

Herschel Products Definitions Document

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Herschel Products Definitions Document

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Part I. Herschel Products Description

Chapter 1. Introduction

1.1. Purpose and scope

The data from the Herschel Space Observatory is provided to the astronomical community as standard products. Standard products are generated systematically by the Herschel Science Centre through the Herschel Data Processing system, and are stored in the Herschel Science Archive to be accessed by the astronomical community and for legacy. In addition, the Herschel 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.

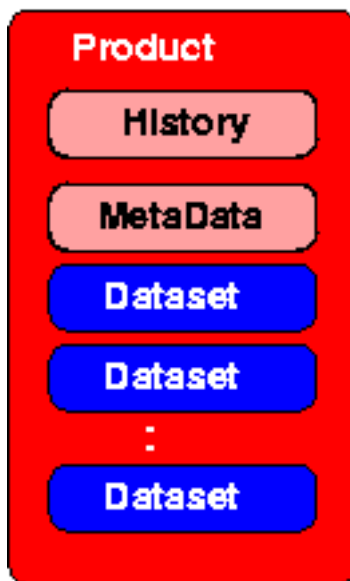


Figure 2.1. Herschel generic Product structure

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 Operational 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 first 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

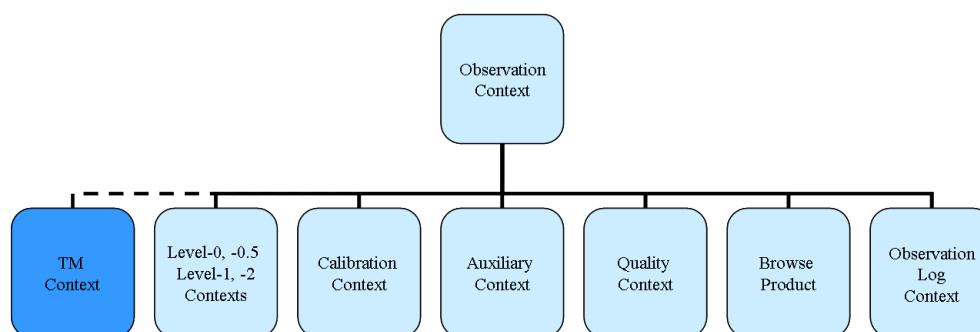


Figure 2.2. Observation Context structure

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><xxxxxx>_<yyy>v<NN>

where

- h stands for Herschel, <product/instrument> will be the product type such as *aux* for auxiliary products or the instrument name either *hifi*, *pacs* or *spire* (note that all letters in the filename are lowercase).
- <subinst>: this is only relevant for instrument data. A letter will appear to indicate what instrument or mode was used. For SPIRE or PACS data a *p* will be appear when the Photometer sub-instrument is used and *s* will be displayed for the Spectrometer sub-instrument. For HIFI the letter indicates the mode or the spectrometer depending on the type of product.
- <obsid/od>: The observation ID given in decimal format. For data valid for one operational day the number of that day will be given instead.
- <bbid>: Some observational products are split up into logic parts of the observation such as building blocks. When this occurs the bbid will be given in hexadecimal format.
- <level>: The level of the product is presented here, level 0 products will be represented by 00, level 1 by 10 and level 2 by 20. Further levels may exist with appropriate numbers.
- <xxxxxx>: Here will be 3 to 5 letters that indicate the type of product, such as *psc* for point source catalogue, *sll* for spectral lines list, or the type of the AUX products the file is. A full list of the acronyms and their meaning will be provided in the future.
- <yyy>: When data from an observation need to be split up further than by building block or in a way unrelated to building block, the number of the slice is given here. If 100 or less products result from the split then two digits (yy) will represent the slices (in time order). For more than 100 slices then three digits (yyy) will be used.
- v<NN>: Gives the version number of the pipeline used to generate the product. For some auxiliary and calibration files for which there are few version through the mission and apply to many observations, the version number of the product is used instead of <obsid/OD>

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

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

2.6.1. Observation products

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

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

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

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

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

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

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

For those split up into slices but not building blocks

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

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

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

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

2.6.2. Calibration products

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

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

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

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

and

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

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

2.6.3. Auxiliary products

The filenames of auxiliary products take the generic form:

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

For products associated with one obsid the form is

haux<osbid>_xxxxxx<vNN>

Those with data for one operational day take the form

haux<OD>_xxxxxx<vNN>

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

haux_xxxxxx<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><xxxxxx>_v<NN>

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

<level> =30 or 40

xxxxx is *psc* for point source catalogue, *xsc* for extended source catalogue, *sl* 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 eq. 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. <ul style="list-style-type: none"> • QDCFullMSigma: Tabledataset containing mSigma vector. • QDCFullRo: Tabledataset containing ro vector. • QDCFullVSigma: Tabledataset containing vSigma vector. • QDCFullGridDim: Tabledataset containing grid dimensions. • QDCFullGrid: Tabledataset containing grid or 3d table.
CalHrsBadChans	Product which contains the bad channels table for HRS
CalWbsBadPixel	Product which contains the bad pixels table for WBS. (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
Dataframe-CountQualityProduct	Level 0 Quality Product: Dataframe count
QHtpLevel0	Level 0 Quality product
RuntimeError-Product	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 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 $\lambda \times 5 \times 5$ 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 $\text{bins} \times \text{oversample}$, 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 $\lambda \times N \times M$, 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
<i>PacsCalCommon</i>	<i>PACS Common Calibration Context</i>
ChopperAngle	Relation between the digital field plate readout and physical angle of the chopper mirror with respect to the PACS focal plane unit.
ChopperAngleRedundant	Relation between the digital field plate readout and physical angle of the redundant chopper mirror with respect to the PACS focal plane unit.
ChopperSkyAngle	Conversion factor for chopper physical deflection angle with respect to the 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
<i>PacsCalPhot</i>	<i>PACS Photometer Calibration Context</i>
Absorption	Transmission as a function of wavelength for the entire photometer chain system
ArrayInstrument	Photometer detector array to Instrument alignment.
BadPixelMask	Bad pixels mask for the photometer.
CalSources	Flux per pixel from the Calibration Sources in the blue and red channel.
CISaturationLimits	CL saturation limits.
CITransferFunction	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
<i>PacsCalSpec</i>	<i>PACS Spectrometer Calibration Context</i>
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 photo-conductor 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/poly-nome 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.
RsrB2A	Relative Spectral Response Function - wavelength-dependent response per pixel for band B2A
RsrB2B	Relative Spectral Response Function - wavelength-dependent response per pixel for band B2B
RsrB3A	Relative Spectral Response Function - wavelength-dependent response per pixel for band B3A
RsrR1	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 Off-set Timeline	RPOT	PHOTOFF	y	y	y	y		

