	PMWB11 (description="PHOTFARRAY200", quantity="V")
Float1d	PMWA11 (description="PHOTFARRAY201", quantity="V")
Float1d	PMWE13 (description="PHOTFARRAY202", quantity="V")

Float1d	PMWD11 (description="PHOTFARRAY203", quantity="V")
Float1d	PMWC11 (description="PHOTFARRAY204", quantity="V")
Float1d	PMWB10 (description="PHOTFARRAY205", quantity="V")
Float1d	PMWA10 (description="PHOTFARRAY206", quantity="V")
Float1d	PMWD10 (description="PHOTFARRAY207", quantity="V")
Float1d	PMWB9 (description="PHOTFARRAY208", quantity="V")
Float1d	PMWC10 (description="PHOTFARRAY209", quantity="V")
Float1d	PMWC9 (description="PHOTFARRAY210", quantity="V")
Float1d	PMWA9 (description="PHOTFARRAY211", quantity="V")
Float1d	PMWB8 (description="PHOTFARRAY212", quantity="V")
Float1d	PMWA8 (description="PHOTFARRAY213", quantity="V")
Float1d	PMWD8 (description="PHOTFARRAY214", quantity="V")
Float1d	PMWC8 (description="PHOTFARRAY215", quantity="V")
Float1d	PMWB7 (description="PHOTFARRAY216", quantity="V")
Float1d	PMWR1 (description="PHOTFARRAY217", quantity="V")
Float1d	PMWG1 (description="PHOTFARRAY218", quantity="V")
Float1d	PMWT2 (description="PHOTFARRAY219", quantity="V")
Float1d	PMWE1 (description="PHOTFARRAY220", quantity="V")
Float1d	PMWD1 (description="PHOTFARRAY221", quantity="V")
Float1d	PMWF1 (description="PHOTFARRAY222", quantity="V")
Float1d	PMWE2 (description="PHOTFARRAY223", quantity="V")
Float1d	PMWG2 (description="PHOTFARRAY224", quantity="V")
Float1d	PMWF2 (description="PHOTFARRAY225", quantity="V")
Float1d	PMWG3 (description="PHOTFARRAY226", quantity="V")
Float1d	PMWE3 (description="PHOTFARRAY227", quantity="V")
Float1d	PMWD3 (description="PHOTFARRAY228", quantity="V")
Float1d	PMWF3 (description="PHOTFARRAY229", quantity="V")
Float1d	PMWG4 (description="PHOTFARRAY230", quantity="V")
Float1d	PMWE4 (description="PHOTFARRAY231", quantity="V")
Float1d	PMWF4 (description="PHOTFARRAY232", quantity="V")
Float1d	PMWE5 (description="PHOTFARRAY233", quantity="V")
Float1d	PMWD5 (description="PHOTFARRAY234", quantity="V")
Float1d	PMWF5 (description="PHOTFARRAY235", quantity="V")
Float1d	PMWG5 (description="PHOTFARRAY236", quantity="V")
Float1d	PMWE6 (description="PHOTFARRAY237", quantity="V")
Float1d	PMWG6 (description="PHOTFARRAY238", quantity="V")
Float1d	PMWF6 (description="PHOTFARRAY239", quantity="V")
Float1d	PMWG7 (description="PHOTFARRAY240", quantity="V")
Float1d	PMWF10 (description="PHOTFARRAY241", quantity="V")
Float1d	PMWE11 (description="PHOTFARRAY242", quantity="V")
Float1d	PMWG11 (description="PHOTFARRAY243", quantity="V")
Float1d	PMWF11 (description="PHOTFARRAY244", quantity="V")

Float1d	PMWE12 (description="PHOTFARRAY245", quantity="V")
Float1d	PMWG12 (description="PHOTFARRAY246", quantity="V")
Float1d	PMWF12 (description="PHOTFARRAY247", quantity="V")
Float1d	PMWG13 (description="PHOTFARRAY248", quantity="V")
Float1d	PMWDP2 (description="PHOTFARRAY249", quantity="V")
Float1d	PMWE7 (description="PHOTFARRAY250", quantity="V")
Float1d	PMWD7 (description="PHOTFARRAY251", quantity="V")
Float1d	PMWF7 (description="PHOTFARRAY252", quantity="V")
Float1d	PMWE8 (description="PHOTFARRAY253", quantity="V")
Float1d	PMWG8 (description="PHOTFARRAY254", quantity="V")
Float1d	PMWF8 (description="PHOTFARRAY255", quantity="V")
Float1d	PMWE9 (description="PHOTFARRAY256", quantity="V")
Float1d	PMWG9 (description="PHOTFARRAY257", quantity="V")
Float1d	PMWD9 (description="PHOTFARRAY258", quantity="V")
Float1d	PMWF9 (description="PHOTFARRAY259", quantity="V")
Float1d	PMWE10 (description="PHOTFARRAY260", quantity="V")
Float1d	PMWG10 (description="PHOTFARRAY261", quantity="V")
Float1d	PMWC4 (description="PHOTFARRAY262", quantity="V")
Float1d	PMWB3 (description="PHOTFARRAY263", quantity="V")
Float1d	PMWC3 (description="PHOTFARRAY264", quantity="V")
Float1d	PMWB2 (description="PHOTFARRAY265", quantity="V")
Float1d	PMWD2 (description="PHOTFARRAY266", quantity="V")
Float1d	PMWA3 (description="PHOTFARRAY267", quantity="V")
Float1d	PMWA2 (description="PHOTFARRAY268", quantity="V")
Float1d	PMWC2 (description="PHOTFARRAY269", quantity="V")
Float1d	PMWB1 (description="PHOTFARRAY270", quantity="V")
Float1d	PMWA1 (description="PHOTFARRAY271", quantity="V")
Float1d	PMWDP1 (description="PHOTFARRAY272", quantity="V")
Float1d	PMWC1 (description="PHOTFARRAY273", quantity="V")
Float1d	PMWA7 (description="PHOTFARRAY274", quantity="V")
Float1d	PMWA6 (description="PHOTFARRAY275", quantity="V")
Float1d	PMWB6 (description="PHOTFARRAY276", quantity="V")
Float1d	PMWC7 (description="PHOTFARRAY277", quantity="V")
Float1d	PMWA5 (description="PHOTFARRAY278", quantity="V")
Float1d	PMWB5 (description="PHOTFARRAY279", quantity="V")
Float1d	PMWC6 (description="PHOTFARRAY280", quantity="V")
Float1d	PMWD6 (description="PHOTFARRAY281", quantity="V")
Float1d	PMWB4 (description="PHOTFARRAY282", quantity="V")
Float1d	PMWC5 (description="PHOTFARRAY283", quantity="V")
Float1d	PMWD4 (description="PHOTFARRAY284", quantity="V")
Float1d	PMWA4 (description="PHOTFARRAY285", quantity="V")
Float1d	PTCP1 (description="PHOTFARRAY286", quantity="V")

Float1d	PTCP2 (description="PHOTFARRAY287", quantity="V")
Float1d	PTCP3 (description="PHOTFARRAY288", quantity="V")
table dataset	*(description="Resistances table")*
Metadata	
Double1d	sampleTime (description="Sample time", quantity="TAI")
Float1d	PSWR1 (description="PHOTFARRAY001", quantity="?")
Float1d	PSWD16 (description="PHOTFARRAY002", quantity="?")
Float1d	PSWT1 (description="PHOTFARRAY003", quantity="?")
Float1d	PSWB16 (description="PHOTFARRAY004", quantity="?")
Float1d	PSWC15 (description="PHOTFARRAY005", quantity="?")
Float1d	PSWA15 (description="PHOTFARRAY006", quantity="?")
Float1d	PSWD15 (description="PHOTFARRAY007", quantity="?")
Float1d	PSWB15 (description="PHOTFARRAY008", quantity="?")
Float1d	PSWC14 (description="PHOTFARRAY009", quantity="?")
Float1d	PSWD14 (description="PHOTFARRAY010", quantity="?")
Float1d	PSWA14 (description="PHOTFARRAY011", quantity="?")
Float1d	PSWA13 (description="PHOTFARRAY012", quantity="?")
Float1d	PSWB14 (description="PHOTFARRAY013", quantity="?")
Float1d	PSWC13 (description="PHOTFARRAY014", quantity="?")
Float1d	PSWB13 (description="PHOTFARRAY015", quantity="?")
Float1d	PSWD13 (description="PHOTFARRAY016", quantity="?")
Float1d	PSWA12 (description="PHOTFARRAY017", quantity="?")
Float1d	PSWC12 (description="PHOTFARRAY018", quantity="?")
Float1d	PSWD12 (description="PHOTFARRAY019", quantity="?")
Float1d	PSWB12 (description="PHOTFARRAY020", quantity="?")
Float1d	PSWE11 (description="PHOTFARRAY021", quantity="?")
Float1d	PSWA11 (description="PHOTFARRAY022", quantity="?")
Float1d	PSWC11 (description="PHOTFARRAY023", quantity="?")
Float1d	PSWB11 (description="PHOTFARRAY024", quantity="?")
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Float1d	PSWF1 (description="PHOTFARRAY026", quantity="?")
Float1d	PSWT2 (description="PHOTFARRAY027", quantity="?")
Float1d	PSWH1 (description="PHOTFARRAY028", quantity="?")
Float1d	PSWG1 (description="PHOTFARRAY029", quantity="?")
Float1d	PSWJ1 (description="PHOTFARRAY030", quantity="?")
Float1d	PSWH2 (description="PHOTFARRAY031", quantity="?")
Float1d	PSWF2 (description="PHOTFARRAY032", quantity="?")
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Float1d	PSWG2 (description="PHOTFARRAY034", quantity="?")
Float1d	PSWH3 (description="PHOTFARRAY035", quantity="?")
Float1d	PSWJ3 (description="PHOTFARRAY036", quantity="?")

Float1d	PSWE2 (description="PHOTFARRAY037", quantity="?")
Float1d	PSWF3 (description="PHOTFARRAY038", quantity="?")
Float1d	PSWG3 (description="PHOTFARRAY039", quantity="?")
Float1d	PSWH4 (description="PHOTFARRAY040", quantity="?")
Float1d	PSWJ4 (description="PHOTFARRAY041", quantity="?")
Float1d	PSWE3 (description="PHOTFARRAY042", quantity="?")
Float1d	PSWF4 (description="PHOTFARRAY043", quantity="?")
Float1d	PSWG4 (description="PHOTFARRAY044", quantity="?")
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Float1d	PSWE4 (description="PHOTFARRAY046", quantity="?")
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Float1d	PSWG12 (description="PHOTFARRAY077", quantity="?")
Float1d	PSWF13 (description="PHOTFARRAY078", quantity="?")

Float1d	PSWE13 (description="PHOTFARRAY079", quantity="?")
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Float1d	PSWG13 (description="PHOTFARRAY082", quantity="?")
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Float1d	PSWJ13 (description="PHOTFARRAY085", quantity="?")
Float1d	PSWH14 (description="PHOTFARRAY086", quantity="?")
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Float1d	PSWJ14 (description="PHOTFARRAY088", quantity="?")
Float1d	PSWF15 (description="PHOTFARRAY089", quantity="?")
Float1d	PSWH15 (description="PHOTFARRAY090", quantity="?")
Float1d	PSWJ15 (description="PHOTFARRAY091", quantity="?")
Float1d	PSWG15 (description="PHOTFARRAY092", quantity="?")
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Float1d	PSWD10 (description="PHOTFARRAY102", quantity="?")
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Float1d	PSWE7 (description="PHOTFARRAY114", quantity="?")
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Float1d	PSWD7 (description="PHOTFARRAY116", quantity="?")
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Float1d	PSWE6 (description="PHOTFARRAY119", quantity="?")
Float1d	PSWA6 (description="PHOTFARRAY120", quantity="?")

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Float1d	PSWJ6 (description="PHOTFARRAY123", quantity="?")
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Float1d	PSWG6 (description="PHOTFARRAY125", quantity="?")
Float1d	PSWH7 (description="PHOTFARRAY126", quantity="?")
Float1d	PSWF7 (description="PHOTFARRAY127", quantity="?")
Float1d	PSWJ7 (description="PHOTFARRAY128", quantity="?")
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Float1d	PSWF9 (description="PHOTFARRAY134", quantity="?")
Float1d	PSWH9 (description="PHOTFARRAY135", quantity="?")
Float1d	PSWG9 (description="PHOTFARRAY136", quantity="?")
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Float1d	PSWF10 (description="PHOTFARRAY138", quantity="?")
Float1d	PSWH10 (description="PHOTFARRAY139", quantity="?")
Float1d	PSWG10 (description="PHOTFARRAY140", quantity="?")
Float1d	PSWF11 (description="PHOTFARRAY141", quantity="?")
Float1d	PSWJ10 (description="PHOTFARRAY142", quantity="?")
Float1d	PSWH11 (description="PHOTFARRAY143", quantity="?")
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Float1d	PLWB3 (description="PHOTFARRAY160", quantity="?")
Float1d	PLWC2 (description="PHOTFARRAY161", quantity="?")
Float1d	PLWB2 (description="PHOTFARRAY162", quantity="?")

Float1d	PLWB1 (description="PHOTFARRAY163", quantity="?")
Float1d	PLWA3 (description="PHOTFARRAY164", quantity="?")
Float1d	PLWA4 (description="PHOTFARRAY165", quantity="?")
Float1d	PLWA1 (description="PHOTFARRAY166", quantity="?")
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Float1d	PLWA2 (description="PHOTFARRAY168", quantity="?")
Float1d	PLWE1 (description="PHOTFARRAY169", quantity="?")
Float1d	PLWE2 (description="PHOTFARRAY170", quantity="?")
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Float1d	PMWC13 (description="PHOTFARRAY196", quantity="?")
Float1d	PMWA12 (description="PHOTFARRAY197", quantity="?")
Float1d	PMWD12 (description="PHOTFARRAY198", quantity="?")
Float1d	PMWC12 (description="PHOTFARRAY199", quantity="?")
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Float1d	PMWE13 (description="PHOTFARRAY202", quantity="?")
Float1d	PMWD11 (description="PHOTFARRAY203", quantity="?")
Float1d	PMWC11 (description="PHOTFARRAY204", quantity="?")

Float1d	PMWB10 (description="PHOTFARRAY205", quantity="?")
Float1d	PMWA10 (description="PHOTFARRAY206", quantity="?")
Float1d	PMWD10 (description="PHOTFARRAY207", quantity="?")
Float1d	PMWB9 (description="PHOTFARRAY208", quantity="?")
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Float1d	PMWC9 (description="PHOTFARRAY210", quantity="?")
Float1d	PMWA9 (description="PHOTFARRAY211", quantity="?")
Float1d	PMWB8 (description="PHOTFARRAY212", quantity="?")
Float1d	PMWA8 (description="PHOTFARRAY213", quantity="?")
Float1d	PMWD8 (description="PHOTFARRAY214", quantity="?")
Float1d	PMWC8 (description="PHOTFARRAY215", quantity="?")
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Float1d	PMWR1 (description="PHOTFARRAY217", quantity="?")
Float1d	PMWG1 (description="PHOTFARRAY218", quantity="?")
Float1d	PMWT2 (description="PHOTFARRAY219", quantity="?")
Float1d	PMWE1 (description="PHOTFARRAY220", quantity="?")
Float1d	PMWD1 (description="PHOTFARRAY221", quantity="?")
Float1d	PMWF1 (description="PHOTFARRAY222", quantity="?")
Float1d	PMWE2 (description="PHOTFARRAY223", quantity="?")
Float1d	PMWG2 (description="PHOTFARRAY224", quantity="?")
Float1d	PMWF2 (description="PHOTFARRAY225", quantity="?")
Float1d	PMWG3 (description="PHOTFARRAY226", quantity="?")
Float1d	PMWE3 (description="PHOTFARRAY227", quantity="?")
Float1d	PMWD3 (description="PHOTFARRAY228", quantity="?")
Float1d	PMWF3 (description="PHOTFARRAY229", quantity="?")
Float1d	PMWG4 (description="PHOTFARRAY230", quantity="?")
Float1d	PMWE4 (description="PHOTFARRAY231", quantity="?")
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Float1d	PMWD5 (description="PHOTFARRAY234", quantity="?")
Float1d	PMWF5 (description="PHOTFARRAY235", quantity="?")
Float1d	PMWG5 (description="PHOTFARRAY236", quantity="?")
Float1d	PMWE6 (description="PHOTFARRAY237", quantity="?")
Float1d	PMWG6 (description="PHOTFARRAY238", quantity="?")
Float1d	PMWF6 (description="PHOTFARRAY239", quantity="?")
Float1d	PMWG7 (description="PHOTFARRAY240", quantity="?")
Float1d	PMWF10 (description="PHOTFARRAY241", quantity="?")
Float1d	PMWE11 (description="PHOTFARRAY242", quantity="?")
Float1d	PMWG11 (description="PHOTFARRAY243", quantity="?")
Float1d	PMWF11 (description="PHOTFARRAY244", quantity="?")
Float1d	PMWE12 (description="PHOTFARRAY245", quantity="?")
Float1d	PMWG12 (description="PHOTFARRAY246", quantity="?")

Float1d	PMWF12 (description="PHOTFARRAY247", quantity="?")
Float1d	PMWG13 (description="PHOTFARRAY248", quantity="?")
Float1d	PMWDP2 (description="PHOTFARRAY249", quantity="?")
Float1d	PMWE7 (description="PHOTFARRAY250", quantity="?")
Float1d	PMWD7 (description="PHOTFARRAY251", quantity="?")
Float1d	PMWF7 (description="PHOTFARRAY252", quantity="?")
Float1d	PMWE8 (description="PHOTFARRAY253", quantity="?")
Float1d	PMWG8 (description="PHOTFARRAY254", quantity="?")
Float1d	PMWF8 (description="PHOTFARRAY255", quantity="?")
Float1d	PMWE9 (description="PHOTFARRAY256", quantity="?")
Float1d	PMWG9 (description="PHOTFARRAY257", quantity="?")
Float1d	PMWD9 (description="PHOTFARRAY258", quantity="?")
Float1d	PMWF9 (description="PHOTFARRAY259", quantity="?")
Float1d	PMWE10 (description="PHOTFARRAY260", quantity="?")
Float1d	PMWG10 (description="PHOTFARRAY261", quantity="?")
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Float1d	PMWB2 (description="PHOTFARRAY265", quantity="?")
Float1d	PMWD2 (description="PHOTFARRAY266", quantity="?")
Float1d	PMWA3 (description="PHOTFARRAY267", quantity="?")
Float1d	PMWA2 (description="PHOTFARRAY268", quantity="?")
Float1d	PMWC2 (description="PHOTFARRAY269", quantity="?")
Float1d	PMWB1 (description="PHOTFARRAY270", quantity="?")
Float1d	PMWA1 (description="PHOTFARRAY271", quantity="?")
Float1d	PMWDP1 (description="PHOTFARRAY272", quantity="?")
Float1d	PMWC1 (description="PHOTFARRAY273", quantity="?")
Float1d	PMWA7 (description="PHOTFARRAY274", quantity="?")
Float1d	PMWA6 (description="PHOTFARRAY275", quantity="?")
Float1d	PMWB6 (description="PHOTFARRAY276", quantity="?")
Float1d	PMWC7 (description="PHOTFARRAY277", quantity="?")
Float1d	PMWA5 (description="PHOTFARRAY278", quantity="?")
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Float1d	PMWC6 (description="PHOTFARRAY280", quantity="?")
Float1d	PMWD6 (description="PHOTFARRAY281", quantity="?")
Float1d	PMWB4 (description="PHOTFARRAY282", quantity="?")
Float1d	PMWC5 (description="PHOTFARRAY283", quantity="?")
Float1d	PMWD4 (description="PHOTFARRAY284", quantity="?")
Float1d	PMWA4 (description="PHOTFARRAY285", quantity="?")
Float1d	PTCP1 (description="PHOTFARRAY286", quantity="?")
Float1d	PTCP2 (description="PHOTFARRAY287", quantity="?")
Float1d	PTCP3 (description="PHOTFARRAY288", quantity="?")

table dataset	*(description="Mask timelines")*
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Double1d	sampleTime (description="Sample time", quantity="TAI")
Int1d	PSWR1 (description="PHOTFARRAY001", quantity="")
Int1d	PSWD16 (description="PHOTFARRAY002", quantity="")
Int1d	PSWT1 (description="PHOTFARRAY003", quantity="")
Int1d	PSWB16 (description="PHOTFARRAY004", quantity="")
Int1d	PSWC15 (description="PHOTFARRAY005", quantity="")
Int1d	PSWA15 (description="PHOTFARRAY006", quantity="")
Int1d	PSWD15 (description="PHOTFARRAY007", quantity="")
Int1d	PSWB15 (description="PHOTFARRAY008", quantity="")
Int1d	PSWC14 (description="PHOTFARRAY009", quantity="")
Int1d	PSWD14 (description="PHOTFARRAY010", quantity="")
Int1d	PSWA14 (description="PHOTFARRAY011", quantity="")
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Int1d	PSWB13 (description="PHOTFARRAY015", quantity="")
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Int1d	PSWG1 (description="PHOTFARRAY029", quantity="")
Int1d	PSWJ1 (description="PHOTFARRAY030", quantity="")
Int1d	PSWH2 (description="PHOTFARRAY031", quantity="")
Int1d	PSWF2 (description="PHOTFARRAY032", quantity="")
Int1d	PSWJ2 (description="PHOTFARRAY033", quantity="")
Int1d	PSWG2 (description="PHOTFARRAY034", quantity="")
Int1d	PSWH3 (description="PHOTFARRAY035", quantity="")
Int1d	PSWJ3 (description="PHOTFARRAY036", quantity="")
Int1d	PSWE2 (description="PHOTFARRAY037", quantity="")
Int1d	PSWF3 (description="PHOTFARRAY038", quantity="")

Int1d	PSWG3 (description="PHOTFARRAY039", quantity="")
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Int1d	PSWJ4 (description="PHOTFARRAY041", quantity="")
Int1d	PSWE3 (description="PHOTFARRAY042", quantity="")
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Int1d	PSWH5 (description="PHOTFARRAY045", quantity="")
Int1d	PSWE4 (description="PHOTFARRAY046", quantity="")
Int1d	PSWJ5 (description="PHOTFARRAY047", quantity="")
Int1d	PSWF5 (description="PHOTFARRAY048", quantity="")
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Int1d	PSWA2 (description="PHOTFARRAY063", quantity="")
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Int1d	PSWG12 (description="PHOTFARRAY077", quantity="")
Int1d	PSWF13 (description="PHOTFARRAY078", quantity="")
Int1d	PSWE13 (description="PHOTFARRAY079", quantity="")
Int1d	PSWJ12 (description="PHOTFARRAY080", quantity="")

Int1d	PSWH13 (description="PHOTFARRAY081", quantity="")
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Int1d	PSWH14 (description="PHOTFARRAY086", quantity="")
Int1d	PSWG14 (description="PHOTFARRAY087", quantity="")
Int1d	PSWJ14 (description="PHOTFARRAY088", quantity="")
Int1d	PSWF15 (description="PHOTFARRAY089", quantity="")
Int1d	PSWH15 (description="PHOTFARRAY090", quantity="")
Int1d	PSWJ15 (description="PHOTFARRAY091", quantity="")
Int1d	PSWG15 (description="PHOTFARRAY092", quantity="")
Int1d	PSWH16 (description="PHOTFARRAY093", quantity="")
Int1d	PSWDP2 (description="PHOTFARRAY094", quantity="")
Int1d	PSWF16 (description="PHOTFARRAY095", quantity="")
Int1d	PSWE15 (description="PHOTFARRAY096", quantity="")
Int1d	PSWD11 (description="PHOTFARRAY097", quantity="")
Int1d	PSWA10 (description="PHOTFARRAY098", quantity="")
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Int1d	PSWB10 (description="PHOTFARRAY101", quantity="")
Int1d	PSWD10 (description="PHOTFARRAY102", quantity="")
Int1d	PSWA9 (description="PHOTFARRAY103", quantity="")
Int1d	PSWE9 (description="PHOTFARRAY104", quantity="")
Int1d	PSWC9 (description="PHOTFARRAY105", quantity="")
Int1d	PSWB9 (description="PHOTFARRAY106", quantity="")
Int1d	PSWD9 (description="PHOTFARRAY107", quantity="")
Int1d	PSWA8 (description="PHOTFARRAY108", quantity="")
Int1d	PSWC8 (description="PHOTFARRAY109", quantity="")
Int1d	PSWE8 (description="PHOTFARRAY110", quantity="")
Int1d	PSWD8 (description="PHOTFARRAY111", quantity="")
Int1d	PSWB8 (description="PHOTFARRAY112", quantity="")
Int1d	PSWC7 (description="PHOTFARRAY113", quantity="")
Int1d	PSWE7 (description="PHOTFARRAY114", quantity="")
Int1d	PSWA7 (description="PHOTFARRAY115", quantity="")
Int1d	PSWD7 (description="PHOTFARRAY116", quantity="")
Int1d	PSWB7 (description="PHOTFARRAY117", quantity="")
Int1d	PSWC6 (description="PHOTFARRAY118", quantity="")
Int1d	PSWE6 (description="PHOTFARRAY119", quantity="")
Int1d	PSWA6 (description="PHOTFARRAY120", quantity="")
Int1d	PSWG5 (description="PHOTFARRAY121", quantity="")
Int1d	PSWH6 (description="PHOTFARRAY122", quantity="")

Int1d	PSWJ6 (description="PHOTFARRAY123", quantity="")
Int1d	PSWF6 (description="PHOTFARRAY124", quantity="")
Int1d	PSWG6 (description="PHOTFARRAY125", quantity="")
Int1d	PSWH7 (description="PHOTFARRAY126", quantity="")
Int1d	PSWF7 (description="PHOTFARRAY127", quantity="")
Int1d	PSWJ7 (description="PHOTFARRAY128", quantity="")
Int1d	PSWG7 (description="PHOTFARRAY129", quantity="")
Int1d	PSWH8 (description="PHOTFARRAY130", quantity="")
Int1d	PSWF8 (description="PHOTFARRAY131", quantity="")
Int1d	PSWG8 (description="PHOTFARRAY132", quantity="")
Int1d	PSWJ8 (description="PHOTFARRAY133", quantity="")
Int1d	PSWF9 (description="PHOTFARRAY134", quantity="")
Int1d	PSWH9 (description="PHOTFARRAY135", quantity="")
Int1d	PSWG9 (description="PHOTFARRAY136", quantity="")
Int1d	PSWJ9 (description="PHOTFARRAY137", quantity="")
Int1d	PSWF10 (description="PHOTFARRAY138", quantity="")
Int1d	PSWH10 (description="PHOTFARRAY139", quantity="")
Int1d	PSWG10 (description="PHOTFARRAY140", quantity="")
Int1d	PSWF11 (description="PHOTFARRAY141", quantity="")
Int1d	PSWJ10 (description="PHOTFARRAY142", quantity="")
Int1d	PSWH11 (description="PHOTFARRAY143", quantity="")
Int1d	PSWG11 (description="PHOTFARRAY144", quantity="")
Int1d	PLWR1 (description="PHOTFARRAY145", quantity="")
Int1d	PLWA8 (description="PHOTFARRAY146", quantity="")
Int1d	PLWA7 (description="PHOTFARRAY147", quantity="")
Int1d	PLWA6 (description="PHOTFARRAY148", quantity="")
Int1d	PLWA9 (description="PHOTFARRAY149", quantity="")
Int1d	PLWC9 (description="PHOTFARRAY150", quantity="")
Int1d	PLWB8 (description="PHOTFARRAY151", quantity="")
Int1d	PLWB7 (description="PHOTFARRAY152", quantity="")
Int1d	PLWC7 (description="PHOTFARRAY153", quantity="")
Int1d	PLWB5 (description="PHOTFARRAY154", quantity="")
Int1d	PLWB6 (description="PHOTFARRAY155", quantity="")
Int1d	PLWA5 (description="PHOTFARRAY156", quantity="")
Int1d	PLWT1 (description="PHOTFARRAY157", quantity="")
Int1d	PLWB4 (description="PHOTFARRAY158", quantity="")
Int1d	PLWC4 (description="PHOTFARRAY159", quantity="")
Int1d	PLWB3 (description="PHOTFARRAY160", quantity="")
Int1d	PLWC2 (description="PHOTFARRAY161", quantity="")
Int1d	PLWB2 (description="PHOTFARRAY162", quantity="")
Int1d	PLWB1 (description="PHOTFARRAY163", quantity="")
Int1d	PLWA3 (description="PHOTFARRAY164", quantity="")

Int1d	PLWA4 (description="PHOTFARRAY165", quantity="")
Int1d	PLWA1 (description="PHOTFARRAY166", quantity="")
Int1d	PLWDP1 (description="PHOTFARRAY167", quantity="")
Int1d	PLWA2 (description="PHOTFARRAY168", quantity="")
Int1d	PLWE1 (description="PHOTFARRAY169", quantity="")
Int1d	PLWE2 (description="PHOTFARRAY170", quantity="")
Int1d	PLWE3 (description="PHOTFARRAY171", quantity="")
Int1d	PLWE4 (description="PHOTFARRAY172", quantity="")
Int1d	PLWD1 (description="PHOTFARRAY173", quantity="")
Int1d	PLWD2 (description="PHOTFARRAY174", quantity="")
Int1d	PLWD3 (description="PHOTFARRAY175", quantity="")
Int1d	PLWD4 (description="PHOTFARRAY176", quantity="")
Int1d	PLWC1 (description="PHOTFARRAY177", quantity="")
Int1d	PLWC3 (description="PHOTFARRAY178", quantity="")
Int1d	PLWC5 (description="PHOTFARRAY179", quantity="")
Int1d	PLWT2 (description="PHOTFARRAY180", quantity="")
Int1d	PLWE5 (description="PHOTFARRAY181", quantity="")
Int1d	PLWC6 (description="PHOTFARRAY182", quantity="")
Int1d	PLWC8 (description="PHOTFARRAY183", quantity="")
Int1d	PLWD5 (description="PHOTFARRAY184", quantity="")
Int1d	PLWD6 (description="PHOTFARRAY185", quantity="")
Int1d	PLWD7 (description="PHOTFARRAY186", quantity="")
Int1d	PLWD8 (description="PHOTFARRAY187", quantity="")
Int1d	PLWE7 (description="PHOTFARRAY188", quantity="")
Int1d	PLWE6 (description="PHOTFARRAY189", quantity="")
Int1d	PLWE8 (description="PHOTFARRAY190", quantity="")
Int1d	PLWDP2 (description="PHOTFARRAY191", quantity="")
Int1d	PLWE9 (description="PHOTFARRAY192", quantity="")
Int1d	PMWA13 (description="PHOTFARRAY193", quantity="")
Int1d	PMWT1 (description="PHOTFARRAY194", quantity="")
Int1d	PMWB12 (description="PHOTFARRAY195", quantity="")
Int1d	PMWC13 (description="PHOTFARRAY196", quantity="")
Int1d	PMWA12 (description="PHOTFARRAY197", quantity="")
Int1d	PMWD12 (description="PHOTFARRAY198", quantity="")
Int1d	PMWC12 (description="PHOTFARRAY199", quantity="")
Int1d	PMWB11 (description="PHOTFARRAY200", quantity="")
Int1d	PMWA11 (description="PHOTFARRAY201", quantity="")
Int1d	PMWE13 (description="PHOTFARRAY202", quantity="")
Int1d	PMWD11 (description="PHOTFARRAY203", quantity="")
Int1d	PMWC11 (description="PHOTFARRAY204", quantity="")
Int1d	PMWB10 (description="PHOTFARRAY205", quantity="")
Int1d	PMWA10 (description="PHOTFARRAY206", quantity="")

Int1d	PMWD10 (description="PHOTFARRAY207", quantity="")
Int1d	PMWB9 (description="PHOTFARRAY208", quantity="")
Int1d	PMWC10 (description="PHOTFARRAY209", quantity="")
Int1d	PMWC9 (description="PHOTFARRAY210", quantity="")
Int1d	PMWA9 (description="PHOTFARRAY211", quantity="")
Int1d	PMWB8 (description="PHOTFARRAY212", quantity="")
Int1d	PMWA8 (description="PHOTFARRAY213", quantity="")
Int1d	PMWD8 (description="PHOTFARRAY214", quantity="")
Int1d	PMWC8 (description="PHOTFARRAY215", quantity="")
Int1d	PMWB7 (description="PHOTFARRAY216", quantity="")
Int1d	PMWR1 (description="PHOTFARRAY217", quantity="")
Int1d	PMWG1 (description="PHOTFARRAY218", quantity="")
Int1d	PMWT2 (description="PHOTFARRAY219", quantity="")
Int1d	PMWE1 (description="PHOTFARRAY220", quantity="")
Int1d	PMWD1 (description="PHOTFARRAY221", quantity="")
Int1d	PMWF1 (description="PHOTFARRAY222", quantity="")
Int1d	PMWE2 (description="PHOTFARRAY223", quantity="")
Int1d	PMWG2 (description="PHOTFARRAY224", quantity="")
Int1d	PMWF2 (description="PHOTFARRAY225", quantity="")
Int1d	PMWG3 (description="PHOTFARRAY226", quantity="")
Int1d	PMWE3 (description="PHOTFARRAY227", quantity="")
Int1d	PMWD3 (description="PHOTFARRAY228", quantity="")
Int1d	PMWF3 (description="PHOTFARRAY229", quantity="")
Int1d	PMWG4 (description="PHOTFARRAY230", quantity="")
Int1d	PMWE4 (description="PHOTFARRAY231", quantity="")
Int1d	PMWF4 (description="PHOTFARRAY232", quantity="")
Int1d	PMWE5 (description="PHOTFARRAY233", quantity="")
Int1d	PMWD5 (description="PHOTFARRAY234", quantity="")
Int1d	PMWF5 (description="PHOTFARRAY235", quantity="")
Int1d	PMWG5 (description="PHOTFARRAY236", quantity="")
Int1d	PMWE6 (description="PHOTFARRAY237", quantity="")
Int1d	PMWG6 (description="PHOTFARRAY238", quantity="")
Int1d	PMWF6 (description="PHOTFARRAY239", quantity="")
Int1d	PMWG7 (description="PHOTFARRAY240", quantity="")
Int1d	PMWF10 (description="PHOTFARRAY241", quantity="")
Int1d	PMWE11 (description="PHOTFARRAY242", quantity="")
Int1d	PMWG11 (description="PHOTFARRAY243", quantity="")
Int1d	PMWF11 (description="PHOTFARRAY244", quantity="")
Int1d	PMWE12 (description="PHOTFARRAY245", quantity="")
Int1d	PMWG12 (description="PHOTFARRAY246", quantity="")
Int1d	PMWF12 (description="PHOTFARRAY247", quantity="")
Int1d	PMWG13 (description="PHOTFARRAY248", quantity="")

Int1d	PMWDP2 (description="PHOTFARRAY249", quantity="")
Int1d	PMWE7 (description="PHOTFARRAY250", quantity="")
Int1d	PMWD7 (description="PHOTFARRAY251", quantity="")
Int1d	PMWF7 (description="PHOTFARRAY252", quantity="")
Int1d	PMWE8 (description="PHOTFARRAY253", quantity="")
Int1d	PMWG8 (description="PHOTFARRAY254", quantity="")
Int1d	PMWF8 (description="PHOTFARRAY255", quantity="")
Int1d	PMWE9 (description="PHOTFARRAY256", quantity="")
Int1d	PMWG9 (description="PHOTFARRAY257", quantity="")
Int1d	PMWD9 (description="PHOTFARRAY258", quantity="")
Int1d	PMWF9 (description="PHOTFARRAY259", quantity="")
Int1d	PMWE10 (description="PHOTFARRAY260", quantity="")
Int1d	PMWG10 (description="PHOTFARRAY261", quantity="")
Int1d	PMWC4 (description="PHOTFARRAY262", quantity="")
Int1d	PMWB3 (description="PHOTFARRAY263", quantity="")
Int1d	PMWC3 (description="PHOTFARRAY264", quantity="")
Int1d	PMWB2 (description="PHOTFARRAY265", quantity="")
Int1d	PMWD2 (description="PHOTFARRAY266", quantity="")
Int1d	PMWA3 (description="PHOTFARRAY267", quantity="")
Int1d	PMWA2 (description="PHOTFARRAY268", quantity="")
Int1d	PMWC2 (description="PHOTFARRAY269", quantity="")
Int1d	PMWB1 (description="PHOTFARRAY270", quantity="")
Int1d	PMWA1 (description="PHOTFARRAY271", quantity="")
Int1d	PMWDP1 (description="PHOTFARRAY272", quantity="")
Int1d	PMWC1 (description="PHOTFARRAY273", quantity="")
Int1d	PMWA7 (description="PHOTFARRAY274", quantity="")
Int1d	PMWA6 (description="PHOTFARRAY275", quantity="")
Int1d	PMWB6 (description="PHOTFARRAY276", quantity="")
Int1d	PMWC7 (description="PHOTFARRAY277", quantity="")
Int1d	PMWA5 (description="PHOTFARRAY278", quantity="")
Int1d	PMWB5 (description="PHOTFARRAY279", quantity="")
Int1d	PMWC6 (description="PHOTFARRAY280", quantity="")
Int1d	PMWD6 (description="PHOTFARRAY281", quantity="")
Int1d	PMWB4 (description="PHOTFARRAY282", quantity="")
Int1d	PMWC5 (description="PHOTFARRAY283", quantity="")
Int1d	PMWD4 (description="PHOTFARRAY284", quantity="")
Int1d	PMWA4 (description="PHOTFARRAY285", quantity="")
Int1d	PTCP1 (description="PHOTFARRAY286", quantity="")
Int1d	PTCP2 (description="PHOTFARRAY287", quantity="")
Int1d	PTCP3 (description="PHOTFARRAY288", quantity="")
table dataset	*(description="Quality control metric quantities")*

Metadata	
String1d	channelName (description="Channel name", quantity="")
Float1d	adcErrors (description="Fraction of ADC errors", quantity="")
Float1d	truncation (description="Fraction of out of range values", quantity="")
table dataset	*(description="Temperature")*
Metadata	
Double1d	sampleTime (description="Sample time", quantity="TAI")
Float1d	PSWT1 (description="Thermistor temperature", quantity="K")
Float1d	PSWT2 (description="Thermistor temperature", quantity="K")
Float1d	PLWT1 (description="Thermistor temperature", quantity="K")
Float1d	PLWT2 (description="Thermistor temperature", quantity="K")
Float1d	PMWT1 (description="Thermistor temperature", quantity="K")
Float1d	PMWT2 (description="Thermistor temperature", quantity="K")

11.2.2. POT: Photometer Offset Timeline

product (type="POT", description="Photometer Offset Timeline")	
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	formatVersion (description="Version of product format")
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="Observation identifier")
StringParameter	obsMode (description="Observation mode name")
LongParameter	odNumber (description="Operational day number")

StringParameter	origin (description="Site that created the product")
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")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times")
LongParameter	maskMaster (description="Mask value for master bit")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time")
StringParameter	level (description="The level of the product")
table dataset	*(description="Signal timelines")*
Metadata	
Double1d	sampleTime (description="Sample time", quantity="TAI")
Int1d	PSWR1 (description="PHOTOFF001", quantity="")
Int1d	PSWD16 (description="PHOTOFF002", quantity="")
Int1d	PSWT1 (description="PHOTOFF003", quantity="")
Int1d	PSWB16 (description="PHOTOFF004", quantity="")
Int1d	PSWC15 (description="PHOTOFF005", quantity="")
Int1d	PSWA15 (description="PHOTOFF006", quantity="")
Int1d	PSWD15 (description="PHOTOFF007", quantity="")
Int1d	PSWB15 (description="PHOTOFF008", quantity="")
Int1d	PSWC14 (description="PHOTOFF009", quantity="")
Int1d	PSWD14 (description="PHOTOFF010", quantity="")
Int1d	PSWA14 (description="PHOTOFF011", quantity="")
Int1d	PSWA13 (description="PHOTOFF012", quantity="")
Int1d	PSWB14 (description="PHOTOFF013", quantity="")
Int1d	PSWC13 (description="PHOTOFF014", quantity="")
Int1d	PSWB13 (description="PHOTOFF015", quantity="")
Int1d	PSWD13 (description="PHOTOFF016", quantity="")
Int1d	PSWA12 (description="PHOTOFF017", quantity="")
Int1d	PSWC12 (description="PHOTOFF018", quantity="")
Int1d	PSWD12 (description="PHOTOFF019", quantity="")
Int1d	PSWB12 (description="PHOTOFF020", quantity="")
Int1d	PSWE11 (description="PHOTOFF021", quantity="")

Int1d	PSWA11 (description="PHOTOFF022", quantity="")
Int1d	PSWC11 (description="PHOTOFF023", quantity="")
Int1d	PSWB11 (description="PHOTOFF024", quantity="")
Int1d	PSWE1 (description="PHOTOFF025", quantity="")
Int1d	PSWF1 (description="PHOTOFF026", quantity="")
Int1d	PSWT2 (description="PHOTOFF027", quantity="")
Int1d	PSWH1 (description="PHOTOFF028", quantity="")
Int1d	PSWG1 (description="PHOTOFF029", quantity="")
Int1d	PSWJ1 (description="PHOTOFF030", quantity="")
Int1d	PSWH2 (description="PHOTOFF031", quantity="")
Int1d	PSWF2 (description="PHOTOFF032", quantity="")
Int1d	PSWJ2 (description="PHOTOFF033", quantity="")
Int1d	PSWG2 (description="PHOTOFF034", quantity="")
Int1d	PSWH3 (description="PHOTOFF035", quantity="")
Int1d	PSWJ3 (description="PHOTOFF036", quantity="")
Int1d	PSWE2 (description="PHOTOFF037", quantity="")
Int1d	PSWF3 (description="PHOTOFF038", quantity="")
Int1d	PSWG3 (description="PHOTOFF039", quantity="")
Int1d	PSWH4 (description="PHOTOFF040", quantity="")
Int1d	PSWJ4 (description="PHOTOFF041", quantity="")
Int1d	PSWE3 (description="PHOTOFF042", quantity="")
Int1d	PSWF4 (description="PHOTOFF043", quantity="")
Int1d	PSWG4 (description="PHOTOFF044", quantity="")
Int1d	PSWH5 (description="PHOTOFF045", quantity="")
Int1d	PSWE4 (description="PHOTOFF046", quantity="")
Int1d	PSWJ5 (description="PHOTOFF047", quantity="")
Int1d	PSWF5 (description="PHOTOFF048", quantity="")
Int1d	PSWD6 (description="PHOTOFF049", quantity="")
Int1d	PSWB6 (description="PHOTOFF050", quantity="")
Int1d	PSWC5 (description="PHOTOFF051", quantity="")
Int1d	PSWA5 (description="PHOTOFF052", quantity="")
Int1d	PSWE5 (description="PHOTOFF053", quantity="")
Int1d	PSWB5 (description="PHOTOFF054", quantity="")
Int1d	PSWD5 (description="PHOTOFF055", quantity="")
Int1d	PSWC4 (description="PHOTOFF056", quantity="")
Int1d	PSWA4 (description="PHOTOFF057", quantity="")
Int1d	PSWD4 (description="PHOTOFF058", quantity="")
Int1d	PSWB4 (description="PHOTOFF059", quantity="")
Int1d	PSWC3 (description="PHOTOFF060", quantity="")
Int1d	PSWB3 (description="PHOTOFF061", quantity="")
Int1d	PSWA3 (description="PHOTOFF062", quantity="")
Int1d	PSWA2 (description="PHOTOFF063", quantity="")

Int1d	PSWD3 (description="PHOTOFF064", quantity="")
Int1d	PSWC2 (description="PHOTOFF065", quantity="")
Int1d	PSWB2 (description="PHOTOFF066", quantity="")
Int1d	PSWD2 (description="PHOTOFF067", quantity="")
Int1d	PSWA1 (description="PHOTOFF068", quantity="")
Int1d	PSWC1 (description="PHOTOFF069", quantity="")
Int1d	PSWB1 (description="PHOTOFF070", quantity="")
Int1d	PSWDP1 (description="PHOTOFF071", quantity="")
Int1d	PSWD1 (description="PHOTOFF072", quantity="")
Int1d	PSWF12 (description="PHOTOFF073", quantity="")
Int1d	PSWJ11 (description="PHOTOFF074", quantity="")
Int1d	PSWE12 (description="PHOTOFF075", quantity="")
Int1d	PSWH12 (description="PHOTOFF076", quantity="")
Int1d	PSWG12 (description="PHOTOFF077", quantity="")
Int1d	PSWF13 (description="PHOTOFF078", quantity="")
Int1d	PSWE13 (description="PHOTOFF079", quantity="")
Int1d	PSWJ12 (description="PHOTOFF080", quantity="")
Int1d	PSWH13 (description="PHOTOFF081", quantity="")
Int1d	PSWG13 (description="PHOTOFF082", quantity="")
Int1d	PSWF14 (description="PHOTOFF083", quantity="")
Int1d	PSWE14 (description="PHOTOFF084", quantity="")
Int1d	PSWJ13 (description="PHOTOFF085", quantity="")
Int1d	PSWH14 (description="PHOTOFF086", quantity="")
Int1d	PSWG14 (description="PHOTOFF087", quantity="")
Int1d	PSWJ14 (description="PHOTOFF088", quantity="")
Int1d	PSWF15 (description="PHOTOFF089", quantity="")
Int1d	PSWH15 (description="PHOTOFF090", quantity="")
Int1d	PSWJ15 (description="PHOTOFF091", quantity="")
Int1d	PSWG15 (description="PHOTOFF092", quantity="")
Int1d	PSWH16 (description="PHOTOFF093", quantity="")
Int1d	PSWDP2 (description="PHOTOFF094", quantity="")
Int1d	PSWF16 (description="PHOTOFF095", quantity="")
Int1d	PSWE15 (description="PHOTOFF096", quantity="")
Int1d	PSWD11 (description="PHOTOFF097", quantity="")
Int1d	PSWA10 (description="PHOTOFF098", quantity="")
Int1d	PSWE10 (description="PHOTOFF099", quantity="")
Int1d	PSWC10 (description="PHOTOFF100", quantity="")
Int1d	PSWB10 (description="PHOTOFF101", quantity="")
Int1d	PSWD10 (description="PHOTOFF102", quantity="")
Int1d	PSWA9 (description="PHOTOFF103", quantity="")
Int1d	PSWE9 (description="PHOTOFF104", quantity="")
Int1d	PSWC9 (description="PHOTOFF105", quantity="")

Int1d	PSWB9 (description="PHOTOFF106", quantity="")
Int1d	PSWD9 (description="PHOTOFF107", quantity="")
Int1d	PSWA8 (description="PHOTOFF108", quantity="")
Int1d	PSWC8 (description="PHOTOFF109", quantity="")
Int1d	PSWE8 (description="PHOTOFF110", quantity="")
Int1d	PSWD8 (description="PHOTOFF111", quantity="")
Int1d	PSWB8 (description="PHOTOFF112", quantity="")
Int1d	PSWC7 (description="PHOTOFF113", quantity="")
Int1d	PSWE7 (description="PHOTOFF114", quantity="")
Int1d	PSWA7 (description="PHOTOFF115", quantity="")
Int1d	PSWD7 (description="PHOTOFF116", quantity="")
Int1d	PSWB7 (description="PHOTOFF117", quantity="")
Int1d	PSWC6 (description="PHOTOFF118", quantity="")
Int1d	PSWE6 (description="PHOTOFF119", quantity="")
Int1d	PSWA6 (description="PHOTOFF120", quantity="")
Int1d	PSWG5 (description="PHOTOFF121", quantity="")
Int1d	PSWH6 (description="PHOTOFF122", quantity="")
Int1d	PSWJ6 (description="PHOTOFF123", quantity="")
Int1d	PSWF6 (description="PHOTOFF124", quantity="")
Int1d	PSWG6 (description="PHOTOFF125", quantity="")
Int1d	PSWH7 (description="PHOTOFF126", quantity="")
Int1d	PSWF7 (description="PHOTOFF127", quantity="")
Int1d	PSWJ7 (description="PHOTOFF128", quantity="")
Int1d	PSWG7 (description="PHOTOFF129", quantity="")
Int1d	PSWH8 (description="PHOTOFF130", quantity="")
Int1d	PSWF8 (description="PHOTOFF131", quantity="")
Int1d	PSWG8 (description="PHOTOFF132", quantity="")
Int1d	PSWJ8 (description="PHOTOFF133", quantity="")
Int1d	PSWF9 (description="PHOTOFF134", quantity="")
Int1d	PSWH9 (description="PHOTOFF135", quantity="")
Int1d	PSWG9 (description="PHOTOFF136", quantity="")
Int1d	PSWJ9 (description="PHOTOFF137", quantity="")
Int1d	PSWF10 (description="PHOTOFF138", quantity="")
Int1d	PSWH10 (description="PHOTOFF139", quantity="")
Int1d	PSWG10 (description="PHOTOFF140", quantity="")
Int1d	PSWF11 (description="PHOTOFF141", quantity="")
Int1d	PSWJ10 (description="PHOTOFF142", quantity="")
Int1d	PSWH11 (description="PHOTOFF143", quantity="")
Int1d	PSWG11 (description="PHOTOFF144", quantity="")
Int1d	PLWR1 (description="PHOTOFF145", quantity="")
Int1d	PLWA8 (description="PHOTOFF146", quantity="")
Int1d	PLWA7 (description="PHOTOFF147", quantity="")

Int1d	PLWA6 (description="PHOTOFF148", quantity="")
Int1d	PLWA9 (description="PHOTOFF149", quantity="")
Int1d	PLWC9 (description="PHOTOFF150", quantity="")
Int1d	PLWB8 (description="PHOTOFF151", quantity="")
Int1d	PLWB7 (description="PHOTOFF152", quantity="")
Int1d	PLWC7 (description="PHOTOFF153", quantity="")
Int1d	PLWB5 (description="PHOTOFF154", quantity="")
Int1d	PLWB6 (description="PHOTOFF155", quantity="")
Int1d	PLWA5 (description="PHOTOFF156", quantity="")
Int1d	PLWT1 (description="PHOTOFF157", quantity="")
Int1d	PLWB4 (description="PHOTOFF158", quantity="")
Int1d	PLWC4 (description="PHOTOFF159", quantity="")
Int1d	PLWB3 (description="PHOTOFF160", quantity="")
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Int1d	PLWB2 (description="PHOTOFF162", quantity="")
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table dataset	*(description="Mask timelines")*	

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Int1d	PMWA7 (description="PHOTOFF274", quantity="")

Int1d	PMWA6 (description="PHOTOFF275", quantity="")
Int1d	PMWB6 (description="PHOTOFF276", quantity="")
Int1d	PMWC7 (description="PHOTOFF277", quantity="")
Int1d	PMWA5 (description="PHOTOFF278", quantity="")
Int1d	PMWB5 (description="PHOTOFF279", quantity="")
Int1d	PMWC6 (description="PHOTOFF280", quantity="")
Int1d	PMWD6 (description="PHOTOFF281", quantity="")
Int1d	PMWB4 (description="PHOTOFF282", quantity="")
Int1d	PMWC5 (description="PHOTOFF283", quantity="")
Int1d	PMWD4 (description="PHOTOFF284", quantity="")
Int1d	PMWA4 (description="PHOTOFF285", quantity="")
Int1d	PTCP1 (description="PHOTOFF286", quantity="")
Int1d	PTCP2 (description="PHOTOFF287", quantity="")
Int1d	PTCP3 (description="PHOTOFF288", quantity="")
Int1d	adcFlags (description="PHOTOFFADCFLGS", quantity="")

11.2.3. SDT: Spectrometer Detector Timeline

product (type="SDT", description="Spectrometer Detector Timeline")	
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	formatVersion (description="Version of product format")
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")
	decNominal (description="Requested Declination of pointing")

DoubleParameter	
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="Observation identifier")
StringParameter	obsMode (description="Observation mode name")
LongParameter	odNumber (description="Operational day number")
StringParameter	origin (description="Site that created the product")
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")
LongParameter	maskDead (description="Mask value for dead channel")
LongParameter	maskMaster (description="Mask value for master bit")
LongParameter	maskNoisy (description="Mask value for noisy channel")

LongParameter	maskSlow (description="Mask value for slow channel")
BooleanParameter	adcErrFlag (description="Presence of ADC Latch errors")
DoubleParameter	ratioTruncated (description="Total fraction of out of range values")
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")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation")
DoubleParameter	slwBiasAmpl (description="SLW bias amplitude")
DoubleParameter	sswBiasAmpl (description="SSW bias amplitude")
BooleanParameter	rcRollApp (description="RC roll correction applied")
LongParameter	jiggId (description="Jiggle ID")
LongParameter	pointNum (description="Pointing number")
StringParameter	biasMode (description="Bias mode")
StringParameter	level (description="The level of the product")
table dataset	*(description="Voltages table")*
Metadata	
Double1d	sampleTime (description="Sample time", quantity="TAI")
Float1d	SSWR1 (description="SPECFARRAY001", quantity="V")
Float1d	SSWA4 (description="SPECFARRAY002", quantity="V")
Float1d	SSWA3 (description="SPECFARRAY003", quantity="V")
Float1d	SSWA2 (description="SPECFARRAY004", quantity="V")
Float1d	SSWA1 (description="SPECFARRAY005", quantity="V")
Float1d	SSWDP1 (description="SPECFARRAY006", quantity="V")
Float1d	SSWB3 (description="SPECFARRAY007", quantity="V")
Float1d	SSWB2 (description="SPECFARRAY008", quantity="V")
Float1d	SSWB1 (description="SPECFARRAY009", quantity="V")
Float1d	SSWC3 (description="SPECFARRAY010", quantity="V")
Float1d	SSWC2 (description="SPECFARRAY011", quantity="V")
Float1d	SSWC1 (description="SPECFARRAY012", quantity="V")
Float1d	SSWD3 (description="SPECFARRAY013", quantity="V")
Float1d	SSWD2 (description="SPECFARRAY014", quantity="V")
Float1d	SSWD1 (description="SPECFARRAY015", quantity="V")

Float1d	SSWE3 (description="SPECFARRAY016", quantity="V")
Float1d	SSWE2 (description="SPECFARRAY017", quantity="V")
Float1d	SSWE1 (description="SPECFARRAY018", quantity="V")
Float1d	SSWF3 (description="SPECFARRAY019", quantity="V")
Float1d	SSWF2 (description="SPECFARRAY020", quantity="V")
Float1d	SSWF1 (description="SPECFARRAY021", quantity="V")
Float1d	SSWG1 (description="SPECFARRAY022", quantity="V")
Float1d	SSWT1 (description="SPECFARRAY023", quantity="V")
Float1d	SSWG2 (description="SPECFARRAY024", quantity="V")
Float1d	SSWE5 (description="SPECFARRAY025", quantity="V")
Float1d	SSWE4 (description="SPECFARRAY026", quantity="V")
Float1d	SSWD7 (description="SPECFARRAY027", quantity="V")
Float1d	SSWD6 (description="SPECFARRAY028", quantity="V")
Float1d	SSWD5 (description="SPECFARRAY029", quantity="V")
Float1d	SSWD4 (description="SPECFARRAY030", quantity="V")
Float1d	SSWC6 (description="SPECFARRAY031", quantity="V")
Float1d	SSWC5 (description="SPECFARRAY032", quantity="V")
Float1d	SSWC4 (description="SPECFARRAY033", quantity="V")
Float1d	SSWB5 (description="SPECFARRAY034", quantity="V")
Float1d	SSWB4 (description="SPECFARRAY035", quantity="V")
Float1d	SSWT2 (description="SPECFARRAY036", quantity="V")
Float1d	SSWG3 (description="SPECFARRAY037", quantity="V")
Float1d	SSWG4 (description="SPECFARRAY038", quantity="V")
Float1d	SSWDP2 (description="SPECFARRAY039", quantity="V")
Float1d	SSWF5 (description="SPECFARRAY040", quantity="V")
Float1d	SSWF4 (description="SPECFARRAY041", quantity="V")
Float1d	SSWE6 (description="SPECFARRAY042", quantity="V")
Float1d	SLWR1 (description="SPECFARRAY049", quantity="V")
Float1d	SLWT1 (description="SPECFARRAY050", quantity="V")
Float1d	SLWC1 (description="SPECFARRAY051", quantity="V")
Float1d	SLWDP1 (description="SPECFARRAY052", quantity="V")
Float1d	SLWB1 (description="SPECFARRAY053", quantity="V")
Float1d	SLWD1 (description="SPECFARRAY054", quantity="V")
Float1d	SLWE1 (description="SPECFARRAY055", quantity="V")
Float1d	SLWA1 (description="SPECFARRAY056", quantity="V")
Float1d	SLWC2 (description="SPECFARRAY057", quantity="V")
Float1d	SLWD2 (description="SPECFARRAY058", quantity="V")
Float1d	SLWB2 (description="SPECFARRAY059", quantity="V")
Float1d	SLWE2 (description="SPECFARRAY060", quantity="V")
Float1d	SLWA2 (description="SPECFARRAY061", quantity="V")
Float1d	SLWC3 (description="SPECFARRAY062", quantity="V")
Float1d	SLWD3 (description="SPECFARRAY063", quantity="V")

Float1d	SLWB3 (description="SPECFARRAY064", quantity="V")
Float1d	SLWE3 (description="SPECFARRAY065", quantity="V")
Float1d	SLWC4 (description="SPECFARRAY066", quantity="V")
Float1d	SLWDP2 (description="SPECFARRAY067", quantity="V")
Float1d	SLWD4 (description="SPECFARRAY068", quantity="V")
Float1d	SLWC5 (description="SPECFARRAY069", quantity="V")
Float1d	SLWB4 (description="SPECFARRAY070", quantity="V")
Float1d	SLWA3 (description="SPECFARRAY071", quantity="V")
Float1d	SLWT2 (description="SPECFARRAY072", quantity="V")
table dataset	*(description="Resistances table")*
Metadata	
Double1d	sampleTime (description="Sample time", quantity="TAI")
Float1d	SSWR1 (description="SPECFARRAY001", quantity="?")
Float1d	SSWA4 (description="SPECFARRAY002", quantity="?")
Float1d	SSWA3 (description="SPECFARRAY003", quantity="?")
Float1d	SSWA2 (description="SPECFARRAY004", quantity="?")
Float1d	SSWA1 (description="SPECFARRAY005", quantity="?")
Float1d	SSWDP1 (description="SPECFARRAY006", quantity="?")
Float1d	SSWB3 (description="SPECFARRAY007", quantity="?")
Float1d	SSWB2 (description="SPECFARRAY008", quantity="?")
Float1d	SSWB1 (description="SPECFARRAY009", quantity="?")
Float1d	SSWC3 (description="SPECFARRAY010", quantity="?")
Float1d	SSWC2 (description="SPECFARRAY011", quantity="?")
Float1d	SSWC1 (description="SPECFARRAY012", quantity="?")
Float1d	SSWD3 (description="SPECFARRAY013", quantity="?")
Float1d	SSWD2 (description="SPECFARRAY014", quantity="?")
Float1d	SSWD1 (description="SPECFARRAY015", quantity="?")
Float1d	SSWE3 (description="SPECFARRAY016", quantity="?")
Float1d	SSWE2 (description="SPECFARRAY017", quantity="?")
Float1d	SSWE1 (description="SPECFARRAY018", quantity="?")
Float1d	SSWF3 (description="SPECFARRAY019", quantity="?")
Float1d	SSWF2 (description="SPECFARRAY020", quantity="?")
Float1d	SSWF1 (description="SPECFARRAY021", quantity="?")
Float1d	SSWG1 (description="SPECFARRAY022", quantity="?")
Float1d	SSWT1 (description="SPECFARRAY023", quantity="?")
Float1d	SSWG2 (description="SPECFARRAY024", quantity="?")
Float1d	SSWE5 (description="SPECFARRAY025", quantity="?")
Float1d	SSWE4 (description="SPECFARRAY026", quantity="?")
Float1d	SSWD7 (description="SPECFARRAY027", quantity="?")
Float1d	SSWD6 (description="SPECFARRAY028", quantity="?")
Float1d	SSWD5 (description="SPECFARRAY029", quantity="?")