Product description	Product type	TM Pack-ets	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	BSMNOM-INAL	y	y				
Raw Spectrometer Mechanism Timeline	RSMECT	SMECSE-LECT, SMEC-SCAN					y	y
Raw Subsystem Control Unit Timeline	RSCUT	SCUNOM-INAL	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 Level0BlockContext observation building block)	
Level-0 products (as given in the table above)	

5.1.2. Level-0.5 products

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

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

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

5.1.3. Level-1 products

Product description	Product type	POF2	POF3	POF5	POF9	SOF1	SOF2
Pointed Photometer Product	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
<i>Auxiliary Context</i>		
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 through the "quality" field of the *QualityContext* representing the processed observation. The Quality Control Report Summary will be generated at the end of the quality control analysis as a result of this process. It will be implemented in the HCSS as a new *QualityContext* and it will be accessible through the "quality summary" field.

QualityContextExplorer: Advanced viewer for QualityControl products

Common data

ObsId: 0x0050001901 (1342183681)
 Instrument: SPIRE
 Obs.mode: Unknown
 Level: LEVEL2_PROCESSED
 SW version: SPG v1.2.3
 Date: 2009-11-05T14:11:58.331000
 State: PASSED
 Action: NONE

Quality flags

Concept	Value
Ratio of number of samples that are out of the calibrated voltage range...	0.9523809523809523
Ratio of number of samples that are out of the calibrated voltage range...	0.056818181818181816

Logs
 *** NO QUALITY LOGS AVAILABLE ***

Comments

Registered comment

herdpops 2:46 PM, Nov 13, 2009

Information from the Herschel Calibration Scientist:

- No issue found at pointing or calibration level for this observation.
- Data reduction is well in line with our best knowledge of the instrument so far.
- All metadata appears to be correct in the observation.

Notable points on the final SPIRE scan map products for obsid 1342183681:

1. A median baseline has been removed from each scan in the level 1 -> 2 processing. This is the standard baseline removal for the automatic SPIRE pipeline. At a later date, a baseline removal tool is expected to be

isPublic REMOVE THIS COMMENT

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

Spectral Line List: TableDataset

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

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

Double side band spectra (HIFI) extra columns

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

Other possible additional columns

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

6.3.2. Source List product

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

Metadata

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

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

Source List: TableDataset

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

Part II. Herschel Products Definitions Tables

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

Chapter 7. HIFI Observation Products

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

7.1.1. HifiTimelineProduct

<i>product (type="herschel.hifi.pipeline.product.HifiTimelineProduct", description="Time ordered HIFI product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>table dataset</i>	(description="null")
<i>Metadata</i>	
<i>IntId</i>	dataset (description="Numbers of the datasets", quantity="none")
<i>StringId</i>	type (description="List of types for each block", quantity="none")
<i>IntId</i>	Bbid (description="Building Block Id", quantity="none")
<i>IntId</i>	bbNumber (description="Building Block Number", quantity="none")
<i>BoolId</i>	isLine (description="It is a line measurement", quantity="none")
<i>BoolId</i>	isHrs (description="It is HRS", quantity="none")
<i>BoolId</i>	isWbs (description="It is WBS", quantity="none")
<i>StringId</i>	fullName (description="Full Name of BBid", quantity="none")
<i>DoubleId</i>	LoFrequency (description="null", quantity="GHz [1.0E9 Hz]")
<i>DoubleId</i>	LO-Throw (description="null", quantity="GHz [1.0E9 Hz]")

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

7.1.2. HifiTimelineProduct

	<i>map context</i> (type="herschel.hifi.pipeline.product.HifiTimelineProduct", description="Time ordered HIFI product")
<i>Meta- da- ta</i>	
<i>String- Pa- ram</i>	type (description="Product Type Identification")

Parameter	
String Parameter	creator (description="Generator of this product")
Date Parameter	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")
Date Parameter	startDate (description="Start date of this product")
Date Parameter	endDate (description="End date of this product")
String Parameter	formatVersion (description="Version of the product format")
Long Parameter	count_ds (description="null")
Long Parameter	last_ds (description="last dataset in this product")
Long Parameter	obsid (description="Observation id")

e- ter	
Long Pa- ram- e- ter	apid (description="Apid")
String Pa- ram- e- ter	fileName (description="filename for exporting purposes")
String Pa- ram- e- ter	author (description="author of this product")
String Pa- ram- e- ter	origin (description="site that created the product")
String Pa- ram- e- ter	telescope (description="name of telescope")
Long Pa- ram- e- ter	odNumber (description="Operational day number")
String Pa- ram- e- ter	AOT (description="Observation template (same as obsMode)")
String Pa- ram- e- ter	obsMode (description="Observing mode")
Long Pa- ram- e- ter	proposal (description="Proposal identifier")
String Pa- ram- e- ter	observer (description="proposer of the observation")

String Parameter	object (description="Target of Observation")
String Parameter	naifId (description="Solar system object NAIF identifier")
Double Parameter	ra (description="actual RA of pointing")
Double Parameter	dec (description="actual DEC of pointing")
Double Parameter	raNominal (description="requested RA of pointing")
Double Parameter	decNominal (description="requested DEC of pointing")
String Parameter	raDeSys (description="Reference frame for equatorial coordinate system")
Double Parameter	posAngle (description="position angle from North in sky")
Double Parameter	equinox (description="Equinox of the celestial coordinate system")
String Parameter	version (description="Version of the product")
String Parameter	level (description="Pipeline level")

Parameter	
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")
productMetadata	(type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="HRS Spectrum Dataset")
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")

HIFI Observation Products

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")

Long Pa- ram- e- ter	OBS-revision (description="On Board Software revision")
Long Pa- ram- e- ter	OBS-version (description="On Board Software version")
Long Pa- ram- e- ter	OBS-patch (description="On Board Software patch level")
String Pa- ram- e- ter	Band (description="Active band")
String Pa- ram- e- ter	prime_redundant (description="prime or redundant")
String Pa- ram- e- ter	sds_type (description="Generalized Building Block type")
Long Pa- ram- e- ter	datasetNumber (description="Consecutive number of this Dataset within HTP")
String Pa- ram- e- ter	author (description="author of this product")
String Pa- ram- e- ter	origin (description="site that created the product")
String Pa- ram- e- ter	telescope (description="name of telescope")
Long Pa- ram	odNumber (description="Operational day number")

e- ter	
String Pa- ram- e- ter	AOT (description="Observation template (same as obsMode)")
String Pa- ram- e- ter	obsMode (description="Observing mode")
Long Pa- ram- e- ter	proposal (description="Proposal identifier")
String Pa- ram- e- ter	observer (description="proposer of the observation")
String Pa- ram- e- ter	object (description="Target of Observation")
String Pa- ram- e- ter	naifId (description="Solar system object NAIF identifier")
Dou- blePa- ram- e- ter	ra (description="actual RA of pointing")
Dou- blePa- ram- e- ter	dec (description="actual DEC of pointing")
Dou- blePa- ram- e- ter	raNominal (description="requested RA of pointing")
Dou- blePa- ram- e- ter	decNominal (description="requested DEC of pointing")

String Parameter	raDeSys (description="Reference frame for equatorial coordinate syste")
Double Parameter	posAngle (description="position angle from North in sky")
Double Parameter	equinox (description="null")
String Parameter	version (description="Version of the product")
String Parameter	fileName (description="filename for exporting purposes")
String Parameter	level (description="Pipeline level")
Double Parameter	vlsr (description="Velocity in the frame given at frame")
String Parameter	frame (description="Frame for Local Standard of Rest")
Boolean Parameter	Valid (description="null")
Long Parameter	subbands (description="null")
Boolean Parameter	hassubbands (description="Whether it has subbands")

Parameter	
String Parameter	wavename (description="Actual name of the WaveColumn")
String Parameter	waveunit (description="Units of the WaveColumn")
String Parameter	wavedescription (description="Description of WaveColumn")
DoubleParameter	channelSpacing (description="null")
String Parameter	CoordinateSystem (description="null")
Long Parameter	rasterLineNum (description="null")
Long Parameter	rasterColumnNum (description="null")
Long Parameter	scanLineNum (description="null")
Long Parameter	nodCycleNum (description="null")
String Parameter	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")

e- ter	
Long Pa- ram- e- ter	subbandlength_8 (description="Length of subband 8")
Long Pa- ram- e- ter	subbandstart_1 (description="Starting channel for subband 1")
Long Pa- ram- e- ter	subbandstart_2 (description="Starting channel for subband 2")
Long Pa- ram- e- ter	subbandstart_3 (description="Starting channel for subband 3")
Long Pa- ram- e- ter	subbandstart_4 (description="Starting channel for subband 4")
Long Pa- ram- e- ter	subbandstart_5 (description="Starting channel for subband 5")
Long Pa- ram- e- ter	subbandstart_6 (description="Starting channel for subband 6")
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")
ta- ble dataset	(description="HRS Spectrum Dataset")

Meta data	
String Parameter	type (description="Product Type Identification")
String Parameter	creator (description="Generator of this product")
Date Parameter	creationDate (description="Creation date of this product")
String Parameter	description (description="Name of this product")
String Parameter	instrument (description="null")
String Parameter	modelName (description="Model name attached to this product")
Date Parameter	startDate (description="Start date of this product")
Date Parameter	DATE_OBS (description="Start date of this product")
Date Parameter	endDate (description="End date of this product")
Long Parameter	apid (description="Apid")
Long Parameter	obsid (description="Observation id")

e- ter	
String Pa- ram- e- ter	backend (description="Spectrograph: WBS or HRS")
Long Pa- ram- e- ter	channels (description="Number of channels")
Long Pa- ram- e- ter	OBS-revision (description="On Board Software revision")
Long Pa- ram- e- ter	OBS-version (description="On Board Software version")
Long Pa- ram- e- ter	OBS-patch (description="On Board Software patch level")
String Pa- ram- e- ter	Band (description="Active band")
String Pa- ram- e- ter	prime_redundant (description="prime or redundant")
String Pa- ram- e- ter	sds_type (description="Generalized Building Block type")
Long Pa- ram- e- ter	datasetNumber (description="Consecutive number of this Dataset within HTP")
String Pa- ram- e- ter	author (description="author of this product")

String Parameter	origin (description="site that created the product")
String Parameter	telescope (description="name of telescope")
Long Parameter	odNumber (description="Operational day number")
String Parameter	AOT (description="Observation template (same as obsMode)")
String Parameter	obsMode (description="Observing mode")
Long Parameter	proposal (description="Proposal identifier")
String Parameter	observer (description="proposer of the observation")
String Parameter	object (description="Target of Observation")
String Parameter	naifId (description="Solar system object NAIF identifier")
Double Parameter	ra (description="actual RA of pointing")
Double Parameter	dec (description="actual DEC of pointing")

e- ter	
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")