Float1d	SSWD4 (description="SPECFARRAY030", quantity="?")
Float1d	SSWC6 (description="SPECFARRAY031", quantity="?")
Float1d	SSWC5 (description="SPECFARRAY032", quantity="?")
Float1d	SSWC4 (description="SPECFARRAY033", quantity="?")
Float1d	SSWB5 (description="SPECFARRAY034", quantity="?")
Float1d	SSWB4 (description="SPECFARRAY035", quantity="?")
Float1d	SSWT2 (description="SPECFARRAY036", quantity="?")
Float1d	SSWG3 (description="SPECFARRAY037", quantity="?")
Float1d	SSWG4 (description="SPECFARRAY038", quantity="?")
Float1d	SSWDP2 (description="SPECFARRAY039", quantity="?")
Float1d	SSWF5 (description="SPECFARRAY040", quantity="?")
Float1d	SSWF4 (description="SPECFARRAY041", quantity="?")
Float1d	SSWE6 (description="SPECFARRAY042", quantity="?")
Float1d	SLWR1 (description="SPECFARRAY049", quantity="?")
Float1d	SLWT1 (description="SPECFARRAY050", quantity="?")
Float1d	SLWC1 (description="SPECFARRAY051", quantity="?")
Float1d	SLWDP1 (description="SPECFARRAY052", quantity="?")
Float1d	SLWB1 (description="SPECFARRAY053", quantity="?")
Float1d	SLWD1 (description="SPECFARRAY054", quantity="?")
Float1d	SLWE1 (description="SPECFARRAY055", quantity="?")
Float1d	SLWA1 (description="SPECFARRAY056", quantity="?")
Float1d	SLWC2 (description="SPECFARRAY057", quantity="?")
Float1d	SLWD2 (description="SPECFARRAY058", quantity="?")
Float1d	SLWB2 (description="SPECFARRAY059", quantity="?")
Float1d	SLWE2 (description="SPECFARRAY060", quantity="?")
Float1d	SLWA2 (description="SPECFARRAY061", quantity="?")
Float1d	SLWC3 (description="SPECFARRAY062", quantity="?")
Float1d	SLWD3 (description="SPECFARRAY063", quantity="?")
Float1d	SLWB3 (description="SPECFARRAY064", quantity="?")
Float1d	SLWE3 (description="SPECFARRAY065", quantity="?")
Float1d	SLWC4 (description="SPECFARRAY066", quantity="?")
Float1d	SLWDP2 (description="SPECFARRAY067", quantity="?")
Float1d	SLWD4 (description="SPECFARRAY068", quantity="?")
Float1d	SLWC5 (description="SPECFARRAY069", quantity="?")
Float1d	SLWB4 (description="SPECFARRAY070", quantity="?")
Float1d	SLWA3 (description="SPECFARRAY071", quantity="?")
Float1d	SLWT2 (description="SPECFARRAY072", quantity="?")
table dataset	*(description="Mask timelines")*
Metadata	
Double1d	sampleTime (description="Sample time", quantity="TAI")
Int1d	SSWR1 (description="SPECFARRAY001", quantity="")

Int1d	SSWA4 (description="SPECFARRAY002", quantity="")
Int1d	SSWA3 (description="SPECFARRAY003", quantity="")
Int1d	SSWA2 (description="SPECFARRAY004", quantity="")
Int1d	SSWA1 (description="SPECFARRAY005", quantity="")
Int1d	SSWDP1 (description="SPECFARRAY006", quantity="")
Int1d	SSWB3 (description="SPECFARRAY007", quantity="")
Int1d	SSWB2 (description="SPECFARRAY008", quantity="")
Int1d	SSWB1 (description="SPECFARRAY009", quantity="")
Int1d	SSWC3 (description="SPECFARRAY010", quantity="")
Int1d	SSWC2 (description="SPECFARRAY011", quantity="")
Int1d	SSWC1 (description="SPECFARRAY012", quantity="")
Int1d	SSWD3 (description="SPECFARRAY013", quantity="")
Int1d	SSWD2 (description="SPECFARRAY014", quantity="")
Int1d	SSWD1 (description="SPECFARRAY015", quantity="")
Int1d	SSWE3 (description="SPECFARRAY016", quantity="")
Int1d	SSWE2 (description="SPECFARRAY017", quantity="")
Int1d	SSWE1 (description="SPECFARRAY018", quantity="")
Int1d	SSWF3 (description="SPECFARRAY019", quantity="")
Int1d	SSWF2 (description="SPECFARRAY020", quantity="")
Int1d	SSWF1 (description="SPECFARRAY021", quantity="")
Int1d	SSWG1 (description="SPECFARRAY022", quantity="")
Int1d	SSWT1 (description="SPECFARRAY023", quantity="")
Int1d	SSWG2 (description="SPECFARRAY024", quantity="")
Int1d	SSWE5 (description="SPECFARRAY025", quantity="")
Int1d	SSWE4 (description="SPECFARRAY026", quantity="")
Int1d	SSWD7 (description="SPECFARRAY027", quantity="")
Int1d	SSWD6 (description="SPECFARRAY028", quantity="")
Int1d	SSWD5 (description="SPECFARRAY029", quantity="")
Int1d	SSWD4 (description="SPECFARRAY030", quantity="")
Int1d	SSWC6 (description="SPECFARRAY031", quantity="")
Int1d	SSWC5 (description="SPECFARRAY032", quantity="")
Int1d	SSWC4 (description="SPECFARRAY033", quantity="")
Int1d	SSWB5 (description="SPECFARRAY034", quantity="")
Int1d	SSWB4 (description="SPECFARRAY035", quantity="")
Int1d	SSWT2 (description="SPECFARRAY036", quantity="")
Int1d	SSWG3 (description="SPECFARRAY037", quantity="")
Int1d	SSWG4 (description="SPECFARRAY038", quantity="")
Int1d	SSWDP2 (description="SPECFARRAY039", quantity="")
Int1d	SSWF5 (description="SPECFARRAY040", quantity="")
Int1d	SSWF4 (description="SPECFARRAY041", quantity="")
Int1d	SSWE6 (description="SPECFARRAY042", quantity="")
Int1d	SLWR1 (description="SPECFARRAY049", quantity="")

Int1d	SLWT1 (description="SPECFARRAY050", quantity="")
Int1d	SLWC1 (description="SPECFARRAY051", quantity="")
Int1d	SLWDP1 (description="SPECFARRAY052", quantity="")
Int1d	SLWB1 (description="SPECFARRAY053", quantity="")
Int1d	SLWD1 (description="SPECFARRAY054", quantity="")
Int1d	SLWE1 (description="SPECFARRAY055", quantity="")
Int1d	SLWA1 (description="SPECFARRAY056", quantity="")
Int1d	SLWC2 (description="SPECFARRAY057", quantity="")
Int1d	SLWD2 (description="SPECFARRAY058", quantity="")
Int1d	SLWB2 (description="SPECFARRAY059", quantity="")
Int1d	SLWE2 (description="SPECFARRAY060", quantity="")
Int1d	SLWA2 (description="SPECFARRAY061", quantity="")
Int1d	SLWC3 (description="SPECFARRAY062", quantity="")
Int1d	SLWD3 (description="SPECFARRAY063", quantity="")
Int1d	SLWB3 (description="SPECFARRAY064", quantity="")
Int1d	SLWE3 (description="SPECFARRAY065", quantity="")
Int1d	SLWC4 (description="SPECFARRAY066", quantity="")
Int1d	SLWDP2 (description="SPECFARRAY067", quantity="")
Int1d	SLWD4 (description="SPECFARRAY068", quantity="")
Int1d	SLWC5 (description="SPECFARRAY069", quantity="")
Int1d	SLWB4 (description="SPECFARRAY070", quantity="")
Int1d	SLWA3 (description="SPECFARRAY071", quantity="")
Int1d	SLWT2 (description="SPECFARRAY072", quantity="")
table dataset	*(description="Quality control metric quantities")*
Metadata	
String1d	channelName (description="Channel name", quantity="")
Float1d	adcErrors (description="Fraction of ADC errors", quantity="")
Float1d	truncation (description="Fraction of out of range values", quantity="")
table dataset	*(description="Temperature")*
Metadata	
Double1d	sampleTime (description="Sample time", quantity="TAI")
Float1d	SSWT1 (description="Thermistor temperature", quantity="K")
Float1d	SSWT2 (description="Thermistor temperature", quantity="K")
Float1d	SLWT1 (description="Thermistor temperature", quantity="K")
Float1d	SLWT2 (description="Thermistor temperature", quantity="K")

11.2.4. SOT: : Spectrometer Offset Timeline

product (type="SOT", description="Spectrometer Offset Timeline")	
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	formatVersion (description="Version of product format")
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="Observation identifier")
StringParameter	obsMode (description="Observation mode name")
LongParameter	odNumber (description="Operational day number")
StringParameter	origin (description="Site that created the product")
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")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times")
LongParameter	maskMaster (description="Mask value for master bit")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time")
StringParameter	level (description="The level of the product")
table dataset	*(description="Signal timelines")*

Metadata	
Double1d	sampleTime (description="Sample time", quantity="TAI")
Int1d	SSWR1 (description="SPECOFF001", quantity="")
Int1d	SSWA4 (description="SPECOFF002", quantity="")
Int1d	SSWA3 (description="SPECOFF003", quantity="")
Int1d	SSWA2 (description="SPECOFF004", quantity="")
Int1d	SSWA1 (description="SPECOFF005", quantity="")
Int1d	SSWDP1 (description="SPECOFF006", quantity="")
Int1d	SSWB3 (description="SPECOFF007", quantity="")
Int1d	SSWB2 (description="SPECOFF008", quantity="")
Int1d	SSWB1 (description="SPECOFF009", quantity="")
Int1d	SSWC3 (description="SPECOFF010", quantity="")
Int1d	SSWC2 (description="SPECOFF011", quantity="")
Int1d	SSWC1 (description="SPECOFF012", quantity="")
Int1d	SSWD3 (description="SPECOFF013", quantity="")
Int1d	SSWD2 (description="SPECOFF014", quantity="")
Int1d	SSWD1 (description="SPECOFF015", quantity="")
Int1d	SSWE3 (description="SPECOFF016", quantity="")
Int1d	SSWE2 (description="SPECOFF017", quantity="")
Int1d	SSWE1 (description="SPECOFF018", quantity="")
Int1d	SSWF3 (description="SPECOFF019", quantity="")
Int1d	SSWF2 (description="SPECOFF020", quantity="")
Int1d	SSWF1 (description="SPECOFF021", quantity="")
Int1d	SSWG1 (description="SPECOFF022", quantity="")
Int1d	SSWT1 (description="SPECOFF023", quantity="")
Int1d	SSWG2 (description="SPECOFF024", quantity="")
Int1d	SSWE5 (description="SPECOFF025", quantity="")
Int1d	SSWE4 (description="SPECOFF026", quantity="")
Int1d	SSWD7 (description="SPECOFF027", quantity="")
Int1d	SSWD6 (description="SPECOFF028", quantity="")
Int1d	SSWD5 (description="SPECOFF029", quantity="")
Int1d	SSWD4 (description="SPECOFF030", quantity="")
Int1d	SSWC6 (description="SPECOFF031", quantity="")
Int1d	SSWC5 (description="SPECOFF032", quantity="")
Int1d	SSWC4 (description="SPECOFF033", quantity="")
Int1d	SSWB5 (description="SPECOFF034", quantity="")
Int1d	SSWB4 (description="SPECOFF035", quantity="")
Int1d	SSWT2 (description="SPECOFF036", quantity="")
Int1d	SSWG3 (description="SPECOFF037", quantity="")
Int1d	SSWG4 (description="SPECOFF038", quantity="")
Int1d	SSWDP2 (description="SPECOFF039", quantity="")
Int1d	SSWF5 (description="SPECOFF040", quantity="")

Int1d	SSWF4 (description="SPECOFF041", quantity="")
Int1d	SSWE6 (description="SPECOFF042", quantity="")
Int1d	SSWN1 (description="SPECOFF043", quantity="")
Int1d	SSWN2 (description="SPECOFF044", quantity="")
Int1d	SSWN3 (description="SPECOFF045", quantity="")
Int1d	SSWN4 (description="SPECOFF046", quantity="")
Int1d	SSWN5 (description="SPECOFF047", quantity="")
Int1d	SSWN6 (description="SPECOFF048", quantity="")
Int1d	SLWR1 (description="SPECOFF049", quantity="")
Int1d	SLWT1 (description="SPECOFF050", quantity="")
Int1d	SLWC1 (description="SPECOFF051", quantity="")
Int1d	SLWDP1 (description="SPECOFF052", quantity="")
Int1d	SLWB1 (description="SPECOFF053", quantity="")
Int1d	SLWD1 (description="SPECOFF054", quantity="")
Int1d	SLWE1 (description="SPECOFF055", quantity="")
Int1d	SLWA1 (description="SPECOFF056", quantity="")
Int1d	SLWC2 (description="SPECOFF057", quantity="")
Int1d	SLWD2 (description="SPECOFF058", quantity="")
Int1d	SLWB2 (description="SPECOFF059", quantity="")
Int1d	SLWE2 (description="SPECOFF060", quantity="")
Int1d	SLWA2 (description="SPECOFF061", quantity="")
Int1d	SLWC3 (description="SPECOFF062", quantity="")
Int1d	SLWD3 (description="SPECOFF063", quantity="")
Int1d	SLWB3 (description="SPECOFF064", quantity="")
Int1d	SLWE3 (description="SPECOFF065", quantity="")
Int1d	SLWC4 (description="SPECOFF066", quantity="")
Int1d	SLWDP2 (description="SPECOFF067", quantity="")
Int1d	SLWD4 (description="SPECOFF068", quantity="")
Int1d	SLWC5 (description="SPECOFF069", quantity="")
Int1d	SLWB4 (description="SPECOFF070", quantity="")
Int1d	SLWA3 (description="SPECOFF071", quantity="")
Int1d	SLWT2 (description="SPECOFF072", quantity="")
Int1d	adcFlags (description="SPECOFFADCFLGS", quantity="")
table dataset	*(description="Mask timelines")*
Metadata	
Double1d	sampleTime (description="Sample time", quantity="TAI")
Int1d	SSWR1 (description="SPECOFF001", quantity="")
Int1d	SSWA4 (description="SPECOFF002", quantity="")
Int1d	SSWA3 (description="SPECOFF003", quantity="")
Int1d	SSWA2 (description="SPECOFF004", quantity="")
Int1d	SSWA1 (description="SPECOFF005", quantity="")

Int1d	SSWDP1 (description="SPECOFF006", quantity="")
Int1d	SSWB3 (description="SPECOFF007", quantity="")
Int1d	SSWB2 (description="SPECOFF008", quantity="")
Int1d	SSWB1 (description="SPECOFF009", quantity="")
Int1d	SSWC3 (description="SPECOFF010", quantity="")
Int1d	SSWC2 (description="SPECOFF011", quantity="")
Int1d	SSWC1 (description="SPECOFF012", quantity="")
Int1d	SSWD3 (description="SPECOFF013", quantity="")
Int1d	SSWD2 (description="SPECOFF014", quantity="")
Int1d	SSWD1 (description="SPECOFF015", quantity="")
Int1d	SSWE3 (description="SPECOFF016", quantity="")
Int1d	SSWE2 (description="SPECOFF017", quantity="")
Int1d	SSWE1 (description="SPECOFF018", quantity="")
Int1d	SSWF3 (description="SPECOFF019", quantity="")
Int1d	SSWF2 (description="SPECOFF020", quantity="")
Int1d	SSWF1 (description="SPECOFF021", quantity="")
Int1d	SSWG1 (description="SPECOFF022", quantity="")
Int1d	SSWT1 (description="SPECOFF023", quantity="")
Int1d	SSWG2 (description="SPECOFF024", quantity="")
Int1d	SSWE5 (description="SPECOFF025", quantity="")
Int1d	SSWE4 (description="SPECOFF026", quantity="")
Int1d	SSWD7 (description="SPECOFF027", quantity="")
Int1d	SSWD6 (description="SPECOFF028", quantity="")
Int1d	SSWD5 (description="SPECOFF029", quantity="")
Int1d	SSWD4 (description="SPECOFF030", quantity="")
Int1d	SSWC6 (description="SPECOFF031", quantity="")
Int1d	SSWC5 (description="SPECOFF032", quantity="")
Int1d	SSWC4 (description="SPECOFF033", quantity="")
Int1d	SSWB5 (description="SPECOFF034", quantity="")
Int1d	SSWB4 (description="SPECOFF035", quantity="")
Int1d	SSWT2 (description="SPECOFF036", quantity="")
Int1d	SSWG3 (description="SPECOFF037", quantity="")
Int1d	SSWG4 (description="SPECOFF038", quantity="")
Int1d	SSWDP2 (description="SPECOFF039", quantity="")
Int1d	SSWF5 (description="SPECOFF040", quantity="")
Int1d	SSWF4 (description="SPECOFF041", quantity="")
Int1d	SSWE6 (description="SPECOFF042", quantity="")
Int1d	SSWN1 (description="SPECOFF043", quantity="")
Int1d	SSWN2 (description="SPECOFF044", quantity="")
Int1d	SSWN3 (description="SPECOFF045", quantity="")
Int1d	SSWN4 (description="SPECOFF046", quantity="")
Int1d	SSWN5 (description="SPECOFF047", quantity="")

Int1d	SSWN6 (description="SPECOFF048", quantity="")
Int1d	SLWR1 (description="SPECOFF049", quantity="")
Int1d	SLWT1 (description="SPECOFF050", quantity="")
Int1d	SLWC1 (description="SPECOFF051", quantity="")
Int1d	SLWDP1 (description="SPECOFF052", quantity="")
Int1d	SLWB1 (description="SPECOFF053", quantity="")
Int1d	SLWD1 (description="SPECOFF054", quantity="")
Int1d	SLWE1 (description="SPECOFF055", quantity="")
Int1d	SLWA1 (description="SPECOFF056", quantity="")
Int1d	SLWC2 (description="SPECOFF057", quantity="")
Int1d	SLWD2 (description="SPECOFF058", quantity="")
Int1d	SLWB2 (description="SPECOFF059", quantity="")
Int1d	SLWE2 (description="SPECOFF060", quantity="")
Int1d	SLWA2 (description="SPECOFF061", quantity="")
Int1d	SLWC3 (description="SPECOFF062", quantity="")
Int1d	SLWD3 (description="SPECOFF063", quantity="")
Int1d	SLWB3 (description="SPECOFF064", quantity="")
Int1d	SLWE3 (description="SPECOFF065", quantity="")
Int1d	SLWC4 (description="SPECOFF066", quantity="")
Int1d	SLWDP2 (description="SPECOFF067", quantity="")
Int1d	SLWD4 (description="SPECOFF068", quantity="")
Int1d	SLWC5 (description="SPECOFF069", quantity="")
Int1d	SLWB4 (description="SPECOFF070", quantity="")
Int1d	SLWA3 (description="SPECOFF071", quantity="")
Int1d	SLWT2 (description="SPECOFF072", quantity="")
Int1d	adcFlags (description="SPECOFFADCFLGS", quantity="")

11.2.5. NHKT: Nominal Housekeeping Timeline

product (type="NHKT", description="Nominal House Keeping Timeline")	
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	formatVersion (description="Version of product format")
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="Observation identifier")
StringParameter	obsMode (description="Observation mode name")
LongParameter	odNumber (description="Operational day number")
StringParameter	origin (description="Site that created the product")
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")
StringParameter	level (description="The level of the product")
table dataset	*(description="Signal timelines")*
Metadata	
Double1d	sampleTime (description="Sample time", quantity="TAI")
String1d	NHK_VERS (description="NHK_VERS", quantity="")
String1d	NHK_TYPE (description="NHK_TYPE", quantity="")
String1d	NHK_DFHFLAG (description="NHK_DFHFLAG", quantity="")
Short1d	NHK_APID (description="NHK_APID", quantity="")
String1d	NHK_SEGFLAG (description="NHK_SEGFLAG", quantity="")
Short1d	NHK_SSC (description="NHK_SSC", quantity="")
Int1d	NHK_PKTLEN (description="NHK_PKTLEN", quantity="")
String1d	NHK_PUSVERS (description="NHK_PUSVERS", quantity="")
Short1d	NHK_PKTTYPE (description="NHK_PKTTYPE", quantity="")
Short1d	NHK_PKTSTYPE (description="NHK_PKTSTYPE", quantity="")
Long1d	NHK_PKTCTIME (description="NHK_PKTCTIME", quantity="")
Int1d	NHK_PKTFTIME (description="NHK_PKTFTIME", quantity="")

String1d	BBFULLTYPE (description="BBFULLTYPE", quantity="")
String1d	MODE (description="MODE", quantity="")
Int1d	STEP (description="STEP", quantity="")
String1d	THSK (description="THSK", quantity="")
Long1d	TRESET (description="TRESET", quantity="")
Int1d	TCRECV (description="TCRECV", quantity="")
Int1d	TCRECN (description="TCRECN", quantity="")
Int1d	TCEXEC (description="TCEXEC", quantity="")
Int1d	TCEXEN (description="TCEXEN", quantity="")
Int1d	TM1N (description="TM1N", quantity="")
Int1d	TM2N (description="TM2N", quantity="")
Int1d	TM3N (description="TM3N", quantity="")
Int1d	TM4N (description="TM4N", quantity="")
Int1d	TM5N (description="TM5N", quantity="")
Int1d	DCUFRAMECNT (description="DCUFRAMECNT", quantity="")
Int1d	MCUFRAMECNT (description="MCUFRAMECNT", quantity="")
Int1d	SCUFRAMECNT (description="SCUFRAMECNT", quantity="")
String1d	TSYNC (description="TSYNC", quantity="")
String1d	TDIFF (description="TDIFF", quantity="")
String1d	MEMSTAT_1 (description="MEMSTAT_1", quantity="")
String1d	MEMSTAT_2 (description="MEMSTAT_2", quantity="")
String1d	MEMSTAT_3 (description="MEMSTAT_3", quantity="")
String1d	MONSTAT (description="MONSTAT", quantity="")
String1d	DCULSIFSTAT (description="DCULSIFSTAT", quantity="")
String1d	DCUHSIFMODE (description="DCUHSIFMODE", quantity="")
String1d	MCULSIFSTAT (description="MCULSIFSTAT", quantity="")
String1d	MCUHSIFMODE (description="MCUHSIFMODE", quantity="")
String1d	SCULSIFSTAT (description="SCULSIFSTAT", quantity="")
String1d	SCUHSMODE (description="SCUHSMODE", quantity="")
Int1d	BBCOUNT (description="BBCOUNT", quantity="")
Int1d	VMSTAT (description="VMSTAT", quantity="")
Int1d	VM1STAT (description="VM1STAT", quantity="")
Int1d	VM2STAT (description="VM2STAT", quantity="")
Int1d	VM3STAT (description="VM3STAT", quantity="")
Int1d	VMSTATAFX (description="VMSTATAFX", quantity="")
Int1d	SD_VALUE0 (description="SD_VALUE0", quantity="")
Int1d	SD_ADDRESS0 (description="SD_ADDRESS0", quantity="")
Int1d	SD_VALUE1 (description="SD_VALUE1", quantity="")
Int1d	SD_ADDRESS1 (description="SD_ADDRESS1", quantity="")
Int1d	SD_VALUE2 (description="SD_VALUE2", quantity="")
Int1d	SD_ADDRESS2 (description="SD_ADDRESS2", quantity="")
Int1d	SD_VALUE3 (description="SD_VALUE3", quantity="")

Int1d	SD_ADDRESS3 (description="SD_ADDRESS3", quantity="")
Double1d	DPUP5V (description="DPUP5V", quantity="V")
Double1d	DPUP15V (description="DPUP15V", quantity="V")
Double1d	DPUM15V (description="DPUM15V", quantity="V")
Double1d	DPUTEMP (description="DPUTEMP", quantity="K")
Int1d	CPULOAD (description="CPULOAD", quantity="")
Long1d	LSLOAD (description="LSLOAD", quantity="")
Double1d	DPUP2_5V (description="DPUP2_5V", quantity="V")
String1d	DCUDATAMODE (description="DCUDATAMODE", quantity="")
String1d	DCUDATAFRMS (description="DCUDATAFRMS", quantity="")
String1d	DCUDATASTAT (description="DCUDATASTAT", quantity="")
Int1d	PHOTBIASDIV (description="PHOTBIASDIV", quantity="")
String1d	PHOTBIASMODE (description="PHOTBIASMODE", quantity="")
Int1d	PHOTMCLKDIV (description="PHOTMCLKDIV", quantity="")
Double1d	PSWBIAS (description="PSWBIAS", quantity="V")
Double1d	PMWBIAS (description="PMWBIAS", quantity="V")
Double1d	PLWBIAS (description="PLWBIAS", quantity="V")
Double1d	TCBIAS (description="TCBIAS", quantity="V")
Double1d	PSWPHASE (description="PSWPHASE", quantity="degree [0.01745329 rad]")
Double1d	PMWPHASE (description="PMWPHASE", quantity="degree [0.01745329 rad]")
Double1d	PLWPHASE (description="PLWPHASE", quantity="degree [0.01745329 rad]")
Double1d	TCPHASE (description="TCPHASE", quantity="degree [0.01745329 rad]")
Int1d	PSWJFETSTAT (description="PSWJFETSTAT", quantity="")
String1d	PSW_VDD_JFET1 (description="PSW_VDD_JFET1", quantity="")
String1d	PSW_VDD_JFET2 (description="PSW_VDD_JFET2", quantity="")
String1d	PSW_VDD_JFET3 (description="PSW_VDD_JFET3", quantity="")
String1d	PSW_VDD_JFET4 (description="PSW_VDD_JFET4", quantity="")
String1d	PSW_VDD_JFET5 (description="PSW_VDD_JFET5", quantity="")
String1d	PSW_VDD_JFET6 (description="PSW_VDD_JFET6", quantity="")
Int1d	PMLWJFETSTAT (description="PMLWJFETSTAT", quantity="")
String1d	PMW_VDD_JFET1 (description="PMW_VDD_JFET1", quantity="")
String1d	PMW_VDD_JFET2 (description="PMW_VDD_JFET2", quantity="")
String1d	PMW_VDD_JFET3 (description="PMW_VDD_JFET3", quantity="")
String1d	PMW_VDD_JFET4 (description="PMW_VDD_JFET4", quantity="")
String1d	PLW_VDD_JFET1 (description="PLW_VDD_JFET1", quantity="")
String1d	PLW_VDD_JFET2 (description="PLW_VDD_JFET2", quantity="")
String1d	TC_VDD_JFET (description="TC_VDD_JFET", quantity="")
Double1d	PSWJFET1V (description="PSWJFET1V", quantity="V")
Double1d	PSWJFET2V (description="PSWJFET2V", quantity="V")

Double1d	PSWJFET3V (description="PSWJFET3V", quantity="V")
Double1d	PSWJFET4V (description="PSWJFET4V", quantity="V")
Double1d	PSWJFET5V (description="PSWJFET5V", quantity="V")
Double1d	PSWJFET6V (description="PSWJFET6V", quantity="V")
Double1d	PMWJFET1V (description="PMWJFET1V", quantity="V")
Double1d	PMWJFET2V (description="PMWJFET2V", quantity="V")
Double1d	PMWJFET3V (description="PMWJFET3V", quantity="V")
Double1d	PMWJFET4V (description="PMWJFET4V", quantity="V")
Double1d	PLWJFET1V (description="PLWJFET1V", quantity="V")
Double1d	PLWJFET2V (description="PLWJFET2V", quantity="V")
Double1d	PHOTHTRV (description="PHOTHTRV", quantity="V")
Double1d	TCJFETV (description="TCJFETV", quantity="V")
Int1d	SPECBIASDIV (description="SPECBIASDIV", quantity="")
String1d	SPECBIASMODE (description="SPECBIASMODE", quantity="")
Int1d	SPECMCLKDIV (description="SPECMCLKDIV", quantity="")
Double1d	SSWBIAS (description="SSWBIAS", quantity="V")
Double1d	SLWBIAS (description="SLWBIAS", quantity="V")
Double1d	SSWPHASE (description="SSWPHASE", quantity="degree [0.01745329 rad]")
Double1d	SLWPHASE (description="SLWPHASE", quantity="degree [0.01745329 rad]")
Int1d	SPECJFETSTAT (description="SPECJFETSTAT", quantity="")
String1d	SLW_VDD_JFET1 (description="SLW_VDD_JFET1", quantity="")
String1d	SSW_VDD_JFET1 (description="SSW_VDD_JFET1", quantity="")
String1d	SSW_VDD_JFET2 (description="SSW_VDD_JFET2", quantity="")
Double1d	SSWJFET1V (description="SSWJFET1V", quantity="V")
Double1d	SSWJFET2V (description="SSWJFET2V", quantity="V")
Double1d	SLWJFET1V (description="SLWJFET1V", quantity="V")
Double1d	SPECHTRV (description="SPECHTRV", quantity="V")
Double1d	TC1TEMP (description="TC1TEMP", quantity="V")
Double1d	TC2TEMP (description="TC2TEMP", quantity="V")
Double1d	TC3TEMP (description="TC3TEMP", quantity="V")
Double1d	BIASP5V (description="BIASP5V", quantity="V")
Double1d	BIASP9V (description="BIASP9V", quantity="V")
Double1d	BIASM9V (description="BIASM9V", quantity="V")
Int1d	OBSVER (description="OBSVER", quantity="")
Short1d	OBSVER1 (description="OBSVER1", quantity="")
Short1d	OBSVER2 (description="OBSVER2", quantity="")
String1d	OBSVER3 (description="OBSVER3", quantity="")
String1d	TMMODE (description="TMMODE", quantity="")
Int1d	FIFO_DF_FLAG (description="FIFO_DF_FLAG", quantity="")
Double1d	PLIAP5V (description="PLIAP5V", quantity="V")

Double1d	PLIAP9V (description="PLIAP9V", quantity="V")
Double1d	PLIAM9V (description="PLIAM9V", quantity="V")
Double1d	SLIAP5V (description="SLIAP5V", quantity="V")
Double1d	SLIAP9V (description="SLIAP9V", quantity="V")
Double1d	SLIAM9V (description="SLIAM9V", quantity="V")
Double1d	LIAP9TEMP (description="LIAP9TEMP", quantity="K")
Double1d	LIAP8TEMP (description="LIAP8TEMP", quantity="K")
Double1d	LIAP7TEMP (description="LIAP7TEMP", quantity="K")
Double1d	LIAP6TEMP (description="LIAP6TEMP", quantity="K")
Double1d	LIAP5TEMP (description="LIAP5TEMP", quantity="K")
Double1d	LIAP4TEMP (description="LIAP4TEMP", quantity="K")
Double1d	LIAP3TEMP (description="LIAP3TEMP", quantity="K")
Double1d	LIAP2TEMP (description="LIAP2TEMP", quantity="K")
Double1d	LIAP1TEMP (description="LIAP1TEMP", quantity="K")
Double1d	LIAS1TEMP (description="LIAS1TEMP", quantity="K")
Double1d	LIAS2TEMP (description="LIAS2TEMP", quantity="K")
Double1d	LIAS3TEMP (description="LIAS3TEMP", quantity="K")
Double1d	BIASTEMP (description="BIASTEMP", quantity="K")
Double1d	DAQTEMP (description="DAQTEMP", quantity="K")
Int1d	LIASTAT (description="LIASTAT", quantity="")
String1d	LIAP1STAT (description="LIAP1STAT", quantity="")
String1d	LIAP2STAT (description="LIAP2STAT", quantity="")
String1d	LIAP3STAT (description="LIAP3STAT", quantity="")
String1d	LIAP4STAT (description="LIAP4STAT", quantity="")
String1d	LIAP5STAT (description="LIAP5STAT", quantity="")
String1d	LIAP6STAT (description="LIAP6STAT", quantity="")
String1d	LIAP7STAT (description="LIAP7STAT", quantity="")
String1d	LIAP8STAT (description="LIAP8STAT", quantity="")
String1d	LIAP9STAT (description="LIAP9STAT", quantity="")
String1d	LIAS1STAT (description="LIAS1STAT", quantity="")
String1d	LIAS2STAT (description="LIAS2STAT", quantity="")
String1d	LIAS3STAT (description="LIAS3STAT", quantity="")
Int1d	MCUIFSTAT (description="MCUIFSTAT", quantity="")
Int1d	MCUIFCTRL (description="MCUIFCTRL", quantity="")
Int1d	MCUSSDEL (description="MCUSSDEL", quantity="")
Double1d	MCUP5V (description="MCUP5V", quantity="V")
Double1d	MCUP14V (description="MCUP14V", quantity="V")
Double1d	MCUM14V (description="MCUM14V", quantity="V")
Double1d	MCUP15V (description="MCUP15V", quantity="V")
Double1d	MCUM15V (description="MCUM15V", quantity="V")
Double1d	MCUMACTEMP (description="MCUMACTEMP", quantity="K")
Double1d	MCUSMECTEMP (description="MCUSMECTEMP", quantity="K")

Double1d	MCUBSMTEMP (description="MCUBSMTEMP", quantity="K")
String1d	MCUERR (description="MCUERR", quantity="")
Int1d	MCUSCHEDCNTLSW (description="MCUSCHEDCNTLSW", quantity="")
Int1d	MCUSCHEDCNTMSW (description="MCUSCHEDCNTMSW", quantity="")
Int1d	MCUTM10TSAMPLE (description="MCUTM10TSAMPLE", quantity="")
String1d	MCUFRAMESTART (description="MCUFRAMESTART", quantity="")
Int1d	MCUTM12TSAMPLE (description="MCUTM12TSAMPLE", quantity="")
Int1d	MCUFRAMES (description="MCUFRAMES", quantity="")
Int1d	MCUTM14TSAMPLE (description="MCUTM14TSAMPLE", quantity="")
Int1d	MCUTM15TSAMPLE (description="MCUTM15TSAMPLE", quantity="")
String1d	MCUTMSTATUS (description="MCUTMSTATUS", quantity="")
String1d	MCUBOOTSTAT (description="MCUBOOTSTAT", quantity="")
Int1d	MCUDLOADCONF (description="MCUDLOADCONF", quantity="")
Int1d	SMECLOSTCOUNT (description="SMECLOSTCOUNT", quantity="")
Int1d	SMECENCPWR (description="SMECENCPWR", quantity="")
String1d	SMECLVDTPWR (description="SMECLVDTPWR", quantity="")
String1d	SMECLATCHSTAT (description="SMECLATCHSTAT", quantity="")
String1d	SMECLOOPMODE (description="SMECLOOPMODE", quantity="")
Double1d	SCANSTART (description="SCANSTART", quantity="cm [0.01 m]")
Double1d	SCANEND (description="SCANEND", quantity="cm [0.01 m]")
Int1d	SCANFSPEED (description="SCANFSPEED", quantity="")
Int1d	SCANS (description="SCANS", quantity="")
String1d	SCANMODE (description="SCANMODE", quantity="")
Int1d	SMECKP (description="SMECKP", quantity="")
Int1d	SMECKD (description="SMECKD", quantity="")
Int1d	SMECDFILT (description="SMECDFILT", quantity="")
Int1d	SMECKI (description="SMECKI", quantity="")
Int1d	SMECINTLIMIT (description="SMECINTLIMIT", quantity="")
Int1d	SMECINTTHRESH (description="SMECINTTHRESH", quantity="")
Int1d	SMECRATELIMIT (description="SMECRATELIMIT", quantity="")
Int1d	SMECDFILT2 (description="SMECDFILT2", quantity="")
Int1d	SMECFFGAIN (description="SMECFFGAIN", quantity="")
Int1d	SMECFFOFFSET (description="SMECFFOFFSET", quantity="")
Int1d	SCANRSPEED (description="SCANRSPEED", quantity="")
Int1d	SMECBEMFGAIN (description="SMECBEMFGAIN", quantity="")
Int1d	SMECMOTORRES (description="SMECMOTORRES", quantity="")

Int1d	SMECMOTORBEMF (description="SMECMOTORBEMF", quantity="")
Int1d	SMECRATESCALE (description="SMECRATESCALE", quantity="")
Double1d	SMECLVDTOFFSET (description="SMECLVDTOFFSET", quantity="cm [0.01 m]")
Double1d	SMECLVDTSCALE (description="SMECLVDTSCALE", quantity="cm [0.01 m]")
String1d	SMECSTAT (description="SMECSTAT", quantity="")
String1d	SMECFLAG (description="SMECFLAG", quantity="")
String1d	SMECLVDTSIGN (description="SMECLVDTSIGN", quantity="")
String1d	SMECINIT (description="SMECINIT", quantity="")
String1d	SMECSCANDIR (description="SMECSCANDIR", quantity="")
Short1d	SMECSCANCNT (description="SMECSCANCNT", quantity="")
Double1d	SMECENCPOSN (description="SMECENCPOSN", quantity="cm [0.01 m]")
Int1d	SMECENCSIG1 (description="SMECENCSIG1", quantity="")
Int1d	SMECENCSIG2 (description="SMECENCSIG2", quantity="")
Int1d	SMECENCSIG3 (description="SMECENCSIG3", quantity="")
Double1d	SMECLVDTPOSN (description="SMECLVDTPOSN", quantity="cm [0.01 m]")
Int1d	SMECLVDTACSIG (description="SMECLVDTACSIG", quantity="")
Int1d	SMECLVDTDCSIG (description="SMECLVDTDCSIG", quantity="")
Double1d	SMECTRAJPOSN (description="SMECTRAJPOSN", quantity="cm [0.01 m]")
Int1d	SMECDACVAL (description="SMECDACVAL", quantity="")
Double1d	SMECPOSNDELTA (description="SMECPOSNDELTA", quantity="cm [0.01 m]")
Double1d	SMECENCFINEPOSN (description="SMECENCFINEPOSN", quantity="cm [0.01 m]")
Int1d	SMECMEANSPEED (description="SMECMEANSPEED", quantity="")
Double1d	SMECSCANPOSNERR (description="SMECSCANPOSNERR", quantity="cm [0.01 m]")
Double1d	SMECMOTORCURR (description="SMECMOTORCURR", quantity="A")
Double1d	SMECMOTORVOLT (description="SMECMOTORVOLT", quantity="V")
Int1d	SMECENCSIG1AMP (description="SMECENCSIG1AMP", quantity="")
Int1d	SMECENCSIG1OFF (description="SMECENCSIG1OFF", quantity="")
Int1d	SMECENCSIG2AMP (description="SMECENCSIG2AMP", quantity="")
Int1d	SMECENCSIG2OFF (description="SMECENCSIG2OFF", quantity="")

Int1d	SMECENCSIG3AMP (description="SMECENCSIG3AMP", quantity="")
Int1d	SMECENCSIG3OFF (description="SMECENCSIG3OFF", quantity="")
String1d	CHOPSENSPWR (description="CHOPSENSPWR", quantity="")
String1d	CHOPLOOPMODE (description="CHOPLOOPMODE", quantity="")
Int1d	CHOPPOSN (description="CHOPPOSN", quantity="")
Int1d	CHOPPOSN2 (description="CHOPPOSN2", quantity="")
String1d	BSMMODE (description="BSMMODE", quantity="")
Int1d	CHOPFFOFFSET (description="CHOPFFOFFSET", quantity="")
Int1d	CHOPKP (description="CHOPKP", quantity="")
Int1d	CHOPKD (description="CHOPKD", quantity="")
Int1d	CHOPKI (description="CHOPKI", quantity="")
Int1d	CHOPINTREF (description="CHOPINTREF", quantity="")
Int1d	CHOPINTLIMIT (description="CHOPINTLIMIT", quantity="")
Int1d	CHOPFFGAIN (description="CHOPFFGAIN", quantity="")
Int1d	CHOPFFGAINDIFF (description="CHOPFFGAINDIFF", quantity="")
Int1d	CHOPDIFFTC1 (description="CHOPDIFFTC1", quantity="")
Int1d	CHOPDIFFTC2 (description="CHOPDIFFTC2", quantity="")
Int1d	CHOPRATELIMIT (description="CHOPRATELIMIT", quantity="")
Int1d	CHOPMOTBEMFGAIN (description="CHOPMOTBEMFGAIN", quantity="")
Int1d	CHOPMOTRES (description="CHOPMOTRES", quantity="")
Int1d	CHOPMOTIND (description="CHOPMOTIND", quantity="")
Int1d	CHOPRATESCALE (description="CHOPRATESCALE", quantity="")
Int1d	CHOPPOSNSCALE (description="CHOPPOSNSCALE", quantity="")
Int1d	CHOPBEMFRATFIL1 (description="CHOPBEMFRATFIL1", quantity="")
Int1d	CHOPBEMFRATFIL2 (description="CHOPBEMFRATFIL2", quantity="")
Int1d	CHOPJIGGCOUPLE (description="CHOPJIGGCOUPLE", quantity="")
String1d	BSMSTAT (description="BSMSTAT", quantity="")
Int1d	CHOPPOSNERR (description="CHOPPOSNERR", quantity="")
Int1d	CHOPSENSSIG (description="CHOPSENSSIG", quantity="")
Double1d	CHOPDACVAL (description="CHOPDACVAL", quantity="V")
Double1d	CHOPMOTORCURR (description="CHOPMOTORCURR", quantity="A")
Double1d	CHOPMOTORVOLT (description="CHOPMOTORVOLT", quantity="V")
String1d	JIGGSENSPWR (description="JIGGSENSPWR", quantity="")
String1d	JIGGLOOPMODE (description="JIGGLOOPMODE", quantity="")
Int1d	JIGGPOSN (description="JIGGPOSN", quantity="")
Int1d	JIGGPOSN2 (description="JIGGPOSN2", quantity="")
Int1d	JIGGFFOFFSET (description="JIGGFFOFFSET", quantity="")
Int1d	JIGGKP (description="JIGGKP", quantity="")
Int1d	JIGGKD (description="JIGGKD", quantity="")
Int1d	JIGGKI (description="JIGGKI", quantity="")

Int1d	JIGGINTREF (description="JIGGINTREF", quantity="")
Int1d	JIGGINTLIMIT (description="JIGGINTLIMIT", quantity="")
Int1d	JIGGFFGAIN (description="JIGGFFGAIN", quantity="")
Int1d	JIGGFFGAINDIFF (description="JIGGFFGAINDIFF", quantity="")
Int1d	JIGGDIFFTC1 (description="JIGGDIFFTC1", quantity="")
Int1d	JIGGDIFFTC2 (description="JIGGDIFFTC2", quantity="")
Int1d	JIGGRATELIMIT (description="JIGGRATELIMIT", quantity="")
Int1d	JIGGMOTBEMFGAIN (description="JIGGMOTBEMFGAIN", quantity="")
Int1d	JIGGMOTRES (description="JIGGMOTRES", quantity="")
Int1d	JIGGMOTIND (description="JIGGMOTIND", quantity="")
Int1d	JIGGRATESCALE (description="JIGGRATESCALE", quantity="")
Int1d	JIGGPOSNSCALE (description="JIGGPOSNSCALE", quantity="")
Int1d	JIGGBEMFRATFIL1 (description="JIGGBEMFRATFIL1", quantity="")
Int1d	JIGGBEMFRATFIL2 (description="JIGGBEMFRATFIL2", quantity="")
Int1d	JIGGCHOPCOUPLE (description="JIGGCHOPCOUPLE", quantity="")
Int1d	JIGGPOSNERR (description="JIGGPOSNERR", quantity="")
Int1d	JIGGSENSSIG (description="JIGGSENSSIG", quantity="")
Double1d	JIGGDACVAL (description="JIGGDACVAL", quantity="V")
Double1d	JIGGMOTORCURR (description="JIGGMOTORCURR", quantity="A")
Double1d	JIGGMOTORVOLT (description="JIGGMOTORVOLT", quantity="V")
Int1d	MCUPCKT10PARM05 (description="MCUPCKT10PARM05", quantity="")
Int1d	MCUPCKT10PARM01 (description="MCUPCKT10PARM01", quantity="")
Int1d	MCUPCKT10PARM02 (description="MCUPCKT10PARM02", quantity="")
Int1d	MCUPCKT10PARM03 (description="MCUPCKT10PARM03", quantity="")
Int1d	MCUPCKT10PARM04 (description="MCUPCKT10PARM04", quantity="")
Int1d	MCUPCKT12PARM01 (description="MCUPCKT12PARM01", quantity="")
Int1d	MCUPCKT12PARM02 (description="MCUPCKT12PARM02", quantity="")
Int1d	MCUPCKT12PARM03 (description="MCUPCKT12PARM03", quantity="")
Int1d	MCUPCKT12PARM04 (description="MCUPCKT12PARM04", quantity="")
Int1d	MCUPCKT12PARM05 (description="MCUPCKT12PARM05", quantity="")
Int1d	MCUPCKT12PARM06 (description="MCUPCKT12PARM06", quantity="")
Int1d	MCUPCKT14PARM01 (description="MCUPCKT14PARM01", quantity="")

Int1d	MCUPCKT14PARM02 (description="MCUPCKT14PARM02", quantity="")
Int1d	MCUPCKT14PARM03 (description="MCUPCKT14PARM03", quantity="")
Int1d	MCUPCKT14PARM04 (description="MCUPCKT14PARM04", quantity="")
Int1d	MCUPCKT14PARM05 (description="MCUPCKT14PARM05", quantity="")
Int1d	MCUPCKT14PARM06 (description="MCUPCKT14PARM06", quantity="")
Int1d	MCUPCKT14PARM07 (description="MCUPCKT14PARM07", quantity="")
Int1d	MCUPCKT14PARM08 (description="MCUPCKT14PARM08", quantity="")
Int1d	MCUPCKT14PARM09 (description="MCUPCKT14PARM09", quantity="")
Int1d	MCUPCKT14PARM10 (description="MCUPCKT14PARM10", quantity="")
Int1d	MCUPCKT14PARM11 (description="MCUPCKT14PARM11", quantity="")
Int1d	MCUPCKT14PARM12 (description="MCUPCKT14PARM12", quantity="")
Int1d	MCUPCKT14PARM13 (description="MCUPCKT14PARM13", quantity="")
Int1d	MCUPCKT14PARM14 (description="MCUPCKT14PARM14", quantity="")
Int1d	SCUIFSTAT (description="SCUIFSTAT", quantity="")
Int1d	SCUIFCTRL (description="SCUIFCTRL", quantity="")
Int1d	SCUSSDEL (description="SCUSSDEL", quantity="")
Int1d	SCUSTAT (description="SCUSTAT", quantity="")
Int1d	SCUTEMPSTAT (description="SCUTEMPSTAT", quantity="")
Int1d	SCUDCDCSTAT (description="SCUDCDCSTAT", quantity="")
String1d	PLIABITSTAT (description="PLIABITSTAT", quantity="")
String1d	SLIABITSTAT (description="SLIABITSTAT", quantity="")
String1d	MCUBITSTAT (description="MCUBITSTAT", quantity="")
Double1d	SCUP5V (description="SCUP5V", quantity="V")
Double1d	SCUP9V (description="SCUP9V", quantity="V")
Double1d	SCUM9V (description="SCUM9V", quantity="V")
Double1d	EVHSV (description="EVHSV", quantity="V")
Double1d	SPHSV (description="SPHSV", quantity="V")
Double1d	TCHTRV (description="TCHTRV", quantity="V")
Double1d	SPHTRV (description="SPHTRV", quantity="V")
Double1d	CCUTEMP (description="CCUTEMP", quantity="K")
Double1d	TCUTEMP (description="TCUTEMP", quantity="K")
Double1d	PSUTEMP1 (description="PSUTEMP1", quantity="K")

Int1d	SCUFRAMECONF (description="SCUFRAMECONF", quantity="")
Int1d	SCUFRAMES (description="SCUFRAMES", quantity="")
Int1d	SCUFRAMESTAT (description="SCUFRAMESTAT", quantity="")
Int1d	SCUCTRL (description="SCUCTRL", quantity="")
Double1d	PCALV (description="PCALV", quantity="V")
Double1d	SCAL2V (description="SCAL2V", quantity="V")
Double1d	SCAL4V (description="SCAL4V", quantity="V")
Double1d	SCUCHT2_5V (description="SCUCHT2_5V", quantity="V")
Double1d	SCUCHTREF (description="SCUCHTREF", quantity="V")
Double1d	SCUCHTGND (description="SCUCHTGND", quantity="V")
Double1d	PCALCURR (description="PCALCURR", quantity="A")
Double1d	SCAL2CURR (description="SCAL2CURR", quantity="A")
Double1d	SCAL4CURR (description="SCAL4CURR", quantity="A")
Double1d	PSUTEMP2 (description="PSUTEMP2", quantity="K")
String1d	SUBKSTAT (description="SUBKSTAT", quantity="")
Double1d	PUMPHTRTEMP (description="PUMPHTRTEMP", quantity="K")
Double1d	PUMPHSTEMP (description="PUMPHSTEMP", quantity="K")
Double1d	EVAPHSTEMP (description="EVAPHSTEMP", quantity="K")
Double1d	SHUNTTEMP (description="SHUNTTEMP", quantity="K")
Double1d	EMCFILTEMP (description="EMCFILTEMP", quantity="K")
Double1d	SL0TEMP (description="SL0TEMP", quantity="K")
Double1d	PL0TEMP (description="PL0TEMP", quantity="K")
Double1d	OPTTEMP (description="OPTTEMP", quantity="K")
Double1d	BAFTEMP (description="BAFTEMP", quantity="K")
Double1d	BSMIFTEMP (description="BSMIFTEMP", quantity="K")
Double1d	SCAL2TEMP (description="SCAL2TEMP", quantity="K")
Double1d	SCAL4TEMP (description="SCAL4TEMP", quantity="K")
Double1d	SCALTEMP (description="SCALTEMP", quantity="K")
Double1d	SMECIFTEMP (description="SMECIFTEMP", quantity="K")
Double1d	SMECTEMP (description="SMECTEMP", quantity="K")
Double1d	BSMTEMP (description="BSMTEMP", quantity="K")
Double1d	SUBKTEMP (description="SUBKTEMP", quantity="K")
Double1d	SCUTHTREF (description="SCUTHTREF", quantity="V")
Double1d	SCUTHTGND (description="SCUTHTGND", quantity="V")
Int1d	LOSTTCBLOCK (description="LOSTTCBLOCK", quantity="")
Int1d	LOSTEVBLOCK (description="LOSTEVBLOCK", quantity="")
Int1d	LOSTHKBLOCK (description="LOSTHKBLOCK", quantity="")
Int1d	LOSTSDBLOCK (description="LOSTSDBLOCK", quantity="")
Int1d	LOSTNTBLOCK (description="LOSTNTBLOCK", quantity="")
Int1d	LS_HP_FIFOSTAT (description="LS_HP_FIFOSTAT", quantity="")
Int1d	LS_LP_FIFOSTAT (description="LS_LP_FIFOSTAT", quantity="")
String1d	MCUPCKT10STAT (description="MCUPCKT10STAT", quantity="")