String Parameter	frame (description="Frame for Local Standard of Rest")
Boolean Parameter	Valid (description="null")
Long Parameter	subbands (description="null")
Boolean Parameter	hassubbands (description="Whether it has subbands")
String Parameter	wavename (description="Actual name of the WaveColumn")
String Parameter	waveunit (description="Units of the WaveColumn")
String Parameter	wavedescription (description="Description of WaveColumn")
Double Parameter	channelSpacing (description="null")
String Parameter	CoordinateSystem (description="null")
Long Parameter	rasterLineNum (description="null")
Long Parameter	rasterColumnNum (description="null")

e- ter	
Long Pa- ram- e- ter	scanLineNum (description="null")
Long Pa- ram- e- ter	nodCycleNum (description="null")
String Pa- ram- e- ter	frequencyGroup (description="null")
Dou- blePa- ram- e- ter	loFrequency (description="The LO frequency of the source phase")
Dou- blePa- ram- e- ter	loThrow (description="The LO frequency throw")
String Pa- ram- e- ter	sideband (description="status: upper or lower side band")
Boolean Pa- ram- e- ter	isVelocityCorrected (description="null")
Long Pa- ram- e- ter	subbandlength_1 (description="Length of subband 1")
Long Pa- ram- e- ter	subbandlength_2 (description="Length of subband 2")
Long Pa- ram- e- ter	subbandlength_3 (description="Length of subband 3")

Long Pa ram e ter	subbandlength_4 (description="Length of subband 4")
Long Pa ram e ter	subbandlength_5 (description="Length of subband 5")
Long Pa ram e ter	subbandlength_6 (description="Length of subband 6")
Long Pa ram e ter	subbandlength_7 (description="Length of subband 7")
Long Pa ram e ter	subbandlength_8 (description="Length of subband 8")
Long Pa ram e ter	subbandstart_1 (description="Starting channel for subband 1")
Long Pa ram e ter	subbandstart_2 (description="Starting channel for subband 2")
Long Pa ram e ter	subbandstart_3 (description="Starting channel for subband 3")
Long Pa ram e ter	subbandstart_4 (description="Starting channel for subband 4")
Long Pa ram e ter	subbandstart_5 (description="Starting channel for subband 5")
Long Pa ram	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")

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<i>Double1d</i>	velocity (description="Radial Velocity", quantity="km/s [1000.0 m/s]")
<i>Long1d</i>	obs time (description="Observation Time", quantity="none")
<i>Double1d</i>	longitude (description="longitude (RA in equatorial coord)", quantity="degree [0.01745329 rad]")
<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="MHz [1000000.0 Hz]")
<i>Int1d</i>	rowflag (description="Dataframe Flag", quantity="none")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical ban", quantity="A")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Cali", quantity="K")
<i>Double1d</i>	LoFrequency (description="Local Oscillator Frequency", quantity="GHz [1.0E9 Hz]")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal b", quantity="A")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="degree [0.01745329 rad]")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="degree [0.01745329 rad]")
<i>String1d</i>	Pol_S (description="Polar used : H/V", quantity="none")
<i>Int2d</i>	LO_S (description="Status of the LO : Locked (=1) / Unlocked (=0)", quantity="none")
<i>String1d</i>	Unit_ID_S (description="Unit used : QM/FM", quantity="none")
<i>Int2d</i>	type (description="null", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Bool2d</i>	blockselection (description="Block Selection", quantity="none")
<i>Int1d</i>	df_transfer (description="DataFrame Transfer Counter", quantity="none")
<i>Double2d</i>	LO_F (description="LO Frequency values", quantity="MHz [1000000.0 Hz]")
<i>Double1d</i>	IF_5P_V (description="IF voltage for +5V", quantity="V")
<i>String1d</i>	Switch_S (description="Status of the input IF Switch : H/V", quantity="none")
<i>Double2d</i>	ACS_T (description="ACS Temperature values", quantity="degreeC [274.15 K]")
<i>Double1d</i>	IF_6P_V (description="IF voltage for +6V", quantity="V")
<i>Double1d</i>	ACS_18P_V (description="ACS voltage for +18V", quantity="V")
<i>Int2d</i>	channels (description="null", quantity="none")
<i>Double2d</i>	IF_T (description="IF Temperature values", quantity="degreeC [274.15 K]")
<i>String1d</i>	Buffer_S (description="Buffer for ACS integration : BufferA/BufferB", quantity="none")
<i>Int2d</i>	LO_F_raw (description="LO Frequency raw values", quantity="MHz [1000000.0 Hz]")
<i>Double2d</i>	corrVSigma (description="null", quantity="none")
<i>Int2d</i>	sampler (description="null", quantity="none")
<i>Double1d</i>	ACS_Ana_1_3P3_V (description="ACS voltage for +3.3V (analog1)", quantity="V")
<i>Int1d</i>	rasterColumnNum (description="null", quantity="none")
<i>Double1d</i>	ACS_5P_V (description="ACS voltage for +5V", quantity="V")
<i>Double1d</i>	ACS_8P_V (description="ACS voltage for +8V", quantity="V")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")
<i>Double2d</i>	mSigma (description="null", quantity="none")
<i>Double1d</i>	ACS_Dig_3P3_V (description="ACS voltage for +3.3V (digital)", quantity="V")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Double2d</i>	Attenuators (description="IRM attenuator values : 0-15.5 dB", quantity="dB [1.258925 J]")
<i>Int2d</i>	colorIndex (description="null", quantity="none")

HIFI Observation Products

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 Dataset	(type="herschel.ia.dataset.Product(HifiSpectrumDataset)", description="HRS Spectrum Dataset")
Metadata	
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")