String1d	MCUPCKT12STAT (description="MCUPCKT12STAT", quantity="")
String1d	MCUPCKT14STAT (description="MCUPCKT14STAT", quantity="")
String1d	MCUPCKT15STAT (description="MCUPCKT15STAT", quantity="")
String1d	MCURAMINTEGRITY (description="MCURAMINTEGRITY", quantity="")
String1d	MCURAMTSTPROG (description="MCURAMTSTPROG", quantity="")
String1d	MCURAMTSTDATA (description="MCURAMTSTDATA", quantity="")
String1d	MCUPROM2RAMCOPY (description="MCUPROM2RAMCOPY", quantity="")
String1d	MCUBOOTMODE (description="MCUBOOTMODE", quantity="")
Int1d	SMECSELECTTAB (description="SMECSELECTTAB", quantity="")
Int1d	CREC_STEP (description="CREC_STEP", quantity="")
Int1d	PTC_STAGE (description="PTC_STAGE", quantity="")
Int1d	SCAL_STAGE (description="SCAL_STAGE", quantity="")
Int1d	JIGGLE_STEP (description="JIGGLE_STEP", quantity="")
Int1d	LOSTRPBLOCK (description="LOSTRPBLOCK", quantity="")
Int1d	LIAFAILCOUNT (description="LIAFAILCOUNT", quantity="")
Int1d	SCANRES (description="SCANRES", quantity="")
Int1d	TABLE7_07_LWORD (description="TABLE7_07_LWORD", quantity="")
Int1d	TABLE7_08_LWORD (description="TABLE7_08_LWORD", quantity="")
Int1d	TABLE7_09_LWORD (description="TABLE7_09_LWORD", quantity="")
Long1d	TABLE7_10 (description="TABLE7_10", quantity="")
Long1d	TABLE7_11 (description="TABLE7_11", quantity="")
Long1d	TABLE7_12 (description="TABLE7_12", quantity="")
Int1d	HK_00 (description="HK_00", quantity="")
Int1d	HK_01 (description="HK_01", quantity="")
Int1d	HK_02 (description="HK_02", quantity="")
Int1d	HK_03 (description="HK_03", quantity="")
Int1d	HK_04 (description="HK_04", quantity="")
Int1d	HK_05 (description="HK_05", quantity="")
Int1d	HK_06 (description="HK_06", quantity="")
Int1d	HK_07 (description="HK_07", quantity="")
Int1d	HK_08 (description="HK_08", quantity="")
Int1d	HK_09 (description="HK_09", quantity="")
Int1d	HK_10 (description="HK_10", quantity="")
Int1d	HK_11 (description="HK_11", quantity="")
Int1d	HK_12 (description="HK_12", quantity="")
Int1d	HK_13 (description="HK_13", quantity="")
Int1d	HK_14 (description="HK_14", quantity="")
Int1d	HK_15 (description="HK_15", quantity="")
Int1d	HK_16 (description="HK_16", quantity="")
Int1d	HK_17 (description="HK_17", quantity="")

Int1d	HK_18 (description="HK_18", quantity="")
Int1d	HK_19 (description="HK_19", quantity="")
Int1d	HK_20 (description="HK_20", quantity="")
Int1d	HK_21 (description="HK_21", quantity="")
Int1d	HK_22 (description="HK_22", quantity="")
Int1d	HK_23 (description="HK_23", quantity="")
table dataset	*(description="Mask timelines")*
Metadata	
Double1d	sampleTime (description="Sample time", quantity="TAI")
Int1d	NHK_VERS (description="NHK_VERS", quantity="")
Int1d	NHK_TYPE (description="NHK_TYPE", quantity="")
Int1d	NHK_DFHFLAG (description="NHK_DFHFLAG", quantity="")
Int1d	NHK_APID (description="NHK_APID", quantity="")
Int1d	NHK_SEGFLAG (description="NHK_SEGFLAG", quantity="")
Int1d	NHK_SSC (description="NHK_SSC", quantity="")
Int1d	NHK_PKTLEN (description="NHK_PKTLEN", quantity="")
Int1d	NHK_PUSVERS (description="NHK_PUSVERS", quantity="")
Int1d	NHK_PKTTYPE (description="NHK_PKTTYPE", quantity="")
Int1d	NHK_PKTSTYPE (description="NHK_PKTSTYPE", quantity="")
Int1d	NHK_PKTCTIME (description="NHK_PKTCTIME", quantity="")
Int1d	NHK_PKTFTIME (description="NHK_PKTFTIME", quantity="")
Int1d	BBFULLTYPE (description="BBFULLTYPE", quantity="")
Int1d	MODE (description="MODE", quantity="")
Int1d	STEP (description="STEP", quantity="")
Int1d	THSK (description="THSK", quantity="")
Int1d	TRESET (description="TRESET", quantity="")
Int1d	TCRECV (description="TCRECV", quantity="")
Int1d	TCRECN (description="TCRECN", quantity="")
Int1d	TCEXEC (description="TCEXEC", quantity="")
Int1d	TCEXEN (description="TCEXEN", quantity="")
Int1d	TM1N (description="TM1N", quantity="")
Int1d	TM2N (description="TM2N", quantity="")
Int1d	TM3N (description="TM3N", quantity="")
Int1d	TM4N (description="TM4N", quantity="")
Int1d	TM5N (description="TM5N", quantity="")
Int1d	DCUFRAMECNT (description="DCUFRAMECNT", quantity="")
Int1d	MCUFRAMECNT (description="MCUFRAMECNT", quantity="")
Int1d	SCUFRAMECNT (description="SCUFRAMECNT", quantity="")
Int1d	TSYNC (description="TSYNC", quantity="")
Int1d	TDIFF (description="TDIFF", quantity="")
Int1d	MEMSTAT_1 (description="MEMSTAT_1", quantity="")

Int1d	MEMSTAT_2 (description="MEMSTAT_2", quantity="")
Int1d	MEMSTAT_3 (description="MEMSTAT_3", quantity="")
Int1d	MONSTAT (description="MONSTAT", quantity="")
Int1d	DCULSIFSTAT (description="DCULSIFSTAT", quantity="")
Int1d	DCUHSIFMODE (description="DCUHSIFMODE", quantity="")
Int1d	MCULSIFSTAT (description="MCULSIFSTAT", quantity="")
Int1d	MCUHSIFMODE (description="MCUHSIFMODE", quantity="")
Int1d	SCULSIFSTAT (description="SCULSIFSTAT", quantity="")
Int1d	SCUHSMODE (description="SCUHSMODE", quantity="")
Int1d	BBCOUNT (description="BBCOUNT", quantity="")
Int1d	VMSTAT (description="VMSTAT", quantity="")
Int1d	VM1STAT (description="VM1STAT", quantity="")
Int1d	VM2STAT (description="VM2STAT", quantity="")
Int1d	VM3STAT (description="VM3STAT", quantity="")
Int1d	VMSTATAFX (description="VMSTATAFX", quantity="")
Int1d	SD_VALUE0 (description="SD_VALUE0", quantity="")
Int1d	SD_ADDRESS0 (description="SD_ADDRESS0", quantity="")
Int1d	SD_VALUE1 (description="SD_VALUE1", quantity="")
Int1d	SD_ADDRESS1 (description="SD_ADDRESS1", quantity="")
Int1d	SD_VALUE2 (description="SD_VALUE2", quantity="")
Int1d	SD_ADDRESS2 (description="SD_ADDRESS2", quantity="")
Int1d	SD_VALUE3 (description="SD_VALUE3", quantity="")
Int1d	SD_ADDRESS3 (description="SD_ADDRESS3", quantity="")
Int1d	DPUP5V (description="DPUP5V", quantity="")
Int1d	DPUP15V (description="DPUP15V", quantity="")
Int1d	DPUM15V (description="DPUM15V", quantity="")
Int1d	DPUTEMP (description="DPUTEMP", quantity="")
Int1d	CPULOAD (description="CPULOAD", quantity="")
Int1d	LSLOAD (description="LSLOAD", quantity="")
Int1d	DPUP2_5V (description="DPUP2_5V", quantity="")
Int1d	DCUDATAMODE (description="DCUDATAMODE", quantity="")
Int1d	DCUDATAFRMS (description="DCUDATAFRMS", quantity="")
Int1d	DCUDATASTAT (description="DCUDATASTAT", quantity="")
Int1d	PHOTBIASDIV (description="PHOTBIASDIV", quantity="")
Int1d	PHOTBIASMODE (description="PHOTBIASMODE", quantity="")
Int1d	PHOTMCLKDIV (description="PHOTMCLKDIV", quantity="")
Int1d	PSWBIAS (description="PSWBIAS", quantity="")
Int1d	PMWBIAS (description="PMWBIAS", quantity="")
Int1d	PLWBIAS (description="PLWBIAS", quantity="")
Int1d	TCBIAS (description="TCBIAS", quantity="")
Int1d	PSWPHASE (description="PSWPHASE", quantity="")
Int1d	PMWPHASE (description="PMWPHASE", quantity="")

Int1d	PLWPHASE (description="PLWPHASE", quantity="")
Int1d	TCPHASE (description="TCPHASE", quantity="")
Int1d	PSWJFETSTAT (description="PSWJFETSTAT", quantity="")
Int1d	PSW_VDD_JFET1 (description="PSW_VDD_JFET1", quantity="")
Int1d	PSW_VDD_JFET2 (description="PSW_VDD_JFET2", quantity="")
Int1d	PSW_VDD_JFET3 (description="PSW_VDD_JFET3", quantity="")
Int1d	PSW_VDD_JFET4 (description="PSW_VDD_JFET4", quantity="")
Int1d	PSW_VDD_JFET5 (description="PSW_VDD_JFET5", quantity="")
Int1d	PSW_VDD_JFET6 (description="PSW_VDD_JFET6", quantity="")
Int1d	PMLWJFETSTAT (description="PMLWJFETSTAT", quantity="")
Int1d	PMW_VDD_JFET1 (description="PMW_VDD_JFET1", quantity="")
Int1d	PMW_VDD_JFET2 (description="PMW_VDD_JFET2", quantity="")
Int1d	PMW_VDD_JFET3 (description="PMW_VDD_JFET3", quantity="")
Int1d	PMW_VDD_JFET4 (description="PMW_VDD_JFET4", quantity="")
Int1d	PLW_VDD_JFET1 (description="PLW_VDD_JFET1", quantity="")
Int1d	PLW_VDD_JFET2 (description="PLW_VDD_JFET2", quantity="")
Int1d	TC_VDD_JFET (description="TC_VDD_JFET", quantity="")
Int1d	PSWJFET1V (description="PSWJFET1V", quantity="")
Int1d	PSWJFET2V (description="PSWJFET2V", quantity="")
Int1d	PSWJFET3V (description="PSWJFET3V", quantity="")
Int1d	PSWJFET4V (description="PSWJFET4V", quantity="")
Int1d	PSWJFET5V (description="PSWJFET5V", quantity="")
Int1d	PSWJFET6V (description="PSWJFET6V", quantity="")
Int1d	PMWJFET1V (description="PMWJFET1V", quantity="")
Int1d	PMWJFET2V (description="PMWJFET2V", quantity="")
Int1d	PMWJFET3V (description="PMWJFET3V", quantity="")
Int1d	PMWJFET4V (description="PMWJFET4V", quantity="")
Int1d	PLWJFET1V (description="PLWJFET1V", quantity="")
Int1d	PLWJFET2V (description="PLWJFET2V", quantity="")
Int1d	PHOTHTRV (description="PHOTHTRV", quantity="")
Int1d	TCJFETV (description="TCJFETV", quantity="")
Int1d	SPECBIASDIV (description="SPECBIASDIV", quantity="")
Int1d	SPECBIASMODE (description="SPECBIASMODE", quantity="")
Int1d	SPECMCLKDIV (description="SPECMCLKDIV", quantity="")
Int1d	SSWBIAS (description="SSWBIAS", quantity="")
Int1d	SLWBIAS (description="SLWBIAS", quantity="")
Int1d	SSWPHASE (description="SSWPHASE", quantity="")
Int1d	SLWPHASE (description="SLWPHASE", quantity="")
Int1d	SPECJFETSTAT (description="SPECJFETSTAT", quantity="")
Int1d	SLW_VDD_JFET1 (description="SLW_VDD_JFET1", quantity="")
Int1d	SSW_VDD_JFET1 (description="SSW_VDD_JFET1", quantity="")
Int1d	SSW_VDD_JFET2 (description="SSW_VDD_JFET2", quantity="")

Int1d	SSWJFET1V (description="SSWJFET1V", quantity="")
Int1d	SSWJFET2V (description="SSWJFET2V", quantity="")
Int1d	SLWJFET1V (description="SLWJFET1V", quantity="")
Int1d	SPECHTRV (description="SPECHTRV", quantity="")
Int1d	TC1TEMP (description="TC1TEMP", quantity="")
Int1d	TC2TEMP (description="TC2TEMP", quantity="")
Int1d	TC3TEMP (description="TC3TEMP", quantity="")
Int1d	BIASP5V (description="BIASP5V", quantity="")
Int1d	BIASP9V (description="BIASP9V", quantity="")
Int1d	BIASM9V (description="BIASM9V", quantity="")
Int1d	OBSVER (description="OBSVER", quantity="")
Int1d	OBSVER1 (description="OBSVER1", quantity="")
Int1d	OBSVER2 (description="OBSVER2", quantity="")
Int1d	OBSVER3 (description="OBSVER3", quantity="")
Int1d	TMMODE (description="TMMODE", quantity="")
Int1d	FIFO_DF_FLAG (description="FIFO_DF_FLAG", quantity="")
Int1d	PLIAP5V (description="PLIAP5V", quantity="")
Int1d	PLIAP9V (description="PLIAP9V", quantity="")
Int1d	PLIAM9V (description="PLIAM9V", quantity="")
Int1d	SLIAP5V (description="SLIAP5V", quantity="")
Int1d	SLIAP9V (description="SLIAP9V", quantity="")
Int1d	SLIAM9V (description="SLIAM9V", quantity="")
Int1d	LIAP9TEMP (description="LIAP9TEMP", quantity="")
Int1d	LIAP8TEMP (description="LIAP8TEMP", quantity="")
Int1d	LIAP7TEMP (description="LIAP7TEMP", quantity="")
Int1d	LIAP6TEMP (description="LIAP6TEMP", quantity="")
Int1d	LIAP5TEMP (description="LIAP5TEMP", quantity="")
Int1d	LIAP4TEMP (description="LIAP4TEMP", quantity="")
Int1d	LIAP3TEMP (description="LIAP3TEMP", quantity="")
Int1d	LIAP2TEMP (description="LIAP2TEMP", quantity="")
Int1d	LIAP1TEMP (description="LIAP1TEMP", quantity="")
Int1d	LIAS1TEMP (description="LIAS1TEMP", quantity="")
Int1d	LIAS2TEMP (description="LIAS2TEMP", quantity="")
Int1d	LIAS3TEMP (description="LIAS3TEMP", quantity="")
Int1d	BIASTEMP (description="BIASTEMP", quantity="")
Int1d	DAQTEMP (description="DAQTEMP", quantity="")
Int1d	LIASTAT (description="LIASTAT", quantity="")
Int1d	LIAP1STAT (description="LIAP1STAT", quantity="")
Int1d	LIAP2STAT (description="LIAP2STAT", quantity="")
Int1d	LIAP3STAT (description="LIAP3STAT", quantity="")
Int1d	LIAP4STAT (description="LIAP4STAT", quantity="")
Int1d	LIAP5STAT (description="LIAP5STAT", quantity="")

Int1d	LIAP6STAT (description="LIAP6STAT", quantity="")
Int1d	LIAP7STAT (description="LIAP7STAT", quantity="")
Int1d	LIAP8STAT (description="LIAP8STAT", quantity="")
Int1d	LIAP9STAT (description="LIAP9STAT", quantity="")
Int1d	LIAS1STAT (description="LIAS1STAT", quantity="")
Int1d	LIAS2STAT (description="LIAS2STAT", quantity="")
Int1d	LIAS3STAT (description="LIAS3STAT", quantity="")
Int1d	MCUIFSTAT (description="MCUIFSTAT", quantity="")
Int1d	MCUIFCTRL (description="MCUIFCTRL", quantity="")
Int1d	MCUSSDEL (description="MCUSSDEL", quantity="")
Int1d	MCUP5V (description="MCUP5V", quantity="")
Int1d	MCUP14V (description="MCUP14V", quantity="")
Int1d	MCUM14V (description="MCUM14V", quantity="")
Int1d	MCUP15V (description="MCUP15V", quantity="")
Int1d	MCUM15V (description="MCUM15V", quantity="")
Int1d	MCUMACTEMP (description="MCUMACTEMP", quantity="")
Int1d	MCUSMECTEMP (description="MCUSMECTEMP", quantity="")
Int1d	MCUBSMTEMP (description="MCUBSMTEMP", quantity="")
Int1d	MCUERR (description="MCUERR", quantity="")
Int1d	MCUSCHEDCNTLSW (description="MCUSCHEDCNTLSW", quantity="")
Int1d	MCUSCHEDCNTMSW (description="MCUSCHEDCNTMSW", quantity="")
Int1d	MCUTM10TSAMPLE (description="MCUTM10TSAMPLE", quantity="")
Int1d	MCUFRAMESTART (description="MCUFRAMESTART", quantity="")
Int1d	MCUTM12TSAMPLE (description="MCUTM12TSAMPLE", quantity="")
Int1d	MCUFRAMES (description="MCUFRAMES", quantity="")
Int1d	MCUTM14TSAMPLE (description="MCUTM14TSAMPLE", quantity="")
Int1d	MCUTM15TSAMPLE (description="MCUTM15TSAMPLE", quantity="")
Int1d	MCUTMSTATUS (description="MCUTMSTATUS", quantity="")
Int1d	MCUBOOTSTAT (description="MCUBOOTSTAT", quantity="")
Int1d	MCUDLOADCONF (description="MCUDLOADCONF", quantity="")
Int1d	SMECLOSTCOUNT (description="SMECLOSTCOUNT", quantity="")
Int1d	SMECENCPWR (description="SMECENCPWR", quantity="")
Int1d	SMECLVDTPWR (description="SMECLVDTPWR", quantity="")
Int1d	SMECLATCHSTAT (description="SMECLATCHSTAT", quantity="")
Int1d	SMECLOOPMODE (description="SMECLOOPMODE", quantity="")
Int1d	SCANSTART (description="SCANSTART", quantity="")

Int1d	SCANEND (description="SCANEND", quantity="")
Int1d	SCANFSPEED (description="SCANFSPEED", quantity="")
Int1d	SCANS (description="SCANS", quantity="")
Int1d	SCANMODE (description="SCANMODE", quantity="")
Int1d	SMECKP (description="SMECKP", quantity="")
Int1d	SMECKD (description="SMECKD", quantity="")
Int1d	SMECDFILT (description="SMECDFILT", quantity="")
Int1d	SMECKI (description="SMECKI", quantity="")
Int1d	SMECINTLIMIT (description="SMECINTLIMIT", quantity="")
Int1d	SMECINTTHRESH (description="SMECINTTHRESH", quantity="")
Int1d	SMECRATELIMIT (description="SMECRATELIMIT", quantity="")
Int1d	SMECDFILT2 (description="SMECDFILT2", quantity="")
Int1d	SMECFFGAIN (description="SMECFFGAIN", quantity="")
Int1d	SMECFFOFFSET (description="SMECFFOFFSET", quantity="")
Int1d	SCANRSPEED (description="SCANRSPEED", quantity="")
Int1d	SMECBEMFGAIN (description="SMECBEMFGAIN", quantity="")
Int1d	SMECMOTORRES (description="SMECMOTORRES", quantity="")
Int1d	SMECMOTORBEMF (description="SMECMOTORBEMF", quantity="")
Int1d	SMECRATESCALE (description="SMECRATESCALE", quantity="")
Int1d	SMECLVDTOFFSET (description="SMECLVDTOFFSET", quantity="")
Int1d	SMECLVDTSCALE (description="SMECLVDTSCALE", quantity="")
Int1d	SMECSTAT (description="SMECSTAT", quantity="")
Int1d	SMECFLAG (description="SMECFLAG", quantity="")
Int1d	SMECLVDTSIGN (description="SMECLVDTSIGN", quantity="")
Int1d	SMECINIT (description="SMECINIT", quantity="")
Int1d	SMECSCANDIR (description="SMECSCANDIR", quantity="")
Int1d	SMECSCANCNT (description="SMECSCANCNT", quantity="")
Int1d	SMECENCPOSN (description="SMECENCPOSN", quantity="")
Int1d	SMECENCSIG1 (description="SMECENCSIG1", quantity="")
Int1d	SMECENCSIG2 (description="SMECENCSIG2", quantity="")
Int1d	SMECENCSIG3 (description="SMECENCSIG3", quantity="")
Int1d	SMECLVDTPOSN (description="SMECLVDTPOSN", quantity="")
Int1d	SMECLVDTACSIG (description="SMECLVDTACSIG", quantity="")
Int1d	SMECLVDTDCSIG (description="SMECLVDTDCSIG", quantity="")
Int1d	SMECTRAJPOSN (description="SMECTRAJPOSN", quantity="")
Int1d	SMECDACVAL (description="SMECDACVAL", quantity="")
Int1d	SMECPOSNDELTA (description="SMECPOSNDELTA", quantity="")
Int1d	SMECENCFINEPOSN (description="SMECENCFINEPOSN", quantity="")
Int1d	SMECMEANSPEED (description="SMECMEANSPEED", quantity="")

Int1d	SMECSCANPOSNERR (description="SMECSCANPOSNERR", quantity="")
Int1d	SMECMOTORCURR (description="SMECMOTORCURR", quantity="")
Int1d	SMECMOTORVOLT (description="SMECMOTORVOLT", quantity="")
Int1d	SMECENCSIG1AMP (description="SMECENCSIG1AMP", quantity="")
Int1d	SMECENCSIG1OFF (description="SMECENCSIG1OFF", quantity="")
Int1d	SMECENCSIG2AMP (description="SMECENCSIG2AMP", quantity="")
Int1d	SMECENCSIG2OFF (description="SMECENCSIG2OFF", quantity="")
Int1d	SMECENCSIG3AMP (description="SMECENCSIG3AMP", quantity="")
Int1d	SMECENCSIG3OFF (description="SMECENCSIG3OFF", quantity="")
Int1d	CHOPSENSPWR (description="CHOPSENSPWR", quantity="")
Int1d	CHOPLOOPMODE (description="CHOPLOOPMODE", quantity="")
Int1d	CHOPPOSN (description="CHOPPOSN", quantity="")
Int1d	CHOPPOSN2 (description="CHOPPOSN2", quantity="")
Int1d	BSMMODE (description="BSMMODE", quantity="")
Int1d	CHOPFFOFFSET (description="CHOPFFOFFSET", quantity="")
Int1d	CHOPKP (description="CHOPKP", quantity="")
Int1d	CHOPKD (description="CHOPKD", quantity="")
Int1d	CHOPKI (description="CHOPKI", quantity="")
Int1d	CHOPINTREF (description="CHOPINTREF", quantity="")
Int1d	CHOPINTLIMIT (description="CHOPINTLIMIT", quantity="")
Int1d	CHOPFFGAIN (description="CHOPFFGAIN", quantity="")
Int1d	CHOPFFGAINDIFF (description="CHOPFFGAINDIFF", quantity="")
Int1d	CHOPDIFFTC1 (description="CHOPDIFFTC1", quantity="")
Int1d	CHOPDIFFTC2 (description="CHOPDIFFTC2", quantity="")
Int1d	CHOPRATELIMIT (description="CHOPRATELIMIT", quantity="")
Int1d	CHOPMOTBEMFGAIN (description="CHOPMOTBEMFGAIN", quantity="")
Int1d	CHOPMOTRES (description="CHOPMOTRES", quantity="")
Int1d	CHOPMOTIND (description="CHOPMOTIND", quantity="")
Int1d	CHOPRATESCALE (description="CHOPRATESCALE", quantity="")

Int1d	CHOPPOSNSCALE (description="CHOPPOSNSCALE", quantity="")
Int1d	CHOPBEMFRATFIL1 (description="CHOPBEMFRATFIL1", quantity="")
Int1d	CHOPBEMFRATFIL2 (description="CHOPBEMFRATFIL2", quantity="")
Int1d	CHOPJIGGCOUPLE (description="CHOPJIGGCOUPLE", quantity="")
Int1d	BSMSTAT (description="BSMSTAT", quantity="")
Int1d	CHOPPOSNERR (description="CHOPPOSNERR", quantity="")
Int1d	CHOPSENSSIG (description="CHOPSENSSIG", quantity="")
Int1d	CHOPDACVAL (description="CHOPDACVAL", quantity="")
Int1d	CHOPMOTORCURR (description="CHOPMOTORCURR", quantity="")
Int1d	CHOPMOTORVOLT (description="CHOPMOTORVOLT", quantity="")
Int1d	JIGGSENSPWR (description="JIGGSENSPWR", quantity="")
Int1d	JIGGLOOPMODE (description="JIGGLOOPMODE", quantity="")
Int1d	JIGGPOSN (description="JIGGPOSN", quantity="")
Int1d	JIGGPOSN2 (description="JIGGPOSN2", quantity="")
Int1d	JIGGFFOFFSET (description="JIGGFFOFFSET", quantity="")
Int1d	JIGGKP (description="JIGGKP", quantity="")
Int1d	JIGGKD (description="JIGGKD", quantity="")

Int1d	JIGGKI (description="JIGGKI", quanti-ty="")
Int1d	JIGGINTREF (description="JIGGINTREF", quantity="")
Int1d	JIGGINTLIMIT (description="JIGGINTLIMIT", quantity="")
Int1d	JIGGFFGAIN (description="JIGGFFGAIN", quantity="")
Int1d	JIGGFFGAINDIFF (description="JIGGFFGAINDIFF", quantity="")
Int1d	JIGGDIFFTC1 (description="JIGGDIFFTC1", quantity="")
Int1d	JIGGDIFFTC2 (description="JIGGDIFFTC2", quantity="")
Int1d	JIGGRATELIMIT (description="JIGGRATELIMIT", quantity="")
Int1d	JIGGMOTBEMFGAIN (description="JIGGMOTBEMFGAIN", quantity="")
Int1d	JIGGMOTRES (description="JIGGMOTRES", quantity="")
Int1d	JIGGMOTIND (description="JIGGMOTIND", quantity="")
Int1d	JIGGRATESCALE (description="JIGGRATESCALE", quantity="")
Int1d	JIGGPOSNSCALE (description="JIGGPOSNSCALE", quantity="")
Int1d	JIGGBEMFRATFIL1 (description="JIGGBEMFRATFIL1", quantity="")
Int1d	JIGGBEMFRATFIL2 (description="JIGGBEMFRATFIL2", quantity="")
Int1d	JIGGCHOPCOUPLE (description="JIGGCHOPCOUPLE", quantity="")
Int1d	JIGGPOSNERR (description="JIGGPOSNERR", quantity="")

Int1d	JIGGSENSSIG (description="JIGGSENSSIG", quantity="")
Int1d	JIGGDACVAL (description="JIGGDACVAL", quantity="")
Int1d	JIGGMOTORCURR (description="JIGGMOTORCURR", quantity="")
Int1d	JIGGMOTORVOLT (description="JIGGMOTORVOLT", quantity="")
Int1d	MCUPCKT10PARM05 (description="MCUPCKT10PARM05", quantity="")
Int1d	MCUPCKT10PARM01 (description="MCUPCKT10PARM01", quantity="")
Int1d	MCUPCKT10PARM02 (description="MCUPCKT10PARM02", quantity="")
Int1d	MCUPCKT10PARM03 (description="MCUPCKT10PARM03", quantity="")
Int1d	MCUPCKT10PARM04 (description="MCUPCKT10PARM04", quantity="")
Int1d	MCUPCKT12PARM01 (description="MCUPCKT12PARM01", quantity="")
Int1d	MCUPCKT12PARM02 (description="MCUPCKT12PARM02", quantity="")
Int1d	MCUPCKT12PARM03 (description="MCUPCKT12PARM03", quantity="")
Int1d	MCUPCKT12PARM04 (description="MCUPCKT12PARM04", quantity="")
Int1d	MCUPCKT12PARM05 (description="MCUPCKT12PARM05", quantity="")
Int1d	MCUPCKT12PARM06 (description="MCUPCKT12PARM06", quantity="")
Int1d	MCUPCKT14PARM01 (description="MCUPCKT14PARM01", quantity="")
Int1d	MCUPCKT14PARM02 (description="MCUPCKT14PARM02", quantity="")

Int1d	MCUPCKT14PARM03 (description="MCUPCKT14PARM03", quantity="")
Int1d	MCUPCKT14PARM04 (description="MCUPCKT14PARM04", quantity="")
Int1d	MCUPCKT14PARM05 (description="MCUPCKT14PARM05", quantity="")
Int1d	MCUPCKT14PARM06 (description="MCUPCKT14PARM06", quantity="")
Int1d	MCUPCKT14PARM07 (description="MCUPCKT14PARM07", quantity="")
Int1d	MCUPCKT14PARM08 (description="MCUPCKT14PARM08", quantity="")
Int1d	MCUPCKT14PARM09 (description="MCUPCKT14PARM09", quantity="")
Int1d	MCUPCKT14PARM10 (description="MCUPCKT14PARM10", quantity="")
Int1d	MCUPCKT14PARM11 (description="MCUPCKT14PARM11", quantity="")
Int1d	MCUPCKT14PARM12 (description="MCUPCKT14PARM12", quantity="")
Int1d	MCUPCKT14PARM13 (description="MCUPCKT14PARM13", quantity="")
Int1d	MCUPCKT14PARM14 (description="MCUPCKT14PARM14", quantity="")
Int1d	SCUIFSTAT (description="SCUIFSTAT", quantity="")
Int1d	SCUIFCTRL (description="SCUIFCTRL", quantity="")
Int1d	SCUSSDEL (description="SCUSSDEL", quantity="")
Int1d	SCUSTAT (description="SCUSTAT", quantity="")
Int1d	SCUTEMPSTAT (description="SCUTEMPSTAT", quantity="")

Int1d	SCUDCDCSTAT (description="SCUDCDCSTAT", quantity="")
Int1d	PLIABITSTAT (description="PLIABITSTAT", quantity="")
Int1d	SLIABITSTAT (description="SLIABITSTAT", quantity="")
Int1d	MCUBITSTAT (description="MCUBITSTAT", quantity="")
Int1d	SCUP5V (description="SCUP5V", quantity="")
Int1d	SCUP9V (description="SCUP9V", quantity="")
Int1d	SCUM9V (description="SCUM9V", quantity="")
Int1d	EVHSV (description="EVHSV", quantity="")
Int1d	SPHSV (description="SPHSV", quantity="")
Int1d	TCHTRV (description="TCHTRV", quantity="")
Int1d	SPHTRV (description="SPHTRV", quantity="")
Int1d	CCUTEMP (description="CCUTEMP", quantity="")
Int1d	TCUTEMP (description="TCUTEMP", quantity="")
Int1d	PSUTEMP1 (description="PSUTEMP1", quantity="")
Int1d	SCUFRAMECONF (description="SCUFRAMECONF", quantity="")
Int1d	SCUFRAMES (description="SCUFRAMES", quantity="")
Int1d	SCUFRAMESTAT (description="SCUFRAMESTAT", quantity="")

Int1d	SCUCTRL (description="SCUCTRL", quantity="")
Int1d	PCALV (description="PCALV", quantity="")
Int1d	SCAL2V (description="SCAL2V", quantity="")
Int1d	SCAL4V (description="SCAL4V", quantity="")
Int1d	SCUCHT2_5V (description="SCUCHT2_5V", quantity="")
Int1d	SCUCHTREF (description="SCUCHTREF", quantity="")
Int1d	SCUCHTGND (description="SCUCHTGND", quantity="")
Int1d	PCALCURR (description="PCALCURR", quantity="")
Int1d	SCAL2CURR (description="SCAL2CURR", quantity="")
Int1d	SCAL4CURR (description="SCAL4CURR", quantity="")
Int1d	PSUTEMP2 (description="PSUTEMP2", quantity="")
Int1d	SUBKSTAT (description="SUBKSTAT", quantity="")
Int1d	PUMPHTRTEMP (description="PUMPHTRTEMP", quantity="")
Int1d	PUMPHSTEMP (description="PUMPHSTEMP", quantity="")
Int1d	EVAPHSTEMP (description="EVAPHSTEMP", quantity="")
Int1d	SHUNTTEMP (description="SHUNTTEMP", quantity="")
Int1d	EMCFILTEMP (description="EMCFILTEMP", quantity="")

Int1d	SL0TEMP (description="SL0TEMP", quantity="")
Int1d	PL0TEMP (description="PL0TEMP", quantity="")
Int1d	OPTTEMP (description="OPTTEMP", quantity="")
Int1d	BAFTEMP (description="BAFTEMP", quantity="")
Int1d	BSMIFTEMP (description="BSMIFTEMP", quantity="")
Int1d	SCAL2TEMP (description="SCAL2TEMP", quantity="")
Int1d	SCAL4TEMP (description="SCAL4TEMP", quantity="")
Int1d	SCALTEMP (description="SCALTEMP", quantity="")
Int1d	SMECIFTEMP (description="SMECIFTEMP", quantity="")
Int1d	SMECTEMP (description="SMECTEMP", quantity="")
Int1d	BSMTEMP (description="BSMTEMP", quantity="")
Int1d	SUBKTEMP (description="SUBKTEMP", quantity="")
Int1d	SCUTHTREF (description="SCUTHTREF", quantity="")
Int1d	SCUTHTGND (description="SCUTHTGND", quantity="")
Int1d	LOSTTCBLOCK (description="LOSTTCBLOCK", quantity="")
Int1d	LOSTEVBLOCK (description="LOSTEVBLOCK", quantity="")
Int1d	LOSTHKBLOCK (description="LOSTHKBLOCK", quantity="")

Int1d	LOSTSDBLOCK (description="LOSTSDBLOCK", quantity="")
Int1d	LOSTNTBLOCK (description="LOSTNTBLOCK", quantity="")
Int1d	LS_HP_FIFOSTAT (description="LS_HP_FIFOSTAT", quantity="")
Int1d	LS_LP_FIFOSTAT (description="LS_LP_FIFOSTAT", quantity="")
Int1d	MCUPCKT10STAT (description="MCUPCKT10STAT", quantity="")
Int1d	MCUPCKT12STAT (description="MCUPCKT12STAT", quantity="")
Int1d	MCUPCKT14STAT (description="MCUPCKT14STAT", quantity="")
Int1d	MCUPCKT15STAT (description="MCUPCKT15STAT", quantity="")
Int1d	MCURAMINTEGRITY (description="MCURAMINTEGRITY", quantity="")
Int1d	MCURAMTSTPROG (description="MCURAMTSTPROG", quantity="")
Int1d	MCURAMTSTDATA (description="MCURAMTSTDATA", quantity="")
Int1d	MCUPROM2RAMCOPY (description="MCUPROM2RAMCOPY", quantity="")
Int1d	MCUBOOTMODE (description="MCUBOOTMODE", quantity="")
Int1d	SMECSELECTTAB (description="SMECSELECTTAB", quantity="")
Int1d	CREC_STEP (description="CREC_STEP", quantity="")
Int1d	PTC_STAGE (description="PTC_STAGE", quantity="")
Int1d	SCAL_STAGE (description="SCAL_STAGE", quantity="")

Int1d	JIGGLE_STEP (description="JIGGLE_STEP", quantity="")
Int1d	LOSTRPBLOCK (description="LOSTRPBLOCK", quantity="")
Int1d	LIAFAILCOUNT (description="LIAFAILCOUNT", quantity="")
Int1d	SCANRES (description="SCANRES", quantity="")
Int1d	TABLE7_07_LWORD (description="TABLE7_07_LWORD", quantity="")
Int1d	TABLE7_08_LWORD (description="TABLE7_08_LWORD", quantity="")
Int1d	TABLE7_09_LWORD (description="TABLE7_09_LWORD", quantity="")
Int1d	TABLE7_10 (description="TABLE7_10", quantity="")
Int1d	TABLE7_11 (description="TABLE7_11", quantity="")
Int1d	TABLE7_12 (description="TABLE7_12", quantity="")
Int1d	HK_00 (description="HK_00", quantity="")
Int1d	HK_01 (description="HK_01", quantity="")
Int1d	HK_02 (description="HK_02", quantity="")
Int1d	HK_03 (description="HK_03", quantity="")
Int1d	HK_04 (description="HK_04", quantity="")
Int1d	HK_05 (description="HK_05", quantity="")
Int1d	HK_06 (description="HK_06", quantity="")
Int1d	HK_07 (description="HK_07", quantity="")
Int1d	HK_08 (description="HK_08", quantity="")
Int1d	HK_09 (description="HK_09", quantity="")

Int1d	HK_10 (description="HK_10", quantity="")
Int1d	HK_11 (description="HK_11", quantity="")
Int1d	HK_12 (description="HK_12", quantity="")
Int1d	HK_13 (description="HK_13", quantity="")
Int1d	HK_14 (description="HK_14", quantity="")
Int1d	HK_15 (description="HK_15", quantity="")
Int1d	HK_16 (description="HK_16", quantity="")
Int1d	HK_17 (description="HK_17", quantity="")
Int1d	HK_18 (description="HK_18", quantity="")
Int1d	HK_19 (description="HK_19", quantity="")
Int1d	HK_20 (description="HK_20", quantity="")
Int1d	HK_21 (description="HK_21", quantity="")
Int1d	HK_22 (description="HK_22", quantity="")
Int1d	HK_23 (description="HK_23", quantity="")

11.2.6. CHKT: Critical Housekeeping Timeline

product (type="CHKT", description="Critical House Keeping Timeline")	
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	formatVersion (description="Version of product format")
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="Observation identifier")
StringParameter	obsMode (description="Observation mode name")
LongParameter	odNumber (description="Operational day number")
StringParameter	origin (description="Site that created the product")
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")
StringParameter	level (description="The level of the product")
table dataset	*(description="Signal timelines")*
Metadata	
Double1d	sampleTime (description="Sample time", quantity="TAI")
Int1d	SID_C (description="SID_C", quantity="")
Long1d	OBSID_C (description="OBSID_C", quantity="")
Long1d	BBID_C (description="BBID_C", quantity="")
Int1d	MODE_C (description="MODE_C", quantity="")
Int1d	STEP_C (description="STEP_C", quantity="")
Int1d	TCRECV_C (description="TCRECV_C", quantity="")
Int1d	TCEXEC_C (description="TCEXEC_C", quantity="")
String1d	MEMSTAT1_C (description="MEMSTAT1_C", quantity="")
String1d	MEMSTAT2_C (description="MEMSTAT2_C", quantity="")
String1d	MEMSTAT3_C (description="MEMSTAT3_C", quantity="")
String1d	MONSTAT_C (description="MONSTAT_C", quantity="")
String1d	SCUDCDCSTAT_C (description="SCUDCDCSTAT_C", quantity="")
String1d	MCUIFSTAT_C (description="MCUIFSTAT_C", quantity="")
String1d	SCUIFSTAT_C (description="SCUIFSTAT_C", quantity="")
String1d	PSWJFETSTAT_C (description="PSWJFETSTAT_C", quantity="")
String1d	PSW_VDD_JFET1_C (description="PSW_VDD_JFET1_C", quantity="")
String1d	PSW_VDD_JFET2_C (description="PSW_VDD_JFET2_C", quantity="")
String1d	PSW_VDD_JFET3_C (description="PSW_VDD_JFET3_C", quantity="")

String1d	PSW_VDD_JFET4_C (description="PSW_VDD_JFET4_C", quantity="")
String1d	PSW_VDD_JFET5_C (description="PSW_VDD_JFET5_C", quantity="")
String1d	PSW_VDD_JFET6_C (description="PSW_VDD_JFET6_C", quantity="")
String1d	PMLWJFETSTAT_C (description="PMLWJFETSTAT_C", quantity="")
String1d	PMW_VDD_JFET1_C (description="PMW_VDD_JFET1_C", quantity="")
String1d	PMW_VDD_JFET2_C (description="PMW_VDD_JFET2_C", quantity="")
String1d	PMW_VDD_JFET3_C (description="PMW_VDD_JFET3_C", quantity="")
String1d	PMW_VDD_JFET4_C (description="PMW_VDD_JFET4_C", quantity="")
String1d	PLW_VDD_JFET1_C (description="PLW_VDD_JFET1_C", quantity="")
String1d	PLW_VDD_JFET2_C (description="PLW_VDD_JFET2_C", quantity="")
String1d	TC_VDD_JFET_C (description="TC_VDD_JFET_C", quantity="")
String1d	SPECJFETSTAT_C (description="SPECJFETSTAT_C", quantity="")
String1d	SLW_VDD_JFET1_C (description="SLW_VDD_JFET1_C", quantity="")
String1d	SSW_VDD_JFET1_C (description="SSW_VDD_JFET1_C", quantity="")
String1d	SSW_VDD_JFET2_C (description="SSW_VDD_JFET2_C", quantity="")
String1d	LIASTAT_C (description="LIASTAT_C", quantity="")
String1d	LIAP1STAT_C (description="LIAP1STAT_C", quantity="")
String1d	LIAP2STAT_C (description="LIAP2STAT_C", quantity="")
String1d	LIAP3STAT_C (description="LIAP3STAT_C", quantity="")
String1d	LIAP4STAT_C (description="LIAP4STAT_C", quantity="")
String1d	LIAP5STAT_C (description="LIAP5STAT_C", quantity="")
String1d	LIAP6STAT_C (description="LIAP6STAT_C", quantity="")
String1d	LIAP7STAT_C (description="LIAP7STAT_C", quantity="")
String1d	LIAP8STAT_C (description="LIAP8STAT_C", quantity="")
String1d	LIAP9STAT_C (description="LIAP9STAT_C", quantity="")
String1d	LIAS1STAT_C (description="LIAS1STAT_C", quantity="")
String1d	LIAS2STAT_C (description="LIAS2STAT_C", quantity="")
String1d	LIAS3STAT_C (description="LIAS3STAT_C", quantity="")
String1d	MCUERR_C (description="MCUERR_C", quantity="")
String1d	SMECSTAT_C (description="SMECSTAT_C", quantity="")
String1d	BSMSTAT_C (description="BSMSTAT_C", quantity="")
String1d	SCUSTAT_C (description="SCUSTAT_C", quantity="")

Double1d	SUBKTEMP_C (description="SUBKTEMP_C", quantity="K")
Int1d	OBSVER_C (description="OBSVER_C", quantity="")
Short1d	OBSVER1_C (description="OBSVER1_C", quantity="")
Short1d	OBSVER2_C (description="OBSVER2_C", quantity="")
String1d	OBSVER3_C (description="OBSVER3_C", quantity="")
String1d	CHK_VERS (description="CHK_VERS", quantity="")
String1d	CHK_TYPE (description="CHK_TYPE", quantity="")
String1d	CHK_DFHFLAG (description="CHK_DFHFLAG", quantity="")
Short1d	CHK_APID (description="CHK_APID", quantity="")
String1d	CHK_SEGFLAG (description="CHK_SEGFLAG", quantity="")
Short1d	CHK_SSC (description="CHK_SSC", quantity="")
Int1d	CHK_PKTLEN (description="CHK_PKTLEN", quantity="")
String1d	CHK_PUSVERS (description="CHK_PUSVERS", quantity="")
Short1d	CHK_PKTTYPE (description="CHK_PKTTYPE", quantity="")
Short1d	CHK_PKTSTYPE (description="CHK_PKTSTYPE", quantity="")
Long1d	CHK_PKTCTIME (description="CHK_PKTCTIME", quantity="")
Int1d	CHK_PKTFTIME (description="CHK_PKTFTIME", quantity="")
table dataset	*(description="Mask timelines")*
Metadata	
Double1d	sampleTime (description="Sample time", quantity="TAI")
Int1d	SID_C (description="SID_C", quantity="")
Int1d	OBSID_C (description="OBSID_C", quantity="")
Int1d	BBID_C (description="BBID_C", quantity="")
Int1d	MODE_C (description="MODE_C", quantity="")
Int1d	STEP_C (description="STEP_C", quantity="")
Int1d	TCRECV_C (description="TCRECV_C", quantity="")
Int1d	TCEXEC_C (description="TCEXEC_C", quantity="")
Int1d	MEMSTAT1_C (description="MEMSTAT1_C", quantity="")
Int1d	MEMSTAT2_C (description="MEMSTAT2_C", quantity="")
Int1d	MEMSTAT3_C (description="MEMSTAT3_C", quantity="")
Int1d	MONSTAT_C (description="MONSTAT_C", quantity="")
Int1d	SCUDCDCSTAT_C (description="SCUDCDCSTAT_C", quantity="")
Int1d	MCUIFSTAT_C (description="MCUIFSTAT_C", quantity="")
Int1d	SCUIFSTAT_C (description="SCUIFSTAT_C", quantity="")
Int1d	PSWJFETSTAT_C (description="PSWJFETSTAT_C", quantity="")
Int1d	PSW_VDD_JFET1_C (description="PSW_VDD_JFET1_C", quantity="")
Int1d	PSW_VDD_JFET2_C (description="PSW_VDD_JFET2_C", quantity="")
Int1d	PSW_VDD_JFET3_C (description="PSW_VDD_JFET3_C", quantity="")

Int1d	PSW_VDD_JFET4_C (description="PSW_VDD_JFET4_C", quantity="")
Int1d	PSW_VDD_JFET5_C (description="PSW_VDD_JFET5_C", quantity="")
Int1d	PSW_VDD_JFET6_C (description="PSW_VDD_JFET6_C", quantity="")
Int1d	PMLWJFETSTAT_C (description="PMLWJFETSTAT_C", quantity="")
Int1d	PMW_VDD_JFET1_C (description="PMW_VDD_JFET1_C", quantity="")
Int1d	PMW_VDD_JFET2_C (description="PMW_VDD_JFET2_C", quantity="")
Int1d	PMW_VDD_JFET3_C (description="PMW_VDD_JFET3_C", quantity="")
Int1d	PMW_VDD_JFET4_C (description="PMW_VDD_JFET4_C", quantity="")
Int1d	PLW_VDD_JFET1_C (description="PLW_VDD_JFET1_C", quantity="")
Int1d	PLW_VDD_JFET2_C (description="PLW_VDD_JFET2_C", quantity="")
Int1d	TC_VDD_JFET_C (description="TC_VDD_JFET_C", quantity="")
Int1d	SPECJFETSTAT_C (description="SPECJFETSTAT_C", quantity="")
Int1d	SLW_VDD_JFET1_C (description="SLW_VDD_JFET1_C", quantity="")
Int1d	SSW_VDD_JFET1_C (description="SSW_VDD_JFET1_C", quantity="")
Int1d	SSW_VDD_JFET2_C (description="SSW_VDD_JFET2_C", quantity="")
Int1d	LIASTAT_C (description="LIASTAT_C", quantity="")
Int1d	LIAP1STAT_C (description="LIAP1STAT_C", quantity="")
Int1d	LIAP2STAT_C (description="LIAP2STAT_C", quantity="")
Int1d	LIAP3STAT_C (description="LIAP3STAT_C", quantity="")
Int1d	LIAP4STAT_C (description="LIAP4STAT_C", quantity="")
Int1d	LIAP5STAT_C (description="LIAP5STAT_C", quantity="")
Int1d	LIAP6STAT_C (description="LIAP6STAT_C", quantity="")
Int1d	LIAP7STAT_C (description="LIAP7STAT_C", quantity="")
Int1d	LIAP8STAT_C (description="LIAP8STAT_C", quantity="")
Int1d	LIAP9STAT_C (description="LIAP9STAT_C", quantity="")
Int1d	LIAS1STAT_C (description="LIAS1STAT_C", quantity="")
Int1d	LIAS2STAT_C (description="LIAS2STAT_C", quantity="")
Int1d	LIAS3STAT_C (description="LIAS3STAT_C", quantity="")
Int1d	MCUERR_C (description="MCUERR_C", quantity="")
Int1d	SMECSTAT_C (description="SMECSTAT_C", quantity="")
Int1d	BSMSTAT_C (description="BSMSTAT_C", quantity="")
Int1d	SCUSTAT_C (description="SCUSTAT_C", quantity="")

Int1d	SUBKTEMP_C (description="SUBKTEMP_C", quantity="")
Int1d	OBSVER_C (description="OBSVER_C", quantity="")
Int1d	OBSVER1_C (description="OBSVER1_C", quantity="")
Int1d	OBSVER2_C (description="OBSVER2_C", quantity="")
Int1d	OBSVER3_C (description="OBSVER3_C", quantity="")
Int1d	CHK_VERS (description="CHK_VERS", quantity="")
Int1d	CHK_TYPE (description="CHK_TYPE", quantity="")
Int1d	CHK_DFHFLAG (description="CHK_DFHFLAG", quantity="")
Int1d	CHK_APID (description="CHK_APID", quantity="")
Int1d	CHK_SEGFLAG (description="CHK_SEGFLAG", quantity="")
Int1d	CHK_SSC (description="CHK_SSC", quantity="")
Int1d	CHK_PKTLEN (description="CHK_PKTLEN", quantity="")
Int1d	CHK_PUSVERS (description="CHK_PUSVERS", quantity="")
Int1d	CHK_PKTTYPE (description="CHK_PKTTYPE", quantity="")
Int1d	CHK_PKTSTYPE (description="CHK_PKTSTYPE", quantity="")
Int1d	CHK_PKTCTIME (description="CHK_PKTCTIME", quantity="")
Int1d	CHK_PKTFTIME (description="CHK_PKTFTIME", quantity="")

11.2.7. BSMT: Beam Steering Mirror Timeline

product (type="BSMT", description="Beam Steering Mirror Timeline")	
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	formatVersion (description="Version of product format")
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="Observation identifier")
StringParameter	obsMode (description="Observation mode name")
LongParameter	odNumber (description="Operational day number")
StringParameter	origin (description="Site that created the product")
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")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times")
LongParameter	maskMaster (description="Mask value for master bit")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time")
StringParameter	level (description="The level of the product")
table dataset	*(description="Signal timelines")*
Metadata	
Double1d	sampleTime (description="Sample time", quantity="TAI")
Int1d	chopSens (description="BSMCHOPSENSSIG", quantity="")
Int1d	chopMotorCurr (description="BSMCHOPMOTORCURR", quantity="")
Int1d	chopMotorVolt (description="BSMCHOPMOTORVOLT", quantity="")
Int1d	jiggSens (description="BSMJIGGSENSSIG", quantity="")
Int1d	jiggMotorCurr (description="BSMJIGGMOTORCURR", quantity="")
Int1d	jiggMotorVolt (description="BSMJIGGMOTORVOLT", quantity="")
Long1d	transmTime (description="BSMTTIME", quantity="")
table dataset	*(description="Mask timelines")*
Metadata	
Double1d	sampleTime (description="Sample time", quantity="TAI")
Int1d	chopSens (description="BSMCHOPSENSSIG", quantity="")
Int1d	chopMotorCurr (description="BSMCHOPMOTORCURR", quantity="")
Int1d	chopMotorVolt (description="BSMCHOPMOTORVOLT", quantity="")
Int1d	jiggSens (description="BSMJIGGSENSSIG", quantity="")

Int1d	jiggMotorCurr (description="BSMJIGGMOTORCURR", quantity="")
Int1d	jiggMotorVolt (description="BSMJIGGMOTORVOLT", quantity="")
Int1d	transmTime (description="BSMTTIME", quantity="")

11.2.8. SMECT: Spectrometer Mechanism Timeline

product (type="SMECT", description="Spectrometer Mechanism Timeline")	
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	formatVersion (description="Version of product format")
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="Observation identifier")
StringParameter	obsMode (description="Observation mode name")
LongParameter	odNumber (description="Operational day number")
StringParameter	origin (description="Site that created the product")
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")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times")
LongParameter	maskMaster (description="Mask value for master bit")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time")
StringParameter	level (description="The level of the product")
table dataset	*(description="Signal timelines")*
Metadata	
Double1d	sampleTime (description="Sample time", quantity="TAI")
Double1d	encoderCoarse (description="SMECSELENCPOSN", quantity="cm [0.01 m]")
Double1d	encoderFine (description="SMECSELENCFINEPOSN", quantity="cm [0.01 m]")
Double1d	lvdtPosn (description="SMECSELLVDTPOSN", quantity="cm [0.01 m]")
Int1d	motorBemf (description="SMECSELMOTORBEMF", quantity="")
table dataset	*(description="Mask timelines")*
Metadata	
Double1d	sampleTime (description="Sample time", quantity="TAI")
Int1d	encoderCoarse (description="SMECSELENCPOSN", quantity="")
Int1d	encoderFine (description="SMECSELENCFINEPOSN", quantity="")
Int1d	lvdtPosn (description="SMECSELLVDTPOSN", quantity="")
Int1d	motorBemf (description="SMECSELMOTORBEMF", quantity="")

11.2.9. SCUT: Subsystem Control Unit Timeline

product (type="SCUT", description="Subsystem Control Unit Timeline")	
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	formatVersion (description="Version of product format")
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="Observation identifier")
StringParameter	obsMode (description="Observation mode name")
LongParameter	odNumber (description="Operational day number")
StringParameter	origin (description="Site that created the product")
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")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times")
LongParameter	maskMaster (description="Mask value for master bit")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time")
StringParameter	level (description="The level of the product")
table dataset	*(description="Signal timelines")*
Metadata	
Double1d	sampleTime (description="Sample time", quantity="TAI")
Double1d	pumpHTemp (description="SCUPHTEMP", quantity="K")
Double1d	pumpHSTemp (description="SCUPHSTEMP", quantity="K")
Double1d	evapHSTemp (description="SCUEVHSTEMP", quantity="K")
Double1d	shuntTemp (description="SCUSHUNTTEMP", quantity="K")
Double1d	emcFilTemp (description="SCUEMCFILTEMP", quantity="K")
Double1d	specL0Temp (description="SCUSL0TEMP", quantity="K")
Double1d	photL0Temp (description="SCUPL0TEMP", quantity="K")
Double1d	osbTemp (description="SCUOPTTEMP", quantity="K")
Double1d	fpuBaffTemp (description="SCUBAFTEMP", quantity="K")
Double1d	bsmIntTemp (description="SCUBSMIFTEMP", quantity="K")
Double1d	scal2Temp (description="SCUSCAL2TEMP", quantity="K")