HIFI Observation Products

Parameter	
String Parameter	instrument (description="null")
String Parameter	modelName (description="Model name attached to this product")
Date Parameter	startDate (description="Start date of this product")
Date Parameter	endDate (description="End date of this product")
String Parameter	formatVersion (description="Version of the product format")
Long Parameter	apid (description="Apid")
Long Parameter	obsid (description="Observation id")
String Parameter	backend (description="Spectrograph: WBS or HRS")
Long Parameter	channels (description="Number of channels")
Long Parameter	OBS-revision (description="On Board Software revision")
Long Parameter	OBS-version (description="On Board Software version")

Parameter	
Long Parameter	OBS_patch (description="On Board Software patch level")
String Parameter	Band (description="Active band")
String Parameter	prime_redundant (description="prime or redundant")
String Parameter	sds_type (description="Generalized Building Block type")
Long Parameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
String Parameter	author (description="author of this product")
String Parameter	origin (description="site that created the product")
String Parameter	telescope (description="name of telescope")
Long Parameter	odNumber (description="Operational day number")
String Parameter	AOT (description="Observation template (same as obsMode)")

String Parameter	obsMode (description="Observing mode")
Long Parameter	proposal (description="Proposal identifier")
String Parameter	observer (description="proposer of the observation")
String Parameter	object (description="Target of Observation")
String Parameter	naifId (description="Solar system object NAIF identifier")
Double Parameter	ra (description="actual RA of pointing")
Double Parameter	dec (description="actual DEC of pointing")
Double Parameter	raNominal (description="requested RA of pointing")
Double Parameter	decNominal (description="requested DEC of pointing")
String Parameter	raDeSys (description="Reference frame for equatorial coordinate syste")
Double Parameter	posAngle (description="position angle from North in sky")

e- ter	
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")

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

Parameter	
String Parameter	sideband (description="status: upper or lower side band")
Boolean Parameter	isVelocityCorrected (description="null")
Long Parameter	subbandlength_1 (description="Length of subband 1")
Long Parameter	subbandlength_2 (description="Length of subband 2")
Long Parameter	subbandlength_3 (description="Length of subband 3")
Long Parameter	subbandlength_4 (description="Length of subband 4")
Long Parameter	subbandlength_5 (description="Length of subband 5")
Long Parameter	subbandlength_6 (description="Length of subband 6")
Long Parameter	subbandlength_7 (description="Length of subband 7")
Long Parameter	subbandlength_8 (description="Length of subband 8")

Long Parameter	subbandstart_1 (description="Starting channel for subband 1")
Long Parameter	subbandstart_2 (description="Starting channel for subband 2")
Long Parameter	subbandstart_3 (description="Starting channel for subband 3")
Long Parameter	subbandstart_4 (description="Starting channel for subband 4")
Long Parameter	subbandstart_5 (description="Starting channel for subband 5")
Long Parameter	subbandstart_6 (description="Starting channel for subband 6")
Long Parameter	subbandstart_7 (description="Starting channel for subband 7")
Long Parameter	subbandstart_8 (description="Starting channel for subband 8")
table dataset Metadata	(description="HRS Spectrum Dataset")
String Parameter	type (description="Product Type Identification")
String Parameter	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")

Parameter	
String Parameter	rowflag_8 (description="HK could not be aligned with DataFrames. value")
Long Parameter	OBS-revision (description="On Board Software revision")
Long Parameter	OBS-version (description="On Board Software version")
Long Parameter	OBS-patch (description="On Board Software patch level")
String Parameter	Band (description="Active band")
String Parameter	prime_redundant (description="prime or redundant")
String Parameter	sds_type (description="Generalized Building Block type")
Long Parameter	datasetNumber (description="Consecutive number of this Dataset within HTP")
String Parameter	author (description="author of this product")
String Parameter	origin (description="site that created the product")

String Parameter	telescope (description="name of telescope")
Long Parameter	odNumber (description="Operational day number")
String Parameter	AOT (description="Observation template (same as obsMode)")
String Parameter	obsMode (description="Observing mode")
Long Parameter	proposal (description="Proposal identifier")
String Parameter	observer (description="proposer of the observation")
String Parameter	object (description="Target of Observation")
String Parameter	naifId (description="Solar system object NAIF identifier")
Double Parameter	ra (description="actual RA of pointing")
Double Parameter	dec (description="actual DEC of pointing")
Double Parameter	raNominal (description="requested RA of pointing")

e- ter	
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")

Boolean Parameter	Valid (description="null")
Long Parameter	subbands (description="null")
Boolean Parameter	hassubbands (description="Whether it has subbands")
String Parameter	wavename (description="Actual name of the WaveColumn")
String Parameter	waveunit (description="Units of the WaveColumn")
String Parameter	wavedescription (description="Description of WaveColumn")
Double Parameter	channelSpacing (description="null")
String Parameter	CoordinateSystem (description="null")
Long Parameter	rasterLineNum (description="null")
Long Parameter	rasterColumnNum (description="null")
Long Parameter	scanLineNum (description="null")

Parameter	
Long Parameter	nodCycleNum (description="null")
String Parameter	frequencyGroup (description="null")
Double Parameter	loFrequency (description="The LO frequency of the source phase")
Double Parameter	loThrow (description="The LO frequency throw")
String Parameter	sideband (description="status: upper or lower side band")
Boolean Parameter	isVelocityCorrected (description="null")
Long Parameter	subbandlength_1 (description="Length of subband 1")
Long Parameter	subbandlength_2 (description="Length of subband 2")
Long Parameter	subbandlength_3 (description="Length of subband 3")
Long Parameter	subbandlength_4 (description="Length of subband 4")

Long Pa ram e ter	subbandlength_5 (description="Length of subband 5")
Long Pa ram e ter	subbandlength_6 (description="Length of subband 6")
Long Pa ram e ter	subbandlength_7 (description="Length of subband 7")
Long Pa ram e ter	subbandlength_8 (description="Length of subband 8")
Long Pa ram e ter	subbandstart_1 (description="Starting channel for subband 1")
Long Pa ram e ter	subbandstart_2 (description="Starting channel for subband 2")
Long Pa ram e ter	subbandstart_3 (description="Starting channel for subband 3")
Long Pa ram e ter	subbandstart_4 (description="Starting channel for subband 4")
Long Pa ram e ter	subbandstart_5 (description="Starting channel for subband 5")
Long Pa ram e ter	subbandstart_6 (description="Starting channel for subband 6")
Long Pa ram	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]")

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<i>Int1d</i>	rowflag (description="Dataframe Flag", quantity="none")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical ban", quantity="A")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Cali", quantity="K")
<i>Double1d</i>	LoFrequency (description="Local Oscillator Frequency", quantity="GHz [1.0E9 Hz]")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal b", quantity="A")
<i>Double1d</i>	posAngle (description="Position Angle", quantity="degree [0.01745329 rad]")
<i>Double1d</i>	latitude (description="latitude (Decl in equatorial coord)", quantity="degree [0.01745329 rad]")
<i>String1d</i>	Pol_S (description="Polar used : H/V", quantity="none")
<i>Int2d</i>	LO_S (description="Status of the LO : Locked (=1) / Unlocked (=0)", quantity="none")
<i>String1d</i>	Unit_ID_S (description="Unit used : QM/FM", quantity="none")
<i>Int2d</i>	type (description="null", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Bool2d</i>	blockselection (description="Block Selection", quantity="none")
<i>Int1d</i>	df_transfer (description="DataFrame Transfer Counter", quantity="none")
<i>Double2d</i>	LO_F (description="LO Frequency values", quantity="MHz [1000000.0 Hz]")
<i>Double1d</i>	IF_5P_V (description="IF voltage for +5V", quantity="V")
<i>String1d</i>	Switch_S (description="Status of the input IF Switch : H/V", quantity="none")
<i>Double2d</i>	ACS_T (description="ACS Temperature values", quantity="degreeC [274.15 K]")
<i>Double1d</i>	IF_6P_V (description="IF voltage for +6V", quantity="V")
<i>Double1d</i>	ACS_18P_V (description="ACS voltage for +18V", quantity="V")
<i>Int2d</i>	channels (description="null", quantity="none")
<i>Double2d</i>	IF_T (description="IF Temperature values", quantity="degreeC [274.15 K]")
<i>String1d</i>	Buffer_S (description="Buffer for ACS integration : BufferA/BufferB", quantity="none")
<i>Int2d</i>	LO_F_raw (description="LO Frequency raw values", quantity="MHz [1000000.0 Hz]")
<i>Double2d</i>	corrVSigma (description="null", quantity="none")
<i>Int2d</i>	sampler (description="null", quantity="none")
<i>Double1d</i>	ACS_Ana_1_3P3_V (description="ACS voltage for +3.3V (analog1)", quantity="V")
<i>Int1d</i>	rasterColumnNum (description="null", quantity="none")
<i>Double1d</i>	ACS_5P_V (description="ACS voltage for +5V", quantity="V")
<i>Double1d</i>	ACS_8P_V (description="ACS voltage for +8V", quantity="V")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")
<i>Double2d</i>	mSigma (description="null", quantity="none")
<i>Double1d</i>	ACS_Dig_3P3_V (description="ACS voltage for +3.3V (digital)", quantity="V")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Double2d</i>	Attenuators (description="IRM attenuator values : 0-15.5 dB", quantity="dB [1.258925 J]")
<i>Int2d</i>	colorIndex (description="null", quantity="none")
<i>Int2d</i>	resolution (description="null", quantity="none")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Double1d</i>	IF_8P_V (description="IF voltage for +8V", quantity="V")

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

<i>product (type="herschel.ia.dataset.spectrum.SpectralSimpleCube", description="HIFI cube product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="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")

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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")
<i>array</i> <i>dataset</i>	(description="Cube")
<i>Metadata</i>	
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")
<i>Double3d</i>	(description="Cube", quantity="K")
<i>array dataset</i>	(description="Weights")
<i>Metadata</i>	
<i>Double3d</i>	(description="Weights", quantity="none")

Chapter 8. HIFI Calibration Products

8.1. HIFI Predefined Calibration Products

8.1.1. CalCoupCoeff

<i>list context</i> (type="Unknown", description="Unknown")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
<i>product</i> (type="Unknown", description="Coupling Coefficients used in the Hot/Cold calibration.")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="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")
<i>table dataset</i> (description="Coupling Coefficients used in the Hot/Cold calibration.")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="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")

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

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8.1.2. CalForwardEff

<i>list context</i> (type="Unknown", description="Unknown")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
<i>product</i> (type="Unknown", description="Forward coefficients")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="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")
<i>table dataset</i> (description="Forward coefficients")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="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")
<i>DoubleId</i>	1a_lof (description="Local oscillator frequency", quantity="GHz [1.0E9 Hz]")
<i>DoubleId</i>	1a_et al (description="null", quantity="none")
<i>DoubleId</i>	