Double1d	scal4Temp (description="SCUSCAL4TEMP", quantity="K")
Double1d	scalFlanTemp (description="SCUSCALTEMP", quantity="K")
Double1d	smecIntTemp (description="SCUSMECIFTEMP", quantity="K")
Double1d	smecTemp (description="SCUSMECTEMP", quantity="K")
Double1d	bsmTemp (description="SCUBSMTEMP", quantity="K")
Double1d	ceSubKTemp (description="SCUSUBKTEMP", quantity="K")
Double1d	tchVolt (description="SCUTCHTRV", quantity="V")
Double1d	pcalCurr (description="SCUPCALCURR", quantity="A")
Double1d	pcalVolt (description="SCUPCALV", quantity="V")
Double1d	scal2Curr (description="SCUSCAL2CURR", quantity="A")
Double1d	scal2Volt (description="SCUSCAL2V", quantity="V")
Double1d	scal4Curr (description="SCUSCAL4CURR", quantity="A")
Double1d	scal4Volt (description="SCUSCAL4V", quantity="V")
Int1d	adcFlags (description="SCUADC_FLAGS", quantity="")
table dataset	*(description="Mask timelines")*
Metadata	
Double1d	sampleTime (description="Sample time", quantity="TAI")
Int1d	pumpHTemp (description="SCUPHTEMP", quantity="")
Int1d	pumpHSTemp (description="SCUPHSTEMP", quantity="")
Int1d	evapHSTemp (description="SCUEVHSTEMP", quantity="")
Int1d	shuntTemp (description="SCUSHUNTTEMP", quantity="")
Int1d	emcFilTemp (description="SCUEMCFILTEMP", quantity="")
Int1d	specL0Temp (description="SCUSL0TEMP", quantity="")
Int1d	photL0Temp (description="SCUPL0TEMP", quantity="")
Int1d	osbTemp (description="SCUOPTTEMP", quantity="")
Int1d	fpuBaffTemp (description="SCUBAFTEMP", quantity="")
Int1d	bsmIntTemp (description="SCUBSMIFTEMP", quantity="")
Int1d	scal2Temp (description="SCUSCAL2TEMP", quantity="")
Int1d	scal4Temp (description="SCUSCAL4TEMP", quantity="")
Int1d	scalFlanTemp (description="SCUSCALTEMP", quantity="")
Int1d	smecIntTemp (description="SCUSMECIFTEMP", quantity="")
Int1d	smecTemp (description="SCUSMECTEMP", quantity="")
Int1d	bsmTemp (description="SCUBSMTEMP", quantity="")
Int1d	ceSubKTemp (description="SCUSUBKTEMP", quantity="")
Int1d	tchVolt (description="SCUTCHTRV", quantity="")
Int1d	pcalCurr (description="SCUPCALCURR", quantity="")
Int1d	pcalVolt (description="SCUPCALV", quantity="")
Int1d	scal2Curr (description="SCUSCAL2CURR", quantity="")
Int1d	scal2Volt (description="SCUSCAL2V", quantity="")
Int1d	scal4Curr (description="SCUSCAL4CURR", quantity="")
Int1d	scal4Volt (description="SCUSCAL4V", quantity="")

Int1d	adcFlags (description="SCUADC_FLAGS", quantity="")

11.3. SPIRE Level-1 Products

11.3.1. APPP: Averaged Pointed Photometer Product

product (type="APPP", description="Averaged Pointed Photometer Product")	
Meta-data	
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	formatVersion (description="Version of product format")
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")
	naifId (description="SSO NAIF identifier")

StringParameter	
StringParameter	object (description="Target name")
StringParameter	observer (description="Observer name")
LongParameter	obsid (description="Observation identifier")
StringParameter	obsMode (description="Observation mode name")
LongParameter	odNumber (description="Operational day number")
StringParameter	origin (description="Site that created the product")
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="null")
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")
DoubleParameter	ratioPhotFirstLevelGlitchesPLW (description="null")
DoubleParameter	ratioPhotFirstLevelGlitchesPMW (description="null")

DoubleParameter	ratioPhotFirstLevelGlitchesPSW (description="null")
DoubleParameter	ratioSamplesOutOfCalibrationRangePLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array")
DoubleParameter	ratioSamplesOutOfCalibrationRangePMW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array")
DoubleParameter	ratioSamplesOutOfCalibrationRangePSW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array")
LongParameter	numberBelowK3VoltagePLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter")
LongParameter	numberBelowK3VoltagePMW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter")
LongParameter	numberBelowK3VoltagePSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter")
DoubleParameter	chopCyclePositionUncertainty (description="Chopper Position Uncertainty adu")
LongParameter	numberBsmChopSoftLimit (description="null")
LongParameter	numberBsmJiggleSoftLimit (description="null")
LongParameter	numberMissingPositions (description="Number of Missing Positions")
DoubleParameter	ratioJiggleOutlierPLW (description="null")
DoubleParameter	ratioJiggleOutlierPMW (description="null")
DoubleParameter	ratioJiggleOutlierPSW (description="null")
DoubleParameter	ratioPhotSecondLevelGlitchesPLW (description="null")
DoubleParameter	ratioPhotSecondLevelGlitchesPMW (description="null")
DoubleParameter	ratioPhotSecondLevelGlitchesPSW (description="null")
StringParameter	elecSide (description="Electronic side")

DoubleParameter	plwBiasAmpl (description="PLW bias amplitude")
DoubleParameter	pmwBiasAmpl (description="PMW bias amplitude")
DoubleParameter	pswBiasAmpl (description="PSW bias amplitude")
DoubleParameter	ptcBiasAmpl (description="PTC bias amplitude")
StringParameter	biasMode (description="Bias mode")
LongParameter	maskDead (description="Mask value for dead channel")
LongParameter	maskMaster (description="Mask value for master bit")
LongParameter	maskNoisy (description="Mask value for noisy channel")
LongParameter	maskSlow (description="Mask value for slow channel")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky")
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	maskInvalidTime (description="Mask value for invalid sample time")
LongParameter	maskGlitchDetected (description="Mask value for glitch detected")
LongParameter	maskGlitchNotRemoved (description="Mask value for glitch detected and not removed")
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")
LongParameter	maskVoltageBelowK3 (description="Mask value for voltage below K3")

LongParameter	maskNoRespData (description="Mask value for V0 and/or K flag set")
LongParameter	maskTsignalHdv (description="Mask value for thermistor/DP signal deviations larger than expected")
DoubleParameter	spireNodPointingUncertainty (description="Nod Pointing Uncertainty in arcsec")
LongParameter	bbid (description="Building Block Identifier")
BooleanParameter	OpticalCrosstalkCorrectionDone (description="null")
StringParameter	operator (description="null")
DoubleParameter	spireAverageNodPointingUncertainty (description="Average Nod Pointing Uncertainty in arcsec")
DoubleParameter	ratioNodOutlierPSW (description="Fraction of 5 sigma outliers of the signal from the individual nod cycles for PSW array")
DoubleParameter	ratioNodOutlierPLW (description="Fraction of 5 sigma outliers of the signal from the individual nod cycles for PLW array")
DoubleParameter	ratioNodOutlierPMW (description="Fraction of 5 sigma outliers of the signal from the individual nod cycles for PMW array")
StringParameter	level (description="The level of the product")
table dataset	*(description="signal")*
Metadata	
Byte1d	jiggId (description="null", quantity="none")
Double1d	PSWF1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PMWC9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PMWC8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWE6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PLWE2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PMWC7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PMWC6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PLWE6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")

Double1d	PSWE2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PMWC4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PMWC3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PSWE3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PSWH13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PMWG10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PMWF1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")

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Double1d	PMWE6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PSWA9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWB13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PSWA2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Int1d	PLWB2 (description="null", quantity="none")
Int1d	PLWB1 (description="null", quantity="none")
Int1d	PSWH8 (description="null", quantity="none")
Int1d	PSWH9 (description="null", quantity="none")
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Int1d	PMWF9 (description="null", quantity="none")
Int1d	PMWF6 (description="null", quantity="none")
Int1d	PMWF7 (description="null", quantity="none")
Int1d	PMWF4 (description="null", quantity="none")
Int1d	PMWF5 (description="null", quantity="none")
Int1d	PMWG13 (description="null", quantity="none")
Int1d	PMWF2 (description="null", quantity="none")
Int1d	PMWG12 (description="null", quantity="none")
Int1d	PMWF3 (description="null", quantity="none")
Int1d	PMWG11 (description="null", quantity="none")
Int1d	PMWG10 (description="null", quantity="none")
Int1d	PMWF1 (description="null", quantity="none")
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Int1d	PSWC14 (description="null", quantity="none")
Int1d	PSWC13 (description="null", quantity="none")
Int1d	PSWC12 (description="null", quantity="none")
Int1d	PSWA13 (description="null", quantity="none")
Int1d	PSWA12 (description="null", quantity="none")
Int1d	PSWA11 (description="null", quantity="none")
Int1d	PSWA10 (description="null", quantity="none")
Int1d	PMWE7 (description="null", quantity="none")
Int1d	PMWE8 (description="null", quantity="none")
Int1d	PMWE9 (description="null", quantity="none")
Int1d	PMWE3 (description="null", quantity="none")
Int1d	PMWE4 (description="null", quantity="none")
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Int1d	PMWE1 (description="null", quantity="none")
Int1d	PSWA15 (description="null", quantity="none")
Int1d	PMWE2 (description="null", quantity="none")
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Int1d	PSWC11 (description="null", quantity="none")

Int1d	PMWD11 (description="null", quantity="none")
Int1d	PMWD12 (description="null", quantity="none")
Int1d	PMWD10 (description="null", quantity="none")
Int1d	PSWE15 (description="null", quantity="none")
Int1d	PSWE14 (description="null", quantity="none")
Int1d	PSWE13 (description="null", quantity="none")
Int1d	PMWC12 (description="null", quantity="none")
Int1d	PSWE12 (description="null", quantity="none")
Int1d	PMWC13 (description="null", quantity="none")
Int1d	PSWE11 (description="null", quantity="none")
Int1d	PMWC10 (description="null", quantity="none")
Int1d	PSWE10 (description="null", quantity="none")
Int1d	PMWC11 (description="null", quantity="none")
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Int1d	PMWG5 (description="null", quantity="none")
Int1d	PSWG15 (description="null", quantity="none")
Int1d	PMWG6 (description="null", quantity="none")
Int1d	PSWG12 (description="null", quantity="none")
Int1d	PMWG7 (description="null", quantity="none")
Int1d	PSWG13 (description="null", quantity="none")
Int1d	PMWG8 (description="null", quantity="none")
Int1d	PSWG10 (description="null", quantity="none")
Int1d	PMWG9 (description="null", quantity="none")
Int1d	PSWG11 (description="null", quantity="none")
Int1d	PMWG1 (description="null", quantity="none")
Int1d	PMWG2 (description="null", quantity="none")
Int1d	PMWG3 (description="null", quantity="none")
Int1d	PMWG4 (description="null", quantity="none")
Int1d	PSWB6 (description="null", quantity="none")
Int1d	PSWB7 (description="null", quantity="none")
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Int1d	PSWB9 (description="null", quantity="none")
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Int1d	PSWB2 (description="null", quantity="none")
Int1d	PSWB3 (description="null", quantity="none")
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Int1d	PSWA7 (description="null", quantity="none")
Int1d	PSWA8 (description="null", quantity="none")
Int1d	PSWA5 (description="null", quantity="none")
Int1d	PSWA6 (description="null", quantity="none")
Int1d	PSWB15 (description="null", quantity="none")

Int1d	PSWB16 (description="null", quantity="none")
Int1d	PSWA9 (description="null", quantity="none")
Int1d	PSWB13 (description="null", quantity="none")
Int1d	PSWB14 (description="null", quantity="none")
Int1d	PSWA3 (description="null", quantity="none")
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Int1d	PSWJ15 (description="null", quantity="none")
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Int1d	PSWF10 (description="null", quantity="none")
Int1d	PSWF16 (description="null", quantity="none")
Int1d	PSWF15 (description="null", quantity="none")
Int1d	PSWF14 (description="null", quantity="none")
Int1d	PSWF13 (description="null", quantity="none")
table dataset	*(description="glitchFraction_PLW")*
Metadata	
Double1d	PSWF1 (description="null", quantity="none")
Double1d	PMWC9 (description="null", quantity="none")
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Double1d	PSWE6 (description="null", quantity="none")
Double1d	PLWE2 (description="null", quantity="none")
Double1d	PMWC7 (description="null", quantity="none")
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Double1d	PLWE6 (description="null", quantity="none")

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Double1d	PMWC4 (description="null", quantity="none")
Double1d	PLWE7 (description="null", quantity="none")
Double1d	PSWE1 (description="null", quantity="none")
Double1d	PMWC3 (description="null", quantity="none")
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Double1d	PMWC2 (description="null", quantity="none")
Double1d	PSWE3 (description="null", quantity="none")
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Double1d	PSWG2 (description="null", quantity="none")
Double1d	PMWD7 (description="null", quantity="none")
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Double1d	PSWF8 (description="null", quantity="none")
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Double1d	PSWF4 (description="null", quantity="none")
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Double1d	PMWA7 (description="null", quantity="none")

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Double1d	PMWA1 (description="null", quantity="none")
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Double1d	PSWC1 (description="null", quantity="none")
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Double1d	PMWA5 (description="null", quantity="none")
Double1d	PSWC6 (description="null", quantity="none")
Double1d	PMWA12 (description="null", quantity="none")
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Double1d	PMWA13 (description="null", quantity="none")
Double1d	PSWC5 (description="null", quantity="none")
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Double1d	PSWC8 (description="null", quantity="none")
Double1d	PMWA10 (description="null", quantity="none")
Double1d	PSWC7 (description="null", quantity="none")
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Double1d	PMWF11 (description="null", quantity="none")
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Double1d	PMWB2 (description="null", quantity="none")
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Double1d	PSWD6 (description="null", quantity="none")

Double1d	PMWB7 (description="null", quantity="none")
Double1d	PSWD5 (description="null", quantity="none")
Double1d	PMWB6 (description="null", quantity="none")
Double1d	PSWD4 (description="null", quantity="none")
Double1d	PSWD9 (description="null", quantity="none")
Double1d	PSWD8 (description="null", quantity="none")
Double1d	PSWJ3 (description="null", quantity="none")
Double1d	PLWA6 (description="null", quantity="none")
Double1d	PSWJ2 (description="null", quantity="none")
Double1d	PLWA7 (description="null", quantity="none")
Double1d	PSWJ5 (description="null", quantity="none")
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Double1d	PLWA4 (description="null", quantity="none")
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Double1d	PSWJ6 (description="null", quantity="none")
Double1d	PSWJ7 (description="null", quantity="none")
Double1d	PSWH16 (description="null", quantity="none")
Double1d	PSWD10 (description="null", quantity="none")
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Double1d	PSWH1 (description="null", quantity="none")
Double1d	PLWC8 (description="null", quantity="none")
Double1d	PLWC9 (description="null", quantity="none")
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Double1d	PSWH2 (description="null", quantity="none")
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Double1d	PSWH12 (description="null", quantity="none")
Double1d	PSWH11 (description="null", quantity="none")
Double1d	PSWD15 (description="null", quantity="none")
Double1d	PSWG3 (description="null", quantity="none")
Double1d	PLWC5 (description="null", quantity="none")
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Double1d	PSWG4 (description="null", quantity="none")

Double1d	PLWC4 (description="null", quantity="none")
Double1d	PSWG5 (description="null", quantity="none")
Double1d	PLWC7 (description="null", quantity="none")
Double1d	PSWG6 (description="null", quantity="none")
Double1d	PLWC6 (description="null", quantity="none")
Double1d	PSWD11 (description="null", quantity="none")
Double1d	PSWG7 (description="null", quantity="none")
Double1d	PLWC1 (description="null", quantity="none")
Double1d	PSWD12 (description="null", quantity="none")
Double1d	PSWG8 (description="null", quantity="none")
Double1d	PSWD13 (description="null", quantity="none")
Double1d	PSWG9 (description="null", quantity="none")
Double1d	PLWC3 (description="null", quantity="none")
Double1d	PSWD14 (description="null", quantity="none")
Double1d	PLWC2 (description="null", quantity="none")
Double1d	PLWB7 (description="null", quantity="none")
Double1d	PLWB8 (description="null", quantity="none")
Double1d	PSWH6 (description="null", quantity="none")
Double1d	PLWB6 (description="null", quantity="none")
Double1d	PSWH7 (description="null", quantity="none")
Double1d	PLWB5 (description="null", quantity="none")
Double1d	PSWH4 (description="null", quantity="none")
Double1d	PLWB4 (description="null", quantity="none")
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Double1d	PLWB3 (description="null", quantity="none")
Double1d	PLWB2 (description="null", quantity="none")
Double1d	PLWB1 (description="null", quantity="none")
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Double1d	PMWF4 (description="null", quantity="none")
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Double1d	PMWG13 (description="null", quantity="none")
Double1d	PMWF2 (description="null", quantity="none")
Double1d	PMWG12 (description="null", quantity="none")
Double1d	PMWF3 (description="null", quantity="none")
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Double1d	PMWG10 (description="null", quantity="none")
Double1d	PMWF1 (description="null", quantity="none")

Double1d	PSWC15 (description="null", quantity="none")
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Double1d	PSWC13 (description="null", quantity="none")
Double1d	PSWC12 (description="null", quantity="none")
Double1d	PSWA13 (description="null", quantity="none")
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Double1d	PSWA11 (description="null", quantity="none")
Double1d	PSWA10 (description="null", quantity="none")
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Double1d	PMWE8 (description="null", quantity="none")
Double1d	PMWE9 (description="null", quantity="none")
Double1d	PMWE3 (description="null", quantity="none")
Double1d	PMWE4 (description="null", quantity="none")
Double1d	PMWE5 (description="null", quantity="none")
Double1d	PMWE6 (description="null", quantity="none")
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Double1d	PSWA15 (description="null", quantity="none")
Double1d	PMWE2 (description="null", quantity="none")
Double1d	PSWC10 (description="null", quantity="none")
Double1d	PSWC11 (description="null", quantity="none")
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Double1d	PMWD12 (description="null", quantity="none")
Double1d	PMWD10 (description="null", quantity="none")
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Double1d	PSWE10 (description="null", quantity="none")
Double1d	PMWC11 (description="null", quantity="none")
Double1d	PSWG14 (description="null", quantity="none")
Double1d	PMWG5 (description="null", quantity="none")
Double1d	PSWG15 (description="null", quantity="none")
Double1d	PMWG6 (description="null", quantity="none")
Double1d	PSWG12 (description="null", quantity="none")
Double1d	PMWG7 (description="null", quantity="none")
Double1d	PSWG13 (description="null", quantity="none")
Double1d	PMWG8 (description="null", quantity="none")

Double1d	PSWG10 (description="null", quantity="none")
Double1d	PMWG9 (description="null", quantity="none")
Double1d	PSWG11 (description="null", quantity="none")
Double1d	PMWG1 (description="null", quantity="none")
Double1d	PMWG2 (description="null", quantity="none")
Double1d	PMWG3 (description="null", quantity="none")
Double1d	PMWG4 (description="null", quantity="none")
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Double1d	PSWB9 (description="null", quantity="none")
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Double1d	PSWA6 (description="null", quantity="none")
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Double1d	PSWA4 (description="null", quantity="none")
Double1d	PSWA1 (description="null", quantity="none")
Double1d	PSWA2 (description="null", quantity="none")
Double1d	PSWB12 (description="null", quantity="none")
Double1d	PSWB11 (description="null", quantity="none")
Double1d	PSWB10 (description="null", quantity="none")
Double1d	PSWJ10 (description="null", quantity="none")
Double1d	PSWJ11 (description="null", quantity="none")
Double1d	PSWJ12 (description="null", quantity="none")
Double1d	PSWJ13 (description="null", quantity="none")
Double1d	PSWJ14 (description="null", quantity="none")
Double1d	PSWJ15 (description="null", quantity="none")
Double1d	PSWF12 (description="null", quantity="none")
Double1d	PSWF11 (description="null", quantity="none")
Double1d	PSWF10 (description="null", quantity="none")
Double1d	PSWF16 (description="null", quantity="none")

Double1d	PSWF15 (description="null", quantity="none")
Double1d	PSWF14 (description="null", quantity="none")
Double1d	PSWF13 (description="null", quantity="none")
composite	*(description="History of product")*
Metadata	
table dataset	*(description="History as Jython script")*
Metadata	
StringParameter	outvar (description="last output variable")
String1d	Lines (description="script lines", quantity="none")
table dataset	*(description="History of tasks")*
Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")
String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

11.3.2. PSP: Photometer Scan Product

product (type="PSP", description="Photometer Scan Product")	
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	formatVersion (description="Version of product format")
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="Observation identifier")
StringParameter	obsMode (description="Observation mode name")
LongParameter	odNumber (description="Operational day number")
StringParameter	origin (description="Site that created the product")
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")
StringParameter	biasMode (description="Bias mode")
LongParameter	maskDead (description="Mask value for dead channel")
LongParameter	maskMaster (description="Mask value for master bit")
LongParameter	maskNoisy (description="Mask value for noisy channel")
LongParameter	maskSlow (description="Mask value for slow channel")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky")
BooleanParameter	adcErrFlag (description="Presence of ADC Latch errors")
DoubleParameter	ratioTrucated (description="Total fraction of out of range values")
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")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation")
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="Scan line number")
BooleanParameter	ElectricalCrosstalkCorrectionDone (description="null")
LongParameter	maskGlitchDetected (description="Mask value for glitch detected")
LongParameter	maskGlitchNotRemoved (description="Mask value for glitch detected and not removed")
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")
LongParameter	maskVoltageBelowK3 (description="Mask value for voltage below K3")
LongParameter	maskNoRespData (description="Mask value for V0 and/or K flag set")
LongParameter	maskTsignalHdv (description="Mask value for thermistor/DP signal deviations larger than expected")
DoubleParameter	ratioPhotFirstLevelGlitchesPSW (description="null")
DoubleParameter	ratioPhotFirstLevelGlitchesPMW (description="null")
DoubleParameter	ratioPhotFirstLevelGlitchesPLW (description="null")
DoubleParameter	ratioSamplesOutOfCalibrationRangePSW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array")
LongParameter	numberBelowK3VoltagePSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter")
DoubleParameter	ratioSamplesOutOfCalibrationRangePMW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array")
LongParameter	numberBelowK3VoltagePMW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter")
DoubleParameter	ratioSamplesOutOfCalibrationRangePLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array")
LongParameter	numberBelowK3VoltagePLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter")
BooleanParameter	FluxConversionDone (description="null")
StringParameter	respControlStamp (description="null")

DoubleParameter	ratioHighThermistorDeviationPSW (description="Ratio of number of thermistor samples that are out of the calibrated voltage range over number of data samples in the thermistors of this array")
DoubleParameter	ratioHighThermistorDeviationPMW (description="Ratio of number of thermistor samples that are out of the calibrated voltage range over number of data samples in the thermistors of this array")
DoubleParameter	ratioHighThermistorDeviationPLW (description="Ratio of number of thermistor samples that are out of the calibrated voltage range over number of data samples in the thermistors of this array")
BooleanParameter	TemperatureDriftCorrectionDone (description="null")
BooleanParameter	OpticalCrosstalkCorrectionDone (description="null")
table dataset	*(description="Mask timelines")*
Metadata	
Double1d	sampleTime (description="Sample time", quantity="TAI")
Int1d	PSWR1 (description="PHOTFARRAY001", quantity="")
Int1d	PSWD16 (description="PHOTFARRAY002", quantity="")
Int1d	PSWT1 (description="PHOTFARRAY003", quantity="")
Int1d	PSWB16 (description="PHOTFARRAY004", quantity="")
Int1d	PSWC15 (description="PHOTFARRAY005", quantity="")
Int1d	PSWA15 (description="PHOTFARRAY006", quantity="")
Int1d	PSWD15 (description="PHOTFARRAY007", quantity="")
Int1d	PSWB15 (description="PHOTFARRAY008", quantity="")
Int1d	PSWC14 (description="PHOTFARRAY009", quantity="")
Int1d	PSWD14 (description="PHOTFARRAY010", quantity="")
Int1d	PSWA14 (description="PHOTFARRAY011", quantity="")
Int1d	PSWA13 (description="PHOTFARRAY012", quantity="")
Int1d	PSWB14 (description="PHOTFARRAY013", quantity="")
Int1d	PSWC13 (description="PHOTFARRAY014", quantity="")
Int1d	PSWB13 (description="PHOTFARRAY015", quantity="")
Int1d	PSWD13 (description="PHOTFARRAY016", quantity="")
Int1d	PSWA12 (description="PHOTFARRAY017", quantity="")
Int1d	PSWC12 (description="PHOTFARRAY018", quantity="")
Int1d	PSWD12 (description="PHOTFARRAY019", quantity="")
Int1d	PSWB12 (description="PHOTFARRAY020", quantity="")
Int1d	PSWE11 (description="PHOTFARRAY021", quantity="")
Int1d	PSWA11 (description="PHOTFARRAY022", quantity="")
Int1d	PSWC11 (description="PHOTFARRAY023", quantity="")
Int1d	PSWB11 (description="PHOTFARRAY024", quantity="")
Int1d	PSWE1 (description="PHOTFARRAY025", quantity="")
Int1d	PSWF1 (description="PHOTFARRAY026", quantity="")
Int1d	PSWT2 (description="PHOTFARRAY027", quantity="")

Int1d	PSWH1 (description="PHOTFARRAY028", quantity="")
Int1d	PSWG1 (description="PHOTFARRAY029", quantity="")
Int1d	PSWJ1 (description="PHOTFARRAY030", quantity="")
Int1d	PSWH2 (description="PHOTFARRAY031", quantity="")
Int1d	PSWF2 (description="PHOTFARRAY032", quantity="")
Int1d	PSWJ2 (description="PHOTFARRAY033", quantity="")
Int1d	PSWG2 (description="PHOTFARRAY034", quantity="")
Int1d	PSWH3 (description="PHOTFARRAY035", quantity="")
Int1d	PSWJ3 (description="PHOTFARRAY036", quantity="")
Int1d	PSWE2 (description="PHOTFARRAY037", quantity="")
Int1d	PSWF3 (description="PHOTFARRAY038", quantity="")
Int1d	PSWG3 (description="PHOTFARRAY039", quantity="")
Int1d	PSWH4 (description="PHOTFARRAY040", quantity="")
Int1d	PSWJ4 (description="PHOTFARRAY041", quantity="")
Int1d	PSWE3 (description="PHOTFARRAY042", quantity="")
Int1d	PSWF4 (description="PHOTFARRAY043", quantity="")
Int1d	PSWG4 (description="PHOTFARRAY044", quantity="")
Int1d	PSWH5 (description="PHOTFARRAY045", quantity="")
Int1d	PSWE4 (description="PHOTFARRAY046", quantity="")
Int1d	PSWJ5 (description="PHOTFARRAY047", quantity="")
Int1d	PSWF5 (description="PHOTFARRAY048", quantity="")
Int1d	PSWD6 (description="PHOTFARRAY049", quantity="")
Int1d	PSWB6 (description="PHOTFARRAY050", quantity="")
Int1d	PSWC5 (description="PHOTFARRAY051", quantity="")
Int1d	PSWA5 (description="PHOTFARRAY052", quantity="")
Int1d	PSWE5 (description="PHOTFARRAY053", quantity="")
Int1d	PSWB5 (description="PHOTFARRAY054", quantity="")
Int1d	PSWD5 (description="PHOTFARRAY055", quantity="")
Int1d	PSWC4 (description="PHOTFARRAY056", quantity="")
Int1d	PSWA4 (description="PHOTFARRAY057", quantity="")
Int1d	PSWD4 (description="PHOTFARRAY058", quantity="")
Int1d	PSWB4 (description="PHOTFARRAY059", quantity="")
Int1d	PSWC3 (description="PHOTFARRAY060", quantity="")
Int1d	PSWB3 (description="PHOTFARRAY061", quantity="")
Int1d	PSWA3 (description="PHOTFARRAY062", quantity="")
Int1d	PSWA2 (description="PHOTFARRAY063", quantity="")
Int1d	PSWD3 (description="PHOTFARRAY064", quantity="")
Int1d	PSWC2 (description="PHOTFARRAY065", quantity="")
Int1d	PSWB2 (description="PHOTFARRAY066", quantity="")
Int1d	PSWD2 (description="PHOTFARRAY067", quantity="")
Int1d	PSWA1 (description="PHOTFARRAY068", quantity="")
Int1d	PSWC1 (description="PHOTFARRAY069", quantity="")

Int1d	PSWB1 (description="PHOTFARRAY070", quantity="")
Int1d	PSWDP1 (description="PHOTFARRAY071", quantity="")
Int1d	PSWD1 (description="PHOTFARRAY072", quantity="")
Int1d	PSWF12 (description="PHOTFARRAY073", quantity="")
Int1d	PSWJ11 (description="PHOTFARRAY074", quantity="")
Int1d	PSWE12 (description="PHOTFARRAY075", quantity="")
Int1d	PSWH12 (description="PHOTFARRAY076", quantity="")
Int1d	PSWG12 (description="PHOTFARRAY077", quantity="")
Int1d	PSWF13 (description="PHOTFARRAY078", quantity="")
Int1d	PSWE13 (description="PHOTFARRAY079", quantity="")
Int1d	PSWJ12 (description="PHOTFARRAY080", quantity="")
Int1d	PSWH13 (description="PHOTFARRAY081", quantity="")
Int1d	PSWG13 (description="PHOTFARRAY082", quantity="")
Int1d	PSWF14 (description="PHOTFARRAY083", quantity="")
Int1d	PSWE14 (description="PHOTFARRAY084", quantity="")
Int1d	PSWJ13 (description="PHOTFARRAY085", quantity="")
Int1d	PSWH14 (description="PHOTFARRAY086", quantity="")
Int1d	PSWG14 (description="PHOTFARRAY087", quantity="")
Int1d	PSWJ14 (description="PHOTFARRAY088", quantity="")
Int1d	PSWF15 (description="PHOTFARRAY089", quantity="")
Int1d	PSWH15 (description="PHOTFARRAY090", quantity="")
Int1d	PSWJ15 (description="PHOTFARRAY091", quantity="")
Int1d	PSWG15 (description="PHOTFARRAY092", quantity="")
Int1d	PSWH16 (description="PHOTFARRAY093", quantity="")
Int1d	PSWDP2 (description="PHOTFARRAY094", quantity="")
Int1d	PSWF16 (description="PHOTFARRAY095", quantity="")
Int1d	PSWE15 (description="PHOTFARRAY096", quantity="")
Int1d	PSWD11 (description="PHOTFARRAY097", quantity="")
Int1d	PSWA10 (description="PHOTFARRAY098", quantity="")
Int1d	PSWE10 (description="PHOTFARRAY099", quantity="")
Int1d	PSWC10 (description="PHOTFARRAY100", quantity="")
Int1d	PSWB10 (description="PHOTFARRAY101", quantity="")
Int1d	PSWD10 (description="PHOTFARRAY102", quantity="")
Int1d	PSWA9 (description="PHOTFARRAY103", quantity="")
Int1d	PSWE9 (description="PHOTFARRAY104", quantity="")
Int1d	PSWC9 (description="PHOTFARRAY105", quantity="")
Int1d	PSWB9 (description="PHOTFARRAY106", quantity="")
Int1d	PSWD9 (description="PHOTFARRAY107", quantity="")
Int1d	PSWA8 (description="PHOTFARRAY108", quantity="")
Int1d	PSWC8 (description="PHOTFARRAY109", quantity="")
Int1d	PSWE8 (description="PHOTFARRAY110", quantity="")
Int1d	PSWD8 (description="PHOTFARRAY111", quantity="")

Int1d	PSWB8 (description="PHOTFARRAY112", quantity="")
Int1d	PSWC7 (description="PHOTFARRAY113", quantity="")
Int1d	PSWE7 (description="PHOTFARRAY114", quantity="")
Int1d	PSWA7 (description="PHOTFARRAY115", quantity="")
Int1d	PSWD7 (description="PHOTFARRAY116", quantity="")
Int1d	PSWB7 (description="PHOTFARRAY117", quantity="")
Int1d	PSWC6 (description="PHOTFARRAY118", quantity="")
Int1d	PSWE6 (description="PHOTFARRAY119", quantity="")
Int1d	PSWA6 (description="PHOTFARRAY120", quantity="")
Int1d	PSWG5 (description="PHOTFARRAY121", quantity="")
Int1d	PSWH6 (description="PHOTFARRAY122", quantity="")
Int1d	PSWJ6 (description="PHOTFARRAY123", quantity="")
Int1d	PSWF6 (description="PHOTFARRAY124", quantity="")
Int1d	PSWG6 (description="PHOTFARRAY125", quantity="")
Int1d	PSWH7 (description="PHOTFARRAY126", quantity="")
Int1d	PSWF7 (description="PHOTFARRAY127", quantity="")
Int1d	PSWJ7 (description="PHOTFARRAY128", quantity="")
Int1d	PSWG7 (description="PHOTFARRAY129", quantity="")
Int1d	PSWH8 (description="PHOTFARRAY130", quantity="")
Int1d	PSWF8 (description="PHOTFARRAY131", quantity="")
Int1d	PSWG8 (description="PHOTFARRAY132", quantity="")
Int1d	PSWJ8 (description="PHOTFARRAY133", quantity="")
Int1d	PSWF9 (description="PHOTFARRAY134", quantity="")
Int1d	PSWH9 (description="PHOTFARRAY135", quantity="")
Int1d	PSWG9 (description="PHOTFARRAY136", quantity="")
Int1d	PSWJ9 (description="PHOTFARRAY137", quantity="")
Int1d	PSWF10 (description="PHOTFARRAY138", quantity="")
Int1d	PSWH10 (description="PHOTFARRAY139", quantity="")
Int1d	PSWG10 (description="PHOTFARRAY140", quantity="")
Int1d	PSWF11 (description="PHOTFARRAY141", quantity="")
Int1d	PSWJ10 (description="PHOTFARRAY142", quantity="")
Int1d	PSWH11 (description="PHOTFARRAY143", quantity="")
Int1d	PSWG11 (description="PHOTFARRAY144", quantity="")
Int1d	PLWR1 (description="PHOTFARRAY145", quantity="")
Int1d	PLWA8 (description="PHOTFARRAY146", quantity="")
Int1d	PLWA7 (description="PHOTFARRAY147", quantity="")
Int1d	PLWA6 (description="PHOTFARRAY148", quantity="")
Int1d	PLWA9 (description="PHOTFARRAY149", quantity="")
Int1d	PLWC9 (description="PHOTFARRAY150", quantity="")
Int1d	PLWB8 (description="PHOTFARRAY151", quantity="")
Int1d	PLWB7 (description="PHOTFARRAY152", quantity="")
Int1d	PLWC7 (description="PHOTFARRAY153", quantity="")

Int1d	PLWB5 (description="PHOTFARRAY154", quantity="")
Int1d	PLWB6 (description="PHOTFARRAY155", quantity="")
Int1d	PLWA5 (description="PHOTFARRAY156", quantity="")
Int1d	PLWT1 (description="PHOTFARRAY157", quantity="")
Int1d	PLWB4 (description="PHOTFARRAY158", quantity="")
Int1d	PLWC4 (description="PHOTFARRAY159", quantity="")
Int1d	PLWB3 (description="PHOTFARRAY160", quantity="")
Int1d	PLWC2 (description="PHOTFARRAY161", quantity="")
Int1d	PLWB2 (description="PHOTFARRAY162", quantity="")
Int1d	PLWB1 (description="PHOTFARRAY163", quantity="")
Int1d	PLWA3 (description="PHOTFARRAY164", quantity="")
Int1d	PLWA4 (description="PHOTFARRAY165", quantity="")
Int1d	PLWA1 (description="PHOTFARRAY166", quantity="")
Int1d	PLWDP1 (description="PHOTFARRAY167", quantity="")
Int1d	PLWA2 (description="PHOTFARRAY168", quantity="")
Int1d	PLWE1 (description="PHOTFARRAY169", quantity="")
Int1d	PLWE2 (description="PHOTFARRAY170", quantity="")
Int1d	PLWE3 (description="PHOTFARRAY171", quantity="")
Int1d	PLWE4 (description="PHOTFARRAY172", quantity="")
Int1d	PLWD1 (description="PHOTFARRAY173", quantity="")
Int1d	PLWD2 (description="PHOTFARRAY174", quantity="")
Int1d	PLWD3 (description="PHOTFARRAY175", quantity="")
Int1d	PLWD4 (description="PHOTFARRAY176", quantity="")
Int1d	PLWC1 (description="PHOTFARRAY177", quantity="")
Int1d	PLWC3 (description="PHOTFARRAY178", quantity="")
Int1d	PLWC5 (description="PHOTFARRAY179", quantity="")
Int1d	PLWT2 (description="PHOTFARRAY180", quantity="")
Int1d	PLWE5 (description="PHOTFARRAY181", quantity="")
Int1d	PLWC6 (description="PHOTFARRAY182", quantity="")
Int1d	PLWC8 (description="PHOTFARRAY183", quantity="")
Int1d	PLWD5 (description="PHOTFARRAY184", quantity="")
Int1d	PLWD6 (description="PHOTFARRAY185", quantity="")
Int1d	PLWD7 (description="PHOTFARRAY186", quantity="")
Int1d	PLWD8 (description="PHOTFARRAY187", quantity="")
Int1d	PLWE7 (description="PHOTFARRAY188", quantity="")
Int1d	PLWE6 (description="PHOTFARRAY189", quantity="")
Int1d	PLWE8 (description="PHOTFARRAY190", quantity="")
Int1d	PLWDP2 (description="PHOTFARRAY191", quantity="")
Int1d	PLWE9 (description="PHOTFARRAY192", quantity="")
Int1d	PMWA13 (description="PHOTFARRAY193", quantity="")
Int1d	PMWT1 (description="PHOTFARRAY194", quantity="")
Int1d	PMWB12 (description="PHOTFARRAY195", quantity="")

Int1d	PMWC13 (description="PHOTFARRAY196", quantity="")
Int1d	PMWA12 (description="PHOTFARRAY197", quantity="")
Int1d	PMWD12 (description="PHOTFARRAY198", quantity="")
Int1d	PMWC12 (description="PHOTFARRAY199", quantity="")
Int1d	PMWB11 (description="PHOTFARRAY200", quantity="")
Int1d	PMWA11 (description="PHOTFARRAY201", quantity="")
Int1d	PMWE13 (description="PHOTFARRAY202", quantity="")
Int1d	PMWD11 (description="PHOTFARRAY203", quantity="")
Int1d	PMWC11 (description="PHOTFARRAY204", quantity="")
Int1d	PMWB10 (description="PHOTFARRAY205", quantity="")
Int1d	PMWA10 (description="PHOTFARRAY206", quantity="")
Int1d	PMWD10 (description="PHOTFARRAY207", quantity="")
Int1d	PMWB9 (description="PHOTFARRAY208", quantity="")
Int1d	PMWC10 (description="PHOTFARRAY209", quantity="")
Int1d	PMWC9 (description="PHOTFARRAY210", quantity="")
Int1d	PMWA9 (description="PHOTFARRAY211", quantity="")
Int1d	PMWB8 (description="PHOTFARRAY212", quantity="")
Int1d	PMWA8 (description="PHOTFARRAY213", quantity="")
Int1d	PMWD8 (description="PHOTFARRAY214", quantity="")
Int1d	PMWC8 (description="PHOTFARRAY215", quantity="")
Int1d	PMWB7 (description="PHOTFARRAY216", quantity="")
Int1d	PMWR1 (description="PHOTFARRAY217", quantity="")
Int1d	PMWG1 (description="PHOTFARRAY218", quantity="")
Int1d	PMWT2 (description="PHOTFARRAY219", quantity="")
Int1d	PMWE1 (description="PHOTFARRAY220", quantity="")
Int1d	PMWD1 (description="PHOTFARRAY221", quantity="")
Int1d	PMWF1 (description="PHOTFARRAY222", quantity="")
Int1d	PMWE2 (description="PHOTFARRAY223", quantity="")
Int1d	PMWG2 (description="PHOTFARRAY224", quantity="")
Int1d	PMWF2 (description="PHOTFARRAY225", quantity="")
Int1d	PMWG3 (description="PHOTFARRAY226", quantity="")
Int1d	PMWE3 (description="PHOTFARRAY227", quantity="")
Int1d	PMWD3 (description="PHOTFARRAY228", quantity="")
Int1d	PMWF3 (description="PHOTFARRAY229", quantity="")
Int1d	PMWG4 (description="PHOTFARRAY230", quantity="")
Int1d	PMWE4 (description="PHOTFARRAY231", quantity="")
Int1d	PMWF4 (description="PHOTFARRAY232", quantity="")
Int1d	PMWE5 (description="PHOTFARRAY233", quantity="")
Int1d	PMWD5 (description="PHOTFARRAY234", quantity="")
Int1d	PMWF5 (description="PHOTFARRAY235", quantity="")
Int1d	PMWG5 (description="PHOTFARRAY236", quantity="")
Int1d	PMWE6 (description="PHOTFARRAY237", quantity="")

Int1d	PMWG6 (description="PHOTFARRAY238", quantity="")
Int1d	PMWF6 (description="PHOTFARRAY239", quantity="")
Int1d	PMWG7 (description="PHOTFARRAY240", quantity="")
Int1d	PMWF10 (description="PHOTFARRAY241", quantity="")
Int1d	PMWE11 (description="PHOTFARRAY242", quantity="")
Int1d	PMWG11 (description="PHOTFARRAY243", quantity="")
Int1d	PMWF11 (description="PHOTFARRAY244", quantity="")
Int1d	PMWE12 (description="PHOTFARRAY245", quantity="")
Int1d	PMWG12 (description="PHOTFARRAY246", quantity="")
Int1d	PMWF12 (description="PHOTFARRAY247", quantity="")
Int1d	PMWG13 (description="PHOTFARRAY248", quantity="")
Int1d	PMWDP2 (description="PHOTFARRAY249", quantity="")
Int1d	PMWE7 (description="PHOTFARRAY250", quantity="")
Int1d	PMWD7 (description="PHOTFARRAY251", quantity="")
Int1d	PMWF7 (description="PHOTFARRAY252", quantity="")
Int1d	PMWE8 (description="PHOTFARRAY253", quantity="")
Int1d	PMWG8 (description="PHOTFARRAY254", quantity="")
Int1d	PMWF8 (description="PHOTFARRAY255", quantity="")
Int1d	PMWE9 (description="PHOTFARRAY256", quantity="")
Int1d	PMWG9 (description="PHOTFARRAY257", quantity="")
Int1d	PMWD9 (description="PHOTFARRAY258", quantity="")
Int1d	PMWF9 (description="PHOTFARRAY259", quantity="")
Int1d	PMWE10 (description="PHOTFARRAY260", quantity="")
Int1d	PMWG10 (description="PHOTFARRAY261", quantity="")
Int1d	PMWC4 (description="PHOTFARRAY262", quantity="")
Int1d	PMWB3 (description="PHOTFARRAY263", quantity="")
Int1d	PMWC3 (description="PHOTFARRAY264", quantity="")
Int1d	PMWB2 (description="PHOTFARRAY265", quantity="")
Int1d	PMWD2 (description="PHOTFARRAY266", quantity="")
Int1d	PMWA3 (description="PHOTFARRAY267", quantity="")
Int1d	PMWA2 (description="PHOTFARRAY268", quantity="")
Int1d	PMWC2 (description="PHOTFARRAY269", quantity="")
Int1d	PMWB1 (description="PHOTFARRAY270", quantity="")
Int1d	PMWA1 (description="PHOTFARRAY271", quantity="")
Int1d	PMWDP1 (description="PHOTFARRAY272", quantity="")
Int1d	PMWC1 (description="PHOTFARRAY273", quantity="")
Int1d	PMWA7 (description="PHOTFARRAY274", quantity="")
Int1d	PMWA6 (description="PHOTFARRAY275", quantity="")
Int1d	PMWB6 (description="PHOTFARRAY276", quantity="")
Int1d	PMWC7 (description="PHOTFARRAY277", quantity="")
Int1d	PMWA5 (description="PHOTFARRAY278", quantity="")
Int1d	PMWB5 (description="PHOTFARRAY279", quantity="")

Int1d	PMWC6 (description="PHOTFARRAY280", quantity="")
Int1d	PMWD6 (description="PHOTFARRAY281", quantity="")
Int1d	PMWB4 (description="PHOTFARRAY282", quantity="")
Int1d	PMWC5 (description="PHOTFARRAY283", quantity="")
Int1d	PMWD4 (description="PHOTFARRAY284", quantity="")
Int1d	PMWA4 (description="PHOTFARRAY285", quantity="")
Int1d	PTCP1 (description="PHOTFARRAY286", quantity="")
Int1d	PTCP2 (description="PHOTFARRAY287", quantity="")
Int1d	PTCP3 (description="PHOTFARRAY288", quantity="")
table dataset	*(description="Temperature")*
Metadata	
Double1d	sampleTime (description="Sample time", quantity="TAI")
Float1d	PSWT1 (description="Thermistor temperature", quantity="K")
Float1d	PSWT2 (description="Thermistor temperature", quantity="K")
Float1d	PLWT1 (description="Thermistor temperature", quantity="K")
Float1d	PLWT2 (description="Thermistor temperature", quantity="K")
Float1d	PMWT1 (description="Thermistor temperature", quantity="K")
Float1d	PMWT2 (description="Thermistor temperature", quantity="K")
table dataset	*(description="Voltages table")*
Metadata	
Double1d	sampleTime (description="Sample time", quantity="TAI")
Double1d	PSWR1 (description="null", quantity="V")
Double1d	PSWD16 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWT1 (description="null", quantity="V")
Double1d	PSWB16 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWC15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWA15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWD15 (description="null", quantity="V")
Double1d	PSWB15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWC14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWD14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWA14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWA13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWB14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWC13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWB13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWD13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWA12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWC12 (description="null", quantity="V")
Double1d	PSWD12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")

Double1d	PSWB12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWE11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWA11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWC11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWB11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWE1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWF1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWT2 (description="null", quantity="V")
Double1d	PSWH1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWG1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWJ1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWH2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWF2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWJ2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWG2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWH3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWJ3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWE2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWF3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWG3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWH4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWJ4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWE3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWF4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWG4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWH5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWE4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWJ5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWF5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWD6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWB6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWC5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWA5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWE5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWB5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PSWA4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWD4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWB4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWC3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWB3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")

Double1d	PSWA3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWA2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWD3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWC2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWB2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWD2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWA1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWC1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWB1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWDP1 (description="null", quantity="V")
Double1d	PSWD1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWF12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWJ11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWE12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWH12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWG12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWF13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWE13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWJ12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWH13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWG13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWF14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWE14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWJ13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWH14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWG14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWJ14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWF15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWH15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWJ15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWG15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWH16 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWDP2 (description="null", quantity="V")
Double1d	PSWF16 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWE15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PSWE10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWC10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWB10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWD10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWA9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")

Double1d	PSWE9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWC9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWB9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWD9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PSWC8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWE8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWD8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWB8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PSWE6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PSWG5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PSWH6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PSWJ8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PSWG10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PSWJ10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PSWG11 (description="null", quantity="V")
Double1d	PLWR1 (description="null", quantity="V")

Double1d	PLWA8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PLWA7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PLWA6 (description="null", quantity="V")
Double1d	PLWA9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PLWDP1 (description="null", quantity="V")
Double1d	PLWA2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PLWE1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PLWC3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PLWC5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PLWT2 (description="null", quantity="V")
Double1d	PLWE5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PLWD6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PLWD8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")

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Double1d	PLWE9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PMWC13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PMWG1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PMWT2 (description="null", quantity="V")
Double1d	PMWE1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PMWF12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PMWG13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PMWE7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PMWD7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PMWG8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PMWF8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PMWG9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PMWD9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PMWG10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PMWC4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PMWB3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PMWC3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PMWB2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PMWC2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PMWB1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PMWA1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")

Double1d	PMWDP1 (description="null", quantity="V")
Double1d	PMWC1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PMWA7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PMWC6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PMWB4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PMWC5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	PMWD4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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Double1d	PTCP2 (description="null", quantity="V")
Double1d	PTCP3 (description="null", quantity="V")
table dataset	*(description="RA timeline")*
Metadata	
Double1d	sampleTime (description="Sample time", quantity="TAI")
Double1d	PSWF1 (description="Right Ascension", quantity="degree [0.01745329 rad]")
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Double1d	PMWC8 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PSWE6 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PLWE2 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PMWC7 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PSWE5 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PLWE3 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PMWC6 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PSWE8 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PLWE4 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PMWC5 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PSWE7 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PLWE5 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PMWC4 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PSWE2 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PLWE6 (description="Declination", quantity="degree [0.01745329 rad]")

Double1d	PMWC3 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PSWE1 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PLWE7 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PMWC2 (description="Declination", quantity="degree [0.01745329 rad]")
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Double1d	PLWE8 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PMWC1 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PSWE3 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PLWE9 (description="Declination", quantity="degree [0.01745329 rad]")
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Double1d	PLWE1 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PSWG1 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PSWG2 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PSWT1 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PSWT2 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PMWD7 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PSWF9 (description="Declination", quantity="degree [0.01745329 rad]")
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Double1d	PMWA7 (description="Declination", quantity="degree [0.01745329 rad]")

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Double1d	PMWA2 (description="Declination", quantity="degree [0.01745329 rad]")
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Double1d	PSWC4 (description="Declination", quantity="degree [0.01745329 rad]")
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Double1d	PSWC3 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PMWA4 (description="Declination", quantity="degree [0.01745329 rad]")
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Double1d	PSWC6 (description="Declination", quantity="degree [0.01745329 rad]")
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Double1d	PSWC5 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PMWA13 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PMWA10 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PSWC8 (description="Declination", quantity="degree [0.01745329 rad]")
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Double1d	PMWE11 (description="Declination", quantity="degree [0.01745329 rad]")
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Double1d	PMWB8 (description="Declination", quantity="degree [0.01745329 rad]")
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Double1d	PMWB1 (description="Declination", quantity="degree [0.01745329 rad]")
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Double1d	PSWG3 (description="Declination", quantity="degree [0.01745329 rad]")
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Double1d	PMWG11 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PMWG10 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PMWF1 (description="Declination", quantity="degree [0.01745329 rad]")
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Double1d	PSWA10 (description="Declination", quantity="degree [0.01745329 rad]")
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Double1d	PMWE9 (description="Declination", quantity="degree [0.01745329 rad]")
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Double1d	PMWE4 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PMWE5 (description="Declination", quantity="degree [0.01745329 rad]")
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Double1d	PSWC10 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PSWC11 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PLWDP1 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PLWDP2 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PMWD11 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PMWD12 (description="Declination", quantity="degree [0.01745329 rad]")
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Double1d	PSWG11 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PMWG1 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PMWG2 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PMWG3 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PMWG4 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PSWB6 (description="Declination", quantity="degree [0.01745329 rad]")
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Double1d	PSWB1 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PTCP1 (description="Declination", quantity="degree [0.01745329 rad]")
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Double1d	PSWR1 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PSWA7 (description="Declination", quantity="degree [0.01745329 rad]")
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Double1d	PSWA9 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PSWB14 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PSWA3 (description="Declination", quantity="degree [0.01745329 rad]")

Double1d	PSWA4 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PSWA1 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PSWA2 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PSWB12 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PSWB11 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PSWB10 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PSWJ10 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PSWJ11 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PSWJ12 (description="Declination", quantity="degree [0.01745329 rad]")
Double1d	PSWJ13 (description="Declination", quantity="degree [0.01745329 rad]")
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11.3.3. SDI: Spectrometer Detector Interferogram

product (type="SDI", description="Spectrometer Detector Interferogram")	
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")
StringParam-	instrument (description="Instrument attached to this product")

eter	
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	formatVersion (description="Version of product format")
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")
DoubleParam-	equinox (description="Equinox of celestial coordinate system")

e-ter	
String-Pa-ram-e-ter	instMode (description="Instrument Mode")
String-Pa-ram-e-ter	missionConfig (description="Mission configuration")
String-Pa-ram-e-ter	naifId (description="SSO NAIF identifier")
String-Pa-ram-e-ter	object (description="Target name")
String-Pa-ram-e-ter	observer (description="Observer name")
Long-Pa-ram-e-ter	obsid (description="Observation identifier")
String-Pa-ram-e-ter	obsMode (description="Observation mode name")
Long-Pa-ram-e-ter	odNumber (description="Operational day number")
String-Pa-ram-e-ter	origin (description="Site that created the product")
String-Pa-ram-e-ter	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")
StringParam-	commandedResolution (description="Commanded Spectral Resolution")

eter	
LongParameter	QcPhaseWrap (description="Number of phase wraps")
LongParameter	phaseWrapSSW (description="Number of times that in-band phase changes by +/-2pi in any of the SSW detectors")
LongParameter	phaseWrapSLW (description="Number of times that in-band phase changes by +/-2pi in any of the SLW detectors")
StringParameter	apodTpye (description="Type of Apodization applied")
BooleanParameter	phaseCorrApplied (description="Phase correction has been applied")
LongParameter	missedFringes (description="Number of missed optical encoder fringes")
DoubleParameter	scanExtrema (description="Ratio of measured SMEC scan maximum to commanded scan maximum")
DoubleParameter	smecTemperature (description="Difference between maximum and minimum SMEC temperatures (in K)")
DoubleParameter	stageSpeedAverage (description="Ratio of the measured SMEC speed to the commanded SMEC speed")
DoubleParameter	stageSpeedDeviation (description="Standard deviation of the SMEC speed (in micron/s)")

DoubleParameter	ratioSpecSecondLevelGlitchesSLW (description="Ratio of number of flagged samples over number of data samples in the detectors of the SLW array")
DoubleParameter	ratioSpecSecondLevelGlitchesSSW (description="Ratio of number of flagged samples over number of data samples in the detectors of the SSW array")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSLW (description="Ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SLW array")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSSW (description="Ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SSW array")
LongParameter	numberSecondLevelGlitchCorrectionProblemsSLW (description="Number of cases where a data sample from a SLW detector that was flagged as a glitch was not corrected")
LongParameter	numberSecondLevelGlitchCorrectionProblemsSSW (description="Number of cases where a data sample from a SSW detector that was flagged as a glitch was not corrected")
DoubleParameter	biasFreq (description="Bias frequency")
StringParameter	elecSide (description="Electronic side")
StringParameter	bbTypeName (description="Building block type name")
LongParameter	maskDead (description="Mask value for dead channel")
LongParam-	maskMaster (description="Mask value for master bit")

eter	
LongParameter	maskNoisy (description="Mask value for noisy channel")
LongParameter	maskSlow (description="Mask value for slow channel")
BooleanParameter	adcErrFlag (description="Presence of ADC Latch errors")
DoubleParameter	ratioTruncated (description="Total fraction of out of range values")
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")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times")
LongParameter	maskInvalidTime (description="Mask value for invalid sample time")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation")

DoubleParameter	slwBiasAmpl (description="SLW bias amplitude")
DoubleParameter	sswBiasAmpl (description="SSW bias amplitude")
BooleanParameter	rcRollApp (description="RC roll correction applied")
LongParameter	jiggId (description="Jiggle ID")
LongParameter	pointNum (description="Pointing number")
StringParameter	biasMode (description="Bias mode")
BooleanParameter	electricalCrosstalkCorrectionDone (description="null")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSSW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array")
LongParameter	numberBelowK3VoltageSSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array")
LongParam-	numberBelowK3VoltageSLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter")

eter	
BooleanParameter	SpecNonLinearityCorrectionDone (description="null")
StringParameter	respControlStamp (description="null")
DoubleParameter	ratioHighThermistorDeviationSSW (description="Ratio of number of thermistor samples that are out of the calibrated voltage range over number of data samples in the thermistors of this array")
DoubleParameter	ratioHighThermistorDeviationSLW (description="Ratio of number of thermistor samples that are out of the calibrated voltage range over number of data samples in the thermistors of this array")
BooleanParameter	TemperatureDriftCorrectionDone (description="null")
LongParameter	numberClippedDetectorsSLW (description="Number of detectors in SLW where at least one sample was flagged as clipped and could not be corrected")
LongParameter	numberClippedDetectorsSSW (description="Number of detectors in SSW where at least one sample was flagged as clipped and could not be corrected")
StringParameter	level (description="The level of the product")
composite	*(description="null")*
Metadata	
LongParameter	count (description="Interferogram Number")

LongParameter	scanNumber (description="Scan Number")
StringParameter	scanDir (description="Scan Direction")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
Double1d	opd (description="Optical Path Difference", quantity="cm [0.01 m]")
Double1d	errorOpd (description="Optical Path Difference Uncertainty", quantity="cm [0.01 m]")
Double1d	signal (description="Signal", quantity="V")
Double1d	errorSig (description="Signal Uncertainty", quantity="V")
Int1d	mask (description="Mask", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")

Double1d	opd (description="Optical Path Difference", quantity="cm [0.01 m]")
Double1d	errorOpd (description="Optical Path Difference Uncertainty", quantity="cm [0.01 m]")
Double1d	signal (description="Signal", quantity="V")
Double1d	errorSig (description="Signal Uncertainty", quantity="V")
Int1d	mask (description="Mask", quantity="none")

11.3.4. SDS: Spectrometer Detector Spectrum

product (type="SDS", description="Spectrometer Detector Spectrum")	
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")
StringParam-	formatVersion (description="Version of product format")

eter	
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="Observation identifier")
StringParameter	obsMode (description="Observation mode name")
LongParameter	odNumber (description="Operational day number")
StringParameter	origin (description="Site that created the product")
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")
StringParam-	raDeSys (description="Coordinate reference frame for the RA and DEC")

eter	
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")
LongParameter	QcPhaseWrap (description="Number of phase wraps")
StringParameter	apodTpye (description="Type of Apodization applied")

BooleanParameter	phaseCorrApplied (description="Phase correction has been applied")
DoubleParameter	ratioSpectralOutliersSLW (description="Identified outliers/Total samples from SLW detectors")
DoubleParameter	ratioSpectralOutliersSSW (description="Identified outliers/Total samples from SSW detectors")
DoubleParameter	ratioSpectralDifferenceSLW (description="Ratio of spectral difference across SLW detectors")
DoubleParameter	ratioSpectralDifferenceSSW (description="Ratio of spectral difference across SSW detectors")
StringParameter	source (description="TM source packet name")
LongParameter	phaseWrapSSW (description="Number of times that in-band phase changes by +/-2pi in any of the SSW detectors")
LongParameter	phaseWrapSLW (description="Number of times that in-band phase changes by +/-2pi in any of the SLW detectors")
LongParameter	missedFringes (description="Number of missed optical encoder fringes")
DoubleParameter	scanExtrema (description="Ratio of measured SMEC scan maximum to commanded scan maximum")
DoubleParam-	smecTemperature (description="Difference between maximum and minimum SMEC temperatures (in K)")

eter	
DoubleParameter	stageSpeedAverage (description="Ratio of the measured SMEC speed to the commanded SMEC speed")
DoubleParameter	stageSpeedDeviation (description="Standard deviation of the SMEC speed (in micron/s)")
DoubleParameter	ratioSpecSecondLevelGlitchesSLW (description="Ratio of number of flagged samples over number of data samples in the detectors of the SLW array")
DoubleParameter	ratioSpecSecondLevelGlitchesSSW (description="Ratio of number of flagged samples over number of data samples in the detectors of the SSW array")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSLW (description="Ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SLW array")
DoubleParameter	ratioSpecSecondLevelGlitchIdentificationProblemsSSW (description="Ratio of number of data samples where there were not enough valid scans to perform statistical outlier detection over the total number of data samples in the detectors of the SSW array")
LongParameter	numberSecondLevelGlitchCorrectionProblemsSLW (description="Number of cases where a data sample from a SLW detector that was flagged as a glitch was not corrected")
LongParameter	numberSecondLevelGlitchCorrectionProblemsSSW (description="Number of cases where a data sample from a SSW detector that was flagged as a glitch was not corrected")
DoubleParameter	biasFreq (description="Bias frequency")
StringParameter	elecSide (description="Electronic side")

StringParameter	bbTypeName (description="Building block type name")
LongParameter	maskDead (description="Mask value for dead channel")
LongParameter	maskMaster (description="Mask value for master bit")
LongParameter	maskNoisy (description="Mask value for noisy channel")
LongParameter	maskSlow (description="Mask value for slow channel")
BooleanParameter	adcErrFlag (description="Presence of ADC Latch errors")
DoubleParameter	ratioTruncated (description="Total fraction of out of range values")
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")
DoubleParam	ratioInvalidTimes (description="Fraction of invalid sample times")

eter	
LongParameter	maskInvalidTime (description="Mask value for invalid sample time")
BooleanParameter	invalidOffsetFlag (description="If true, offsets are from a previous observation")
DoubleParameter	slwBiasAmpl (description="SLW bias amplitude")
DoubleParameter	sswBiasAmpl (description="SSW bias amplitude")
BooleanParameter	rcRollApp (description="RC roll correction applied")
LongParameter	jiggId (description="Jiggle ID")
LongParameter	pointNum (description="Pointing number")
StringParameter	biasMode (description="Bias mode")
BooleanParameter	electricalCrosstalkCorrectionDone (description="null")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSSW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array")

LongParameter	numberBelowK3VoltageSSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter")
DoubleParameter	ratioSamplesOutOfCalibrationRangeSLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array")
LongParameter	numberBelowK3VoltageSLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter")
BooleanParameter	SpecNonLinearityCorrectionDone (description="null")
StringParameter	respControlStamp (description="null")
DoubleParameter	ratioHighThermistorDeviationSSW (description="Ratio of number of thermistor samples that are out of the calibrated voltage range over number of data samples in the thermistors of this array")
DoubleParameter	ratioHighThermistorDeviationSLW (description="Ratio of number of thermistor samples that are out of the calibrated voltage range over number of data samples in the thermistors of this array")
BooleanParameter	TemperatureDriftCorrectionDone (description="null")
LongParameter	numberClippedDetectorsSLW (description="Number of detectors in SLW where at least one sample was flagged as clipped and could not be corrected")
LongParameter	numberClippedDetectorsSSW (description="Number of detectors in SSW where at least one sample was flagged as clipped and could not be corrected")
DoubleParam-	deltaSCalTemp (description="SCal maximum temperature variation (in K)")

eter	
DoubleParameter	deltaSCal2Temp (description="SCal2 maximum temperature variation (in K)")
DoubleParameter	deltaSCal4Temp (description="SCal4 maximum temperature variation (in K)")
LongParameter	maskGlitchDetected (description="Mask value for glitch detected")
LongParameter	maskGlitchNotRemoved (description="Mask value for glitch detected and not removed")
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")

LongParameter	maskVoltageBelowK3 (description="Mask value for voltage below K3")
LongParameter	maskNoRespData (description="Mask value for voltage out of fitted range and/or below K3")
LongParameter	maskTsignalHdv (description="Mask value for thermistor/DP signal deviations are larger than expected")
LongParameter	maskBsmChopOol (description="Mask value for sample falls outside BSM chop soft limits")
LongParameter	maskBsmJiggOol (description="Mask value for sample falls outside BSM Jiggle soft limits")
StringParameter	level (description="The level of the product")
composite	*(description="null")*
Metadata	
LongParameter	count (description="Interferogram Number")
StringParameter	scanDir (description="Scan Direction")
LongParameter	scanNumber (description="Scan Number")
DoubleParameter	resolution (description="Resolution")

table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	waveunit (description="Units of the WaveColumn")
Double1d	wave (description="Wavenumber", quantity="cm-1 [100.0 m-1]")
Double1d	flux (description="flux", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	error (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Int1d	mask (description="Mask", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	waveunit (description="Units of the WaveColumn")
Double1d	wave (description="Wavenumber", quantity="cm-1 [100.0 m-1]")
Double1d	flux (description="flux", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	error (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Int1d	mask (description="Mask", quantity="none")

table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	waveunit (description="Units of the WaveColumn")
Double1d	wave (description="Wavenumber", quantity="cm-1 [100.0 m-1]")
Double1d	flux (description="flux", quantity="Jy [1.0E-26 W/m2/Hz]")
Double1d	error (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
Int1d	mask (description="Mask", quantity="none")

11.4. SPIRE Level-2 Products

11.4.1. JPP: Jiggled Photometer Product

product (type="JPP", description="Jiggled Photometer Product")	
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")
DateParameter	endDate (description="End Date")
StringParameter	formatVersion (description="Version of product format")
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="Observation identifier")
StringParameter	obsMode (description="Observation mode name")
LongParameter	odNumber (description="Operational day number")
StringParameter	origin (description="Site that created the product")
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")
LongParameter	denodDropped (description="Number of pixel/jiggle position where a complete ABBA is not found")
StringParameter	level (description="The level of the product")
StringParameter	subsystem (description="null")

StringParameter	source (description="TM source packet name")
DoubleParameter	biasFreq (description="Bias frequency")
LongParameter	rasterId (description="Raster id")
DoubleParameter	ratioPhotFirstLevelGlitchesPLW (description="null")
DoubleParameter	ratioPhotFirstLevelGlitchesPMW (description="null")
DoubleParameter	ratioPhotFirstLevelGlitchesPSW (description="null")
DoubleParameter	ratioSamplesOutOfCalibrationRangePLW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array")
DoubleParameter	ratioSamplesOutOfCalibrationRangePMW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array")
DoubleParameter	ratioSamplesOutOfCalibrationRangePSW (description="Ratio of number of samples that are out of the calibrated voltage range over number of data samples in the detectors of this array")
LongParameter	numberBelowK3VoltagePLW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter")
LongParameter	numberBelowK3VoltagePMW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter")
LongParameter	numberBelowK3VoltagePSW (description="Number of samples measured by any detector in this array for which the voltage is less than the value of the K3 calibration parameter")
DoubleParameter	chopCyclePositionUncertainty (description="Chopper Position Uncertainty adu")
LongParameter	numberBsmChopSoftLimit (description="null")
LongParameter	numberBsmJiggleSoftLimit (description="null")
LongParameter	numberMissingPositions (description="Number of Missing Positions")
DoubleParameter	ratioJiggleOutlierPLW (description="null")
DoubleParameter	ratioJiggleOutlierPMW (description="null")
DoubleParameter	ratioJiggleOutlierPSW (description="null")
DoubleParameter	ratioPhotSecondLevelGlitchesPLW (description="null")
DoubleParameter	ratioPhotSecondLevelGlitchesPMW (description="null")
DoubleParameter	ratioPhotSecondLevelGlitchesPSW (description="null")
StringParameter	elecSide (description="Electronic side")

DoubleParameter	plwBiasAmpl (description="PLW bias amplitude")
DoubleParameter	pmwBiasAmpl (description="PMW bias amplitude")
DoubleParameter	pswBiasAmpl (description="PSW bias amplitude")
DoubleParameter	ptcBiasAmpl (description="PTC bias amplitude")
StringParameter	biasMode (description="Bias mode")
LongParameter	maskDead (description="Mask value for dead channel")
LongParameter	maskMaster (description="Mask value for master bit")
LongParameter	maskNoisy (description="Mask value for noisy channel")
LongParameter	maskSlow (description="Mask value for slow channel")
LongParameter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky")
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	maskInvalidTime (description="Mask value for invalid sample time")
LongParameter	maskGlitchDetected (description="Mask value for glitch detected")
LongParameter	maskGlitchNotRemoved (description="Mask value for glitch detected and not removed")
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")
LongParameter	maskVoltageBelowK3 (description="Mask value for voltage below K3")
LongParameter	maskNoRespData (description="Mask value for V0 and/or K flag set")
LongParameter	maskTsignalHdv (description="Mask value for thermistor/DP signal deviations larger than expected")
DoubleParameter	spireNodPointingUncertainty (description="Nod Pointing Uncertainty in arcsec")
LongParameter	bbid (description="Building Block Identifier")
BooleanParameter	OpticalCrosstalkCorrectionDone (description="null")
DoubleParameter	spireAverageNodPointingUncertainty (description="Average Nod Pointing Uncertainty in arcsec")
DoubleParameter	ratioNodOutlierPSW (description="Fraction of 5 sigma outliers of the signal from the individual nod cycles for PSW array")
DoubleParameter	ratioNodOutlierPLW (description="Fraction of 5 sigma outliers of the signal from the individual nod cycles for PLW array")

DoubleParameter	ratioNodOutlierPMW (description="Fraction of 5 sigma outliers of the signal from the individual nod cycles for PMW array")
LongParameter	nFitsPSW (description="null")
LongParameter	nFitsPMW (description="null")
LongParameter	nFitsPLW (description="null")
DoubleParameter	pointSourceFluxDiffPSW (description="Difference in the flux computed from the positive and negative images of the source on the PSW array")
BooleanParameter	pointSourceNegativeFluxPSWFlag (description="Negative flux measured for point source on PSW array")
DoubleParameter	pointSourcePositionDiffPSWCommanded (description="Difference in the measured radial distance calculated from the RA and Dec on the PSW array and the commanded target position in arcsec")
DoubleParameter	pointSourceFluxDiffPMW (description="Difference in the flux computed from the positive and negative images of the source on the PMW array")
BooleanParameter	pointSourceNegativeFluxPMWFlag (description="Negative flux measured for point source on PMW array")
DoubleParameter	pointSourcePositionDiffPMWCommanded (description="Difference in the measured radial distance calculated from the RA and Dec on the PMW array and the commanded target position in arcsec")
DoubleParameter	pointSourceFluxDiffPLW (description="Difference in the flux computed from the positive and negative images of the source on the PLW array")
BooleanParameter	pointSourceNegativeFluxPLWFlag (description="Negative flux measured for point source on PLW array")
DoubleParameter	pointSourcePositionDiffPLWCommanded (description="Difference in the measured radial distance calculated from the RA and Dec on the PLW array and the commanded target position in arcsec")
DoubleParameter	pointSourcePositionDiffPSWPMW (description="Difference in the radial distance calculated from the RA and Dec of the point source measured on the PSW and PMW arrays in arcsec")
DoubleParameter	pointSourcePositionDiffPSWPLW (description="Difference in the radial distance calculated from the RA and Dec of the point source measured on the PSW and PLW arrays in arcsec")
DoubleParameter	pointSourcePositionDiffPMWPLW (description="Difference in the radial distance calculated from the RA and Dec of the point source measured on the PMW and PLW arrays in arcsec")
table dataset	*(description="Contents")*
Metadata	
String1d	arrayName (description="null", quantity="none")
Double1d	ra (description="null", quantity="none")
Double1d	errRa (description="null", quantity="none")
Double1d	dec (description="null", quantity="none")
Double1d	errDec (description="null", quantity="none")
Double1d	signal (description="null", quantity="none")
Double1d	error (description="null", quantity="none")
composite	*(description="History of product")*
Metadata	

table dataset	*(description="History as Jython script")*
Metadata	
StringParameter	outvar (description="last output variable")
String1d	Lines (description="script lines", quantity="none")
table dataset	*(description="History of tasks")*
Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")
String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

11.4.2. PMP: Photometer Map Product

product (type="PMP", description="PLW map")	
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	formatVersion (description="Version of product format")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken")

LongParameter	firstSample (description="null")
LongParameter	lastSample (description="null")
LongParameter	naxis (description="WCS: Number of Axes")
DoubleParameter	crpix1 (description="null")
DoubleParameter	crpix2 (description="null")
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	equinox (description="Equinox of celestial coordinate system")
DoubleParameter	crota2 (description="The Rotation angle")
LongParameter	naxis1 (description="null")
LongParameter	naxis2 (description="null")
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")
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="Observation identifier")
StringParameter	obsMode (description="Observation mode name")
LongParameter	odNumber (description="Operational day number")
StringParameter	origin (description="Site that created the product")
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	arrayName (description="Name of the bolometer array")
StringParameter	unit (description="Unit of the signal")
DoubleParameter	ratioInvalidSampleInTimeline (description="null")
DoubleParameter	ratioInvalidCoordsInTimeline (description="null")

LongParameter	nMemoryCompatibleTodSlices (description="Number of times the input Tod had to be sliced to fit into the memory.")
StringParameter	level (description="The level of the product")
BooleanParameter	isMapmakingFailedPLWFlag (description="Flag indicating that the PLW map could not be produced.")
array dataset	*(description="Image")*
Metadata	
LongParameter	naxis1 (description="null")
LongParameter	naxis2 (description="null")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
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	equinox (description="WCS: Equinox, unit=Duration")
DoubleParameter	crota2 (description="The Rotation angle")
Double2d	(description="Image", quantity="Jy/beam [1.0E-26 W/(m2.Hz.beam)]")
array dataset	*(description="Statistical error on the pixel values")*
Metadata	
Double2d	(description="Statistical error on the pixel values", quantity="Jy/beam [1.0E-26 W/(m2.Hz.beam)]")
array dataset	*(description="Coverage")*
Metadata	
Double2d	(description="Coverage", quantity="")

Chapter 12. SPIRE Calibration Products

12.1. SPIRE Calibration History Products

12.1.1. SCalResetHist

product (type="SCalResetHist", description="DPU Counter Reset History Table")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="Version")
StringParameter	subsystem (description="Instrument subsystem")
LongParameter	odNumber (description="Operational day number")
table dataset	*(description="DPU reset times")*
Metadata	
Long1d	resetTime (description="DPU counter reset time (in CUC format)", quantity="")

12.1.2. SCalPhotOffsetHist

product (type="SCalPhotOffsetHist", description="Photometer Channel Offset History")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="Version")
StringParameter	subsystem (description="Instrument subsystem")
LongParameter	odNumber (description="Operational day number")

table dataset	*(description="null")*
Metadata	
Double1d	sampleTime (description="Sample time", quantity="s")
Int1d	PSWA1 (description="PSWA1 signal offset", quantity="")
Int1d	PSWA2 (description="PSWA2 signal offset", quantity="")
Int1d	PSWA3 (description="PSWA3 signal offset", quantity="")
Int1d	PSWA4 (description="PSWA4 signal offset", quantity="")
Int1d	PSWA5 (description="PSWA5 signal offset", quantity="")
Int1d	PSWA6 (description="PSWA6 signal offset", quantity="")
Int1d	PSWA7 (description="PSWA7 signal offset", quantity="")
Int1d	PSWA8 (description="PSWA8 signal offset", quantity="")
Int1d	PSWA9 (description="PSWA9 signal offset", quantity="")
Int1d	PSWA10 (description="PSWA10 signal offset", quantity="")
Int1d	PSWA11 (description="PSWA11 signal offset", quantity="")
Int1d	PSWA12 (description="PSWA12 signal offset", quantity="")
Int1d	PSWA13 (description="PSWA13 signal offset", quantity="")
Int1d	PSWA14 (description="PSWA14 signal offset", quantity="")
Int1d	PSWA15 (description="PSWA15 signal offset", quantity="")
Int1d	PSWB1 (description="PSWB1 signal offset", quantity="")
Int1d	PSWB2 (description="PSWB2 signal offset", quantity="")
Int1d	PSWB3 (description="PSWB3 signal offset", quantity="")
Int1d	PSWB4 (description="PSWB4 signal offset", quantity="")
Int1d	PSWB5 (description="PSWB5 signal offset", quantity="")
Int1d	PSWB6 (description="PSWB6 signal offset", quantity="")
Int1d	PSWB7 (description="PSWB7 signal offset", quantity="")
Int1d	PSWB8 (description="PSWB8 signal offset", quantity="")
Int1d	PSWB9 (description="PSWB9 signal offset", quantity="")
Int1d	PSWB10 (description="PSWB10 signal offset", quantity="")
Int1d	PSWB11 (description="PSWB11 signal offset", quantity="")
Int1d	PSWB12 (description="PSWB12 signal offset", quantity="")
Int1d	PSWB13 (description="PSWB13 signal offset", quantity="")
Int1d	PSWB14 (description="PSWB14 signal offset", quantity="")
Int1d	PSWB15 (description="PSWB15 signal offset", quantity="")
Int1d	PSWB16 (description="PSWB16 signal offset", quantity="")
Int1d	PSWC1 (description="PSWC1 signal offset", quantity="")
Int1d	PSWC2 (description="PSWC2 signal offset", quantity="")
Int1d	PSWC3 (description="PSWC3 signal offset", quantity="")
Int1d	PSWC4 (description="PSWC4 signal offset", quantity="")
Int1d	PSWC5 (description="PSWC5 signal offset", quantity="")
Int1d	PSWC6 (description="PSWC6 signal offset", quantity="")
Int1d	PSWC7 (description="PSWC7 signal offset", quantity="")
Int1d	PSWC8 (description="PSWC8 signal offset", quantity="")

Int1d	PSWC9 (description="PSWC9 signal offset", quantity="")
Int1d	PSWC10 (description="PSWC10 signal offset", quantity="")
Int1d	PSWC11 (description="PSWC11 signal offset", quantity="")
Int1d	PSWC12 (description="PSWC12 signal offset", quantity="")
Int1d	PSWC13 (description="PSWC13 signal offset", quantity="")
Int1d	PSWC14 (description="PSWC14 signal offset", quantity="")
Int1d	PSWC15 (description="PSWC15 signal offset", quantity="")
Int1d	PSWD1 (description="PSWD1 signal offset", quantity="")
Int1d	PSWD2 (description="PSWD2 signal offset", quantity="")
Int1d	PSWD3 (description="PSWD3 signal offset", quantity="")
Int1d	PSWD4 (description="PSWD4 signal offset", quantity="")
Int1d	PSWD5 (description="PSWD5 signal offset", quantity="")
Int1d	PSWD6 (description="PSWD6 signal offset", quantity="")
Int1d	PSWD7 (description="PSWD7 signal offset", quantity="")
Int1d	PSWD8 (description="PSWD8 signal offset", quantity="")
Int1d	PSWD9 (description="PSWD9 signal offset", quantity="")
Int1d	PSWD10 (description="PSWD10 signal offset", quantity="")
Int1d	PSWD11 (description="PSWD11 signal offset", quantity="")
Int1d	PSWD12 (description="PSWD12 signal offset", quantity="")
Int1d	PSWD13 (description="PSWD13 signal offset", quantity="")
Int1d	PSWD14 (description="PSWD14 signal offset", quantity="")
Int1d	PSWD15 (description="PSWD15 signal offset", quantity="")
Int1d	PSWD16 (description="PSWD16 signal offset", quantity="")
Int1d	PSWE1 (description="PSWE1 signal offset", quantity="")
Int1d	PSWE2 (description="PSWE2 signal offset", quantity="")
Int1d	PSWE3 (description="PSWE3 signal offset", quantity="")
Int1d	PSWE4 (description="PSWE4 signal offset", quantity="")
Int1d	PSWE5 (description="PSWE5 signal offset", quantity="")
Int1d	PSWE6 (description="PSWE6 signal offset", quantity="")
Int1d	PSWE7 (description="PSWE7 signal offset", quantity="")
Int1d	PSWE8 (description="PSWE8 signal offset", quantity="")
Int1d	PSWE9 (description="PSWE9 signal offset", quantity="")
Int1d	PSWE10 (description="PSWE10 signal offset", quantity="")
Int1d	PSWE11 (description="PSWE11 signal offset", quantity="")
Int1d	PSWE12 (description="PSWE12 signal offset", quantity="")
Int1d	PSWE13 (description="PSWE13 signal offset", quantity="")
Int1d	PSWE14 (description="PSWE14 signal offset", quantity="")
Int1d	PSWE15 (description="PSWE15 signal offset", quantity="")
Int1d	PSWF1 (description="PSWF1 signal offset", quantity="")
Int1d	PSWF2 (description="PSWF2 signal offset", quantity="")
Int1d	PSWF3 (description="PSWF3 signal offset", quantity="")
Int1d	PSWF4 (description="PSWF4 signal offset", quantity="")

Int1d	PSWF5 (description="PSWF5 signal offset", quantity="")
Int1d	PSWF6 (description="PSWF6 signal offset", quantity="")
Int1d	PSWF7 (description="PSWF7 signal offset", quantity="")
Int1d	PSWF8 (description="PSWF8 signal offset", quantity="")
Int1d	PSWF9 (description="PSWF9 signal offset", quantity="")
Int1d	PSWF10 (description="PSWF10 signal offset", quantity="")
Int1d	PSWF11 (description="PSWF11 signal offset", quantity="")
Int1d	PSWF12 (description="PSWF12 signal offset", quantity="")
Int1d	PSWF13 (description="PSWF13 signal offset", quantity="")
Int1d	PSWF14 (description="PSWF14 signal offset", quantity="")
Int1d	PSWF15 (description="PSWF15 signal offset", quantity="")
Int1d	PSWF16 (description="PSWF16 signal offset", quantity="")
Int1d	PSWG1 (description="PSWG1 signal offset", quantity="")
Int1d	PSWG2 (description="PSWG2 signal offset", quantity="")
Int1d	PSWG3 (description="PSWG3 signal offset", quantity="")
Int1d	PSWG4 (description="PSWG4 signal offset", quantity="")
Int1d	PSWG5 (description="PSWG5 signal offset", quantity="")
Int1d	PSWG6 (description="PSWG6 signal offset", quantity="")
Int1d	PSWG7 (description="PSWG7 signal offset", quantity="")
Int1d	PSWG8 (description="PSWG8 signal offset", quantity="")
Int1d	PSWG9 (description="PSWG9 signal offset", quantity="")
Int1d	PSWG10 (description="PSWG10 signal offset", quantity="")
Int1d	PSWG11 (description="PSWG11 signal offset", quantity="")
Int1d	PSWG12 (description="PSWG12 signal offset", quantity="")
Int1d	PSWG13 (description="PSWG13 signal offset", quantity="")
Int1d	PSWG14 (description="PSWG14 signal offset", quantity="")
Int1d	PSWG15 (description="PSWG15 signal offset", quantity="")
Int1d	PSWH1 (description="PSWH1 signal offset", quantity="")
Int1d	PSWH2 (description="PSWH2 signal offset", quantity="")
Int1d	PSWH3 (description="PSWH3 signal offset", quantity="")
Int1d	PSWH4 (description="PSWH4 signal offset", quantity="")
Int1d	PSWH5 (description="PSWH5 signal offset", quantity="")
Int1d	PSWH6 (description="PSWH6 signal offset", quantity="")
Int1d	PSWH7 (description="PSWH7 signal offset", quantity="")
Int1d	PSWH8 (description="PSWH8 signal offset", quantity="")
Int1d	PSWH9 (description="PSWH9 signal offset", quantity="")
Int1d	PSWH10 (description="PSWH10 signal offset", quantity="")
Int1d	PSWH11 (description="PSWH11 signal offset", quantity="")
Int1d	PSWH12 (description="PSWH12 signal offset", quantity="")
Int1d	PSWH13 (description="PSWH13 signal offset", quantity="")
Int1d	PSWH14 (description="PSWH14 signal offset", quantity="")
Int1d	PSWH15 (description="PSWH15 signal offset", quantity="")

Int1d	PSWH16 (description="PSWH16 signal offset", quantity="")
Int1d	PSWJ1 (description="PSWJ1 signal offset", quantity="")
Int1d	PSWJ2 (description="PSWJ2 signal offset", quantity="")
Int1d	PSWJ3 (description="PSWJ3 signal offset", quantity="")
Int1d	PSWJ4 (description="PSWJ4 signal offset", quantity="")
Int1d	PSWJ5 (description="PSWJ5 signal offset", quantity="")
Int1d	PSWJ6 (description="PSWJ6 signal offset", quantity="")
Int1d	PSWJ7 (description="PSWJ7 signal offset", quantity="")
Int1d	PSWJ8 (description="PSWJ8 signal offset", quantity="")
Int1d	PSWJ9 (description="PSWJ9 signal offset", quantity="")
Int1d	PSWJ10 (description="PSWJ10 signal offset", quantity="")
Int1d	PSWJ11 (description="PSWJ11 signal offset", quantity="")
Int1d	PSWJ12 (description="PSWJ12 signal offset", quantity="")
Int1d	PSWJ13 (description="PSWJ13 signal offset", quantity="")
Int1d	PSWJ14 (description="PSWJ14 signal offset", quantity="")
Int1d	PSWJ15 (description="PSWJ15 signal offset", quantity="")
Int1d	PSWDP1 (description="PSWDP1 signal offset", quantity="")
Int1d	PSWDP2 (description="PSWDP2 signal offset", quantity="")
Int1d	PSWR1 (description="PSWR1 signal offset", quantity="")
Int1d	PSWT1 (description="PSWT1 signal offset", quantity="")
Int1d	PSWT2 (description="PSWT2 signal offset", quantity="")
Int1d	PMWA1 (description="PMWA1 signal offset", quantity="")
Int1d	PMWA2 (description="PMWA2 signal offset", quantity="")
Int1d	PMWA3 (description="PMWA3 signal offset", quantity="")
Int1d	PMWA4 (description="PMWA4 signal offset", quantity="")
Int1d	PMWA5 (description="PMWA5 signal offset", quantity="")
Int1d	PMWA6 (description="PMWA6 signal offset", quantity="")
Int1d	PMWA7 (description="PMWA7 signal offset", quantity="")
Int1d	PMWA8 (description="PMWA8 signal offset", quantity="")
Int1d	PMWA9 (description="PMWA9 signal offset", quantity="")
Int1d	PMWA10 (description="PMWA10 signal offset", quantity="")
Int1d	PMWA11 (description="PMWA11 signal offset", quantity="")
Int1d	PMWA12 (description="PMWA12 signal offset", quantity="")
Int1d	PMWA13 (description="PMWA13 signal offset", quantity="")
Int1d	PMWB1 (description="PMWB1 signal offset", quantity="")
Int1d	PMWB2 (description="PMWB2 signal offset", quantity="")
Int1d	PMWB3 (description="PMWB3 signal offset", quantity="")
Int1d	PMWB4 (description="PMWB4 signal offset", quantity="")
Int1d	PMWB5 (description="PMWB5 signal offset", quantity="")
Int1d	PMWB6 (description="PMWB6 signal offset", quantity="")
Int1d	PMWB7 (description="PMWB7 signal offset", quantity="")
Int1d	PMWB8 (description="PMWB8 signal offset", quantity="")

Int1d	PMWB9 (description="PMWB9 signal offset", quantity="")
Int1d	PMWB10 (description="PMWB10 signal offset", quantity="")
Int1d	PMWB11 (description="PMWB11 signal offset", quantity="")
Int1d	PMWB12 (description="PMWB12 signal offset", quantity="")
Int1d	PMWC1 (description="PMWC1 signal offset", quantity="")
Int1d	PMWC2 (description="PMWC2 signal offset", quantity="")
Int1d	PMWC3 (description="PMWC3 signal offset", quantity="")
Int1d	PMWC4 (description="PMWC4 signal offset", quantity="")
Int1d	PMWC5 (description="PMWC5 signal offset", quantity="")
Int1d	PMWC6 (description="PMWC6 signal offset", quantity="")
Int1d	PMWC7 (description="PMWC7 signal offset", quantity="")
Int1d	PMWC8 (description="PMWC8 signal offset", quantity="")
Int1d	PMWC9 (description="PMWC9 signal offset", quantity="")
Int1d	PMWC10 (description="PMWC10 signal offset", quantity="")
Int1d	PMWC11 (description="PMWC11 signal offset", quantity="")
Int1d	PMWC12 (description="PMWC12 signal offset", quantity="")
Int1d	PMWC13 (description="PMWC13 signal offset", quantity="")
Int1d	PMWD1 (description="PMWD1 signal offset", quantity="")
Int1d	PMWD2 (description="PMWD2 signal offset", quantity="")
Int1d	PMWD3 (description="PMWD3 signal offset", quantity="")
Int1d	PMWD4 (description="PMWD4 signal offset", quantity="")
Int1d	PMWD5 (description="PMWD5 signal offset", quantity="")
Int1d	PMWD6 (description="PMWD6 signal offset", quantity="")
Int1d	PMWD7 (description="PMWD7 signal offset", quantity="")
Int1d	PMWD8 (description="PMWD8 signal offset", quantity="")
Int1d	PMWD9 (description="PMWD9 signal offset", quantity="")
Int1d	PMWD10 (description="PMWD10 signal offset", quantity="")
Int1d	PMWD11 (description="PMWD11 signal offset", quantity="")
Int1d	PMWD12 (description="PMWD12 signal offset", quantity="")
Int1d	PMWE1 (description="PMWE1 signal offset", quantity="")
Int1d	PMWE2 (description="PMWE2 signal offset", quantity="")
Int1d	PMWE3 (description="PMWE3 signal offset", quantity="")
Int1d	PMWE4 (description="PMWE4 signal offset", quantity="")
Int1d	PMWE5 (description="PMWE5 signal offset", quantity="")
Int1d	PMWE6 (description="PMWE6 signal offset", quantity="")
Int1d	PMWE7 (description="PMWE7 signal offset", quantity="")
Int1d	PMWE8 (description="PMWE8 signal offset", quantity="")
Int1d	PMWE9 (description="PMWE9 signal offset", quantity="")
Int1d	PMWE10 (description="PMWE10 signal offset", quantity="")
Int1d	PMWE11 (description="PMWE11 signal offset", quantity="")
Int1d	PMWE12 (description="PMWE12 signal offset", quantity="")
Int1d	PMWE13 (description="PMWE13 signal offset", quantity="")

Int1d	PMWF1 (description="PMWF1 signal offset", quantity="")
Int1d	PMWF2 (description="PMWF2 signal offset", quantity="")
Int1d	PMWF3 (description="PMWF3 signal offset", quantity="")
Int1d	PMWF4 (description="PMWF4 signal offset", quantity="")
Int1d	PMWF5 (description="PMWF5 signal offset", quantity="")
Int1d	PMWF6 (description="PMWF6 signal offset", quantity="")
Int1d	PMWF7 (description="PMWF7 signal offset", quantity="")
Int1d	PMWF8 (description="PMWF8 signal offset", quantity="")
Int1d	PMWF9 (description="PMWF9 signal offset", quantity="")
Int1d	PMWF10 (description="PMWF10 signal offset", quantity="")
Int1d	PMWF11 (description="PMWF11 signal offset", quantity="")
Int1d	PMWF12 (description="PMWF12 signal offset", quantity="")
Int1d	PMWG1 (description="PMWG1 signal offset", quantity="")
Int1d	PMWG2 (description="PMWG2 signal offset", quantity="")
Int1d	PMWG3 (description="PMWG3 signal offset", quantity="")
Int1d	PMWG4 (description="PMWG4 signal offset", quantity="")
Int1d	PMWG5 (description="PMWG5 signal offset", quantity="")
Int1d	PMWG6 (description="PMWG6 signal offset", quantity="")
Int1d	PMWG7 (description="PMWG7 signal offset", quantity="")
Int1d	PMWG8 (description="PMWG8 signal offset", quantity="")
Int1d	PMWG9 (description="PMWG9 signal offset", quantity="")
Int1d	PMWG10 (description="PMWG10 signal offset", quantity="")
Int1d	PMWG11 (description="PMWG11 signal offset", quantity="")
Int1d	PMWG12 (description="PMWG12 signal offset", quantity="")
Int1d	PMWG13 (description="PMWG13 signal offset", quantity="")
Int1d	PMWDP1 (description="PMWDP1 signal offset", quantity="")
Int1d	PMWDP2 (description="PMWDP2 signal offset", quantity="")
Int1d	PMWR1 (description="PMWR1 signal offset", quantity="")
Int1d	PMWT1 (description="PMWT1 signal offset", quantity="")
Int1d	PMWT2 (description="PMWT2 signal offset", quantity="")
Int1d	PLWA1 (description="PLWA1 signal offset", quantity="")
Int1d	PLWA2 (description="PLWA2 signal offset", quantity="")
Int1d	PLWA3 (description="PLWA3 signal offset", quantity="")
Int1d	PLWA4 (description="PLWA4 signal offset", quantity="")
Int1d	PLWA5 (description="PLWA5 signal offset", quantity="")
Int1d	PLWA6 (description="PLWA6 signal offset", quantity="")
Int1d	PLWA7 (description="PLWA7 signal offset", quantity="")
Int1d	PLWA8 (description="PLWA8 signal offset", quantity="")
Int1d	PLWA9 (description="PLWA9 signal offset", quantity="")
Int1d	PLWB1 (description="PLWB1 signal offset", quantity="")
Int1d	PLWB2 (description="PLWB2 signal offset", quantity="")
Int1d	PLWB3 (description="PLWB3 signal offset", quantity="")

Int1d	PLWB4 (description="PLWB4 signal offset", quantity="")
Int1d	PLWB5 (description="PLWB5 signal offset", quantity="")
Int1d	PLWB6 (description="PLWB6 signal offset", quantity="")
Int1d	PLWB7 (description="PLWB7 signal offset", quantity="")
Int1d	PLWB8 (description="PLWB8 signal offset", quantity="")
Int1d	PLWC1 (description="PLWC1 signal offset", quantity="")
Int1d	PLWC2 (description="PLWC2 signal offset", quantity="")
Int1d	PLWC3 (description="PLWC3 signal offset", quantity="")
Int1d	PLWC4 (description="PLWC4 signal offset", quantity="")
Int1d	PLWC5 (description="PLWC5 signal offset", quantity="")
Int1d	PLWC6 (description="PLWC6 signal offset", quantity="")
Int1d	PLWC7 (description="PLWC7 signal offset", quantity="")
Int1d	PLWC8 (description="PLWC8 signal offset", quantity="")
Int1d	PLWC9 (description="PLWC9 signal offset", quantity="")
Int1d	PLWD1 (description="PLWD1 signal offset", quantity="")
Int1d	PLWD2 (description="PLWD2 signal offset", quantity="")
Int1d	PLWD3 (description="PLWD3 signal offset", quantity="")
Int1d	PLWD4 (description="PLWD4 signal offset", quantity="")
Int1d	PLWD5 (description="PLWD5 signal offset", quantity="")
Int1d	PLWD6 (description="PLWD6 signal offset", quantity="")
Int1d	PLWD7 (description="PLWD7 signal offset", quantity="")
Int1d	PLWD8 (description="PLWD8 signal offset", quantity="")
Int1d	PLWE1 (description="PLWE1 signal offset", quantity="")
Int1d	PLWE2 (description="PLWE2 signal offset", quantity="")
Int1d	PLWE3 (description="PLWE3 signal offset", quantity="")
Int1d	PLWE4 (description="PLWE4 signal offset", quantity="")
Int1d	PLWE5 (description="PLWE5 signal offset", quantity="")
Int1d	PLWE6 (description="PLWE6 signal offset", quantity="")
Int1d	PLWE7 (description="PLWE7 signal offset", quantity="")
Int1d	PLWE8 (description="PLWE8 signal offset", quantity="")
Int1d	PLWE9 (description="PLWE9 signal offset", quantity="")
Int1d	PLWDP1 (description="PLWDP1 signal offset", quantity="")
Int1d	PLWDP2 (description="PLWDP2 signal offset", quantity="")
Int1d	PLWR1 (description="PLWR1 signal offset", quantity="")
Int1d	PLWT1 (description="PLWT1 signal offset", quantity="")
Int1d	PLWT2 (description="PLWT2 signal offset", quantity="")
Int1d	PTCP3 (description="PTCP3 signal offset", quantity="")
Int1d	PTCP2 (description="PTCP2 signal offset", quantity="")
Int1d	PTCP1 (description="PTCP1 signal offset", quantity="")
Long1d	obsid (description="Observation ID", quantity="")

12.2. SPIRE Photometer Calibration Products

12.2.1. SCalPhotChanNum

product (type="SCalPhotChanNum", description="Photometer Channel Number Mapping Table")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
table dataset	*(description="Table for PSW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Int1d	fullChannel (description="Full Channel Number", quantity="")
Int1d	indivChannel (description="Individual Channel Number", quantity="")
Bool1d	isAligned (description="Aligned Channels", quantity="")
Int1d	jfetGroup (description="JFET group", quantity="")
String1d	jfetMembrane (description="JFET membrane", quantity="")
Int1d	liaBoard (description="LIA board", quantity="")
Int1d	adcChannel (description="ADC channel", quantity="")
Bool1d	isConnected (description="Connected Channels", quantity="")
Bool1d	isBolometer (description="Bolometer Channels", quantity="")
Bool1d	isThermistor (description="Thermistor Channels", quantity="")
Bool1d	isResistor (description="Resistor Channels", quantity="")
Bool1d	isDark (description="Dark Channels", quantity="")
Bool1d	isPtc (description="PTC Channels", quantity="")
table dataset	*(description="Table for PMW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Int1d	fullChannel (description="Full Channel Number", quantity="")
Int1d	indivChannel (description="Individual Channel Number", quantity="")
Bool1d	isAligned (description="Aligned Channels", quantity="")
Int1d	jfetGroup (description="JFET group", quantity="")
String1d	jfetMembrane (description="JFET membrane", quantity="")

Int1d	liaBoard (description="LIA board", quantity="")
Int1d	adcChannel (description="ADC channel", quantity="")
Bool1d	isConnected (description="Connected Channels", quantity="")
Bool1d	isBolometer (description="Bolometer Channels", quantity="")
Bool1d	isThermistor (description="Thermistor Channels", quantity="")
Bool1d	isResistor (description="Resistor Channels", quantity="")
Bool1d	isDark (description="Dark Channels", quantity="")
Bool1d	isPtc (description="PTC Channels", quantity="")
table dataset	*(description="Table for PLW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Int1d	fullChannel (description="Full Channel Number", quantity="")
Int1d	indivChannel (description="Individual Channel Number", quantity="")
Bool1d	isAligned (description="Aligned Channels", quantity="")
Int1d	jfetGroup (description="JFET group", quantity="")
String1d	jfetMembrane (description="JFET membrane", quantity="")
Int1d	liaBoard (description="LIA board", quantity="")
Int1d	adcChannel (description="ADC channel", quantity="")
Bool1d	isConnected (description="Connected Channels", quantity="")
Bool1d	isBolometer (description="Bolometer Channels", quantity="")
Bool1d	isThermistor (description="Thermistor Channels", quantity="")
Bool1d	isResistor (description="Resistor Channels", quantity="")
Bool1d	isDark (description="Dark Channels", quantity="")
Bool1d	isPtc (description="PTC Channels", quantity="")
table dataset	*(description="Table for PTC array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Int1d	fullChannel (description="Full Channel Number", quantity="")
Int1d	indivChannel (description="Individual Channel Number", quantity="")
Bool1d	isAligned (description="Aligned Channels", quantity="")
Int1d	jfetGroup (description="JFET group", quantity="")
String1d	jfetMembrane (description="JFET membrane", quantity="")
Int1d	liaBoard (description="LIA board", quantity="")
Int1d	adcChannel (description="ADC channel", quantity="")
Bool1d	isConnected (description="Connected Channels", quantity="")
Bool1d	isBolometer (description="Bolometer Channels", quantity="")
Bool1d	isThermistor (description="Thermistor Channels", quantity="")
Bool1d	isResistor (description="Resistor Channels", quantity="")
Bool1d	isDark (description="Dark Channels", quantity="")
Bool1d	isPtc (description="PTC Channels", quantity="")

12.2.2. SCalPhotChanMask

product (type="SCalPhotChanMask", description="Photometer Channel Mask Table")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	fileName (description="null")
table dataset	*(description="Table for PSW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Bool1d	isDead (description="Dead Channels", quantity="")
Bool1d	isNoisy (description="Noisy Channels", quantity="")
Bool1d	isSlow (description="Slow Channels", quantity="")
table dataset	*(description="Table for PMW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Bool1d	isDead (description="Dead Channels", quantity="")
Bool1d	isNoisy (description="Noisy Channels", quantity="")
Bool1d	isSlow (description="Slow Channels", quantity="")
table dataset	*(description="Table for PLW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Bool1d	isDead (description="Dead Channels", quantity="")
Bool1d	isNoisy (description="Noisy Channels", quantity="")
Bool1d	isSlow (description="Slow Channels", quantity="")
table dataset	*(description="Table for PTC array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Bool1d	isDead (description="Dead Channels", quantity="")
Bool1d	isNoisy (description="Noisy Channels", quantity="")

Bool1d	isSlow (description="Slow Channels", quantity="")

12.2.3. SCalPhotInstModeMask

product (type="SCalPhotInstModeMask", description="Photometer Instrument Mode Mask Table")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	fileName (description="null")
table dataset	*(description="Table for PSW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Bool1d	POF2 (description="Detectors chopped out of FOV", quantity="")
Bool1d	POF3 (description="Detectors chopped out of FOV", quantity="")
table dataset	*(description="Table for PMW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Bool1d	POF2 (description="Detectors chopped out of FOV", quantity="")
Bool1d	POF3 (description="Detectors chopped out of FOV", quantity="")
table dataset	*(description="Table for PLW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Bool1d	POF2 (description="Detectors chopped out of FOV", quantity="")
Bool1d	POF3 (description="Detectors chopped out of FOV", quantity="")

table dataset	*(description="Table for PTC array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Bool1d	POF2 (description="Detectors chopped out of FOV", quantity="")
Bool1d	POF3 (description="Detectors chopped out of FOV", quantity="")
composite	*(description="History of product")*
Metadata	
table dataset	*(description="History as Jython script")*
Metadata	
StringParameter	outvar (description="last output variable")
String1d	Lines (description="script lines", quantity="none")
table dataset	*(description="History of tasks")*
Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")
String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

12.2.4. SCalTelemMask

product (type="SCalTelemMask", description="Telemetry Mask Table")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	fileName (description="null")
table dataset	*(description="null")*
Metadata	
String1d	tmParam (description="Telemetry Parameter Name", quantity="")
Bool1d	isUnreliable (description="Unreliable parameter", quantity="")
table dataset	*(description="null")*
Metadata	
String1d	tmParam (description="Telemetry Parameter Name", quantity="")
Bool1d	isUnreliable (description="Unreliable parameter", quantity="")
table dataset	*(description="null")*
Metadata	
String1d	tmParam (description="Telemetry Parameter Name", quantity="")
Bool1d	isUnreliable (description="Unreliable parameter", quantity="")
table dataset	*(description="null")*
Metadata	
String1d	tmParam (description="Telemetry Parameter Name", quantity="")
Bool1d	isUnreliable (description="Unreliable parameter", quantity="")
table dataset	*(description="null")*
Metadata	
String1d	tmParam (description="Telemetry Parameter Name", quantity="")

Bool1d	isUnreliable (description="Unreliable parameter", quantity="")
table dataset	*(description="null")*
Metadata	
String1d	tmParam (description="Telemetry Parameter Name", quantity="")
Bool1d	isUnreliable (description="Unreliable parameter", quantity="")
table dataset	*(description="null")*
Metadata	
String1d	tmParam (description="Telemetry Parameter Name", quantity="")
Bool1d	isUnreliable (description="Unreliable parameter", quantity="")
table dataset	*(description="null")*
Metadata	
String1d	tmParam (description="Telemetry Parameter Name", quantity="")
Bool1d	isUnreliable (description="Unreliable parameter", quantity="")
table dataset	*(description="null")*
Metadata	
String1d	tmParam (description="Telemetry Parameter Name", quantity="")
Bool1d	isUnreliable (description="Unreliable parameter", quantity="")
table dataset	*(description="null")*
Metadata	
String1d	tmParam (description="Telemetry Parameter Name", quantity="")
Bool1d	isUnreliable (description="Unreliable parameter", quantity="")

12.2.5. SCalPhotChanTimeOff

product (type="SCalPhotChanTimeOff", description="Photometer Channel Time Offset Table")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
table dataset	*(description="Table for PSW array")*

Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	offsetSingle (description="Time offset relative to single array readout", quantity="s")
Double1d	offsetFull (description="Time offset relative to full array readout", quantity="s")
table dataset	*(description="Table for PMW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	offsetSingle (description="Time offset relative to single array readout", quantity="s")
Double1d	offsetFull (description="Time offset relative to full array readout", quantity="s")
table dataset	*(description="Table for PLW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	offsetSingle (description="Time offset relative to single array readout", quantity="s")
Double1d	offsetFull (description="Time offset relative to full array readout", quantity="s")
table dataset	*(description="Table for PTC array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	offsetSingle (description="Time offset relative to single array readout", quantity="s")
Double1d	offsetFull (description="Time offset relative to full array readout", quantity="s")

12.2.6. SCalPhotChanGain

product (type="SCalPhotChanGain", description="Photometer Channel Gain Table")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
	refBiasFreq (description="Reference bias frequency")

DoubleParameter	
DoubleParameter	freqDepPhot (description="Frequency dependency parameter")
DoubleParameter	freqDepPtc (description="Frequency dependency parameter for TC")
StringParameter	fileName (description="null")
table dataset	*(description="Table for PSW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	totGain (description="LIA plus amplifier gain", quantity="")
Double1d	jfetGain (description="JFET Gain", quantity="")
table dataset	*(description="Table for PMW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	totGain (description="LIA plus amplifier gain", quantity="")
Double1d	jfetGain (description="JFET Gain", quantity="")
table dataset	*(description="Table for PLW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	totGain (description="LIA plus amplifier gain", quantity="")
Double1d	jfetGain (description="JFET Gain", quantity="")
table dataset	*(description="Table for PTC array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	totGain (description="LIA plus amplifier gain", quantity="")
Double1d	jfetGain (description="JFET Gain", quantity="")

12.2.7. SCalPhotBolPar

product (type="SCalPhotBolPar", description="Photometer Bolometer Parameter Table")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
table dataset	*(description="Table for PSW array")*
Metadata	
DoubleParameter	tempT0 (description="Reference Temperature for Bolometer Thermal Conductivity T0")
String1d	names (description="Channel names", quantity="")
Double1d	loadResPos (description="Load resistance positive bias resistor", quantity="?")
Double1d	loadResNeg (description="Load resistance negative bias resistor", quantity="?")
Double1d	resR0 (description="Bolometer Electric Resistance at Temperature de", quantity="?")
Double1d	delta (description="Reference Temperature for Bolometer Resistance", quantity="K")
Double1d	capac (description="Electrical Capacitance of Cable", quantity="F")
Double1d	condG0 (description="Bolometer Thermal Conductivity at Temperature T", quantity="")
Double1d	beta (description="Exponent for Temperature evolution of Bolometer Thermal Conductivity", quantity="")
table dataset	*(description="Table for PMW array")*
Metadata	
DoubleParameter	tempT0 (description="Reference Temperature for Bolometer Thermal Conductivity T0")
String1d	names (description="Channel names", quantity="")
Double1d	loadResPos (description="Load resistance positive bias resistor", quantity="?")
Double1d	loadResNeg (description="Load resistance negative bias resistor", quantity="?")
Double1d	resR0 (description="Bolometer Electric Resistance at Temperature de", quantity="?")
Double1d	delta (description="Reference Temperature for Bolometer Resistance", quantity="K")
Double1d	capac (description="Electrical Capacitance of Cable", quantity="F")
Double1d	condG0 (description="Bolometer Thermal Conductivity at Temperature T", quantity="")
Double1d	beta (description="Exponent for Temperature evolution of Bolometer Thermal Conductivity", quantity="")
table dataset	*(description="Table for PLW array")*
Metadata	
DoubleParameter	tempT0 (description="Reference Temperature for Bolometer Thermal Conductivity T0")
String1d	names (description="Channel names", quantity="")

Double1d	loadResPos (description="Load resistance positive bias resistor", quantity="?")
Double1d	loadResNeg (description="Load resistance negative bias resistor", quantity="?")
Double1d	resR0 (description="Bolometer Electric Resistance at Temperature de", quantity="?")
Double1d	delta (description="Reference Temperature for Bolometer Resistance", quantity="K")
Double1d	capac (description="Electrical Capacitance of Cable", quantity="F")
Double1d	condG0 (description="Bolometer Thermal Conductivity at Temperature T", quantity="")
Double1d	beta (description="Exponent for Temperature evolution of Bolometer Thermal Conductivity", quantity="")
table dataset	*(description="Table for PTC array")*
Metadata	
DoubleParameter	tempT0 (description="Reference Temperature for Bolometer Thermal Conductivity T0")
String1d	names (description="Channel names", quantity="")
Double1d	loadResPos (description="Load resistance positive bias resistor", quantity="?")
Double1d	loadResNeg (description="Load resistance negative bias resistor", quantity="?")
Double1d	resR0 (description="Bolometer Electric Resistance at Temperature de", quantity="?")
Double1d	delta (description="Reference Temperature for Bolometer Resistance", quantity="K")
Double1d	capac (description="Electrical Capacitance of Cable", quantity="F")
Double1d	condG0 (description="Bolometer Thermal Conductivity at Temperature T", quantity="")
Double1d	beta (description="Exponent for Temperature evolution of Bolometer Thermal Conductivity", quantity="")

12.2.8. SCalPhotBsmOps

product (type="SCalPhotBsmOps", description="Photometer BSM Operations Table")	
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	formatVersion (description="Version of product format")

StringParameter	version (description="null")
DoubleParameter	chopMaxSpeed (description="Speed limit for stabilisation in chop")
DoubleParameter	jiggMaxSpeed (description="Speed limit for stabilisation in jigg")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	fileName (description="null")
table dataset	*(description="Simple Chopping")*
Metadata	
StringParameter	instMode (description="null")
String1d	chopBeamId (description="Chopper Beam Identifier", quantity="")
Int1d	chopSens (description="Target sensor signal in chop direction", quantity="")
Int1d	chopHiTol (description="Positive tolerance in chop sensor signal", quantity="")
Int1d	chopLoTol (description="Negative tolerance in chop sensor signa", quantity="")
Int1d	jiggId (description="Jiggle Position Identifier", quantity="")
Int1d	jiggSens (description="Target sensor signal in jiggle direction", quantity="")
Int1d	jiggHiTol (description="Positive tolerance in jiggle sensor signal", quantity="")
Int1d	jiggLoTol (description="Negative tolerance in jiggle sensor signal", quantity="")
table dataset	*(description="7 Point Jiggle Map")*
Metadata	
StringParameter	instMode (description="null")
String1d	chopBeamId (description="Chopper Beam Identifier", quantity="")
Int1d	chopSens (description="Target sensor signal in chop direction", quantity="")
Int1d	chopHiTol (description="Positive tolerance in chop sensor signal", quantity="")
Int1d	chopLoTol (description="Negative tolerance in chop sensor signa", quantity="")
Int1d	jiggId (description="Jiggle Position Identifier", quantity="")
Int1d	jiggSens (description="Target sensor signal in jiggle direction", quantity="")
Int1d	jiggHiTol (description="Positive tolerance in jiggle sensor signal", quantity="")
Int1d	jiggLoTol (description="Negative tolerance in jiggle sensor signal", quantity="")
table dataset	*(description="N Point Jiggle Map")*
Metadata	
StringParameter	instMode (description="null")
String1d	chopBeamId (description="Chopper Beam Identifier", quantity="")

Int1d	chopSens (description="Target sensor signal in chop direction", quantity="")
Int1d	chopHiTol (description="Positive tolerance in chop sensor signal", quantity="")
Int1d	chopLoTol (description="Negative tolerance in chop sensor signa", quantity="")
Int1d	jiggId (description="Jiggle Position Identifier", quantity="")
Int1d	jiggSens (description="Target sensor signal in jiggle direction", quantity="")
Int1d	jiggHiTol (description="Positive tolerance in jiggle sensor signal", quantity="")
Int1d	jiggLoTol (description="Negative tolerance in jiggle sensor signal", quantity="")