	1b_lof (description="Local oscillator frequency", quantity="GHz [1.0E9 Hz]")
<i>DoubleId</i>	1b_et al (description="null", quantity="none")
<i>DoubleId</i>	2a_lof (description="Local oscillator frequency", quantity="GHz [1.0E9 Hz]")
<i>DoubleId</i>	2a_et al (description="null", quantity="none")
<i>DoubleId</i>	2b_lof (description="Local oscillator frequency", quantity="GHz [1.0E9 Hz]")
<i>DoubleId</i>	2b_et al (description="null", quantity="none")
<i>DoubleId</i>	3a_lof (description="Local oscillator frequency", quantity="GHz [1.0E9 Hz]")
<i>DoubleId</i>	3a_et al (description="null", quantity="none")
<i>DoubleId</i>	3b_lof (description="Local oscillator frequency", quantity="GHz [1.0E9 Hz]")
<i>DoubleId</i>	3b_et al (description="null", quantity="none")
<i>DoubleId</i>	4a_lof (description="Local oscillator frequency", quantity="GHz [1.0E9 Hz]")
<i>DoubleId</i>	4a_et al (description="null", quantity="none")
<i>DoubleId</i>	4b_lof (description="Local oscillator frequency", quantity="GHz [1.0E9 Hz]")
<i>DoubleId</i>	4b_et al (description="null", quantity="none")
<i>DoubleId</i>	5a_lof (description="Local oscillator frequency", quantity="GHz [1.0E9 Hz]")
<i>DoubleId</i>	5a_et al (description="null", quantity="none")
<i>DoubleId</i>	5b_lof (description="Local oscillator frequency", quantity="GHz [1.0E9 Hz]")
<i>DoubleId</i>	5b_et al (description="null", quantity="none")
<i>DoubleId</i>	6a_lof (description="Local oscillator frequency", quantity="GHz [1.0E9 Hz]")
<i>DoubleId</i>	6a_et al (description="null", quantity="none")
<i>DoubleId</i>	6b_lof (description="Local oscillator frequency", quantity="GHz [1.0E9 Hz]")
<i>DoubleId</i>	6b_et al (description="null", quantity="none")
<i>DoubleId</i>	7a_lof (description="Local oscillator frequency", quantity="GHz [1.0E9 Hz]")
<i>DoubleId</i>	7a_et al (description="null", quantity="none")
<i>DoubleId</i>	7b_lof (description="Local oscillator frequency", quantity="GHz [1.0E9 Hz]")
<i>DoubleId</i>	7b_et al (description="null", quantity="none")

8.1.3. CalSidebandGain

<i>list context (type="Unknown", description="Unknown")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")

StringParameter	creator (description="Generator of this product")	
DateParameter	creationDate (description="Creation date of this product")	
StringParameter	description (description="Name of this product")	
StringParameter	instrument (description="Instrument attached to this product")	
StringParameter	modelName (description="Model name attached to this product")	
DateParameter	startDate (description="Start date of this product")	
DateParameter	endDate (description="End date of this product")	
StringParameter	formatVersion (description="Version of product format")	
<i>product</i>	<i>(type="Unknown", description="Sideband Gains")</i>	
<i>Metadata</i>		
StringParameter	type (description="Product Type Identification")	
StringParameter	creator (description="Generator of this product")	
DateParameter	creationDate (description="Creation date of this product")	
StringParameter	description (description="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")	
<i>table dataset</i>	<i>(description="null")</i>	
<i>Metadata</i>		
<i>DoubleId</i>	1a_GainUpper (description="band 1a gain coefficients for upper sideband", quantity="none")	
<i>DoubleId</i>	1a_GainLower (description="band 1a coupling coefficients for cold", quantity="none")	
<i>DoubleId</i>	1a_lof (description="band 1a_LOF", quantity="GHz [1.0E9 Hz]")	
<i>DoubleId</i>	1b_GainUpper (description="band 1b gain coefficients for upper sideband", quantity="none")	
<i>DoubleId</i>	1b_GainLower (description="band 1b coupling coefficients for cold", quantity="none")	
<i>DoubleId</i>	1b_lof (description="band 1b_LOF", quantity="GHz [1.0E9 Hz]")	
<i>DoubleId</i>	2a_GainUpper (description="band 2a gain coefficients for upper sideband", quantity="none")	
<i>DoubleId</i>	2a_GainLower (description="band 2a coupling coefficients for cold", quantity="none")	
<i>DoubleId</i>	2a_lof (description="band 2a_LOF", quantity="GHz [1.0E9 Hz]")	
<i>DoubleId</i>	2b_GainUpper (description="band 2b gain coefficients for upper sideband", quantity="none")	
<i>DoubleId</i>	2b_GainLower (description="band 2b coupling coefficients for cold", quantity="none")	
<i>DoubleId</i>	2b_lof (description="band 2b_LOF", quantity="GHz [1.0E9 Hz]")	
<i>DoubleId</i>	3a_GainUpper (description="band 3a gain coefficients for upper sideband", quantity="none")	

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

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

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

8.1.4. CalHrsPowCorr

<i>product</i> (type="CalHrsPowCorr", description="Values for Power gain non-linearity correction")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
StringParameter	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")
<i>table dataset</i>	(description="vSigma Vector of the CalHrsPowCorr Product")

<i>Metadata</i>		
<i>DoubleId</i>	vSigma (description="vSigma Vector", quantity="none")	
<i>table dataset</i>	(description="gain Vector of the CalHrsPowCorr Product")	
<i>Metadata</i>		
<i>DoubleId</i>	gain (description="gain Vector", quantity="none")	

8.1.5. CalHrsQDCFast

product (type="CalHrsQDCFast", description="Value for Fast Quantization Distortion Correction")

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

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

8.1.7. CalWbsBadPixel

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

StringParameter	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	
IntId	Mask (description="Bad pixels", quantity="none")
compos-ite	(description="History of product")
Metadata	
table dataset	(description="History as Jython script")
Metadata	
StringParameter	outvar (description="last output variable")
StringId	Lines (description="script lines", quantity="none")
table dataset	(description="History of tasks")
Metadata	
LongId	ID (description="Links the parameter and task table", quantity="none")
StringId	Name (description="The name of the task", quantity="none")
LongId	ExecDate (description="Time of execution (FINETIME)", quantity="none")
StringId	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	(description="The parameters belonging to the task history")
Metadata	
LongId	TaskID (description="Links the parameter and task table", quantity="none")
StringId	Name (description="The name of the parameter", quantity="none")
StringId	Type (description="Type of parameter", quantity="none")
StringId	Value (description="String representation of the parameter value", quantity="none")
BoolId	IsDefault (description="True if the default value has been used", quantity="none")
LongId	IncTaskId (description="ID of the history of an included product", quantity="none")
BoolId	UserInput (description="Needs user input", quantity="none")
StringId	Class (description="Class of the parameter", quantity="none")