12.2.9. SCalPhotBsmPos

product (type="SCalPhotBsmPos", description="Photometer BSM Position Table")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
LongParameter	chopRestPos (description="BSM rest position in chop direction (Y-axis)")
LongParameter	jiggRestPos (description="BSM rest position in jiggle direction (Z-axis)")
LongParameter	chopHardLimit1 (description="BSM hard lower limit in chop direction")
LongParameter	chopHardLimit2 (description="BSM hard upper limit in chop direction")
LongParameter	jiggHardLimit1 (description="BSM hard lower limit in jiggle direction")
LongParameter	jiggHardLimit2 (description="BSM hard upper limit in jiggle direction")
LongParameter	chopSoftLimit1 (description="BSM soft lower limit in chop direction")
LongParameter	chopSoftLimit2 (description="BSM soft upper limit in chop direction")
LongParameter	jiggSoftLimit1 (description="BSM soft lower limit in jiggle direction")
LongParameter	jiggSoftLimit2 (description="BSM soft upper limit in jiggle direction")
StringParameter	fileName (description="null")
table dataset	*(description="BSM angle versus chop and jiggle sensor value")*
Metadata	
Double1d	yangle (description="Angle in spacecraft Y-direction", quantity="" [4.848137E-6 rad]")
Double1d	yangleError (description="Error in Y-angl", quantity="" [4.848137E-6 rad]")

Double1d	zangle (description="Angle in spacecraft Z-direction", quantity="" [4.848137E-6 rad]")
Double1d	zangleError (description="Error in Z-angle", quantity="" [4.848137E-6 rad]")
Int1d	chopSensor (description="Sensor signal in chop direction (Y-axis)", quantity="")
Int1d	jiggSensor (description="Sensor signal in jiggle direction (Z-axis)", quantity="")

12.2.10. SCalPhotDetAngOff

product (type="SCalPhotDetAngOff", description="Photometer Detector Angular Offset Table")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	aperture (description="null")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	fileName (description="null")
table dataset	*(description="Table for PSW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	yangle (description="Angular offset in Y-direction", quantity="" [4.848137E-6 rad]")
Double1d	yangleError (description="Error on angular offset in Y-direction", quantity="" [4.848137E-6 rad]")
Double1d	zangle (description="Angular offset in Z-direction", quantity="" [4.848137E-6 rad]")
Double1d	zangleError (description="Error on angular offset in Z-direction", quantity="" [4.848137E-6 rad]")
table dataset	*(description="Table for PMW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	yangle (description="Angular offset in Y-direction", quantity="" [4.848137E-6 rad]")
Double1d	yangleError (description="Error on angular offset in Y-direction", quantity="" [4.848137E-6 rad]")

Double1d	zangle (description="Angular offset in Z-direction", quantity="" [4.848137E-6 rad]")
Double1d	zangleError (description="Error on angular offset in Z-direction", quantity="" [4.848137E-6 rad]")
table dataset	*(description="Table for PLW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	yangle (description="Angular offset in Y-direction", quantity="" [4.848137E-6 rad]")
Double1d	yangleError (description="Error on angular offset in Y-direction", quantity="" [4.848137E-6 rad]")
Double1d	zangle (description="Angular offset in Z-direction", quantity="" [4.848137E-6 rad]")
Double1d	zangleError (description="Error on angular offset in Z-direction", quantity="" [4.848137E-6 rad]")

12.2.11. SCalPhotElecCross

product (type="SCalPhotElecCross", description="Photometer Electrical Crosstalk Table")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
table dataset	*(description="Table for PSW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	PSWA1 (description="Crosstalk values", quantity="")
Double1d	PSWA2 (description="Crosstalk values", quantity="")
Double1d	PSWA3 (description="Crosstalk values", quantity="")
Double1d	PSWA4 (description="Crosstalk values", quantity="")
Double1d	PSWA5 (description="Crosstalk values", quantity="")
Double1d	PSWA6 (description="Crosstalk values", quantity="")
Double1d	PSWA7 (description="Crosstalk values", quantity="")
Double1d	PSWA8 (description="Crosstalk values", quantity="")
Double1d	PSWA9 (description="Crosstalk values", quantity="")

Double1d	PSWA10 (description="Crosstalk values", quantity="")
Double1d	PSWA11 (description="Crosstalk values", quantity="")
Double1d	PSWA12 (description="Crosstalk values", quantity="")
Double1d	PSWA13 (description="Crosstalk values", quantity="")
Double1d	PSWA14 (description="Crosstalk values", quantity="")
Double1d	PSWA15 (description="Crosstalk values", quantity="")
Double1d	PSWB1 (description="Crosstalk values", quantity="")
Double1d	PSWB2 (description="Crosstalk values", quantity="")
Double1d	PSWB3 (description="Crosstalk values", quantity="")
Double1d	PSWB4 (description="Crosstalk values", quantity="")
Double1d	PSWB5 (description="Crosstalk values", quantity="")
Double1d	PSWB6 (description="Crosstalk values", quantity="")
Double1d	PSWB7 (description="Crosstalk values", quantity="")
Double1d	PSWB8 (description="Crosstalk values", quantity="")
Double1d	PSWB9 (description="Crosstalk values", quantity="")
Double1d	PSWB10 (description="Crosstalk values", quantity="")
Double1d	PSWB11 (description="Crosstalk values", quantity="")
Double1d	PSWB12 (description="Crosstalk values", quantity="")
Double1d	PSWB13 (description="Crosstalk values", quantity="")
Double1d	PSWB14 (description="Crosstalk values", quantity="")
Double1d	PSWB15 (description="Crosstalk values", quantity="")
Double1d	PSWB16 (description="Crosstalk values", quantity="")
Double1d	PSWC1 (description="Crosstalk values", quantity="")
Double1d	PSWC2 (description="Crosstalk values", quantity="")
Double1d	PSWC3 (description="Crosstalk values", quantity="")
Double1d	PSWC4 (description="Crosstalk values", quantity="")
Double1d	PSWC5 (description="Crosstalk values", quantity="")
Double1d	PSWC6 (description="Crosstalk values", quantity="")
Double1d	PSWC7 (description="Crosstalk values", quantity="")
Double1d	PSWC8 (description="Crosstalk values", quantity="")
Double1d	PSWC9 (description="Crosstalk values", quantity="")
Double1d	PSWC10 (description="Crosstalk values", quantity="")
Double1d	PSWC11 (description="Crosstalk values", quantity="")
Double1d	PSWC12 (description="Crosstalk values", quantity="")
Double1d	PSWC13 (description="Crosstalk values", quantity="")
Double1d	PSWC14 (description="Crosstalk values", quantity="")
Double1d	PSWC15 (description="Crosstalk values", quantity="")
Double1d	PSWD1 (description="Crosstalk values", quantity="")
Double1d	PSWD2 (description="Crosstalk values", quantity="")
Double1d	PSWD3 (description="Crosstalk values", quantity="")
Double1d	PSWD4 (description="Crosstalk values", quantity="")
Double1d	PSWD5 (description="Crosstalk values", quantity="")

Double1d	PSWD6 (description="Crosstalk values", quantity="")
Double1d	PSWD7 (description="Crosstalk values", quantity="")
Double1d	PSWD8 (description="Crosstalk values", quantity="")
Double1d	PSWD9 (description="Crosstalk values", quantity="")
Double1d	PSWD10 (description="Crosstalk values", quantity="")
Double1d	PSWD11 (description="Crosstalk values", quantity="")
Double1d	PSWD12 (description="Crosstalk values", quantity="")
Double1d	PSWD13 (description="Crosstalk values", quantity="")
Double1d	PSWD14 (description="Crosstalk values", quantity="")
Double1d	PSWD15 (description="Crosstalk values", quantity="")
Double1d	PSWD16 (description="Crosstalk values", quantity="")
Double1d	PSWE1 (description="Crosstalk values", quantity="")
Double1d	PSWE2 (description="Crosstalk values", quantity="")
Double1d	PSWE3 (description="Crosstalk values", quantity="")
Double1d	PSWE4 (description="Crosstalk values", quantity="")
Double1d	PSWE5 (description="Crosstalk values", quantity="")
Double1d	PSWE6 (description="Crosstalk values", quantity="")
Double1d	PSWE7 (description="Crosstalk values", quantity="")
Double1d	PSWE8 (description="Crosstalk values", quantity="")
Double1d	PSWE9 (description="Crosstalk values", quantity="")
Double1d	PSWE10 (description="Crosstalk values", quantity="")
Double1d	PSWE11 (description="Crosstalk values", quantity="")
Double1d	PSWE12 (description="Crosstalk values", quantity="")
Double1d	PSWE13 (description="Crosstalk values", quantity="")
Double1d	PSWE14 (description="Crosstalk values", quantity="")
Double1d	PSWE15 (description="Crosstalk values", quantity="")
Double1d	PSWF1 (description="Crosstalk values", quantity="")
Double1d	PSWF2 (description="Crosstalk values", quantity="")
Double1d	PSWF3 (description="Crosstalk values", quantity="")
Double1d	PSWF4 (description="Crosstalk values", quantity="")
Double1d	PSWF5 (description="Crosstalk values", quantity="")
Double1d	PSWF6 (description="Crosstalk values", quantity="")
Double1d	PSWF7 (description="Crosstalk values", quantity="")
Double1d	PSWF8 (description="Crosstalk values", quantity="")
Double1d	PSWF9 (description="Crosstalk values", quantity="")
Double1d	PSWF10 (description="Crosstalk values", quantity="")
Double1d	PSWF11 (description="Crosstalk values", quantity="")
Double1d	PSWF12 (description="Crosstalk values", quantity="")
Double1d	PSWF13 (description="Crosstalk values", quantity="")
Double1d	PSWF14 (description="Crosstalk values", quantity="")
Double1d	PSWF15 (description="Crosstalk values", quantity="")
Double1d	PSWF16 (description="Crosstalk values", quantity="")

Double1d	PSWG1 (description="Crosstalk values", quantity="")
Double1d	PSWG2 (description="Crosstalk values", quantity="")
Double1d	PSWG3 (description="Crosstalk values", quantity="")
Double1d	PSWG4 (description="Crosstalk values", quantity="")
Double1d	PSWG5 (description="Crosstalk values", quantity="")
Double1d	PSWG6 (description="Crosstalk values", quantity="")
Double1d	PSWG7 (description="Crosstalk values", quantity="")
Double1d	PSWG8 (description="Crosstalk values", quantity="")
Double1d	PSWG9 (description="Crosstalk values", quantity="")
Double1d	PSWG10 (description="Crosstalk values", quantity="")
Double1d	PSWG11 (description="Crosstalk values", quantity="")
Double1d	PSWG12 (description="Crosstalk values", quantity="")
Double1d	PSWG13 (description="Crosstalk values", quantity="")
Double1d	PSWG14 (description="Crosstalk values", quantity="")
Double1d	PSWG15 (description="Crosstalk values", quantity="")
Double1d	PSWH1 (description="Crosstalk values", quantity="")
Double1d	PSWH2 (description="Crosstalk values", quantity="")
Double1d	PSWH3 (description="Crosstalk values", quantity="")
Double1d	PSWH4 (description="Crosstalk values", quantity="")
Double1d	PSWH5 (description="Crosstalk values", quantity="")
Double1d	PSWH6 (description="Crosstalk values", quantity="")
Double1d	PSWH7 (description="Crosstalk values", quantity="")
Double1d	PSWH8 (description="Crosstalk values", quantity="")
Double1d	PSWH9 (description="Crosstalk values", quantity="")
Double1d	PSWH10 (description="Crosstalk values", quantity="")
Double1d	PSWH11 (description="Crosstalk values", quantity="")
Double1d	PSWH12 (description="Crosstalk values", quantity="")
Double1d	PSWH13 (description="Crosstalk values", quantity="")
Double1d	PSWH14 (description="Crosstalk values", quantity="")
Double1d	PSWH15 (description="Crosstalk values", quantity="")
Double1d	PSWH16 (description="Crosstalk values", quantity="")
Double1d	PSWJ1 (description="Crosstalk values", quantity="")
Double1d	PSWJ2 (description="Crosstalk values", quantity="")
Double1d	PSWJ3 (description="Crosstalk values", quantity="")
Double1d	PSWJ4 (description="Crosstalk values", quantity="")
Double1d	PSWJ5 (description="Crosstalk values", quantity="")
Double1d	PSWJ6 (description="Crosstalk values", quantity="")
Double1d	PSWJ7 (description="Crosstalk values", quantity="")
Double1d	PSWJ8 (description="Crosstalk values", quantity="")
Double1d	PSWJ9 (description="Crosstalk values", quantity="")
Double1d	PSWJ10 (description="Crosstalk values", quantity="")
Double1d	PSWJ11 (description="Crosstalk values", quantity="")

Double1d	PSWJ12 (description="Crosstalk values", quantity="")
Double1d	PSWJ13 (description="Crosstalk values", quantity="")
Double1d	PSWJ14 (description="Crosstalk values", quantity="")
Double1d	PSWJ15 (description="Crosstalk values", quantity="")
Double1d	PSWDP1 (description="Crosstalk values", quantity="")
Double1d	PSWDP2 (description="Crosstalk values", quantity="")
Double1d	PSWR1 (description="Crosstalk values", quantity="")
Double1d	PSWT1 (description="Crosstalk values", quantity="")
Double1d	PSWT2 (description="Crosstalk values", quantity="")
table dataset	*(description="Table for PMW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	PMWA1 (description="Crosstalk values", quantity="")
Double1d	PMWA2 (description="Crosstalk values", quantity="")
Double1d	PMWA3 (description="Crosstalk values", quantity="")
Double1d	PMWA4 (description="Crosstalk values", quantity="")
Double1d	PMWA5 (description="Crosstalk values", quantity="")
Double1d	PMWA6 (description="Crosstalk values", quantity="")
Double1d	PMWA7 (description="Crosstalk values", quantity="")
Double1d	PMWA8 (description="Crosstalk values", quantity="")
Double1d	PMWA9 (description="Crosstalk values", quantity="")
Double1d	PMWA10 (description="Crosstalk values", quantity="")
Double1d	PMWA11 (description="Crosstalk values", quantity="")
Double1d	PMWA12 (description="Crosstalk values", quantity="")
Double1d	PMWA13 (description="Crosstalk values", quantity="")
Double1d	PMWB1 (description="Crosstalk values", quantity="")
Double1d	PMWB2 (description="Crosstalk values", quantity="")
Double1d	PMWB3 (description="Crosstalk values", quantity="")
Double1d	PMWB4 (description="Crosstalk values", quantity="")
Double1d	PMWB5 (description="Crosstalk values", quantity="")
Double1d	PMWB6 (description="Crosstalk values", quantity="")
Double1d	PMWB7 (description="Crosstalk values", quantity="")
Double1d	PMWB8 (description="Crosstalk values", quantity="")
Double1d	PMWB9 (description="Crosstalk values", quantity="")
Double1d	PMWB10 (description="Crosstalk values", quantity="")
Double1d	PMWB11 (description="Crosstalk values", quantity="")
Double1d	PMWB12 (description="Crosstalk values", quantity="")
Double1d	PMWC1 (description="Crosstalk values", quantity="")
Double1d	PMWC2 (description="Crosstalk values", quantity="")
Double1d	PMWC3 (description="Crosstalk values", quantity="")
Double1d	PMWC4 (description="Crosstalk values", quantity="")

Double1d	PMWC5 (description="Crosstalk values", quantity="")
Double1d	PMWC6 (description="Crosstalk values", quantity="")
Double1d	PMWC7 (description="Crosstalk values", quantity="")
Double1d	PMWC8 (description="Crosstalk values", quantity="")
Double1d	PMWC9 (description="Crosstalk values", quantity="")
Double1d	PMWC10 (description="Crosstalk values", quantity="")
Double1d	PMWC11 (description="Crosstalk values", quantity="")
Double1d	PMWC12 (description="Crosstalk values", quantity="")
Double1d	PMWC13 (description="Crosstalk values", quantity="")
Double1d	PMWD1 (description="Crosstalk values", quantity="")
Double1d	PMWD2 (description="Crosstalk values", quantity="")
Double1d	PMWD3 (description="Crosstalk values", quantity="")
Double1d	PMWD4 (description="Crosstalk values", quantity="")
Double1d	PMWD5 (description="Crosstalk values", quantity="")
Double1d	PMWD6 (description="Crosstalk values", quantity="")
Double1d	PMWD7 (description="Crosstalk values", quantity="")
Double1d	PMWD8 (description="Crosstalk values", quantity="")
Double1d	PMWD9 (description="Crosstalk values", quantity="")
Double1d	PMWD10 (description="Crosstalk values", quantity="")
Double1d	PMWD11 (description="Crosstalk values", quantity="")
Double1d	PMWD12 (description="Crosstalk values", quantity="")
Double1d	PMWE1 (description="Crosstalk values", quantity="")
Double1d	PMWE2 (description="Crosstalk values", quantity="")
Double1d	PMWE3 (description="Crosstalk values", quantity="")
Double1d	PMWE4 (description="Crosstalk values", quantity="")
Double1d	PMWE5 (description="Crosstalk values", quantity="")
Double1d	PMWE6 (description="Crosstalk values", quantity="")
Double1d	PMWE7 (description="Crosstalk values", quantity="")
Double1d	PMWE8 (description="Crosstalk values", quantity="")
Double1d	PMWE9 (description="Crosstalk values", quantity="")
Double1d	PMWE10 (description="Crosstalk values", quantity="")
Double1d	PMWE11 (description="Crosstalk values", quantity="")
Double1d	PMWE12 (description="Crosstalk values", quantity="")
Double1d	PMWE13 (description="Crosstalk values", quantity="")
Double1d	PMWF1 (description="Crosstalk values", quantity="")
Double1d	PMWF2 (description="Crosstalk values", quantity="")
Double1d	PMWF3 (description="Crosstalk values", quantity="")
Double1d	PMWF4 (description="Crosstalk values", quantity="")
Double1d	PMWF5 (description="Crosstalk values", quantity="")
Double1d	PMWF6 (description="Crosstalk values", quantity="")
Double1d	PMWF7 (description="Crosstalk values", quantity="")
Double1d	PMWF8 (description="Crosstalk values", quantity="")

Double1d	PMWF9 (description="Crosstalk values", quantity="")
Double1d	PMWF10 (description="Crosstalk values", quantity="")
Double1d	PMWF11 (description="Crosstalk values", quantity="")
Double1d	PMWF12 (description="Crosstalk values", quantity="")
Double1d	PMWG1 (description="Crosstalk values", quantity="")
Double1d	PMWG2 (description="Crosstalk values", quantity="")
Double1d	PMWG3 (description="Crosstalk values", quantity="")
Double1d	PMWG4 (description="Crosstalk values", quantity="")
Double1d	PMWG5 (description="Crosstalk values", quantity="")
Double1d	PMWG6 (description="Crosstalk values", quantity="")
Double1d	PMWG7 (description="Crosstalk values", quantity="")
Double1d	PMWG8 (description="Crosstalk values", quantity="")
Double1d	PMWG9 (description="Crosstalk values", quantity="")
Double1d	PMWG10 (description="Crosstalk values", quantity="")
Double1d	PMWG11 (description="Crosstalk values", quantity="")
Double1d	PMWG12 (description="Crosstalk values", quantity="")
Double1d	PMWG13 (description="Crosstalk values", quantity="")
Double1d	PMWDP1 (description="Crosstalk values", quantity="")
Double1d	PMWDP2 (description="Crosstalk values", quantity="")
Double1d	PMWR1 (description="Crosstalk values", quantity="")
Double1d	PMWT1 (description="Crosstalk values", quantity="")
Double1d	PMWT2 (description="Crosstalk values", quantity="")
table dataset	*(description="Table for PLW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	PLWA1 (description="Crosstalk values", quantity="")
Double1d	PLWA2 (description="Crosstalk values", quantity="")
Double1d	PLWA3 (description="Crosstalk values", quantity="")
Double1d	PLWA4 (description="Crosstalk values", quantity="")
Double1d	PLWA5 (description="Crosstalk values", quantity="")
Double1d	PLWA6 (description="Crosstalk values", quantity="")
Double1d	PLWA7 (description="Crosstalk values", quantity="")
Double1d	PLWA8 (description="Crosstalk values", quantity="")
Double1d	PLWA9 (description="Crosstalk values", quantity="")
Double1d	PLWB1 (description="Crosstalk values", quantity="")
Double1d	PLWB2 (description="Crosstalk values", quantity="")
Double1d	PLWB3 (description="Crosstalk values", quantity="")
Double1d	PLWB4 (description="Crosstalk values", quantity="")
Double1d	PLWB5 (description="Crosstalk values", quantity="")
Double1d	PLWB6 (description="Crosstalk values", quantity="")
Double1d	PLWB7 (description="Crosstalk values", quantity="")

Double1d	PLWB8 (description="Crosstalk values", quantity="")
Double1d	PLWC1 (description="Crosstalk values", quantity="")
Double1d	PLWC2 (description="Crosstalk values", quantity="")
Double1d	PLWC3 (description="Crosstalk values", quantity="")
Double1d	PLWC4 (description="Crosstalk values", quantity="")
Double1d	PLWC5 (description="Crosstalk values", quantity="")
Double1d	PLWC6 (description="Crosstalk values", quantity="")
Double1d	PLWC7 (description="Crosstalk values", quantity="")
Double1d	PLWC8 (description="Crosstalk values", quantity="")
Double1d	PLWC9 (description="Crosstalk values", quantity="")
Double1d	PLWD1 (description="Crosstalk values", quantity="")
Double1d	PLWD2 (description="Crosstalk values", quantity="")
Double1d	PLWD3 (description="Crosstalk values", quantity="")
Double1d	PLWD4 (description="Crosstalk values", quantity="")
Double1d	PLWD5 (description="Crosstalk values", quantity="")
Double1d	PLWD6 (description="Crosstalk values", quantity="")
Double1d	PLWD7 (description="Crosstalk values", quantity="")
Double1d	PLWD8 (description="Crosstalk values", quantity="")
Double1d	PLWE1 (description="Crosstalk values", quantity="")
Double1d	PLWE2 (description="Crosstalk values", quantity="")
Double1d	PLWE3 (description="Crosstalk values", quantity="")
Double1d	PLWE4 (description="Crosstalk values", quantity="")
Double1d	PLWE5 (description="Crosstalk values", quantity="")
Double1d	PLWE6 (description="Crosstalk values", quantity="")
Double1d	PLWE7 (description="Crosstalk values", quantity="")
Double1d	PLWE8 (description="Crosstalk values", quantity="")
Double1d	PLWE9 (description="Crosstalk values", quantity="")
Double1d	PLWDP1 (description="Crosstalk values", quantity="")
Double1d	PLWDP2 (description="Crosstalk values", quantity="")
Double1d	PLWR1 (description="Crosstalk values", quantity="")
Double1d	PLWT1 (description="Crosstalk values", quantity="")
Double1d	PLWT2 (description="Crosstalk values", quantity="")
table dataset	*(description="Table for PTC array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	PTCP3 (description="Crosstalk values", quantity="")
Double1d	PTCP2 (description="Crosstalk values", quantity="")
Double1d	PTCP1 (description="Crosstalk values", quantity="")

12.2.12. SCalPhotLpfPar

product (type="SCalPhotLpfPar", description="Photometer Low Pass Filter Parameters")

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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
table dataset	*(description="Low Pass Filter Parameters Table")*
Metadata	
Int1d	filter (description="Filter Number", quantity="none")
Double1d	r1 (description="Filter Resistor 1", quantity="?")
Double1d	r2 (description="Filter Resistor 2", quantity="?")
Double1d	r3 (description="Filter Resistor 3", quantity="?")
Double1d	r4 (description="Filter Resistor 4", quantity="?")
Double1d	c1 (description="Filter Capacitor 1", quantity="F")
Double1d	c2 (description="Filter Capacitor 2", quantity="F")

12.2.13. SCalPhotFluxConv

product (type="SCalPhotFluxConv", description="Photometer Flux Conversion Calibration Table")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
	plwBiasAmpl (description="PLW bias voltage amplitude")

DoubleParameter	
DoubleParameter	pmwBiasAmpl (description="PMW bias voltage amplitude")
DoubleParameter	pswBiasAmpl (description="PSW bias voltage amplitude")
DateParameter	respControlStamp (description="Responsivity calibration product control date stamp")
StringParameter	biasMode (description="Nominal/bright source mode")
DoubleParameter	degreeLIADephasing (description="LIA dephasing angle")
DoubleParameter	pswBathTemp (description="PSW reference bath temperature")
DoubleParameter	pmwBathTemp (description="PMW reference bath temperature")
DoubleParameter	plwBathTemp (description="PLW reference bath temperature")
StringParameter	sourceTable (description="File name of the source ASCII table")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	fileName (description="null")
table dataset	*(description="Table for PSW array")*
Metadata	
DoubleParameter	pswT1RefVoltage (description="PSW T1 reference voltage")
DoubleParameter	pswT1RefVoltageError (description="PSW T1 reference voltage uncertainty")
BooleanParameter	pswT1RefVoltageFlag (description="PSW T1 reference voltage flag")
DoubleParameter	pswT2RefVoltage (description="PSW T2 reference voltage")
DoubleParameter	pswT2RefVoltageError (description="PSW T2 reference voltage uncertainty")
BooleanParameter	pswT2RefVoltageFlag (description="PSW T2 reference voltage flag")
DoubleParameter	pswDP1RefVoltage (description="PSW DK1 reference voltage")
DoubleParameter	pswDP1RefVoltageError (description="PSW DK1 reference voltage uncertainty")
BooleanParameter	pswDP1RefVoltageFlag (description="PSW DK1 reference voltage flag")
DoubleParameter	pswDP2RefVoltage (description="PSW DK2 reference voltage")
DoubleParameter	pswDP2RefVoltageError (description="PSW DK2 reference voltage uncertainty")
BooleanParameter	pswDP2RefVoltageFlag (description="PSW DK2 reference voltage flag")
String1d	names (description="Channel names", quantity="")
Float1d	v0 (description="Zero point voltage", quantity="V")
Float1d	v0Error (description="Zero point voltage error", quantity="V")

Bool1d	v0Flag (description="Flag for zero point voltage", quantity="")
Float1d	k1 (description="First calibration term", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Float1d	k1Error (description="Error in first calibration term", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Float1d	k2 (description="Second calibration term", quantity="Jy [1.0E-26 W/m2/Hz]")
Float1d	k2Error (description="Error in second calibration term", quantity="Jy [1.0E-26 W/m2/Hz]")
Float1d	k3 (description="Third calibration term", quantity="V")
Float1d	k3Error (description="Error in third calibration term", quantity="V")
Bool1d	kFlag (description="Flag for astronomy calibration terms", quantity="")
Float1d	vMin (description="Minimum voltage limit", quantity="V")
Float1d	vMax (description="Maximum voltage limit", quantity="V")
table dataset	*(description="Table for PMW array")*
Metadata	
DoubleParameter	pmwT1RefVoltage (description="PMW T1 reference voltage")
DoubleParameter	pmwT1RefVoltageError (description="PMW T1 reference voltage uncertainty")
BooleanParameter	pmwT1RefVoltageFlag (description="PMW T1 reference voltage flag")
DoubleParameter	pmwT2RefVoltage (description="PMW T2 reference voltage")
DoubleParameter	pmwT2RefVoltageError (description="PMW T2 reference voltage uncertainty")
BooleanParameter	pmwT2RefVoltageFlag (description="PMW T2 reference voltage flag")
DoubleParameter	pmwDP1RefVoltage (description="PMW DK1 reference voltage")
DoubleParameter	pmwDP1RefVoltageError (description="PMW DK1 reference voltage uncertainty")
BooleanParameter	pmwDP1RefVoltageFlag (description="PMW DK1 reference voltage flag")
DoubleParameter	pmwDP2RefVoltage (description="PMW DK2 reference voltage")
DoubleParameter	pmwDP2RefVoltageError (description="PMW DK2 reference voltage uncertainty")
BooleanParameter	pmwDP2RefVoltageFlag (description="PMW DK2 reference voltage flag")
String1d	names (description="Channel names", quantity="")
Float1d	v0 (description="Zero point voltage", quantity="V")
Float1d	v0Error (description="Zero point voltage error", quantity="V")
Bool1d	v0Flag (description="Flag for zero point voltage", quantity="")
Float1d	k1 (description="First calibration term", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Float1d	k1Error (description="Error in first calibration term", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Float1d	k2 (description="Second calibration term", quantity="Jy [1.0E-26 W/m2/Hz]")
Float1d	k2Error (description="Error in second calibration term", quantity="Jy [1.0E-26 W/m2/Hz]")

Float1d	k3 (description="Third calibration term", quantity="V")
Float1d	k3Error (description="Error in third calibration term", quantity="V")
Bool1d	kFlag (description="Flag for astronomy calibration terms", quantity="")
Float1d	vMin (description="Minimum voltage limit", quantity="V")
Float1d	vMax (description="Maximum voltage limit", quantity="V")
table dataset	*(description="Table for PLW array")*
Metadata	
DoubleParameter	plwT1RefVoltage (description="PLW T1 reference voltage")
DoubleParameter	plwT1RefVoltageError (description="PLW T1 reference voltage uncertainty")
BooleanParameter	plwT1RefVoltageFlag (description="PLW T1 reference voltage flag")
DoubleParameter	plwT2RefVoltage (description="PLW T2 reference voltage")
DoubleParameter	plwT2RefVoltageError (description="PLW T2 reference voltage uncertainty")
BooleanParameter	plwT2RefVoltageFlag (description="PLW T2 reference voltage flag")
DoubleParameter	plwDP1RefVoltage (description="PLW DK1 reference voltage")
DoubleParameter	plwDP1RefVoltageError (description="PLW DK1 reference voltage uncertainty")
BooleanParameter	plwDP1RefVoltageFlag (description="PLW DK1 reference voltage flag")
DoubleParameter	plwDP2RefVoltage (description="PLW DK2 reference voltage")
DoubleParameter	plwDP2RefVoltageError (description="PLW DK2 reference voltage uncertainty")
BooleanParameter	plwDP2RefVoltageFlag (description="PLW DK2 reference voltage flag")
String1d	names (description="Channel names", quantity="")
Float1d	v0 (description="Zero point voltage", quantity="V")
Float1d	v0Error (description="Zero point voltage error", quantity="V")
Bool1d	v0Flag (description="Flag for zero point voltage", quantity="")
Float1d	k1 (description="First calibration term", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Float1d	k1Error (description="Error in first calibration term", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Float1d	k2 (description="Second calibration term", quantity="Jy [1.0E-26 W/m2/Hz]")
Float1d	k2Error (description="Error in second calibration term", quantity="Jy [1.0E-26 W/m2/Hz]")
Float1d	k3 (description="Third calibration term", quantity="V")
Float1d	k3Error (description="Error in third calibration term", quantity="V")
Bool1d	kFlag (description="Flag for astronomy calibration terms", quantity="")
Float1d	vMin (description="Minimum voltage limit", quantity="V")
Float1d	vMax (description="Maximum voltage limit", quantity="V")
composite	*(description="History of product")*
Metadata	
table dataset	*(description="History as Jython script")*

Metadata	
StringParameter	outvar (description="last output variable")
String1d	Lines (description="script lines", quantity="none")
table dataset	*(description="History of tasks")*
Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")
String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

12.2.14. SCalPhotTempDriftCorr

product (type="SCalPhotTempDriftCorr", description="Photometer Temperature Drift Correction Calibration Table")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
DoubleParameter	plwBiasAmpl (description="PLW bias voltage amplitude")

DoubleParameter	pmwBiasAmpl (description="PMW bias voltage amplitude")
DoubleParameter	pswBiasAmpl (description="PSW bias voltage amplitude")
DateParameter	respControlStamp (description="Responsivity calibration product control date stamp")
StringParameter	biasMode (description="Nominal/bright source mode")
DoubleParameter	degreeLIADephasing (description="LIA de-phasing angle")
DoubleParameter	pswBathTemp (description="PSW reference bath temperature")
DoubleParameter	pmwBathTemp (description="PMW reference bath temperature")
DoubleParameter	plwBathTemp (description="PLW reference bath temperature")
StringParameter	sourceTable (description="null")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	fileName (description="null")
table dataset	*(description="Table for PSW array")*
Metadata	
DoubleParameter	pswT1RefVoltage (description="PSW T1 reference voltage")
DoubleParameter	pswT1RefVoltageError (description="PSW T1 reference voltage uncertainty")
BooleanParameter	pswT1RefVoltageFlag (description="PSW T1 reference voltage flag")
DoubleParameter	pswT2RefVoltage (description="PSW T2 reference voltage")
DoubleParameter	pswT2RefVoltageError (description="PSW T2 reference voltage uncertainty")
BooleanParameter	pswT2RefVoltageFlag (description="PSW T2 reference voltage flag")
DoubleParameter	pswDP1RefVoltage (description="PSW DK1 reference voltage")
DoubleParameter	pswDP1RefVoltageError (description="PSW DK1 reference voltage uncertainty")
BooleanParameter	pswDP1RefVoltageFlag (description="PSW DK1 reference voltage flag")
DoubleParameter	pswDP2RefVoltage (description="PSW DK2 reference voltage")
DoubleParameter	pswDP2RefVoltageError (description="PSW DK2 reference voltage uncertainty")
BooleanParameter	pswDP2RefVoltageFlag (description="PSW DK2 reference voltage flag")
StringParameter	thermistorSelect (description="null")
String1d	names (description="Channel names", quantity="")
Double1d	aT1 (description="null", quantity="none")
Double1d	aT1Error (description="null", quantity="none")
Double1d	bT1 (description="null", quantity="none")
Double1d	bT1Error (description="null", quantity="none")
Bool1d	abT1Flag (description="null", quantity="none")
Double1d	aT2 (description="null", quantity="none")
Double1d	aT2Error (description="null", quantity="none")
Double1d	bT2 (description="null", quantity="none")
Double1d	bT2Error (description="null", quantity="none")
Bool1d	abT2Flag (description="null", quantity="none")

table dataset	*(description="Table for PMW array")*
Metadata	
DoubleParameter	pmwT1RefVoltage (description="PMW T1 reference voltage")
DoubleParameter	pmwT1RefVoltageError (description="PMW T1 reference voltage uncertainty")
BooleanParameter	pmwT1RefVoltageFlag (description="PMW T1 reference voltage flag")
DoubleParameter	pmwT2RefVoltage (description="PMW T2 reference voltage")
DoubleParameter	pmwT2RefVoltageError (description="PMW T2 reference voltage uncertainty")
BooleanParameter	pmwT2RefVoltageFlag (description="PMW T2 reference voltage flag")
DoubleParameter	pmwDP1RefVoltage (description="PMW DK1 reference voltage")
DoubleParameter	pmwDP1RefVoltageError (description="PMW DK1 reference voltage uncertainty")
BooleanParameter	pmwDP1RefVoltageFlag (description="PMW DK1 reference voltage flag")
DoubleParameter	pmwDP2RefVoltage (description="PMW DK2 reference voltage")
DoubleParameter	pmwDP2RefVoltageError (description="PMW DK2 reference voltage uncertainty")
BooleanParameter	pmwDP2RefVoltageFlag (description="PMW DK2 reference voltage flag")
StringParameter	thermistorSelect (description="null")
String1d	names (description="Channel names", quantity="")
Double1d	aT1 (description="null", quantity="none")
Double1d	aT1Error (description="null", quantity="none")
Double1d	bT1 (description="null", quantity="none")
Double1d	bT1Error (description="null", quantity="none")
Bool1d	abT1Flag (description="null", quantity="none")
Double1d	aT2 (description="null", quantity="none")
Double1d	aT2Error (description="null", quantity="none")
Double1d	bT2 (description="null", quantity="none")
Double1d	bT2Error (description="null", quantity="none")
Bool1d	abT2Flag (description="null", quantity="none")
table dataset	*(description="Table for PLW array")*
Metadata	
DoubleParameter	plwT1RefVoltage (description="PLW T1 reference voltage")
DoubleParameter	plwT1RefVoltageError (description="PLW T1 reference voltage uncertainty")
BooleanParameter	plwT1RefVoltageFlag (description="PLW T1 reference voltage flag")
DoubleParameter	plwT2RefVoltage (description="PLW T2 reference voltage")
DoubleParameter	plwT2RefVoltageError (description="PLW T2 reference voltage uncertainty")
BooleanParameter	plwT2RefVoltageFlag (description="PLW T2 reference voltage flag")
DoubleParameter	plwDP1RefVoltage (description="PLW DK1 reference voltage")

DoubleParameter	plwDP1RefVoltageError (description="PLW DK1 reference voltage uncertainty")
BooleanParameter	plwDP1RefVoltageFlag (description="PLW DK1 reference voltage flag")
DoubleParameter	plwDP2RefVoltage (description="PLW DK2 reference voltage")
DoubleParameter	plwDP2RefVoltageError (description="PLW DK2 reference voltage uncertainty")
BooleanParameter	plwDP2RefVoltageFlag (description="PLW DK2 reference voltage flag")
StringParameter	thermistorSelect (description="null")
String1d	names (description="Channel names", quantity="")
Double1d	aT1 (description="null", quantity="none")
Double1d	aT1Error (description="null", quantity="none")
Double1d	bT1 (description="null", quantity="none")
Double1d	bT1Error (description="null", quantity="none")
Bool1d	abT1Flag (description="null", quantity="none")
Double1d	aT2 (description="null", quantity="none")
Double1d	aT2Error (description="null", quantity="none")
Double1d	bT2 (description="null", quantity="none")
Double1d	bT2Error (description="null", quantity="none")
Bool1d	abT2Flag (description="null", quantity="none")

12.2.15. SCalPhotChanTimeConst

product (type="SCalPhotChanTimeConst", description="Photometer Channel Time Constant Table")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
table dataset	*(description="Table for PSW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	timeConst (description="Detector time constant", quantity="s")
Double1d	error (description="Error on time constant", quantity="s")
Double1d	slowTimeConst (description="the slow detector time constant", quantity="s")

Double1d	slowTimeConstError (description="Error in the slow detector time constant", quantity="s")
Double1d	amplitude (description="time constant amplitude factor", quantity="none")
Double1d	amplitudeError (description="Error in time constant amplitude factor", quantity="none")
table dataset	*(description="Table for PMW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	timeConst (description="Detector time constant", quantity="s")
Double1d	error (description="Error on time constant", quantity="s")
Double1d	slowTimeConst (description="the slow detector time constant", quantity="s")
Double1d	slowTimeConstError (description="Error in the slow detector time constant", quantity="s")
Double1d	amplitude (description="time constant amplitude factor", quantity="none")
Double1d	amplitudeError (description="Error in time constant amplitude factor", quantity="none")
table dataset	*(description="Table for PLW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	timeConst (description="Detector time constant", quantity="s")
Double1d	error (description="Error on time constant", quantity="s")
Double1d	slowTimeConst (description="the slow detector time constant", quantity="s")
Double1d	slowTimeConstError (description="Error in the slow detector time constant", quantity="s")
Double1d	amplitude (description="time constant amplitude factor", quantity="none")
Double1d	amplitudeError (description="Error in time constant amplitude factor", quantity="none")
table dataset	*(description="Table for PTC array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	timeConst (description="Detector time constant", quantity="s")
Double1d	error (description="Error on time constant", quantity="s")
Double1d	slowTimeConst (description="the slow detector time constant", quantity="s")
Double1d	slowTimeConstError (description="Error in the slow detector time constant", quantity="s")
Double1d	amplitude (description="time constant amplitude factor", quantity="none")
Double1d	amplitudeError (description="Error in time constant amplitude factor", quantity="none")

12.2.16. SCalPhotOptCross

product (type="SCalPhotOptCross", description="Photometer Optical Crosstalk Table")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
table dataset	*(description="Table for PSW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	PSWA1 (description="Crosstalk values", quantity="")
Double1d	PSWA2 (description="Crosstalk values", quantity="")
Double1d	PSWA3 (description="Crosstalk values", quantity="")
Double1d	PSWA4 (description="Crosstalk values", quantity="")
Double1d	PSWA5 (description="Crosstalk values", quantity="")
Double1d	PSWA6 (description="Crosstalk values", quantity="")
Double1d	PSWA7 (description="Crosstalk values", quantity="")
Double1d	PSWA8 (description="Crosstalk values", quantity="")
Double1d	PSWA9 (description="Crosstalk values", quantity="")
Double1d	PSWA10 (description="Crosstalk values", quantity="")
Double1d	PSWA11 (description="Crosstalk values", quantity="")
Double1d	PSWA12 (description="Crosstalk values", quantity="")
Double1d	PSWA13 (description="Crosstalk values", quantity="")
Double1d	PSWA14 (description="Crosstalk values", quantity="")
Double1d	PSWA15 (description="Crosstalk values", quantity="")
Double1d	PSWB1 (description="Crosstalk values", quantity="")
Double1d	PSWB2 (description="Crosstalk values", quantity="")
Double1d	PSWB3 (description="Crosstalk values", quantity="")
Double1d	PSWB4 (description="Crosstalk values", quantity="")
Double1d	PSWB5 (description="Crosstalk values", quantity="")
Double1d	PSWB6 (description="Crosstalk values", quantity="")
Double1d	PSWB7 (description="Crosstalk values", quantity="")
Double1d	PSWB8 (description="Crosstalk values", quantity="")

Double1d	PSWB9 (description="Crosstalk values", quantity="")
Double1d	PSWB10 (description="Crosstalk values", quantity="")
Double1d	PSWB11 (description="Crosstalk values", quantity="")
Double1d	PSWB12 (description="Crosstalk values", quantity="")
Double1d	PSWB13 (description="Crosstalk values", quantity="")
Double1d	PSWB14 (description="Crosstalk values", quantity="")
Double1d	PSWB15 (description="Crosstalk values", quantity="")
Double1d	PSWB16 (description="Crosstalk values", quantity="")
Double1d	PSWC1 (description="Crosstalk values", quantity="")
Double1d	PSWC2 (description="Crosstalk values", quantity="")
Double1d	PSWC3 (description="Crosstalk values", quantity="")
Double1d	PSWC4 (description="Crosstalk values", quantity="")
Double1d	PSWC5 (description="Crosstalk values", quantity="")
Double1d	PSWC6 (description="Crosstalk values", quantity="")
Double1d	PSWC7 (description="Crosstalk values", quantity="")
Double1d	PSWC8 (description="Crosstalk values", quantity="")
Double1d	PSWC9 (description="Crosstalk values", quantity="")
Double1d	PSWC10 (description="Crosstalk values", quantity="")
Double1d	PSWC11 (description="Crosstalk values", quantity="")
Double1d	PSWC12 (description="Crosstalk values", quantity="")
Double1d	PSWC13 (description="Crosstalk values", quantity="")
Double1d	PSWC14 (description="Crosstalk values", quantity="")
Double1d	PSWC15 (description="Crosstalk values", quantity="")
Double1d	PSWD1 (description="Crosstalk values", quantity="")
Double1d	PSWD2 (description="Crosstalk values", quantity="")
Double1d	PSWD3 (description="Crosstalk values", quantity="")
Double1d	PSWD4 (description="Crosstalk values", quantity="")
Double1d	PSWD5 (description="Crosstalk values", quantity="")
Double1d	PSWD6 (description="Crosstalk values", quantity="")
Double1d	PSWD7 (description="Crosstalk values", quantity="")
Double1d	PSWD8 (description="Crosstalk values", quantity="")
Double1d	PSWD9 (description="Crosstalk values", quantity="")
Double1d	PSWD10 (description="Crosstalk values", quantity="")
Double1d	PSWD11 (description="Crosstalk values", quantity="")
Double1d	PSWD12 (description="Crosstalk values", quantity="")
Double1d	PSWD13 (description="Crosstalk values", quantity="")
Double1d	PSWD14 (description="Crosstalk values", quantity="")
Double1d	PSWD15 (description="Crosstalk values", quantity="")
Double1d	PSWD16 (description="Crosstalk values", quantity="")
Double1d	PSWE1 (description="Crosstalk values", quantity="")
Double1d	PSWE2 (description="Crosstalk values", quantity="")
Double1d	PSWE3 (description="Crosstalk values", quantity="")

Double1d	PSWE4 (description="Crosstalk values", quantity="")
Double1d	PSWE5 (description="Crosstalk values", quantity="")
Double1d	PSWE6 (description="Crosstalk values", quantity="")
Double1d	PSWE7 (description="Crosstalk values", quantity="")
Double1d	PSWE8 (description="Crosstalk values", quantity="")
Double1d	PSWE9 (description="Crosstalk values", quantity="")
Double1d	PSWE10 (description="Crosstalk values", quantity="")
Double1d	PSWE11 (description="Crosstalk values", quantity="")
Double1d	PSWE12 (description="Crosstalk values", quantity="")
Double1d	PSWE13 (description="Crosstalk values", quantity="")
Double1d	PSWE14 (description="Crosstalk values", quantity="")
Double1d	PSWE15 (description="Crosstalk values", quantity="")
Double1d	PSWF1 (description="Crosstalk values", quantity="")
Double1d	PSWF2 (description="Crosstalk values", quantity="")
Double1d	PSWF3 (description="Crosstalk values", quantity="")
Double1d	PSWF4 (description="Crosstalk values", quantity="")
Double1d	PSWF5 (description="Crosstalk values", quantity="")
Double1d	PSWF6 (description="Crosstalk values", quantity="")
Double1d	PSWF7 (description="Crosstalk values", quantity="")
Double1d	PSWF8 (description="Crosstalk values", quantity="")
Double1d	PSWF9 (description="Crosstalk values", quantity="")
Double1d	PSWF10 (description="Crosstalk values", quantity="")
Double1d	PSWF11 (description="Crosstalk values", quantity="")
Double1d	PSWF12 (description="Crosstalk values", quantity="")
Double1d	PSWF13 (description="Crosstalk values", quantity="")
Double1d	PSWF14 (description="Crosstalk values", quantity="")
Double1d	PSWF15 (description="Crosstalk values", quantity="")
Double1d	PSWF16 (description="Crosstalk values", quantity="")
Double1d	PSWG1 (description="Crosstalk values", quantity="")
Double1d	PSWG2 (description="Crosstalk values", quantity="")
Double1d	PSWG3 (description="Crosstalk values", quantity="")
Double1d	PSWG4 (description="Crosstalk values", quantity="")
Double1d	PSWG5 (description="Crosstalk values", quantity="")
Double1d	PSWG6 (description="Crosstalk values", quantity="")
Double1d	PSWG7 (description="Crosstalk values", quantity="")
Double1d	PSWG8 (description="Crosstalk values", quantity="")
Double1d	PSWG9 (description="Crosstalk values", quantity="")
Double1d	PSWG10 (description="Crosstalk values", quantity="")
Double1d	PSWG11 (description="Crosstalk values", quantity="")
Double1d	PSWG12 (description="Crosstalk values", quantity="")
Double1d	PSWG13 (description="Crosstalk values", quantity="")
Double1d	PSWG14 (description="Crosstalk values", quantity="")

Double1d	PSWG15 (description="Crosstalk values", quantity="")
Double1d	PSWH1 (description="Crosstalk values", quantity="")
Double1d	PSWH2 (description="Crosstalk values", quantity="")
Double1d	PSWH3 (description="Crosstalk values", quantity="")
Double1d	PSWH4 (description="Crosstalk values", quantity="")
Double1d	PSWH5 (description="Crosstalk values", quantity="")
Double1d	PSWH6 (description="Crosstalk values", quantity="")
Double1d	PSWH7 (description="Crosstalk values", quantity="")
Double1d	PSWH8 (description="Crosstalk values", quantity="")
Double1d	PSWH9 (description="Crosstalk values", quantity="")
Double1d	PSWH10 (description="Crosstalk values", quantity="")
Double1d	PSWH11 (description="Crosstalk values", quantity="")
Double1d	PSWH12 (description="Crosstalk values", quantity="")
Double1d	PSWH13 (description="Crosstalk values", quantity="")
Double1d	PSWH14 (description="Crosstalk values", quantity="")
Double1d	PSWH15 (description="Crosstalk values", quantity="")
Double1d	PSWH16 (description="Crosstalk values", quantity="")
Double1d	PSWJ1 (description="Crosstalk values", quantity="")
Double1d	PSWJ2 (description="Crosstalk values", quantity="")
Double1d	PSWJ3 (description="Crosstalk values", quantity="")
Double1d	PSWJ4 (description="Crosstalk values", quantity="")
Double1d	PSWJ5 (description="Crosstalk values", quantity="")
Double1d	PSWJ6 (description="Crosstalk values", quantity="")
Double1d	PSWJ7 (description="Crosstalk values", quantity="")
Double1d	PSWJ8 (description="Crosstalk values", quantity="")
Double1d	PSWJ9 (description="Crosstalk values", quantity="")
Double1d	PSWJ10 (description="Crosstalk values", quantity="")
Double1d	PSWJ11 (description="Crosstalk values", quantity="")
Double1d	PSWJ12 (description="Crosstalk values", quantity="")
Double1d	PSWJ13 (description="Crosstalk values", quantity="")
Double1d	PSWJ14 (description="Crosstalk values", quantity="")
Double1d	PSWJ15 (description="Crosstalk values", quantity="")
table dataset	*(description="Table for PMW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	PMWA1 (description="Crosstalk values", quantity="")
Double1d	PMWA2 (description="Crosstalk values", quantity="")
Double1d	PMWA3 (description="Crosstalk values", quantity="")
Double1d	PMWA4 (description="Crosstalk values", quantity="")
Double1d	PMWA5 (description="Crosstalk values", quantity="")
Double1d	PMWA6 (description="Crosstalk values", quantity="")

Double1d	PMWA7 (description="Crosstalk values", quantity="")
Double1d	PMWA8 (description="Crosstalk values", quantity="")
Double1d	PMWA9 (description="Crosstalk values", quantity="")
Double1d	PMWA10 (description="Crosstalk values", quantity="")
Double1d	PMWA11 (description="Crosstalk values", quantity="")
Double1d	PMWA12 (description="Crosstalk values", quantity="")
Double1d	PMWA13 (description="Crosstalk values", quantity="")
Double1d	PMWB1 (description="Crosstalk values", quantity="")
Double1d	PMWB2 (description="Crosstalk values", quantity="")
Double1d	PMWB3 (description="Crosstalk values", quantity="")
Double1d	PMWB4 (description="Crosstalk values", quantity="")
Double1d	PMWB5 (description="Crosstalk values", quantity="")
Double1d	PMWB6 (description="Crosstalk values", quantity="")
Double1d	PMWB7 (description="Crosstalk values", quantity="")
Double1d	PMWB8 (description="Crosstalk values", quantity="")
Double1d	PMWB9 (description="Crosstalk values", quantity="")
Double1d	PMWB10 (description="Crosstalk values", quantity="")
Double1d	PMWB11 (description="Crosstalk values", quantity="")
Double1d	PMWB12 (description="Crosstalk values", quantity="")
Double1d	PMWC1 (description="Crosstalk values", quantity="")
Double1d	PMWC2 (description="Crosstalk values", quantity="")
Double1d	PMWC3 (description="Crosstalk values", quantity="")
Double1d	PMWC4 (description="Crosstalk values", quantity="")
Double1d	PMWC5 (description="Crosstalk values", quantity="")
Double1d	PMWC6 (description="Crosstalk values", quantity="")
Double1d	PMWC7 (description="Crosstalk values", quantity="")
Double1d	PMWC8 (description="Crosstalk values", quantity="")
Double1d	PMWC9 (description="Crosstalk values", quantity="")
Double1d	PMWC10 (description="Crosstalk values", quantity="")
Double1d	PMWC11 (description="Crosstalk values", quantity="")
Double1d	PMWC12 (description="Crosstalk values", quantity="")
Double1d	PMWC13 (description="Crosstalk values", quantity="")
Double1d	PMWD1 (description="Crosstalk values", quantity="")
Double1d	PMWD2 (description="Crosstalk values", quantity="")
Double1d	PMWD3 (description="Crosstalk values", quantity="")
Double1d	PMWD4 (description="Crosstalk values", quantity="")
Double1d	PMWD5 (description="Crosstalk values", quantity="")
Double1d	PMWD6 (description="Crosstalk values", quantity="")
Double1d	PMWD7 (description="Crosstalk values", quantity="")
Double1d	PMWD8 (description="Crosstalk values", quantity="")
Double1d	PMWD9 (description="Crosstalk values", quantity="")
Double1d	PMWD10 (description="Crosstalk values", quantity="")

Double1d	PMWD11 (description="Crosstalk values", quantity="")
Double1d	PMWD12 (description="Crosstalk values", quantity="")
Double1d	PMWE1 (description="Crosstalk values", quantity="")
Double1d	PMWE2 (description="Crosstalk values", quantity="")
Double1d	PMWE3 (description="Crosstalk values", quantity="")
Double1d	PMWE4 (description="Crosstalk values", quantity="")
Double1d	PMWE5 (description="Crosstalk values", quantity="")
Double1d	PMWE6 (description="Crosstalk values", quantity="")
Double1d	PMWE7 (description="Crosstalk values", quantity="")
Double1d	PMWE8 (description="Crosstalk values", quantity="")
Double1d	PMWE9 (description="Crosstalk values", quantity="")
Double1d	PMWE10 (description="Crosstalk values", quantity="")
Double1d	PMWE11 (description="Crosstalk values", quantity="")
Double1d	PMWE12 (description="Crosstalk values", quantity="")
Double1d	PMWE13 (description="Crosstalk values", quantity="")
Double1d	PMWF1 (description="Crosstalk values", quantity="")
Double1d	PMWF2 (description="Crosstalk values", quantity="")
Double1d	PMWF3 (description="Crosstalk values", quantity="")
Double1d	PMWF4 (description="Crosstalk values", quantity="")
Double1d	PMWF5 (description="Crosstalk values", quantity="")
Double1d	PMWF6 (description="Crosstalk values", quantity="")
Double1d	PMWF7 (description="Crosstalk values", quantity="")
Double1d	PMWF8 (description="Crosstalk values", quantity="")
Double1d	PMWF9 (description="Crosstalk values", quantity="")
Double1d	PMWF10 (description="Crosstalk values", quantity="")
Double1d	PMWF11 (description="Crosstalk values", quantity="")
Double1d	PMWF12 (description="Crosstalk values", quantity="")
Double1d	PMWG1 (description="Crosstalk values", quantity="")
Double1d	PMWG2 (description="Crosstalk values", quantity="")
Double1d	PMWG3 (description="Crosstalk values", quantity="")
Double1d	PMWG4 (description="Crosstalk values", quantity="")
Double1d	PMWG5 (description="Crosstalk values", quantity="")
Double1d	PMWG6 (description="Crosstalk values", quantity="")
Double1d	PMWG7 (description="Crosstalk values", quantity="")
Double1d	PMWG8 (description="Crosstalk values", quantity="")
Double1d	PMWG9 (description="Crosstalk values", quantity="")
Double1d	PMWG10 (description="Crosstalk values", quantity="")
Double1d	PMWG11 (description="Crosstalk values", quantity="")
Double1d	PMWG12 (description="Crosstalk values", quantity="")
Double1d	PMWG13 (description="Crosstalk values", quantity="")
table dataset	*(description="Table for PLW array")*

Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	PLWA1 (description="Crosstalk values", quantity="")
Double1d	PLWA2 (description="Crosstalk values", quantity="")
Double1d	PLWA3 (description="Crosstalk values", quantity="")
Double1d	PLWA4 (description="Crosstalk values", quantity="")
Double1d	PLWA5 (description="Crosstalk values", quantity="")
Double1d	PLWA6 (description="Crosstalk values", quantity="")
Double1d	PLWA7 (description="Crosstalk values", quantity="")
Double1d	PLWA8 (description="Crosstalk values", quantity="")
Double1d	PLWA9 (description="Crosstalk values", quantity="")
Double1d	PLWB1 (description="Crosstalk values", quantity="")
Double1d	PLWB2 (description="Crosstalk values", quantity="")
Double1d	PLWB3 (description="Crosstalk values", quantity="")
Double1d	PLWB4 (description="Crosstalk values", quantity="")
Double1d	PLWB5 (description="Crosstalk values", quantity="")
Double1d	PLWB6 (description="Crosstalk values", quantity="")
Double1d	PLWB7 (description="Crosstalk values", quantity="")
Double1d	PLWB8 (description="Crosstalk values", quantity="")
Double1d	PLWC1 (description="Crosstalk values", quantity="")
Double1d	PLWC2 (description="Crosstalk values", quantity="")
Double1d	PLWC3 (description="Crosstalk values", quantity="")
Double1d	PLWC4 (description="Crosstalk values", quantity="")
Double1d	PLWC5 (description="Crosstalk values", quantity="")
Double1d	PLWC6 (description="Crosstalk values", quantity="")
Double1d	PLWC7 (description="Crosstalk values", quantity="")
Double1d	PLWC8 (description="Crosstalk values", quantity="")
Double1d	PLWC9 (description="Crosstalk values", quantity="")
Double1d	PLWD1 (description="Crosstalk values", quantity="")
Double1d	PLWD2 (description="Crosstalk values", quantity="")
Double1d	PLWD3 (description="Crosstalk values", quantity="")
Double1d	PLWD4 (description="Crosstalk values", quantity="")
Double1d	PLWD5 (description="Crosstalk values", quantity="")
Double1d	PLWD6 (description="Crosstalk values", quantity="")
Double1d	PLWD7 (description="Crosstalk values", quantity="")
Double1d	PLWD8 (description="Crosstalk values", quantity="")
Double1d	PLWE1 (description="Crosstalk values", quantity="")
Double1d	PLWE2 (description="Crosstalk values", quantity="")
Double1d	PLWE3 (description="Crosstalk values", quantity="")
Double1d	PLWE4 (description="Crosstalk values", quantity="")
Double1d	PLWE5 (description="Crosstalk values", quantity="")
Double1d	PLWE6 (description="Crosstalk values", quantity="")

Double1d	PLWE7 (description="Crosstalk values", quantity="")
Double1d	PLWE8 (description="Crosstalk values", quantity="")
Double1d	PLWE9 (description="Crosstalk values", quantity="")

12.2.17. SCalPhotChanNoise

product (type="SCalPhotChanNoise", description="Photometer Channel Noise Table")	
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	formatVersion (description="Version of product format")
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	dependency (description="Keywords on which product depends")
StringParameter	biasMode (description="null")
StringParameter	fileName (description="null")
table dataset	*(description="Channel table for PSW array")*
Metadata	
Double1d	frequency (description="Label for column 1", quantity="Hz")
Double1d	PSWA1 (description="Label for column 69", quantity="V/sqrt(Hz)")
Double1d	PSWA2 (description="Label for column 64", quantity="V/sqrt(Hz)")
Double1d	PSWA3 (description="Label for column 63", quantity="V/sqrt(Hz)")
Double1d	PSWA4 (description="Label for column 58", quantity="V/sqrt(Hz)")
Double1d	PSWA5 (description="Label for column 53", quantity="V/sqrt(Hz)")
Double1d	PSWA6 (description="Label for column 121", quantity="V/sqrt(Hz)")
Double1d	PSWA7 (description="Label for column 116", quantity="V/sqrt(Hz)")
Double1d	PSWA8 (description="Label for column 109", quantity="V/sqrt(Hz)")

Double1d	PSWA9 (description="Label for column 104", quantity="V/sqrt(Hz)")
Double1d	PSWA10 (description="Label for column 99", quantity="V/sqrt(Hz)")
Double1d	PSWA11 (description="Label for column 23", quantity="V/sqrt(Hz)")
Double1d	PSWA12 (description="Label for column 18", quantity="V/sqrt(Hz)")
Double1d	PSWA13 (description="Label for column 13", quantity="V/sqrt(Hz)")
Double1d	PSWA14 (description="Label for column 12", quantity="V/sqrt(Hz)")
Double1d	PSWA15 (description="Label for column 7", quantity="V/sqrt(Hz)")
Double1d	PSWB1 (description="Label for column 71", quantity="V/sqrt(Hz)")
Double1d	PSWB2 (description="Label for column 67", quantity="V/sqrt(Hz)")
Double1d	PSWB3 (description="Label for column 62", quantity="V/sqrt(Hz)")
Double1d	PSWB4 (description="Label for column 60", quantity="V/sqrt(Hz)")
Double1d	PSWB5 (description="Label for column 55", quantity="V/sqrt(Hz)")
Double1d	PSWB6 (description="Label for column 51", quantity="V/sqrt(Hz)")
Double1d	PSWB7 (description="Label for column 118", quantity="V/sqrt(Hz)")
Double1d	PSWB8 (description="Label for column 113", quantity="V/sqrt(Hz)")
Double1d	PSWB9 (description="Label for column 107", quantity="V/sqrt(Hz)")
Double1d	PSWB10 (description="Label for column 102", quantity="V/sqrt(Hz)")
Double1d	PSWB11 (description="Label for column 25", quantity="V/sqrt(Hz)")
Double1d	PSWB12 (description="Label for column 21", quantity="V/sqrt(Hz)")
Double1d	PSWB13 (description="Label for column 16", quantity="V/sqrt(Hz)")
Double1d	PSWB14 (description="Label for column 14", quantity="V/sqrt(Hz)")
Double1d	PSWB15 (description="Label for column 9", quantity="V/sqrt(Hz)")
Double1d	PSWB16 (description="Label for column 5", quantity="V/sqrt(Hz)")
Double1d	PSWC1 (description="Label for column 70", quantity="V/sqrt(Hz)")
Double1d	PSWC2 (description="Label for column 66", quantity="V/sqrt(Hz)")
Double1d	PSWC3 (description="Label for column 61", quantity="V/sqrt(Hz)")
Double1d	PSWC4 (description="Label for column 57", quantity="V/sqrt(Hz)")
Double1d	PSWC5 (description="Label for column 52", quantity="V/sqrt(Hz)")
Double1d	PSWC6 (description="Label for column 119", quantity="V/sqrt(Hz)")
Double1d	PSWC7 (description="Label for column 114", quantity="V/sqrt(Hz)")
Double1d	PSWC8 (description="Label for column 110", quantity="V/sqrt(Hz)")
Double1d	PSWC9 (description="Label for column 106", quantity="V/sqrt(Hz)")
Double1d	PSWC10 (description="Label for column 101", quantity="V/sqrt(Hz)")
Double1d	PSWC11 (description="Label for column 24", quantity="V/sqrt(Hz)")
Double1d	PSWC12 (description="Label for column 19", quantity="V/sqrt(Hz)")
Double1d	PSWC13 (description="Label for column 15", quantity="V/sqrt(Hz)")
Double1d	PSWC14 (description="Label for column 10", quantity="V/sqrt(Hz)")
Double1d	PSWC15 (description="Label for column 6", quantity="V/sqrt(Hz)")
Double1d	PSWD1 (description="Label for column 73", quantity="V/sqrt(Hz)")
Double1d	PSWD2 (description="Label for column 68", quantity="V/sqrt(Hz)")
Double1d	PSWD3 (description="Label for column 65", quantity="V/sqrt(Hz)")
Double1d	PSWD4 (description="Label for column 59", quantity="V/sqrt(Hz)")

Double1d	PSWD5 (description="Label for column 56", quantity="V/sqrt(Hz)")
Double1d	PSWD6 (description="Label for column 50", quantity="V/sqrt(Hz)")
Double1d	PSWD7 (description="Label for column 117", quantity="V/sqrt(Hz)")
Double1d	PSWD8 (description="Label for column 112", quantity="V/sqrt(Hz)")
Double1d	PSWD9 (description="Label for column 108", quantity="V/sqrt(Hz)")
Double1d	PSWD10 (description="Label for column 103", quantity="V/sqrt(Hz)")
Double1d	PSWD11 (description="Label for column 98", quantity="V/sqrt(Hz)")
Double1d	PSWD12 (description="Label for column 20", quantity="V/sqrt(Hz)")
Double1d	PSWD13 (description="Label for column 17", quantity="V/sqrt(Hz)")
Double1d	PSWD14 (description="Label for column 11", quantity="V/sqrt(Hz)")
Double1d	PSWD15 (description="Label for column 8", quantity="V/sqrt(Hz)")
Double1d	PSWD16 (description="Label for column 3", quantity="V/sqrt(Hz)")
Double1d	PSWE1 (description="Label for column 26", quantity="V/sqrt(Hz)")
Double1d	PSWE2 (description="Label for column 38", quantity="V/sqrt(Hz)")
Double1d	PSWE3 (description="Label for column 43", quantity="V/sqrt(Hz)")
Double1d	PSWE4 (description="Label for column 47", quantity="V/sqrt(Hz)")
Double1d	PSWE5 (description="Label for column 54", quantity="V/sqrt(Hz)")
Double1d	PSWE6 (description="Label for column 120", quantity="V/sqrt(Hz)")
Double1d	PSWE7 (description="Label for column 115", quantity="V/sqrt(Hz)")
Double1d	PSWE8 (description="Label for column 111", quantity="V/sqrt(Hz)")
Double1d	PSWE9 (description="Label for column 105", quantity="V/sqrt(Hz)")
Double1d	PSWE10 (description="Label for column 100", quantity="V/sqrt(Hz)")
Double1d	PSWE11 (description="Label for column 22", quantity="V/sqrt(Hz)")
Double1d	PSWE12 (description="Label for column 76", quantity="V/sqrt(Hz)")
Double1d	PSWE13 (description="Label for column 80", quantity="V/sqrt(Hz)")
Double1d	PSWE14 (description="Label for column 85", quantity="V/sqrt(Hz)")
Double1d	PSWE15 (description="Label for column 97", quantity="V/sqrt(Hz)")
Double1d	PSWF1 (description="Label for column 27", quantity="V/sqrt(Hz)")
Double1d	PSWF2 (description="Label for column 33", quantity="V/sqrt(Hz)")
Double1d	PSWF3 (description="Label for column 39", quantity="V/sqrt(Hz)")
Double1d	PSWF4 (description="Label for column 44", quantity="V/sqrt(Hz)")
Double1d	PSWF5 (description="Label for column 49", quantity="V/sqrt(Hz)")
Double1d	PSWF6 (description="Label for column 125", quantity="V/sqrt(Hz)")
Double1d	PSWF7 (description="Label for column 128", quantity="V/sqrt(Hz)")
Double1d	PSWF8 (description="Label for column 132", quantity="V/sqrt(Hz)")
Double1d	PSWF9 (description="Label for column 135", quantity="V/sqrt(Hz)")
Double1d	PSWF10 (description="Label for column 139", quantity="V/sqrt(Hz)")
Double1d	PSWF11 (description="Label for column 142", quantity="V/sqrt(Hz)")
Double1d	PSWF12 (description="Label for column 74", quantity="V/sqrt(Hz)")
Double1d	PSWF13 (description="Label for column 79", quantity="V/sqrt(Hz)")
Double1d	PSWF14 (description="Label for column 84", quantity="V/sqrt(Hz)")
Double1d	PSWF15 (description="Label for column 90", quantity="V/sqrt(Hz)")

Double1d	PSWF16 (description="Label for column 96", quantity="V/sqrt(Hz)")
Double1d	PSWG1 (description="Label for column 30", quantity="V/sqrt(Hz)")
Double1d	PSWG2 (description="Label for column 35", quantity="V/sqrt(Hz)")
Double1d	PSWG3 (description="Label for column 40", quantity="V/sqrt(Hz)")
Double1d	PSWG4 (description="Label for column 45", quantity="V/sqrt(Hz)")
Double1d	PSWG5 (description="Label for column 122", quantity="V/sqrt(Hz)")
Double1d	PSWG6 (description="Label for column 126", quantity="V/sqrt(Hz)")
Double1d	PSWG7 (description="Label for column 130", quantity="V/sqrt(Hz)")
Double1d	PSWG8 (description="Label for column 133", quantity="V/sqrt(Hz)")
Double1d	PSWG9 (description="Label for column 137", quantity="V/sqrt(Hz)")
Double1d	PSWG10 (description="Label for column 141", quantity="V/sqrt(Hz)")
Double1d	PSWG11 (description="Label for column 145", quantity="V/sqrt(Hz)")
Double1d	PSWG12 (description="Label for column 78", quantity="V/sqrt(Hz)")
Double1d	PSWG13 (description="Label for column 83", quantity="V/sqrt(Hz)")
Double1d	PSWG14 (description="Label for column 88", quantity="V/sqrt(Hz)")
Double1d	PSWG15 (description="Label for column 93", quantity="V/sqrt(Hz)")
Double1d	PSWH1 (description="Label for column 29", quantity="V/sqrt(Hz)")
Double1d	PSWH2 (description="Label for column 32", quantity="V/sqrt(Hz)")
Double1d	PSWH3 (description="Label for column 36", quantity="V/sqrt(Hz)")
Double1d	PSWH4 (description="Label for column 41", quantity="V/sqrt(Hz)")
Double1d	PSWH5 (description="Label for column 46", quantity="V/sqrt(Hz)")
Double1d	PSWH6 (description="Label for column 123", quantity="V/sqrt(Hz)")
Double1d	PSWH7 (description="Label for column 127", quantity="V/sqrt(Hz)")
Double1d	PSWH8 (description="Label for column 131", quantity="V/sqrt(Hz)")
Double1d	PSWH9 (description="Label for column 136", quantity="V/sqrt(Hz)")
Double1d	PSWH10 (description="Label for column 140", quantity="V/sqrt(Hz)")
Double1d	PSWH11 (description="Label for column 144", quantity="V/sqrt(Hz)")
Double1d	PSWH12 (description="Label for column 77", quantity="V/sqrt(Hz)")
Double1d	PSWH13 (description="Label for column 82", quantity="V/sqrt(Hz)")
Double1d	PSWH14 (description="Label for column 87", quantity="V/sqrt(Hz)")
Double1d	PSWH15 (description="Label for column 91", quantity="V/sqrt(Hz)")
Double1d	PSWH16 (description="Label for column 94", quantity="V/sqrt(Hz)")
Double1d	PSWJ1 (description="Label for column 31", quantity="V/sqrt(Hz)")
Double1d	PSWJ2 (description="Label for column 34", quantity="V/sqrt(Hz)")
Double1d	PSWJ3 (description="Label for column 37", quantity="V/sqrt(Hz)")
Double1d	PSWJ4 (description="Label for column 42", quantity="V/sqrt(Hz)")
Double1d	PSWJ5 (description="Label for column 48", quantity="V/sqrt(Hz)")
Double1d	PSWJ6 (description="Label for column 124", quantity="V/sqrt(Hz)")
Double1d	PSWJ7 (description="Label for column 129", quantity="V/sqrt(Hz)")
Double1d	PSWJ8 (description="Label for column 134", quantity="V/sqrt(Hz)")
Double1d	PSWJ9 (description="Label for column 138", quantity="V/sqrt(Hz)")
Double1d	PSWJ10 (description="Label for column 143", quantity="V/sqrt(Hz)")

Double1d	PSWJ11 (description="Label for column 75", quantity="V/sqrt(Hz)")
Double1d	PSWJ12 (description="Label for column 81", quantity="V/sqrt(Hz)")
Double1d	PSWJ13 (description="Label for column 86", quantity="V/sqrt(Hz)")
Double1d	PSWJ14 (description="Label for column 89", quantity="V/sqrt(Hz)")
Double1d	PSWJ15 (description="Label for column 92", quantity="V/sqrt(Hz)")
Double1d	PSWDP1 (description="Label for column 72", quantity="V/sqrt(Hz)")
Double1d	PSWDP2 (description="Label for column 95", quantity="V/sqrt(Hz)")
Double1d	PSWR1 (description="Label for column 2", quantity="V/sqrt(Hz)")
Double1d	PSWT1 (description="Label for column 4", quantity="V/sqrt(Hz)")
Double1d	PSWT2 (description="Label for column 28", quantity="V/sqrt(Hz)")
table dataset	*(description="Channel table for PMW array")*
Metadata	
Double1d	frequency (description="Label for column 1", quantity="Hz")
Double1d	PMWA1 (description="Label for column 272", quantity="V/sqrt(Hz)")
Double1d	PMWA2 (description="Label for column 269", quantity="V/sqrt(Hz)")
Double1d	PMWA3 (description="Label for column 268", quantity="V/sqrt(Hz)")
Double1d	PMWA4 (description="Label for column 286", quantity="V/sqrt(Hz)")
Double1d	PMWA5 (description="Label for column 279", quantity="V/sqrt(Hz)")
Double1d	PMWA6 (description="Label for column 276", quantity="V/sqrt(Hz)")
Double1d	PMWA7 (description="Label for column 275", quantity="V/sqrt(Hz)")
Double1d	PMWA8 (description="Label for column 214", quantity="V/sqrt(Hz)")
Double1d	PMWA9 (description="Label for column 212", quantity="V/sqrt(Hz)")
Double1d	PMWA10 (description="Label for column 207", quantity="V/sqrt(Hz)")
Double1d	PMWA11 (description="Label for column 202", quantity="V/sqrt(Hz)")
Double1d	PMWA12 (description="Label for column 198", quantity="V/sqrt(Hz)")
Double1d	PMWA13 (description="Label for column 194", quantity="V/sqrt(Hz)")
Double1d	PMWB1 (description="Label for column 271", quantity="V/sqrt(Hz)")
Double1d	PMWB2 (description="Label for column 266", quantity="V/sqrt(Hz)")
Double1d	PMWB3 (description="Label for column 264", quantity="V/sqrt(Hz)")
Double1d	PMWB4 (description="Label for column 283", quantity="V/sqrt(Hz)")
Double1d	PMWB5 (description="Label for column 280", quantity="V/sqrt(Hz)")
Double1d	PMWB6 (description="Label for column 277", quantity="V/sqrt(Hz)")
Double1d	PMWB7 (description="Label for column 217", quantity="V/sqrt(Hz)")
Double1d	PMWB8 (description="Label for column 213", quantity="V/sqrt(Hz)")
Double1d	PMWB9 (description="Label for column 209", quantity="V/sqrt(Hz)")
Double1d	PMWB10 (description="Label for column 206", quantity="V/sqrt(Hz)")
Double1d	PMWB11 (description="Label for column 201", quantity="V/sqrt(Hz)")
Double1d	PMWB12 (description="Label for column 196", quantity="V/sqrt(Hz)")
Double1d	PMWC1 (description="Label for column 274", quantity="V/sqrt(Hz)")
Double1d	PMWC2 (description="Label for column 270", quantity="V/sqrt(Hz)")
Double1d	PMWC3 (description="Label for column 265", quantity="V/sqrt(Hz)")

Double1d	PMWC4 (description="Label for column 263", quantity="V/sqrt(Hz)")
Double1d	PMWC5 (description="Label for column 284", quantity="V/sqrt(Hz)")
Double1d	PMWC6 (description="Label for column 281", quantity="V/sqrt(Hz)")
Double1d	PMWC7 (description="Label for column 278", quantity="V/sqrt(Hz)")
Double1d	PMWC8 (description="Label for column 216", quantity="V/sqrt(Hz)")
Double1d	PMWC9 (description="Label for column 211", quantity="V/sqrt(Hz)")
Double1d	PMWC10 (description="Label for column 210", quantity="V/sqrt(Hz)")
Double1d	PMWC11 (description="Label for column 205", quantity="V/sqrt(Hz)")
Double1d	PMWC12 (description="Label for column 200", quantity="V/sqrt(Hz)")
Double1d	PMWC13 (description="Label for column 197", quantity="V/sqrt(Hz)")
Double1d	PMWD1 (description="Label for column 222", quantity="V/sqrt(Hz)")
Double1d	PMWD2 (description="Label for column 267", quantity="V/sqrt(Hz)")
Double1d	PMWD3 (description="Label for column 229", quantity="V/sqrt(Hz)")
Double1d	PMWD4 (description="Label for column 285", quantity="V/sqrt(Hz)")
Double1d	PMWD5 (description="Label for column 235", quantity="V/sqrt(Hz)")
Double1d	PMWD6 (description="Label for column 282", quantity="V/sqrt(Hz)")
Double1d	PMWD7 (description="Label for column 252", quantity="V/sqrt(Hz)")
Double1d	PMWD8 (description="Label for column 215", quantity="V/sqrt(Hz)")
Double1d	PMWD9 (description="Label for column 259", quantity="V/sqrt(Hz)")
Double1d	PMWD10 (description="Label for column 208", quantity="V/sqrt(Hz)")
Double1d	PMWD11 (description="Label for column 204", quantity="V/sqrt(Hz)")
Double1d	PMWD12 (description="Label for column 199", quantity="V/sqrt(Hz)")
Double1d	PMWE1 (description="Label for column 221", quantity="V/sqrt(Hz)")
Double1d	PMWE2 (description="Label for column 224", quantity="V/sqrt(Hz)")
Double1d	PMWE3 (description="Label for column 228", quantity="V/sqrt(Hz)")
Double1d	PMWE4 (description="Label for column 232", quantity="V/sqrt(Hz)")
Double1d	PMWE5 (description="Label for column 234", quantity="V/sqrt(Hz)")
Double1d	PMWE6 (description="Label for column 238", quantity="V/sqrt(Hz)")
Double1d	PMWE7 (description="Label for column 251", quantity="V/sqrt(Hz)")
Double1d	PMWE8 (description="Label for column 254", quantity="V/sqrt(Hz)")
Double1d	PMWE9 (description="Label for column 257", quantity="V/sqrt(Hz)")
Double1d	PMWE10 (description="Label for column 261", quantity="V/sqrt(Hz)")
Double1d	PMWE11 (description="Label for column 243", quantity="V/sqrt(Hz)")
Double1d	PMWE12 (description="Label for column 246", quantity="V/sqrt(Hz)")
Double1d	PMWE13 (description="Label for column 203", quantity="V/sqrt(Hz)")
Double1d	PMWF1 (description="Label for column 223", quantity="V/sqrt(Hz)")
Double1d	PMWF2 (description="Label for column 226", quantity="V/sqrt(Hz)")
Double1d	PMWF3 (description="Label for column 230", quantity="V/sqrt(Hz)")
Double1d	PMWF4 (description="Label for column 233", quantity="V/sqrt(Hz)")
Double1d	PMWF5 (description="Label for column 236", quantity="V/sqrt(Hz)")
Double1d	PMWF6 (description="Label for column 240", quantity="V/sqrt(Hz)")
Double1d	PMWF7 (description="Label for column 253", quantity="V/sqrt(Hz)")

Double1d	PMWF8 (description="Label for column 256", quantity="V/sqrt(Hz)")
Double1d	PMWF9 (description="Label for column 260", quantity="V/sqrt(Hz)")
Double1d	PMWF10 (description="Label for column 242", quantity="V/sqrt(Hz)")
Double1d	PMWF11 (description="Label for column 245", quantity="V/sqrt(Hz)")
Double1d	PMWF12 (description="Label for column 248", quantity="V/sqrt(Hz)")
Double1d	PMWG1 (description="Label for column 219", quantity="V/sqrt(Hz)")
Double1d	PMWG2 (description="Label for column 225", quantity="V/sqrt(Hz)")
Double1d	PMWG3 (description="Label for column 227", quantity="V/sqrt(Hz)")
Double1d	PMWG4 (description="Label for column 231", quantity="V/sqrt(Hz)")
Double1d	PMWG5 (description="Label for column 237", quantity="V/sqrt(Hz)")
Double1d	PMWG6 (description="Label for column 239", quantity="V/sqrt(Hz)")
Double1d	PMWG7 (description="Label for column 241", quantity="V/sqrt(Hz)")
Double1d	PMWG8 (description="Label for column 255", quantity="V/sqrt(Hz)")
Double1d	PMWG9 (description="Label for column 258", quantity="V/sqrt(Hz)")
Double1d	PMWG10 (description="Label for column 262", quantity="V/sqrt(Hz)")
Double1d	PMWG11 (description="Label for column 244", quantity="V/sqrt(Hz)")
Double1d	PMWG12 (description="Label for column 247", quantity="V/sqrt(Hz)")
Double1d	PMWG13 (description="Label for column 249", quantity="V/sqrt(Hz)")
Double1d	PMWDP1 (description="Label for column 273", quantity="V/sqrt(Hz)")
Double1d	PMWDP2 (description="Label for column 250", quantity="V/sqrt(Hz)")
Double1d	PMWR1 (description="Label for column 218", quantity="V/sqrt(Hz)")
Double1d	PMWT1 (description="Label for column 195", quantity="V/sqrt(Hz)")
Double1d	PMWT2 (description="Label for column 220", quantity="V/sqrt(Hz)")
table dataset	*(description="Channel table for PLW array")*
Metadata	
Double1d	frequency (description="Label for column 1", quantity="Hz")
Double1d	PLWA1 (description="Label for column 167", quantity="V/sqrt(Hz)")
Double1d	PLWA2 (description="Label for column 169", quantity="V/sqrt(Hz)")
Double1d	PLWA3 (description="Label for column 165", quantity="V/sqrt(Hz)")
Double1d	PLWA4 (description="Label for column 166", quantity="V/sqrt(Hz)")
Double1d	PLWA5 (description="Label for column 157", quantity="V/sqrt(Hz)")
Double1d	PLWA6 (description="Label for column 149", quantity="V/sqrt(Hz)")
Double1d	PLWA7 (description="Label for column 148", quantity="V/sqrt(Hz)")
Double1d	PLWA8 (description="Label for column 147", quantity="V/sqrt(Hz)")
Double1d	PLWA9 (description="Label for column 150", quantity="V/sqrt(Hz)")
Double1d	PLWB1 (description="Label for column 164", quantity="V/sqrt(Hz)")
Double1d	PLWB2 (description="Label for column 163", quantity="V/sqrt(Hz)")
Double1d	PLWB3 (description="Label for column 161", quantity="V/sqrt(Hz)")
Double1d	PLWB4 (description="Label for column 159", quantity="V/sqrt(Hz)")
Double1d	PLWB5 (description="Label for column 155", quantity="V/sqrt(Hz)")
Double1d	PLWB6 (description="Label for column 156", quantity="V/sqrt(Hz)")

Double1d	PLWB7 (description="Label for column 153", quantity="V/sqrt(Hz)")
Double1d	PLWB8 (description="Label for column 152", quantity="V/sqrt(Hz)")
Double1d	PLWC1 (description="Label for column 178", quantity="V/sqrt(Hz)")
Double1d	PLWC2 (description="Label for column 162", quantity="V/sqrt(Hz)")
Double1d	PLWC3 (description="Label for column 179", quantity="V/sqrt(Hz)")
Double1d	PLWC4 (description="Label for column 160", quantity="V/sqrt(Hz)")
Double1d	PLWC5 (description="Label for column 180", quantity="V/sqrt(Hz)")
Double1d	PLWC6 (description="Label for column 183", quantity="V/sqrt(Hz)")
Double1d	PLWC7 (description="Label for column 154", quantity="V/sqrt(Hz)")
Double1d	PLWC8 (description="Label for column 184", quantity="V/sqrt(Hz)")
Double1d	PLWC9 (description="Label for column 151", quantity="V/sqrt(Hz)")
Double1d	PLWD1 (description="Label for column 174", quantity="V/sqrt(Hz)")
Double1d	PLWD2 (description="Label for column 175", quantity="V/sqrt(Hz)")
Double1d	PLWD3 (description="Label for column 176", quantity="V/sqrt(Hz)")
Double1d	PLWD4 (description="Label for column 177", quantity="V/sqrt(Hz)")
Double1d	PLWD5 (description="Label for column 185", quantity="V/sqrt(Hz)")
Double1d	PLWD6 (description="Label for column 186", quantity="V/sqrt(Hz)")
Double1d	PLWD7 (description="Label for column 187", quantity="V/sqrt(Hz)")
Double1d	PLWD8 (description="Label for column 188", quantity="V/sqrt(Hz)")
Double1d	PLWE1 (description="Label for column 170", quantity="V/sqrt(Hz)")
Double1d	PLWE2 (description="Label for column 171", quantity="V/sqrt(Hz)")
Double1d	PLWE3 (description="Label for column 172", quantity="V/sqrt(Hz)")
Double1d	PLWE4 (description="Label for column 173", quantity="V/sqrt(Hz)")
Double1d	PLWE5 (description="Label for column 182", quantity="V/sqrt(Hz)")
Double1d	PLWE6 (description="Label for column 190", quantity="V/sqrt(Hz)")
Double1d	PLWE7 (description="Label for column 189", quantity="V/sqrt(Hz)")
Double1d	PLWE8 (description="Label for column 191", quantity="V/sqrt(Hz)")
Double1d	PLWE9 (description="Label for column 193", quantity="V/sqrt(Hz)")
Double1d	PLWDP1 (description="Label for column 168", quantity="V/sqrt(Hz)")
Double1d	PLWDP2 (description="Label for column 192", quantity="V/sqrt(Hz)")
Double1d	PLWR1 (description="Label for column 146", quantity="V/sqrt(Hz)")
Double1d	PLWT1 (description="Label for column 158", quantity="V/sqrt(Hz)")
Double1d	PLWT2 (description="Label for column 181", quantity="V/sqrt(Hz)")
table dataset	*(description="Channel table for PTC array")*
Metadata	
Double1d	frequency (description="Label for column 1", quantity="Hz")
Double1d	PTCP3 (description="Label for column 289", quantity="V/sqrt(Hz)")
Double1d	PTCP2 (description="Label for column 288", quantity="V/sqrt(Hz)")
Double1d	PTCP1 (description="Label for column 287", quantity="V/sqrt(Hz)")

12.2.18. SCalPhotBeamProf

product (type="SCalPhotBeamProf", description="Photometer Beam Profile")	
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	formatVersion (description="Version of product format")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken")
StringParameter	version (description="null")
StringParameter	spectrumType (description="Assumed Spectrum")
DoubleParameter	beamFwhm (description="Beam FWHM")
StringParameter	dataOrigin (description="null")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	arrayName (description="null")
StringParameter	fileName (description="null")
array dataset	*(description="Image")*
Metadata	
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
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	equinox (description="WCS: Equinox, unit=Duration")
DoubleParameter	epoch (description="WCS: Epoch, unit=Duration")
LongParameter	naxis1 (description="null")
LongParameter	naxis2 (description="null")
Double2d	(description="Image", quantity="")

12.3. SPIRE Spectrometer Calibration Products

12.3.1. SCalSpecChanNum

product (type="SCalPhotChanNum", description="Photometer Channel Number Mapping Table")		
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	formatVersion (description="Version of product format")	
StringParameter	version (description="null")	
StringParameter	fileName (description="null")	
table dataset	*(description="Table for SSW array")*	
Metadata		
String1d	names (description="Channel names", quantity="")	
Int1d	fullChannel (description="Full Channel Number", quantity="")	
Int1d	indivChannel (description="Individual Channel Number", quantity="")	
Bool1d	isAligned (description="Aligned Channels", quantity="")	
Int1d	jfetGroup (description="JFET group", quantity="")	
String1d	jfetMembrane (description="JFET membrane", quantity="")	
Int1d	liaBoard (description="LIA board", quantity="")	
Int1d	adcChannel (description="ADC channel", quantity="")	
Bool1d	isConnected (description="Connected Channels", quantity="")	
Bool1d	isBolometer (description="Bolometer Channels", quantity="")	
Bool1d	isThermistor (description="Thermistor Channels", quantity="")	
Bool1d	isResistor (description="Resistor Channels", quantity="")	
Bool1d	isDark (description="Dark Channels", quantity="")	
Bool1d	isPtc (description="PTC Channels", quantity="")	
	(description="Table for SLW array")	

table dataset	
Metadata	
String1d	names (description="Channel names", quantity="")
Int1d	fullChannel (description="Full Channel Number", quantity="")
Int1d	indivChannel (description="Individual Channel Number", quantity="")
Bool1d	isAligned (description="Aligned Channels", quantity="")
Int1d	jfetGroup (description="JFET group", quantity="")
String1d	jfetMembrane (description="JFET membrane", quantity="")
Int1d	liaBoard (description="LIA board", quantity="")
Int1d	adcChannel (description="ADC channel", quantity="")
Bool1d	isConnected (description="Connected Channels", quantity="")
Bool1d	isBolometer (description="Bolometer Channels", quantity="")
Bool1d	isThermistor (description="Thermistor Channels", quantity="")
Bool1d	isResistor (description="Resistor Channels", quantity="")
Bool1d	isDark (description="Dark Channels", quantity="")
Bool1d	isPtc (description="PTC Channels", quantity="")
composite	*(description="History of product")*
Metadata	
table dataset	*(description="History as Jython script")*
Metadata	
StringParameter	outvar (description="last output variable")
String1d	Lines (description="script lines", quantity="none")
table dataset	*(description="History of tasks")*
Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")

String1d	Class (description="Class of the parameter", quantity="none")
String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

12.3.2. SCalSpecChanMask

product (type="SCalSpecChanMask", description="Spectrometer Channel Mask Table")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	fileName (description="null")
table dataset	*(description="Table for SSW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Bool1d	isDead (description="Dead Channels", quantity="")
Bool1d	isNoisy (description="Noisy Channels", quantity="")
Bool1d	isSlow (description="Slow Channels", quantity="")
table dataset	*(description="Table for SLW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Bool1d	isDead (description="Dead Channels", quantity="")
Bool1d	isNoisy (description="Noisy Channels", quantity="")
Bool1d	isSlow (description="Slow Channels", quantity="")

12.3.3. SCalTelemMask

product (type="SCalTelemMask", description="Telemetry Mask Table")	
Metadata	
StringParameter	type (description="Product Type Identification")
	creator (description="Generator of this product")

StringParameter	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	fileName (description="null")
table dataset	*(description="null")*
Metadata	
String1d	tmParam (description="Telemetry Parameter Name", quantity="")
Bool1d	isUnreliable (description="Unreliable parameter", quantity="")
table dataset	*(description="null")*
Metadata	
String1d	tmParam (description="Telemetry Parameter Name", quantity="")
Bool1d	isUnreliable (description="Unreliable parameter", quantity="")
table dataset	*(description="null")*
Metadata	
String1d	tmParam (description="Telemetry Parameter Name", quantity="")
Bool1d	isUnreliable (description="Unreliable parameter", quantity="")
table dataset	*(description="null")*
Metadata	
String1d	tmParam (description="Telemetry Parameter Name", quantity="")
Bool1d	isUnreliable (description="Unreliable parameter", quantity="")
table dataset	*(description="null")*
Metadata	
String1d	tmParam (description="Telemetry Parameter Name", quantity="")

Bool1d	isUnreliable (description="Unreliable parameter", quantity="")
table dataset	*(description="null")*
Metadata	
String1d	tmParam (description="Telemetry Parameter Name", quantity="")
Bool1d	isUnreliable (description="Unreliable parameter", quantity="")
table dataset	*(description="null")*
Metadata	
String1d	tmParam (description="Telemetry Parameter Name", quantity="")
Bool1d	isUnreliable (description="Unreliable parameter", quantity="")
table dataset	*(description="null")*
Metadata	
String1d	tmParam (description="Telemetry Parameter Name", quantity="")
Bool1d	isUnreliable (description="Unreliable parameter", quantity="")
table dataset	*(description="null")*
Metadata	
String1d	tmParam (description="Telemetry Parameter Name", quantity="")
Bool1d	isUnreliable (description="Unreliable parameter", quantity="")
table dataset	*(description="null")*
Metadata	
String1d	tmParam (description="Telemetry Parameter Name", quantity="")
Bool1d	isUnreliable (description="Unreliable parameter", quantity="")

12.3.4. SCalSpecChanTimeOff

product (type="SCalSpecChanTimeOff", description="Spectrometer Channel Time Offset Table")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
table dataset	*(description="Table for SSW array")*

Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	offsetSingle (description="Time offset relative to single array readout", quantity="s")
Double1d	offsetFull (description="Time offset relative to full array readout", quantity="s")
table dataset	*(description="Table for SLW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	offsetSingle (description="Time offset relative to single array readout", quantity="s")
Double1d	offsetFull (description="Time offset relative to full array readout", quantity="s")

12.3.5. SCalSpecChanGain

product (type="SCalSpecChanGain", description="Spectrometer Channel Gain Table")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
DoubleParameter	refBiasFreq (description="Reference bias frequency")
DoubleParameter	freqDepSpec (description="Frequency dependency parameter")
StringParameter	fileName (description="null")
table dataset	*(description="Table for SSW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	totGain (description="LIA plus amplifier gain", quantity="")
Double1d	jfetGain (description="JFET Gain", quantity="")
table dataset	*(description="Table for SLW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	totGain (description="LIA plus amplifier gain", quantity="")
Double1d	jfetGain (description="JFET Gain", quantity="")

12.3.6. SCalSpecBolPar

product (type="SCalSpecBolPar", description="Spectrometer Bolometer Parameter Table")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
table dataset	*(description="Table for SSW array")*
Metadata	
DoubleParameter	tempT0 (description="Reference Temperature for Bolometer Thermal Conductivity T0")
String1d	names (description="Channel names", quantity="")
Double1d	loadResPos (description="Load resistance positive bias resistor", quantity="?")
Double1d	loadResNeg (description="Load resistance negative bias resistor", quantity="?")
Double1d	resR0 (description="Bolometer Electric Resistance at Temperature de", quantity="?")
Double1d	delta (description="Reference Temperature for Bolometer Resistance", quantity="K")
Double1d	capac (description="Electrical Capacitance of Cable", quantity="F")
Double1d	condG0 (description="Bolometer Thermal Conductivity at Temperature T", quantity="")
Double1d	beta (description="Exponent for Temperature evolution of Bolometer Thermal Conductivity", quantity="")
table dataset	*(description="Table for SLW array")*
Metadata	
DoubleParameter	tempT0 (description="Reference Temperature for Bolometer Thermal Conductivity T0")
String1d	names (description="Channel names", quantity="")
Double1d	loadResPos (description="Load resistance positive bias resistor", quantity="?")
Double1d	loadResNeg (description="Load resistance negative bias resistor", quantity="?")
Double1d	resR0 (description="Bolometer Electric Resistance at Temperature de", quantity="?")

Double1d	delta (description="Reference Temperature for Bolometer Resistance", quantity="K")
Double1d	capac (description="Electrical Capacitance of Cable", quantity="F")
Double1d	condG0 (description="Bolometer Thermal Conductivity at Temperature T", quantity="")
Double1d	beta (description="Exponent for Temperature evolution of Bolometer Thermal Conductivity", quantity="")

12.3.7. SCalSpecBsmOps

product (type="SCalSpecBsmOps", description="Spectrometer BSM Operations Table")		
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	formatVersion (description="Version of product format")	
StringParameter	version (description="null")	
DoubleParameter	chopMaxSpeed (description="Speed limit for stabilisation in chop")	
DoubleParameter	jiggMaxSpeed (description="Speed limit for stabilisation in jigg")	
StringParameter	dependency (description="Keywords on which product depends")	
StringParameter	fileName (description="null")	
table dataset	*(description="4 Point Jiggle Map")*	
Metadata		
StringParameter	instMode (description="null")	
String1d	chopBeamId (description="Chopper Beam Identifier", quantity="")	
Int1d	chopSens (description="Target sensor signal in chop direction", quantity="")	
Int1d	chopHiTol (description="Positive tolerance in chop sensor signal", quantity="")	
Int1d	chopLoTol (description="Negative tolerance in chop sensor signa", quantity="")	
Int1d	jiggId (description="Jiggle Position Identifier", quantity="")	
Int1d	jiggSens (description="Target sensor signal in jiggle direction", quantity="")	
Int1d	jiggHiTol (description="Positive tolerance in jiggle sensor signal", quantity="")	
Int1d	jiggLoTol (description="Negative tolerance in jiggle sensor signal", quantity="")	
table dataset	*(description="16 Point Jiggle Map")*	

Metadata	
StringParameter	instMode (description="null")
String1d	chopBeamId (description="Chopper Beam Identifier", quantity="")
Int1d	chopSens (description="Target sensor signal in chop direction", quantity="")
Int1d	chopHiTol (description="Positive tolerance in chop sensor signal", quantity="")
Int1d	chopLoTol (description="Negative tolerance in chop sensor signa", quantity="")
Int1d	jiggId (description="Jiggle Position Identifier", quantity="")
Int1d	jiggSens (description="Target sensor signal in jiggle direction", quantity="")
Int1d	jiggHiTol (description="Positive tolerance in jiggle sensor signal", quantity="")
Int1d	jiggLoTol (description="Negative tolerance in jiggle sensor signal", quantity="")

12.3.8. SCalSpecBsmPos

product (type="SCalSpecBsmPos", description="Spectrometer BSM Position Table")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
LongParameter	chopRestPos (description="BSM rest position in chop direction (Y-axis)")
LongParameter	jiggRestPos (description="BSM rest position in jiggle direction (Z-axis)")
LongParameter	chopHardLimit1 (description="BSM hard lower limit in chop direction")
LongParameter	chopHardLimit2 (description="BSM hard upper limit in chop direction")
LongParameter	jiggHardLimit1 (description="BSM hard lower limit in jiggle direction")
LongParameter	jiggHardLimit2 (description="BSM hard upper limit in jiggle direction")
LongParameter	chopSoftLimit1 (description="BSM soft lower limit in chop direction")
LongParameter	chopSoftLimit2 (description="BSM soft upper limit in chop direction")
LongParameter	jiggSoftLimit1 (description="BSM soft lower limit in jiggle direction")
LongParameter	jiggSoftLimit2 (description="BSM soft upper limit in jiggle direction")
StringParameter	fileName (description="null")
table dataset	*(description="BSM angle versus chop and jiggle sensor value")*
Metadata	

Double1d	yangle (description="Angle in spacecraft Y-direction", quantity="" [4.848137E-6 rad]")
Double1d	yangleError (description="Error in Y-angl", quantity="" [4.848137E-6 rad]")
Double1d	zangle (description="Angle in spacecraft Z-direction", quantity="" [4.848137E-6 rad]")
Double1d	zangleError (description="Error in Z-angle", quantity="" [4.848137E-6 rad]")
Int1d	chopSensor (description="Sensor signal in chop direction (Y-axis)", quantity="")
Int1d	jiggSensor (description="Sensor signal in jiggle direction (Z-axis)", quantity="")

12.3.9. SCalSpecDetAngOff

product (type="SCalSpecDetAngOff", description="Spectrometer Detector Angular Offset Table")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	aperture (description="null")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	fileName (description="null")
table dataset	*(description="Table for SSW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	yangle (description="Angular offset in Y-direction", quantity="" [4.848137E-6 rad]")
Double1d	yangleError (description="Error on angular offset in Y-direction", quantity="" [4.848137E-6 rad]")
Double1d	zangle (description="Angular offset in Z-direction", quantity="" [4.848137E-6 rad]")
Double1d	zangleError (description="Error on angular offset in Z-direction", quantity="" [4.848137E-6 rad]")
table dataset	*(description="Table for SLW array")*
Metadata	
String1d	names (description="Channel names", quantity="")

Double1d	yangle (description="Angular offset in Y-direction", quantity="" [4.848137E-6 rad]")
Double1d	yangleError (description="Error on angular offset in Y-direction", quantity="" [4.848137E-6 rad]")
Double1d	zangle (description="Angular offset in Z-direction", quantity="" [4.848137E-6 rad]")
Double1d	zangleError (description="Error on angular offset in Z-direction", quantity="" [4.848137E-6 rad]")

12.3.10. SCalSpecElecCross

product (type="SCalSpecElecCross", description="Spectrometer Electrical Crosstalk Table")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
table dataset	*(description="Table for SSW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	SSWA1 (description="Crosstalk values", quantity="")
Double1d	SSWA2 (description="Crosstalk values", quantity="")
Double1d	SSWA3 (description="Crosstalk values", quantity="")
Double1d	SSWA4 (description="Crosstalk values", quantity="")
Double1d	SSWB1 (description="Crosstalk values", quantity="")
Double1d	SSWB2 (description="Crosstalk values", quantity="")
Double1d	SSWB3 (description="Crosstalk values", quantity="")
Double1d	SSWB4 (description="Crosstalk values", quantity="")
Double1d	SSWB5 (description="Crosstalk values", quantity="")
Double1d	SSWC1 (description="Crosstalk values", quantity="")
Double1d	SSWC2 (description="Crosstalk values", quantity="")
Double1d	SSWC3 (description="Crosstalk values", quantity="")
Double1d	SSWC4 (description="Crosstalk values", quantity="")
Double1d	SSWC5 (description="Crosstalk values", quantity="")
Double1d	SSWC6 (description="Crosstalk values", quantity="")
Double1d	SSWD1 (description="Crosstalk values", quantity="")

Double1d	SSWD2 (description="Crosstalk values", quantity="")
Double1d	SSWD3 (description="Crosstalk values", quantity="")
Double1d	SSWD4 (description="Crosstalk values", quantity="")
Double1d	SSWD5 (description="Crosstalk values", quantity="")
Double1d	SSWD6 (description="Crosstalk values", quantity="")
Double1d	SSWD7 (description="Crosstalk values", quantity="")
Double1d	SSWE1 (description="Crosstalk values", quantity="")
Double1d	SSWE2 (description="Crosstalk values", quantity="")
Double1d	SSWE3 (description="Crosstalk values", quantity="")
Double1d	SSWE4 (description="Crosstalk values", quantity="")
Double1d	SSWE5 (description="Crosstalk values", quantity="")
Double1d	SSWE6 (description="Crosstalk values", quantity="")
Double1d	SSWF1 (description="Crosstalk values", quantity="")
Double1d	SSWF2 (description="Crosstalk values", quantity="")
Double1d	SSWF3 (description="Crosstalk values", quantity="")
Double1d	SSWF4 (description="Crosstalk values", quantity="")
Double1d	SSWF5 (description="Crosstalk values", quantity="")
Double1d	SSWG1 (description="Crosstalk values", quantity="")
Double1d	SSWG2 (description="Crosstalk values", quantity="")
Double1d	SSWG3 (description="Crosstalk values", quantity="")
Double1d	SSWG4 (description="Crosstalk values", quantity="")
Double1d	SSWDP1 (description="Crosstalk values", quantity="")
Double1d	SSWDP2 (description="Crosstalk values", quantity="")
Double1d	SSWR1 (description="Crosstalk values", quantity="")
Double1d	SSWT1 (description="Crosstalk values", quantity="")
Double1d	SSWT2 (description="Crosstalk values", quantity="")
table dataset	*(description="Table for SLW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	SLWA1 (description="Crosstalk values", quantity="")
Double1d	SLWA2 (description="Crosstalk values", quantity="")
Double1d	SLWA3 (description="Crosstalk values", quantity="")
Double1d	SLWB1 (description="Crosstalk values", quantity="")
Double1d	SLWB2 (description="Crosstalk values", quantity="")
Double1d	SLWB3 (description="Crosstalk values", quantity="")
Double1d	SLWB4 (description="Crosstalk values", quantity="")
Double1d	SLWC1 (description="Crosstalk values", quantity="")
Double1d	SLWC2 (description="Crosstalk values", quantity="")
Double1d	SLWC3 (description="Crosstalk values", quantity="")
Double1d	SLWC4 (description="Crosstalk values", quantity="")
Double1d	SLWC5 (description="Crosstalk values", quantity="")

Double1d	SLWD1 (description="Crosstalk values", quantity="")
Double1d	SLWD2 (description="Crosstalk values", quantity="")
Double1d	SLWD3 (description="Crosstalk values", quantity="")
Double1d	SLWD4 (description="Crosstalk values", quantity="")
Double1d	SLWE1 (description="Crosstalk values", quantity="")
Double1d	SLWE2 (description="Crosstalk values", quantity="")
Double1d	SLWE3 (description="Crosstalk values", quantity="")
Double1d	SLWDP1 (description="Crosstalk values", quantity="")
Double1d	SLWDP2 (description="Crosstalk values", quantity="")
Double1d	SLWR1 (description="Crosstalk values", quantity="")
Double1d	SLWT1 (description="Crosstalk values", quantity="")
Double1d	SLWT2 (description="Crosstalk values", quantity="")

12.3.11. SCalSpecFluxConv

product (type="SCalSpecFluxConv", description="Spectrometer FluxConversion Table")		
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	formatVersion (description="Version of product format")	
StringParameter	version (description="null")	
StringParameter	dependency (description="Keywords on which product depends")	
StringParameter	biasMode (description="Nominal/bright source mode")	
StringParameter	fileName (description="null")	
table dataset	*(description="table for SSW array")*	
Metadata		
Double1d	wavenumber (description="Wavenumber", quantity="cm-1 [100.0 m-1]")	
Double1d	SSWA1 (description="Flux conversion factor for SSWA1", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")	

Double1d	SSWA2 (description="Flux conversion factor for SSWA2", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWA3 (description="Flux conversion factor for SSWA3", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWA4 (description="Flux conversion factor for SSWA4", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWB1 (description="Flux conversion factor for SSWB1", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWB2 (description="Flux conversion factor for SSWB2", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWB3 (description="Flux conversion factor for SSWB3", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWB4 (description="Flux conversion factor for SSWB4", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWB5 (description="Flux conversion factor for SSWB5", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWC1 (description="Flux conversion factor for SSWC1", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWC2 (description="Flux conversion factor for SSWC2", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWC3 (description="Flux conversion factor for SSWC3", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWC4 (description="Flux conversion factor for SSWC4", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWC5 (description="Flux conversion factor for SSWC5", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWC6 (description="Flux conversion factor for SSWC6", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWD1 (description="Flux conversion factor for SSWD1", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWD2 (description="Flux conversion factor for SSWD2", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWD3 (description="Flux conversion factor for SSWD3", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWD4 (description="Flux conversion factor for SSWD4", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWD5 (description="Flux conversion factor for SSWD5", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWD6 (description="Flux conversion factor for SSWD6", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWD7 (description="Flux conversion factor for SSWD7", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWE1 (description="Flux conversion factor for SSWE1", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWE2 (description="Flux conversion factor for SSWE2", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWE3 (description="Flux conversion factor for SSWE3", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")

Double1d	SSWE4 (description="Flux conversion factor for SSWE4", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWE5 (description="Flux conversion factor for SSWE5", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWE6 (description="Flux conversion factor for SSWE6", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWF1 (description="Flux conversion factor for SSWF1", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWF2 (description="Flux conversion factor for SSWF2", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWF3 (description="Flux conversion factor for SSWF3", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWF4 (description="Flux conversion factor for SSWF4", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWF5 (description="Flux conversion factor for SSWF5", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWG1 (description="Flux conversion factor for SSWG1", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWG2 (description="Flux conversion factor for SSWG2", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWG3 (description="Flux conversion factor for SSWG3", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SSWG4 (description="Flux conversion factor for SSWG4", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
table dataset	*(description="table for SLW array")*
Metadata	
Double1d	wavenumber (description="Wavenumber", quantity="cm-1 [100.0 m-1]")
Double1d	SLWA1 (description="Flux conversion factor for SLWA1", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SLWA2 (description="Flux conversion factor for SLWA2", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SLWA3 (description="Flux conversion factor for SLWA3", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SLWB1 (description="Flux conversion factor for SLWB1", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SLWB2 (description="Flux conversion factor for SLWB2", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SLWB3 (description="Flux conversion factor for SLWB3", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SLWB4 (description="Flux conversion factor for SLWB4", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SLWC1 (description="Flux conversion factor for SLWC1", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SLWC2 (description="Flux conversion factor for SLWC2", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SLWC3 (description="Flux conversion factor for SLWC3", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")

Double1d	SLWC4 (description="Flux conversion factor for SLWC4", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SLWC5 (description="Flux conversion factor for SLWC5", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SLWD1 (description="Flux conversion factor for SLWD1", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SLWD2 (description="Flux conversion factor for SLWD2", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SLWD3 (description="Flux conversion factor for SLWD3", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SLWD4 (description="Flux conversion factor for SLWD4", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SLWE1 (description="Flux conversion factor for SLWE1", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SLWE2 (description="Flux conversion factor for SLWE2", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
Double1d	SLWE3 (description="Flux conversion factor for SLWE3", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
composite	*(description="History of product")*
Metadata	
table dataset	*(description="History as Jython script")*
Metadata	
StringParameter	outvar (description="last output variable")
String1d	Lines (description="script lines", quantity="none")
table dataset	*(description="History of tasks")*
Metadata	
Long1d	ID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the task", quantity="none")
Long1d	ExecDate (description="Time of execution (FINETIME)", quantity="none")
String1d	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	*(description="The parameters belonging to the task history")*
Metadata	
Long1d	TaskID (description="Links the parameter and task table", quantity="none")
String1d	Name (description="The name of the parameter", quantity="none")
String1d	Type (description="Type of parameter", quantity="none")
String1d	Value (description="String representation of the parameter value", quantity="none")
Bool1d	IsDefault (description="True if the default value has been used", quantity="none")
Long1d	IncTaskId (description="ID of the history of an included product", quantity="none")
Bool1d	UserInput (description="Needs user input", quantity="none")
String1d	Class (description="Class of the parameter", quantity="none")

String1d	ProductType (description="Product Type for History", quantity="none")
String1d	ProductId (description="Human Readable Product Identifer for History", quantity="none")

12.3.12. SCalSpecLpfPar

product (type="SCalSpecLpfPar", description="Spectrometer Low Pass Filter Parameters")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
table dataset	*(description="Low Pass Filter Parameters Table")*
Metadata	
Int1d	filter (description="Filter Number", quantity="none")
Double1d	r1 (description="Filter Resistor 1", quantity="?")
Double1d	r2 (description="Filter Resistor 2", quantity="?")
Double1d	r3 (description="Filter Resistor 3", quantity="?")
Double1d	r4 (description="Filter Resistor 4", quantity="?")
Double1d	c1 (description="Filter Capacitor 1", quantity="F")
Double1d	c2 (description="Filter Capacitor 2", quantity="F")

12.3.13. SCalSpecOptCross

product (type="SCalSpecOptCross", description="Spectrometer Optical Crosstalk Table")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")

StringParameter	fileName (description="null")
table dataset	*(description="Table for SSW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	SSWA1 (description="Crosstalk values", quantity="")
Double1d	SSWA2 (description="Crosstalk values", quantity="")
Double1d	SSWA3 (description="Crosstalk values", quantity="")
Double1d	SSWA4 (description="Crosstalk values", quantity="")
Double1d	SSWB1 (description="Crosstalk values", quantity="")
Double1d	SSWB2 (description="Crosstalk values", quantity="")
Double1d	SSWB3 (description="Crosstalk values", quantity="")
Double1d	SSWB4 (description="Crosstalk values", quantity="")
Double1d	SSWB5 (description="Crosstalk values", quantity="")
Double1d	SSWC1 (description="Crosstalk values", quantity="")
Double1d	SSWC2 (description="Crosstalk values", quantity="")
Double1d	SSWC3 (description="Crosstalk values", quantity="")
Double1d	SSWC4 (description="Crosstalk values", quantity="")
Double1d	SSWC5 (description="Crosstalk values", quantity="")
Double1d	SSWC6 (description="Crosstalk values", quantity="")
Double1d	SSWD1 (description="Crosstalk values", quantity="")
Double1d	SSWD2 (description="Crosstalk values", quantity="")
Double1d	SSWD3 (description="Crosstalk values", quantity="")
Double1d	SSWD4 (description="Crosstalk values", quantity="")
Double1d	SSWD5 (description="Crosstalk values", quantity="")
Double1d	SSWD6 (description="Crosstalk values", quantity="")
Double1d	SSWD7 (description="Crosstalk values", quantity="")
Double1d	SSWE1 (description="Crosstalk values", quantity="")
Double1d	SSWE2 (description="Crosstalk values", quantity="")
Double1d	SSWE3 (description="Crosstalk values", quantity="")
Double1d	SSWE4 (description="Crosstalk values", quantity="")
Double1d	SSWE5 (description="Crosstalk values", quantity="")
Double1d	SSWE6 (description="Crosstalk values", quantity="")
Double1d	SSWF1 (description="Crosstalk values", quantity="")
Double1d	SSWF2 (description="Crosstalk values", quantity="")
Double1d	SSWF3 (description="Crosstalk values", quantity="")
Double1d	SSWF4 (description="Crosstalk values", quantity="")
Double1d	SSWF5 (description="Crosstalk values", quantity="")
Double1d	SSWG1 (description="Crosstalk values", quantity="")
Double1d	SSWG2 (description="Crosstalk values", quantity="")
Double1d	SSWG3 (description="Crosstalk values", quantity="")
Double1d	SSWG4 (description="Crosstalk values", quantity="")

table dataset	*(description="Table for SLW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	SLWA1 (description="Crosstalk values", quantity="")
Double1d	SLWA2 (description="Crosstalk values", quantity="")
Double1d	SLWA3 (description="Crosstalk values", quantity="")
Double1d	SLWB1 (description="Crosstalk values", quantity="")
Double1d	SLWB2 (description="Crosstalk values", quantity="")
Double1d	SLWB3 (description="Crosstalk values", quantity="")
Double1d	SLWB4 (description="Crosstalk values", quantity="")
Double1d	SLWC1 (description="Crosstalk values", quantity="")
Double1d	SLWC2 (description="Crosstalk values", quantity="")
Double1d	SLWC3 (description="Crosstalk values", quantity="")
Double1d	SLWC4 (description="Crosstalk values", quantity="")
Double1d	SLWC5 (description="Crosstalk values", quantity="")
Double1d	SLWD1 (description="Crosstalk values", quantity="")
Double1d	SLWD2 (description="Crosstalk values", quantity="")
Double1d	SLWD3 (description="Crosstalk values", quantity="")
Double1d	SLWD4 (description="Crosstalk values", quantity="")
Double1d	SLWE1 (description="Crosstalk values", quantity="")
Double1d	SLWE2 (description="Crosstalk values", quantity="")
Double1d	SLWE3 (description="Crosstalk values", quantity="")

12.3.14. SCalSpecChanTimeConst

product (type="SCalSpecChanTimeConst", description="Spectrometer Channel Time Constant Table")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
table dataset	*(description="Table for SSW array")*
Metadata	

String1d	names (description="Channel names", quantity="")
Double1d	timeConst (description="Detector time constant", quantity="s")
Double1d	error (description="Error on time constant", quantity="s")
Double1d	slowTimeConst (description="the slow detector time constant", quantity="s")
Double1d	slowTimeConstError (description="Error in the slow detector time constant", quantity="s")
Double1d	amplitude (description="time constant amplitude factor", quantity="none")
Double1d	amplitudeError (description="Error in time constant amplitude factor", quantity="none")
table dataset	*(description="Table for SLW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	timeConst (description="Detector time constant", quantity="s")
Double1d	error (description="Error on time constant", quantity="s")
Double1d	slowTimeConst (description="the slow detector time constant", quantity="s")
Double1d	slowTimeConstError (description="Error in the slow detector time constant", quantity="s")
Double1d	amplitude (description="time constant amplitude factor", quantity="none")
Double1d	amplitudeError (description="Error in time constant amplitude factor", quantity="none")

12.3.15. SCalSpecNonLinCorr

product (type="SCalSpecNonLinCorr", description="Spectrometer Non-Linearity Correction Calibration Table")	
Metadata	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
DoubleParameter	slwBiasAmpl (description="SLW bias voltage amplitude")
DoubleParameter	sswBiasAmpl (description="SSW bias voltage amplitude")
DateParameter	respControlStamp (description="Responsivity calibration product control date stamp")
StringParameter	biasMode (description="Nominal/bright source mode")

DoubleParameter	degreeLIADephasing (description="LIA dephasing angle")
DoubleParameter	sswBathTemp (description="SSW reference bath temperature")
DoubleParameter	slwBathTemp (description="SLW reference bath temperature")
StringParameter	sourceTable (description="File name of the source ASCII table")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	fileName (description="null")
table dataset	*(description="Table for SSW array")*
Metadata	
DoubleParameter	sswT1RefVoltage (description="SSW T1 reference voltage")
DoubleParameter	sswT1RefVoltageError (description="SSW T1 reference voltage uncertainty")
BooleanParameter	sswT1RefVoltageFlag (description="SSW T1 reference voltage flag")
DoubleParameter	sswT2RefVoltage (description="SSW T2 reference voltage")
DoubleParameter	sswT2RefVoltageError (description="SSW T2 reference voltage uncertainty")
BooleanParameter	sswT2RefVoltageFlag (description="SSW T2 reference voltage flag")
DoubleParameter	sswDP1RefVoltage (description="SSW DK1 reference voltage")
DoubleParameter	sswDP1RefVoltageError (description="SSW DK1 reference voltage uncertainty")
BooleanParameter	sswDP1RefVoltageFlag (description="SSW DK1 reference voltage flag")
DoubleParameter	sswDP2RefVoltage (description="SSW DK2 reference voltage")
DoubleParameter	sswDP2RefVoltageError (description="SSW DK2 reference voltage uncertainty")
BooleanParameter	sswDP2RefVoltageFlag (description="SSW DK2 reference voltage flag")
String1d	names (description="Channel names", quantity="")
Float1d	v0 (description="Zero point voltage", quantity="V")
Float1d	v0Error (description="Zero point voltage error", quantity="V")
Bool1d	v0Flag (description="Flag for zero point voltage", quantity="")
Float1d	k1 (description="First calibration term", quantity="")
Float1d	k1Error (description="Error in first calibration term", quantity="")
Float1d	k2 (description="Second calibration term", quantity="V")
Float1d	k2Error (description="Error in second calibration term", quantity="V")
Float1d	k3 (description="Third calibration term", quantity="V")
Float1d	k3Error (description="Error in third calibration term", quantity="V")
Bool1d	kFlag (description="Flag for astronomy calibration terms", quantity="")
Float1d	vMin (description="Minimum voltage limit", quantity="V")
Float1d	vMax (description="Maximum voltage limit", quantity="V")
table dataset	*(description="Table for SLW array")*
Metadata	
DoubleParameter	slwT1RefVoltage (description="SLW T1 reference voltage")

DoubleParameter	slwT1RefVoltageError (description="SLW T1 reference voltage uncertainty")
BooleanParameter	slwT1RefVoltageFlag (description="SLW T1 reference voltage flag")
DoubleParameter	slwT2RefVoltage (description="SLW T2 reference voltage")
DoubleParameter	slwT2RefVoltageError (description="SLW T2 reference voltage uncertainty")
BooleanParameter	slwT2RefVoltageFlag (description="SLW T2 reference voltage flag")
DoubleParameter	slwDP1RefVoltage (description="SLW DK1 reference voltage")
DoubleParameter	slwDP1RefVoltageError (description="SLW DK1 reference voltage uncertainty")
BooleanParameter	slwDP1RefVoltageFlag (description="SLW DK1 reference voltage flag")
DoubleParameter	slwDP2RefVoltage (description="SLW DK2 reference voltage")
DoubleParameter	slwDP2RefVoltageError (description="SLW DK2 reference voltage uncertainty")
BooleanParameter	slwDP2RefVoltageFlag (description="SLW DK2 reference voltage flag")
String1d	names (description="Channel names", quantity="")
Float1d	v0 (description="Zero point voltage", quantity="V")
Float1d	v0Error (description="Zero point voltage error", quantity="V")
Bool1d	v0Flag (description="Flag for zero point voltage", quantity="")
Float1d	k1 (description="First calibration term", quantity="")
Float1d	k1Error (description="Error in first calibration term", quantity="")
Float1d	k2 (description="Second calibration term", quantity="V")
Float1d	k2Error (description="Error in second calibration term", quantity="V")
Float1d	k3 (description="Third calibration term", quantity="V")
Float1d	k3Error (description="Error in third calibration term", quantity="V")
Bool1d	kFlag (description="Flag for astronomy calibration terms", quantity="")
Float1d	vMin (description="Minimum voltage limit", quantity="V")
Float1d	vMax (description="Maximum voltage limit", quantity="V")

12.3.16. SCalSpecTempDriftCorr

product (type="SCalSpecTempDriftCorr", description="Spectrometer Temperature Drift Correction Calibration Table")	
Metadata	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
DoubleParameter	slwBiasAmpl (description="SLW bias voltage amplitude")
DoubleParameter	sswBiasAmpl (description="SSW bias voltage amplitude")
DateParameter	respControlStamp (description="Responsivity calibration product control date stamp")
StringParameter	biasMode (description="Nominal/bright source mode")
DoubleParameter	degreeLIADephasing (description="LIA dephasing angle")
DoubleParameter	sswBathTemp (description="SSW reference bath temperature")
DoubleParameter	slwBathTemp (description="SLW reference bath temperature")
StringParameter	sourceTable (description="null")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	fileName (description="null")
table dataset	*(description="Table for SSW array")*
Metadata	
DoubleParameter	sswT1RefVoltage (description="SSW T1 reference voltage")
DoubleParameter	sswT1RefVoltageError (description="SSW T1 reference voltage uncertainty")
BooleanParameter	sswT1RefVoltageFlag (description="SSW T1 reference voltage flag")
DoubleParameter	sswT2RefVoltage (description="SSW T2 reference voltage")
DoubleParameter	sswT2RefVoltageError (description="SSW T2 reference voltage uncertainty")
BooleanParameter	sswT2RefVoltageFlag (description="SSW T2 reference voltage flag")
DoubleParameter	sswDP1RefVoltage (description="SSW DK1 reference voltage")
DoubleParameter	sswDP1RefVoltageError (description="SSW DK1 reference voltage uncertainty")
BooleanParameter	sswDP1RefVoltageFlag (description="SSW DK1 reference voltage flag")
DoubleParameter	sswDP2RefVoltage (description="SSW DK2 reference voltage")
DoubleParameter	sswDP2RefVoltageError (description="SSW DK2 reference voltage uncertainty")
BooleanParameter	sswDP2RefVoltageFlag (description="SSW DK2 reference voltage flag")
StringParameter	thermistorSelect (description="null")
String1d	names (description="Channel names", quantity="")
Double1d	aT1 (description="null", quantity="none")
Double1d	aT1Error (description="null", quantity="none")
Double1d	bT1 (description="null", quantity="none")
Double1d	bT1Error (description="null", quantity="none")
Bool1d	abT1Flag (description="null", quantity="none")
Double1d	aT2 (description="null", quantity="none")
Double1d	aT2Error (description="null", quantity="none")
Double1d	bT2 (description="null", quantity="none")

Double1d	bT2Error (description="null", quantity="none")
Bool1d	abT2Flag (description="null", quantity="none")
table dataset	*(description="Table for SLW array")*
Metadata	
DoubleParameter	slwT1RefVoltage (description="SLW T1 reference voltage")
DoubleParameter	slwT1RefVoltageError (description="SLW T1 reference voltage uncertainty")
BooleanParameter	slwT1RefVoltageFlag (description="SLW T1 reference voltage flag")
DoubleParameter	slwT2RefVoltage (description="SLW T2 reference voltage")
DoubleParameter	slwT2RefVoltageError (description="SLW T2 reference voltage uncertainty")
BooleanParameter	slwT2RefVoltageFlag (description="SLW T2 reference voltage flag")
DoubleParameter	slwDP1RefVoltage (description="SLW DK1 reference voltage")
DoubleParameter	slwDP1RefVoltageError (description="SLW DK1 reference voltage uncertainty")
BooleanParameter	slwDP1RefVoltageFlag (description="SLW DK1 reference voltage flag")
DoubleParameter	slwDP2RefVoltage (description="SLW DK2 reference voltage")
DoubleParameter	slwDP2RefVoltageError (description="SLW DK2 reference voltage uncertainty")
BooleanParameter	slwDP2RefVoltageFlag (description="SLW DK2 reference voltage flag")
StringParameter	thermistorSelect (description="null")
String1d	names (description="Channel names", quantity="")
Double1d	aT1 (description="null", quantity="none")
Double1d	aT1Error (description="null", quantity="none")
Double1d	bT1 (description="null", quantity="none")
Double1d	bT1Error (description="null", quantity="none")
Bool1d	abT1Flag (description="null", quantity="none")
Double1d	aT2 (description="null", quantity="none")
Double1d	aT2Error (description="null", quantity="none")
Double1d	bT2 (description="null", quantity="none")
Double1d	bT2Error (description="null", quantity="none")
Bool1d	abT2Flag (description="null", quantity="none")

12.3.17. SCalSpecSmecZpd

product (type="SCalSpecSmecZpd", description="Spectrometer Optical Encoder at ZPD Table")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	fileName (description="null")
table dataset	*(description="Table for SSW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	optEnc (description="Optical Encoder at ZPD", quantity="cm [0.01 m]")
Double1d	optEncError (description="Error on Optical Encoder at ZPD", quantity="cm [0.01 m]")
Double1d	lvdt (description="LVDT DC Signal at ZPD", quantity="")
Double1d	lvdtError (description="Error on LVDT DC Signal at ZPD", quantity="")
table dataset	*(description="Table for SLW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	optEnc (description="Optical Encoder at ZPD", quantity="cm [0.01 m]")
Double1d	optEncError (description="Error on Optical Encoder at ZPD", quantity="cm [0.01 m]")
Double1d	lvdt (description="LVDT DC Signal at ZPD", quantity="")
Double1d	lvdtError (description="Error on LVDT DC Signal at ZPD", quantity="")

12.3.18. SCalSpecSmecStepFactor

product (type="SCalSpecSmecStepFactor", description="Spectrometer Step Factor Table")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
table dataset	*(description="Table for SSW array")*

Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	stepFactor (description="Step Factor", quantity="none")
table dataset	*(description="Table for SLW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	stepFactor (description="Step Factor", quantity="none")

12.3.19. SCalSpecInterRef

product (type="SCalSpecInterRef", description="Spectrometer Reference Interferogram")	
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	formatVersion (description="Version of product format")
DoublePa-	dec (description="Actual Declination of pointing")

ram-eter	
Dou-blePa-ram-eter	decNominal (description="Requested Declination of pointing")
Dou-blePa-ram-eter	equinox (description="Equinox of celestial coordinate system")
Long-Pa-ram-eter	obsid (description="Observation identifier")
Dou-blePa-ram-eter	posAngle (description="Position Angle of pointing")
Dou-blePa-ram-eter	ra (description="Actual Right Ascension of pointing")
String-Pa-ram-eter	raDeSys (description="Coordinate reference frame for the RA and DEC")
Dou-blePa-ram-eter	raNominal (description="Requested Right Ascension of pointing")
String-Pa-ram-eter	telescope (description="Name of telescope")
String-Pa-ram-eter	subsystem (description="Instrument subsystem")
Long-Pa-ram-eter	numScans (description="Number of scans")
String-Pa-ram-eter	commandedResolution (description="Commanded Spectral Resolution")
String-Pa-ram-eter	version (description="null")
String-Pa-	dependency (description="Keywords on which product depends")

ram-eter	
String-Pa-ram-eter	biasMode (description="Nominal/bright source mode")
String-Pa-ram-eter	fileName (description="null")
com-pos-ite	*(description="null")*
Meta-da-ta	
Long-Pa-ram-eter	count (description="Interferogram Number")
Long-Pa-ram-eter	scanNumber (description="Scan Number")
String-Pa-ram-eter	scanDir (description="Scan Direction")
ta-ble dataset	*(description="null")*
Meta-data	
Dou-blePa-rame-ter	dec (description="Dec pointing for this channel")
Dou-blePa-rame-ter	ra (description="Ra pointing for this channel")
String-Param-eter	channelName (description="Channel name")
String-Param-eter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")

Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")

table dataset	*(description="null")*
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")

table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")

table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")

table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")

table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")

table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")

table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")

table dataset	*(description="null")*
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")

table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")

table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")

table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")

table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")

table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")

table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")

table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")

table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")

table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")

table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
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DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")

table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")

table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
composite	*(description="null")*
Metadata	
LongParameter	count (description="Interferogram Number")
LongParameter	scanNumber (description="Scan Number")
StringParameter	scanDir (description="Scan Direction")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")

DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")

DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")

DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")

DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")

DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")

DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")

DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")

DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")

DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")

DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")

DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")

DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")

DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
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table dataset	*(description="null")*
Metadata	
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DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
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DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")

DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")

DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")

DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")

DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")

DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")

DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")

DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
Double1d	opd (description="null", quantity="cm [0.01 m]")
Double1d	errorOpd (description="null", quantity="cm [0.01 m]")
Double1d	signal (description="null", quantity="V")
Double1d	errorSig (description="null", quantity="V")
Double1d	mask (description="null", quantity="none")

12.3.20. SCalSpecPhaseCorrLim

product (type="SCalSpecPhaseCorrLim", description="Unknown")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
table dataset	*(description="Table for SSW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	low (description="Low wavenumber edge", quantity="cm-1 [100.0 m-1]")
Double1d	high (description="High wavenumber edge", quantity="cm-1 [100.0 m-1]")
table dataset	*(description="Table for SLW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	low (description="Low wavenumber edge", quantity="cm-1 [100.0 m-1]")
Double1d	high (description="High wavenumber edge", quantity="cm-1 [100.0 m-1]")

12.3.21. SCalSpecBandEdge

product (type="SCalSpecBandEdge", description="Spectrometer Band Edges")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
table dataset	*(description="Table for SSW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	low (description="Low wavenumber edge", quantity="cm-1 [100.0 m-1]")

Double1d	high (description="High wavenumber edge", quantity="cm-1 [100.0 m-1]")
table dataset	*(description="Table for SLW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	low (description="Low wavenumber edge", quantity="cm-1 [100.0 m-1]")
Double1d	high (description="High wavenumber edge", quantity="cm-1 [100.0 m-1]")

12.3.22. SCalSpecNlp

product (type="SCalSpecNlp", description="Spectrometer Non-linear (Optical) Phase Correction Table")	
Metadata	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
DoubleParameter	resolutionSsw (description="null")
DoubleParameter	resolutionSlw (description="null")
StringParameter	fileName (description="null")
table dataset	*(description="SSW non-linear phase")*
Metadata	
Double1d	wavenumber (description="Wavenumber", quantity="cm-1 [100.0 m-1]")
Double1d	telePhase (description="Telescope phase", quantity="rad")
Double1d	teleError (description="Error on telescope phase", quantity="rad")
Double1d	scalPhase (description="SCAL phase", quantity="rad")
Double1d	scalError (description="Error on SCAL phase", quantity="rad")
table dataset	*(description="SLW non-linear phase")*
Metadata	
Double1d	wavenumber (description="Wavenumber", quantity="cm-1 [100.0 m-1]")
Double1d	telePhase (description="Telescope phase", quantity="rad")
Double1d	teleError (description="Error on telescope phase", quantity="rad")

Double1d	scalPhase (description="SCAL phase", quantity="rad")
Double1d	scalError (description="Error on SCAL phase", quantity="rad")

12.3.23. SCalSpecSmecStepFactor

product (type="SCalSpecSmecStepFactor", description="Spectrometer Step Factor Table")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
table dataset	*(description="Table for SSW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	stepFactor (description="Step Factor", quantity="none")
table dataset	*(description="Table for SLW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	stepFactor (description="Step Factor", quantity="none")

12.3.24. SCalSpecSmecZpd

product (type="SCalSpecSmecZpd", description="Spectrometer Optical Encoder at ZPD Table")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	dependency (description="Keywords on which product depends")

StringParameter	fileName (description="null")
table dataset	*(description="Table for SSW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	optEnc (description="Optical Encoder at ZPD", quantity="cm [0.01 m]")
Double1d	optEncError (description="Error on Optical Encoder at ZPD", quantity="cm [0.01 m]")
Double1d	lvdt (description="LVDT DC Signal at ZPD", quantity="")
Double1d	lvdtError (description="Error on LVDT DC Signal at ZPD", quantity="")
table dataset	*(description="Table for SLW array")*
Metadata	
String1d	names (description="Channel names", quantity="")
Double1d	optEnc (description="Optical Encoder at ZPD", quantity="cm [0.01 m]")
Double1d	optEncError (description="Error on Optical Encoder at ZPD", quantity="cm [0.01 m]")
Double1d	lvdt (description="LVDT DC Signal at ZPD", quantity="")
Double1d	lvdtError (description="Error on LVDT DC Signal at ZPD", quantity="")

12.3.25. SCalSpecBeamProf

product (type="SCalSpecBeamProf", description="Spectrometer Beam Profile")	
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	formatVersion (description="Version of product format")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken")
StringParameter	version (description="null")
StringParameter	spectrumType (description="Assumed Spectrum")
DoubleParameter	beamFwhm (description="Beam FWHM")
StringParameter	dataOrigin (description="null")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	arrayName (description="null")
StringParameter	fileName (description="null")
array dataset	*(description="Image")*

Metadata	
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	crpix1 (description="WCS: Reference pixel position axis 1, unit=Scalar")
DoubleParameter	crpix2 (description="WCS: Reference pixel position axis 2, unit=Scalar")
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	equinox (description="WCS: Equinox, unit=Duration")
DoubleParameter	epoch (description="WCS: Epoch, unit=Duration")
LongParameter	naxis1 (description="null")
LongParameter	naxis2 (description="null")
Double2d	(description="Image", quantity="")

Chapter 13. Auxiliary and Quality Products

13.1. auxEvLog: Events Log

product (type="auxEvLog", description="Herschel Events log Product")				
Metadata				
StringParameter	type (description="Herschel Events Log Product")			
StringParameter	creator (description="Generator of this product")			
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	formatVersion (description="Version of product format")			
StringParameter	author (description="author of data (site)")			
StringParameter	telescope (description="Herschel")			
LongParameter	odNumber (description="Operational Day Number count")			
table dataset	*(description="null")*			
Metadata				
DateParameter	startDate (description="First product time key in dataset")			
DateParameter	endDate (description="Last product key within dataset")			
LongParameter	apid (description="Packet APID")			
LongParameter	packetType (description="Packet type (set to 5 for PUS event reporting service")			
LongParameter	virtualChannel (description="Virtual Channel")			
DateParameter	DATE_OBS (description="First product time key in dataset")			
Long1d	obt (description="TAI Time key index", quantity="TAI")			
Short1d	eventId (description="Identifier for the event", quantity="none")			
Short1d	packetSubType (description="Identifier for the event", quantity="none")			
Short1d	sid (description="Packet structure ID", quantity="none")			
String1d	evtDesc (description="Event description as in APID table in MIB", quantity="none")			
Int1d	evtSeqCount (description="Event sequence counter", quantity="none")			
String1d	evtParamsA (description="Fixed length parameters field with complementary information on event", quantity="none")			
String1d	evtParamsB (description="Variable length parameters field with complementary information on event", quantity="none")			

13.2. auxMissTM: Missing Telemetry

product (type="auxMissTM", description="Herschel Missing TM Product")				
Metadata				
StringParameter	type (description="Herschel Missing TM Product")			
StringParameter	creator (description="Generator of this product")			
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	formatVersion (description="Version of product format")			
StringParameter	author (description="author of data (site)")			
StringParameter	telescope (description="Herschel")			
LongParameter	odNumber (description="Operational Day Number count")			
table dataset	*(description="MissingTmTable")*			
Metadata				
Int1d	apid (description="Missing packet's APID", quantity="none")			
Long1d	lastTime (description="Last valid packet time (OBT, TAI)", quantity="TAI")			
Long1d	nextTime (description="Next valid packet time - set to 0 if none available (OBT, TAI)", quantity="TAI")			
Short1d	lastSsc (description="Last valid source sequence counter", quantity="none")			
Short1d	nextSsc (description="Next valid source sequence counter (-1 if none", quantity="none")			

13.3. auxOol: Out of limits Product

product (type="auxOol", description="Herschel Out of Limits Product")	
Metadata	
StringParameter	type (description="Herschel Out Of Limits Product")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="null")
	modelName (description="null")

StringParameter	
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	author (description="author of data (site)")
StringParameter	telescope (description="Herschel")
LongParameter	odNumber (description="Operational Day Number count")
table dataset	*(description="null")*
Metadata	
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")
Long1d	oolTime (description="Time when the parameter was found to be OOL (as", quantity="TAI")
Long1d	valTime (description="Time of the parameter value (assumed TAI", quantity="TAI")
String1d	parName (description="Parameter name as in the MIB", quantity="none")
Int1d	oolCheckPos (description="OOL check position", quantity="none")
Byte1d	paramState (description="Parameter state in BEHV subsystem", quantity="none")
Byte1d	oolCheckStatus (description="OOL condition status", quantity="none")
Int1d	numViolations (description="Number of times OOL check has been violated", quantity="none")
Bool1d	signedParameterFlag (description="Signed parameter flag", quantity="none")
Long1d	parVal (description="Parameter value", quantity="none")
Long1d	parLowLimit (description="Parameter low limit", quantity="none")
Long1d	parHighLimit (description="Parameter high limit", quantity="none")

13.4. auxOrbitp: Predicted Orbit Ephemeris

product (type="auxOrbitp", description="Herschel Predicted Orbit Ephemeris Product")	
Metadata	
StringParameter	type (description="Herschel Predicted Orbit Ephemeris Product")
StringParameter	creator (description="Generator of this product")

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	formatVersion (description="Version of product format")
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")
table dataset	*(description="null")*
Metadata	
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")

Long1d	recordTime (description="Time key index (TAI)", quantity="TAI")
Long1d	onBoardTime (description="OnboardTime (TAI ?)", quantity="TAI")
Double2d	orbitPos (description="Cartesian components of S/C position", quantity="km [1000.0 m]")
Double2d	orbitVel (description="Cartesian components of S/C velocity", quantity="km/s [1000.0 m/s]")

13.5. HPP: Herschel Pointing Product

product (type="HPP", description="Herschel Pointing Product")	
Meta-data	
String-Parameter	type (description="Herschel Pointing Product")
String-Parameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
String-Parameter	description (description="null")
String-Parameter	instrument (description="null")
String-Parameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
String-Parameter	formatVersion (description="Version of product format")
String-Parameter	author (description="author of data (site)")
String-Parameter	raDecSys (description="Coordinate reference frame for the RA, Dec")
DoubleParameter	equinox (description="Equinox of reference system")
String-Parameter	telescope (description="Herschel")

String-Parameter	siamId (description="Reference to the applicable SIAM")
LongParameter	odNumber (description="Operational Day")
table dataset	*(description="Pointing table")*
Metadata	
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")
Long1d	obt (description="On board time", quantity="none")
Double2d	commandQuat (description="Commanded Pointing quaternion", quantity="none")
Double2d	filterQuat (description="Filtered attitude quaternion", quantity="none")
Double2d	gyroPropQuat (description="Gyro-propagated attitude quaternion", quantity="none")
Double1d	strQuality (description="STR quality index (arcsec)", quantity="none")
Double1d	gyroQuality (description="Gyro-propagated quality index (arcsec)", quantity="none")
Double2d	angVelocity (description="S/C angular velocity (arcsec/sec)", quantity="none")
Double2d	angVelocityError (description="S/C angular velocity error (arcsec/sec)", quantity="none")
Bool1d	isConstantVelocity (description="Constant velocity flag", quantity="none")

Bool1d	isStrInterlacing (description="STR interlacing flag. 1 if active, 0 otherwise", quantity="none")
Int1d	qualityFlag (description="Quality flag", quantity="none")
Bool1d	isSlew (description="Slew flag", quantity="none")
Bool1d	isOutOfField (description="Out of field flag", quantity="none")
Bool1d	isOffPosition (description="Off-position flag", quantity="none")
Bool1d	isOnTarget (description="On-target flag", quantity="none")

13.6. SIAM: Spacecraft/Instrument Alignment Matrices

	product (type="SIAM", description="Unknown")
Metadata	
StringParameter	type (description="Product Type")
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")
DateParam-	endDate (description="End date of this product")

e-ter	
String-Pa-ram-e-ter	formatVersion (description="Version of product format")
String-Pa-ram-e-ter	author (description="author of data (site)")
String-Pa-ram-e-ter	fileName (description="Filename when exported to FITS")
String-Pa-ram-e-ter	activeStrId (description="Identification of the active STR")
String-Pa-ram-e-ter	telescope (description="Herschel")
Long-Pa-ram-e-ter	nPacsSaa (description="Number of PACS reference SAAs (0 means not used)")
Long-Pa-ram-e-ter	nSpireSaa (description="Number of Spire reference SAAs (0 means not used)")
Long-Pa-ram-e-ter	nHifiSaa (description="Number of HiFi reference SAAs (0 means not used)")
ar-ray dataset	*(description="null")*
Meta-da-ta	
String-Pa-ram-e-ter	instrument (description="null")

StringParameter	apertureId (description="null")
DateParameter	validityStart (description="null")
DoubleParameter	SAA (description="null")
Double2d	(description="null", quantity="none")

13.7. auxCalSREM: Calibrated SREM Product

product (type="auxCalSREM", description="Herschel Calibrated SREM Product")	
Metadata	
StringParameter	type (description="Herschel Calibrated SREM Product")
StringParameter	creator (description="Generator of this product")
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	formatVersion (description="Version of product format")
StringParameter	author (description="author of data (site)")
StringParameter	telescope (description="Herschel")
LongParameter	odNumber (description="Operational Day Number count")
table dataset	*(description="null")*
Metadata	
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")
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")
Long1d	accumEpoch (description="Accumulation epoch (TAI", quantity="TAI")
Double1d	countRateD1 (description="Count rate in detector D1", quantity="Hz")
Double1d	countRateD2 (description="Count rate in detector D2", quantity="Hz")
Double1d	countRateD3 (description="Count rate in detector D3", quantity="Hz")
Double2d	protonDiffFlux (description="Omnidirectional differential proton flux", quantity="1/(MeV cm2 s) [6.24151E16 1/(J m2 s)]")
Double2d	protonDiffFluxErr (description="Omnidirectional differential proton flux error", quantity="1/(MeV cm2 s) [6.24151E16 1/(J m2 s)]")
Double2d	electronDiffFlux (description="Omnidirectional differential electron flux", quantity="1/(MeV cm2 s) [6.24151E16 1/(J m2 s)]")
Double2d	electronDiffFluxErr (description="Omnidirectional differential electron flux error", quantity="1/(MeV cm2 s) [6.24151E16 1/(J m2 s)]")
Double1d	anisotropyIndex (description="Anisotropy index", quantity="none")
Double1d	d12Temp (description="D1/D2 temperature", quantity="K")
Double1d	d3Temp (description="D3 temperature", quantity="K")
Double2d	orbitPos (description="Spacecraft orbital position (EME2000 frame)", quantity="km [1000.0 m]")
Double1d	ra (description="Spacecraft pointing RA", quantity="degree [0.01745329 rad]")
Double1d	dec (description="Spacecraft pointing Dec", quantity="degree [0.01745329 rad]")
Double1d	posAngle (description="Spacecraft pointing Position angle", quantity="degree [0.01745329 rad]")
Double1d	countRateC2 (description="Count rate in channel C2 (coincidence proton channel C2,50-280MeV)", quantity="Hz")
Int1d	ProtonFitQual (description="Proton flux fit quality", quantity="none")
Int1d	ElectronFitQual (description="Electron flux fit quality", quantity="none")
table dataset	*(description="null")*
Metadata	
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")
Long1d	AcqTime (description="Aquisition time (assumed TAI", quantity="TAI")
Double1d	doseRadFet (description="Total dose in internal RadFET", quantity="Rads [0.01 J/kg]")
Double1d	radFetTemp (description="Internal RadFET temperature", quantity="K")

13.8. auxRawSREM: Raw SREM Product

product (type="auxRawSREM", description="Herschel Raw SREM Product")

Metadata	
StringParameter	type (description="Herschel Calibrated SREM Product")
StringParameter	creator (description="Generator of this product")
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	formatVersion (description="Version of product format")
StringParameter	author (description="author of data (site)")
StringParameter	telescope (description="Herschel")
LongParameter	odNumber (description="Operational Day Number count")
table dataset	*(description="null")*
Metadata	
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")
Long1d	startAccumTime (description="Start accumulation time (assumed TAI", quantity="TAI")
Long1d	endAccumTime (description="End accumulation time (assumed TAI", quantity="TAI")
Long1d	tc1Raw (description="Total counts in D1 (protons tc1 raw)", quantity="none")
Long1d	s12Raw (description="Proton alarm (s12 raw)", quantity="none")
Long1d	s13Raw (description="Single protons (s13 raw)", quantity="none")
Long1d	s14Raw (description="Single protons (s14 raw)", quantity="none")
Long1d	s15Raw (description="Single protons (s15 raw)", quantity="none")
Long1d	tc2Raw (description="Total counts in D2 (protons tc2 raw)", quantity="none")
Long1d	s25Raw (description="Heavy ions (s25 raw)", quantity="none")
Long1d	c1Raw (description="Coincidence, protons (c1 raw)", quantity="none")
Long1d	c2Raw (description="Coincidence, protons (c2 raw)", quantity="none")
Long1d	c3Raw (description="Coincidence, protons (c3 raw)", quantity="none")
Long1d	c4Raw (description="Coincidence, protons (c4 raw)", quantity="none")
Long1d	tc3Raw (description="Total counts in D3 (electrons)", quantity="none")
Long1d	s32Raw (description="Electron alarm (s32 raw)", quantity="none")
Long1d	s33Raw (description="Proton count (s33 raw)", quantity="none")
Long1d	s34Raw (description="Proton count (s34 raw)", quantity="none")
Long1d	pl1 (description="Dead time correction count D1", quantity="none")
Long1d	pl2 (description="Dead time correction count D2", quantity="none")
Long1d	pl3 (description="Dead time correction count D3", quantity="none")

Int1d	t8Raw (description="D1/D2 temperature sensor", quantity="none")
Int1d	t9Raw (description="D3 temperature sensor", quantity="none")
table dataset	*(description="null")*
Metadata	
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")
Long1d	AcqTime (description="Aquisition time (assumed TAI", quantity="TAI")
Int1d	t7Raw (description="Internal temperature sensor T7", quantity="none")
Int1d	d7Raw (description="Total dose in internal RadFET (D7 raw)", quantity="none")
Int1d	vCalRef1Raw (description="Calibration reference voltage 1", quantity="none")
Int1d	vCalRef2Raw (description="Calibration reference voltage 2", quantity="none")
Int1d	vCalRef3Raw (description="Calibration reference voltage 3", quantity="none")
Int1d	vCalRef4Raw (description="Calibration reference voltage 4", quantity="none")
Int1d	cCalRef1Raw (description="Calibration temperature", quantity="none")
Int1d	cCalRef2Raw (description="CAlibration offset temperature", quantity="none")

13.9. auxTch: Telecommand History

product (type="auxTch", description="Herschel Telecommand History Product")	
Metadata	
StringParameter	type (description="Herschel Telecommand History Product")
StringParameter	creator (description="Generator of this product")
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	formatVersion (description="Version of product format")
StringParameter	author (description="author of data (site)")
StringParameter	telescope (description="Herschel")
LongParameter	odNumber (description="Operational Day Number count")
table dataset	*(description="null")*
Metadata	

Long1d	tcIndex (description="Telecommand Index Key", quantity="none")
Long1d	tcId (description="HCSS Telecommand ID", quantity="none")
String1d	name (description="TC name from MIB", quantity="none")
String1d	desc (description="TC description", quantity="none")
String1d	seq (description="Parent sequence name", quantity="none")
Long1d	releaseTime (description="Release Time", quantity="TAI")
Long1d	executionTime (description="Execution time", quantity="TAI")
String1d	staticPtvCheck (description="Static PTV check state", quantity="none")
String1d	dynamicPtvCheck (description="Dynamic PTV check state", quantity="none")
String1d	cevCheck (description="CEV check state", quantity="none")
String1d	group (description="Group flag value", quantity="none")
String1d	block (description="Block flag value", quantity="none")
String1d	interlockStatus (description="Interlock status", quantity="none")
String1d	sourceType (description="Source type", quantity="none")
String1d	source (description="Source workstation ID", quantity="none")
Long1d	updateTime (description="Update time", quantity="TAI")
String1d	verificationStatus (description="Verification status", quantity="none")
table dataset	*(description="null")*
Metadata	
Long1d	tcIndex (description="Telecommand Index Key", quantity="none")
String1d	name (description="TC name from MIB", quantity="none")
String1d	desc (description="TC description", quantity="none")
String1d	valueRepresentation (description="Parent sequence name", quantity="none")
String1d	radix (description="Packet type", quantity="none")
String1d	value (description="Execution time", quantity="none")
table dataset	*(description="null")*
Metadata	
Long1d	tcIndex (description="Telecommand Index Key", quantity="none")
String1d	bitPattern (description="Bit pattern in hexadecimal string format", quantity="none")

13.10. auxTimec: Time Correlation

product (type="auxTimec", description="Herschel Time Correlation Product")	
Metadata	
StringParameter	type (description="Herschel Time Correlation Product")
StringParameter	creator (description="Generator of this product")
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	formatVersion (description="Version of product format")
StringParameter	author (description="author of data (site)")
StringParameter	telescope (description="Herschel")
LongParameter	odNumber (description="Operational Day Number count")
table dataset	*(description="null")*
Metadata	
Long1d	recordTime (description="TAI Time key index", quantity="TAI")
Long1d	scet (description="SCET Time UTC Reference", quantity="UTC")
Long1d	ctr (description="CTR Onboard Central Time Reference TAI (CUC for", quantity="TAI")
Long1d	corScet (description="Correlated SCET Time UTC Reference", quantity="UTC")
Double1d	gradient (description="Gradient of the coefficient", quantity="none")
Double1d	offset (description="Offset of the coefficient", quantity="none")
Byte1d	validAccuracy (description="Accuracy and validity flag of the parameters", quantity="none")
Short1d	numTimeCouples (description="Number of time couples", quantity="none")
Byte1d	tcoMode (description="Time Correlation Mode", quantity="none")
Byte1d	resetCheckStatus (description="Status of OBT rest checking", quantity="none")
Byte1d	msbMaskStatus (description="Status of OBT MSB masking", quantity="none")
Long1d	resetCheckSpid (description="SPID of TM packet used for OBT reset checking", quantity="none")

13.11. auxUpl: Uplink Product

product (type="auxUpl", description="Herschel Uplink Product")	
Metadata	
StringParameter	type (description="Herschel Uplink Product")
StringParameter	creator (description="Generator of this product")
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	formatVersion (description="Version of product format")
LongParameter	obsid (description="Observation ID")
StringParameter	author (description="author of data (site)")
StringParameter	telescope (description="Herschel")
LongParameter	odnumber (description="Operational Day Number count")
composite	*(description="null")*
Metadata	
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsRequestId (description="Observation Request Identifier")
LongParameter	obsRequestVersion (description="Observation Request Version")
StringParameter	title (description="Title")
StringParameter	target (description="Target")
StringParameter	targetType (description="Target Type")
StringParameter	instrument (description="Instrument")
StringParameter	subinstrument (description="Sub Instrument")
StringParameter	observingMode (description="Observation Mode")
LongParameter	duration (description="Duration")
LongParameter	timeEstimate (description="Time Estimate")
LongParameter	overhead (description="Overhead")
DoubleParameter	chopperAngle (description="Chopper Angle")
DoubleParameter	chopperAvoidAngle1 (description="First Angle in the Chopper Avoidance pair")
DoubleParameter	chopperAvoidAngle2 (description="Second Angle in the Chopper Avoidance pair")
DoubleParameter	mapAvoidAngle1 (description="First Angle in the MAp Avoidance pair")
StringParameter	pointingMode (description="Pointing Mode")
LongParameter	tslewmin (description="Minimum slew time")
StringParameter	constraintName1 (description="Constraint Name")
StringParameter	constraintType1 (description="Constraint Type")
StringParameter	constraintInfo1 (description="Constraint Information")
table dataset	*(description="Boolean ObservationRequest Parameter")*

Metadata	
String1d	paramName (description="null", quantity="none")
Bool1d	boolParamVal (description="null", quantity="none")
table dataset	*(description="Double ObservationRequest Parameter")*
Metadata	
String1d	paramName (description="null", quantity="none")
Double1d	doubleParamVal (description="null", quantity="none")
table dataset	*(description="Integer ObservationRequest Parameter")*
Metadata	
String1d	paramName (description="Parameter Name", quantity="none")
Int1d	intParamVal (description="Integer Parameter", quantity="none")
table dataset	*(description="Long ObservationRequest Parameter")*
Metadata	
String1d	paramName (description="null", quantity="none")
Long1d	longParamVal (description="null", quantity="none")
table dataset	*(description="String ObservationRequest Parameter")*
Metadata	
String1d	paramName (description="null", quantity="none")
String1d	stringParamVal (description="null", quantity="none")
table dataset	*(description="null")*
Metadata	
LongParameter	obsid (description="Observation Identifier")
LongParameter	obsRequestId (description="Observation Request Identifier")
StringParameter	proposal (description="Proposal")
LongParameter	proposalNumId (description="Proposal Number Identifier")
LongParameter	propVersion (description="Proposal Version")
StringParameter	propCategory (description="Proposal Category")
StringParameter	propScienceCategory (description="Proposal Science Category")
StringParameter	propTitle (description="Proposal Title")
StringParameter	propPI (description="Proposal P.I.")
StringParameter	proposerComment (description="Proposal Comment")
DoubleParameter	requestTime (description="Proposal Requested Time")
DoubleParameter	timeAllocPrority1 (description="Time allocated of priority 1 time")
DoubleParameter	timeAllocPrority2 (description="Time allocated of priority 2 time")
LongParameter	technivalEvaluation (description="Status of technical evaluation")

DoubleParame-ter	technicalEvalComment (description="Comment written when the proposal was technically evaluated")
StringParameter	propCoI1 (description="Proposal CoI")
StringParameter	propCoI2 (description="Proposal CoI")
StringParameter	propCoI3 (description="Proposal CoI")
StringParameter	propCoI4 (description="Proposal CoI")
StringParameter	propCoI5 (description="Proposal CoI")
StringParameter	propCoI6 (description="Proposal CoI")
StringParameter	propCoI7 (description="Proposal CoI")
StringParameter	propCoI8 (description="Proposal CoI")
StringParameter	propCoI9 (description="Proposal CoI")
StringParameter	propCoI10 (description="Proposal CoI")
StringParameter	propCoI11 (description="Proposal CoI")
StringParameter	propCoI12 (description="Proposal CoI")
StringParameter	propCoI13 (description="Proposal CoI")
StringParameter	propCoI14 (description="Proposal CoI")
StringParameter	propCoI15 (description="Proposal CoI")
StringParameter	propCoI16 (description="Proposal CoI")
StringParameter	propCoI17 (description="Proposal CoI")
StringParameter	propCoI18 (description="Proposal CoI")
StringParameter	propCoI19 (description="Proposal CoI")
StringParameter	propCoI20 (description="Proposal CoI")
StringParameter	propCoI21 (description="Proposal CoI")
StringParameter	propCoI22 (description="Proposal CoI")
StringParameter	propCoI23 (description="Proposal CoI")
StringParameter	propCoI24 (description="Proposal CoI")
StringParameter	propCoI25 (description="Proposal CoI")
StringParameter	propCoI26 (description="Proposal CoI")
StringParameter	propCoI27 (description="Proposal CoI")
StringParameter	propCoI28 (description="Proposal CoI")
StringParameter	propCoI29 (description="Proposal CoI")
StringParameter	propCoI30 (description="Proposal CoI")
StringParameter	propCoI31 (description="Proposal CoI")
StringParameter	propCoI32 (description="Proposal CoI")
StringParameter	propCoI33 (description="Proposal CoI")
StringParameter	propCoI34 (description="Proposal CoI")
StringParameter	propCoI35 (description="Proposal CoI")
StringParameter	propCoI36 (description="Proposal CoI")
StringParameter	propCoI37 (description="Proposal CoI")
StringParameter	propCoI38 (description="Proposal CoI")
StringParameter	propCoI39 (description="Proposal CoI")
StringParameter	propCoI40 (description="Proposal CoI")

StringParameter	propCoI41 (description="Proposal CoI")
table dataset	*(description="null")*
Metadata	
DateParameter	startDate (description="First Time Key within the Dataset")
DateParameter	endDate (description="Last Time Key within the Dataset")
LongParameter	obsid (description="Observation Identifier")
DateParameter	DATE_OBS (description="First Time Key within the Dataset")
Long1d	bbid (description="Building Block ID", quantity="none")
String1d	bbName (description="Name of the Execution Block", quantity="none")
Long1d	bbStart (description="Execution Block start time", quantity="microsecond [1.0E-6 s]")
Long1d	bbEnd (description="Execution Block end time", quantity="microsecond [1.0E-6 s]")

13.12. QUALITY

map context (type="QUALITY", description="Quality Data")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	state (description="null")
StringParameter	action (description="null")
LongParameter	obsid (description="null")
StringParameter	obsState (description="Pipeline processing level")
StringParameter	spr (description="null")
StringParameter	qflag_BPSCISAT_p (description="null")
DoubleParameter	qflag_BPSCISAT_p_v (description="null")
StringParameter	qflag_RPSCISAT_p (description="null")
DoubleParameter	qflag_RPSCISAT_p_v (description="null")
product	*(type="QUALITY_LOG", description="Quality logs")*
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
LongParameter	obsid (description="null")
table dataset	*(description="LOGS")*
Metadata	
Long1d	Time (description="null", quantity="none")
String1d	Type (description="null", quantity="none")
String1d	Level (description="null", quantity="none")
String1d	Category (description="null", quantity="none")
String1d	Source (description="null", quantity="none")
String1d	Message (description="null", quantity="none")

13.13. QUALITY_SUMMARY

map context (type="QUALITY_SUMMARY", description="Quality Data")	
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	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	state (description="null")
StringParameter	action (description="null")
LongParameter	obsid (description="null")
StringParameter	obsState (description="Pipeline processing level")
StringParameter	qflag_BPSCISAT_p (description="null")
DoubleParameter	qflag_BPSCISAT_p_v (description="null")
StringParameter	qflag_RPSCISAT_p (description="null")
DoubleParameter	qflag_RPSCISAT_p_v (description="null")

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 DP Name	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	CDELT1

Herschel DP Name	Description	FITS-Name
cdelt2	pixel size in axis 2	CDELT2
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 DP Name	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 DP Name	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
satValuesUn-signed	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
strInterlacingSta-tus	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

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

Appendix B. Quality metadata keywords

Table B.1. Quality metadata for HIFI, table 1 of 3

FITS keyword	Description
CHCKCOMB	Failed in processing COMBs
CHCKZERO	Out of limit in Zeros spectra
SPIKENUM	Out of limit in the number of spikes detected
BADPIXEL	Out of limit in the number of bad pixels detected
SATPIXEL	Maximum number of saturated pixel detected in a spectrum
OBSMODE	Observing mode not recognized - consult the pipeline configuration xml file
MAXDRIFT	Inacceptable maximum drift in the frequency grid detected. Return the observed drift
FREQCHEC	Frequency checks and/ or frequency grouping failed
CHOPATT	Pattern observed for the Chopper not as expected in all datasets
CHOPVAL	Number of distinct Chopper values not as expected in all datasets

Table B.2. Quality metadata for HIFI, table 2 of 3

FITS keyword	Description
LOFPATT	Pattern observed for the LoFrequency not as expected in all datasets
LOFVAL	Number of distinct LOF values not as expected in all datasets. Return the number
BUFFPATT	Pattern observed for the buffer not as expected in all datasets
BUFFVAL	Number of distinct buffer values not as expected in all datasets
PHASCHEC	Not all phase checks could not be carried through or completed
HOTCOLD	Data measured from hot and cold loads not sufficient for hot/cold calibration
TSYSFLAG	Hot/cold calibration not successful
INTENCAL	Intensity calibration not or not for all spectra carried through
NWEIGHTS	Problem occurred while computing channel-dependent weights. No weights added
NOSUBST	Reference subtraction not processed - maybe identification of phases not successful
NOBASELN	No off baseline could be calculated

Table B.3. Quality metadata for HIFI, table 3 of 3

FITS keyword	Description
ONOFFSEQ	ON/OFF datasets not in expected sequence (...-ON-OFF-ON-OFF-... or ...-ON-OFF-OFF-ON-ON-....
ONOFFLEN	Some ON/OFF dataset pairs found with unequal number of rows
ONOFFPRO	More ON- than OFF-datasets found in the data - not all ON-datasets could be processed with OFF-dataset(s)
NOFFSUBS	No off baseline subtraction carried through since no off baseline data available
UNALIGHK	Percentage of Dataframes which have unaligned HK
NOCHOPHK	Percentage of DFs having no chopper information
NOCOMMHK	Percentage of DFs having no commanded chopper information
NOFREQHK	Percentage of DFs having no frequency monitor information
NOLOCOFF	Percentage of DFs having no LO Code offset information
NOLOCOMA	Percentage of DFs having no LO Code main information
BBIDCORR	Percentage of Bbids corrected according to commanded Bbids

Table B.4. Quality metadata for PACS, table 1 of 4

FITS keyword	Description
BPSPUBUF	Blue photometer total number of SPUBuffer not expected
BPSPUMIS	Percentage of blue photometer missing SPU above threshold
BPSPUFAI	Percentage of blue photometer failed SPU above threshold
RPSPUBUF	Red photometer total numbers of SPUBuffer not expected
RPSPUMIS	Percentage of red photometer missing SPU above threshold
RPSPUFAI	Percentage of red photometer failed SPU above threshold
BPSCISAT	Percentage of blue photometer saturated pixels in science blocks above threshold
RPSCISAT	Percentage of red photometer saturated pixels in science blocks above threshold
BPCALSAT	Percentage of blue photometer saturated pixels in cal blocks above threshold
RPCALSAT	Percentage of red photometer saturated pixels in cal blocks above threshold

Table B.5. Quality metadata for PACS, table 2 of 4

FITS keyword	Description
BPSCGLIT	Percentage of blue photometer deglitched pixels in science blocks above threshold
RPSCGLIT	Percentage of red photometer deglitched pixels in science blocks above threshold
BPCAGLIT	Percentage of blue photometer deglitched pixels in cal blocks above threshold
RPCAGLIT	Percentage of red photometer deglitched pixels in cal blocks above threshold
POINTACC	Estimate in arcsec of mean error of Pointing during observation above tolerance
POINTSTA	Percentage of observing time with Pointing accuracy above threshold
POINTOFF	Mean Pointing offset in arcsec with respect to coordinates provided by proposer out of limits
BPSCNUMF	Unexpected Blue photometer average number of frames per chopper plateau in science blocks
BPSCRMSF	Blue photometer rms of frames per chopper plateau in science blocks above tolerance

Table B.6. Quality metadata for PACS, table 3 of 4

FITS keyword	Description
BPSCVALF	Blue photometer average number of valid frames per chopper plateau in science blocks below tolerance
BPSCVRMF	Blue photometer rms of valid frames per chopper plateau in science blocks above tolerance
RPSCNUMF	Unexpected Red photometer average number of frames per chopper plateau in science blocks
RPSCRMSF	Red photometer rms of frames per chopper plateau in science blocks above tolerance
RPSCVALF	Red photometer average number of valid frames per chopper plateau in science blocks below tolerance
RPSCVRMF	Red photometer rms of valid frames per chopper plateau in science blocks above tolerance
BPCANUMF	Unexpected Blue photometer average number of frames per chopper plateau in calibration blocks
BPCARMSF	Blue photometer rms of frames per chopper plateau in calibration blocks above tolerance
BPCAVALF	Blue photometer average number of valid frames per chopper plateau in calibration blocks below tolerance

Table B.7. Quality metadata for PACS, table 4 of 4

FITS keyword	Description
BPCAVRMF	Blue photometer rms of valid frames per chopper plateau in calibration blocks above tolerance

FITS keyword	Description
RPCANUMF	Unexpected Red photometer average number of frames per chopper plateau in calibration blocks
RPCARMSF	Red photometer rms of frames per chopper plateau in the calibration blocks above tolerance
RPCAVALF	Red photometer average number of valid frames per chopper plateau in calibration blocks below tolerance
RPCAVRMF	Red photometer rms of valid frames per chopper plateau in calibration blocks above tolerance
BPVALPIX	Unacceptable level of usable pixels for the Blue detector
RPVALPIX	Unacceptable level of usable pixel for the Red detector
BPOBSTRU	Unexpected data observation structure for blue bolometer data
RPOBSTRU	Unexpected data observation structure for red bolometer data
BPSUBBCK	Inaccurate background subtraction in blue bolometer data
RPSUBBCK	Inaccurate background subtraction in red bolometer data

Table B.8. Quality metadata for SPIRE, table 1 of 3

FITS keyword	Description
ADCLATCH	ADC Latch error
BATHTEMP	Maximum bath temperature variation (in K) exceed acceptable values
CAL2TEMP	SCal2 maximum temperature variation (in K) exceed acceptable values
CAL4TEMP	SCal4 maximum temperature variation (in K) exceed acceptable values
DDROPPED	Incomplete integrations present
TLINESNR	Minimum S/N of detector timelines falls below acceptable values
DFLUXPLW	Difference in the flux computed from the positive and negative images of the source on the PLW array exceeds acceptable values
DFLUXPMW	Difference in the flux computed from the positive and negative images of the source on the PMW array exceeds acceptable values
DFLUXPSW	Difference in the flux computed from the positive and negative images of the source on the PSW array exceeds acceptable values

Table B.9. Quality metadata for SPIRE, table 2 of 3

FITS keyword	Description
DLATMWLW	Maximum difference in the latitude of the point source measured on the PMW and PLW arrays exceeds acceptable values

FITS keyword	Description
DLATSWLW	Maximum difference in the latitude of the point source measured on the PSW and PLW arrays exceeds acceptable values
DLATSWMW	Maximum difference in the latitude of the point source measured on the PSW and PMW arrays exceeds acceptable values
DLONMWLW	Maximum difference in the longitude of the point source measured on the PMW and PLW arrays exceeds acceptable values
DLONSWLW	Maximum difference in the longitude of the point source measured on the PSW and PLW arrays exceeds acceptable values
DLONSWMW	Maximum difference in the longitude of the point source measured on the PSW and PMW arrays exceeds acceptable values
MISFRING	Missing optical encoder fringes
NFITSPLW	Number of successful Gaussian fits on the PLW array is invalid
NFITSPMW	Number of successful Gaussian fits on the PMW array is invalid

Table B.10. Quality metadata for SPIRE, table 3 of 3

FITS keyword	Description
NFITSPSW	Number of successful Gaussian fits on the PSW array is invalid
NMISSPOS	Positions missing from the jiggle map or chopper
PHASEWRP	Inband phase is observed to change by ± 2pi
RETSPLIN	Reticulating splines failure
SCANEXTR	Ratio of mesured SMEC scan extrema to commanded scan extrema is out of acceptable range
SMECTEMP	Difference between maximum and minimum SPEC temperatures is outside acceptable range
AVGSPEED	Ratio of the measured SMEC speed to the commanded SMEC speed is outside acceptable range
STDSPEED	Standard deviation of the SMEC speed is outside acceptable range