<i>StringId</i>	ProductType (description="Product Type for History", quantity="none")
<i>StringId</i>	ProductId (description="Human Readable Product Identifier for History", quantity="none")

8.1.8. CalWbsFreqCoeff

<i>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")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="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")
<i>table dataset (description="Coefficients CalWbsFreq Product")</i>	
<i>Metadata</i>	
<i>Double2d</i>	ccd_1 (description="Default ccd_1", quantity="none")
<i>Double2d</i>	ccd_2 (description="Default ccd_2", quantity="none")
<i>Double2d</i>	ccd_3 (description="Default ccd_3", quantity="none")
<i>Double2d</i>	ccd_4 (description="Default ccd_4", quantity="none")
<i>LongId</i>	obs time (description="Default obs time", quantity="none")

8.1.9. CalWbsFreqTuning

<i>product (type="Calibration", description="The parameter used for the fitting of COMB spectra")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")

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 tolerance (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 corrspondent 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

<i>product (type="Calibration", description="The coefficients for the linear correction.")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start 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")
<i>table dataset</i>	<i>(description=" Linear Coefficients")</i>
<i>Metadata</i>	
<i>DoubleId</i>	band_1 (description="band 1 linear coefficients", quantity="none")
<i>DoubleId</i>	band_2 (description="band 2 linear coefficients", quantity="none")
<i>DoubleId</i>	band_3 (description="band 3 linear coefficients", quantity="none")
<i>DoubleId</i>	band_4 (description="band 4 linear coefficients", quantity="none")
<i>DoubleId</i>	band_5 (description="band 5 linear coefficients", quantity="none")
<i>DoubleId</i>	band_6 (description="band 6 linear coefficients", quantity="none")
<i>DoubleId</i>	band_7 (description="band 7 linear coefficients", quantity="none")
<i>DoubleId</i>	band_8 (description="band 8 linear coefficients", quantity="none")
<i>table dataset</i>	<i>(description="Linear Coefficients")</i>
<i>Metadata</i>	
<i>DoubleId</i>	band_1 (description="band 1 linear coefficients", quantity="none")
<i>DoubleId</i>	band_2 (description="band 2 linear coefficients", quantity="none")
<i>DoubleId</i>	band_3 (description="band 3 linear coefficients", quantity="none")
<i>DoubleId</i>	band_4 (description="band 4 linear coefficients", quantity="none")
<i>DoubleId</i>	band_5 (description="band 5 linear coefficients", quantity="none")
<i>DoubleId</i>	band_6 (description="band 6 linear coefficients", quantity="none")
<i>DoubleId</i>	band_7 (description="band 7 linear coefficients", quantity="none")
<i>DoubleId</i>	band_8 (description="band 8 linear coefficients", quantity="none")

8.2. HifiTimelineProduct derived Calibration Products

8.2.1. CalFluxHotCold

<i>product (type="Calibration", description="Hot-Cold calibration.")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
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")
<i>table dataset</i>	(description="summary")
<i>Metadata</i>	
<i>IntId</i>	dataset (description="null", quantity="none")
<i>DoubleId</i>	LoFrequency (description="null", quantity="none")
<i>StringId</i>	type (description="null", quantity="none")
<i>IntId</i>	start (description="null", quantity="none")
<i>IntId</i>	length (description="null", quantity="none")
<i>compos-ite</i>	(description="History of product")
<i>Metadata</i>	
<i>table dataset</i>	(description="History as Jython script")
<i>Metadata</i>	
StringParameter	outvar (description="last output variable")
<i>StringId</i>	Lines (description="script lines", quantity="none")
<i>table dataset</i>	(description="History of tasks")
<i>Metadata</i>	
<i>LongId</i>	ID (description="Links the parameter and task table", quantity="none")
<i>StringId</i>	Name (description="The name of the task", quantity="none")
<i>LongId</i>	ExecDate (description="Time of execution (FINETIME)", quantity="none")
<i>StringId</i>	BuildVersion (description="The used HCSS build", quantity="none")
<i>table dataset</i>	(description="The parameters belonging to the task history")

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

8.2.2. CalWbsBadPixel

<i>product (type="Calibration", description="The Bad pixel mask")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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	
IntId	Mask (description="Bad pixels", quantity="none")
compos-ite	(description="History of product")
Metadata	
table dataset	(description="History as Jython script")
Metadata	
StringParameter	outvar (description="last output variable")
StringId	Lines (description="script lines", quantity="none")
table dataset	(description="History of tasks")
Metadata	
LongId	ID (description="Links the parameter and task table", quantity="none")
StringId	Name (description="The name of the task", quantity="none")
LongId	ExecDate (description="Time of execution (FINETIME)", quantity="none")
StringId	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	(description="The parameters belonging to the task history")
Metadata	
LongId	TaskID (description="Links the parameter and task table", quantity="none")
StringId	Name (description="The name of the parameter", quantity="none")
StringId	Type (description="Type of parameter", quantity="none")
StringId	Value (description="String representation of the parameter value", quantity="none")
BoolId	IsDefault (description="True if the default value has been used", quantity="none")
LongId	IncTaskId (description="ID of the history of an included product", quantity="none")
BoolId	UserInput (description="Needs user input", quantity="none")
StringId	Class (description="Class of the parameter", quantity="none")
StringId	ProductType (description="Product Type for History", quantity="none")
StringId	ProductId (description="Human Readable Product Identifier for History", quantity="none")

8.2.3. CalWbsFreq

<i>product (type="Unknown", description="context for frequency calibration, comb spectra and relative checks")</i>	
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")
<i>compos- ite</i>	(description="History of product")
<i>Metadata</i>	
<i>table dataset</i>	(description="History as Jython script")
<i>Metadata</i>	
StringParameter	outvar (description="last output variable")
<i>StringId</i>	Lines (description="script lines", quantity="none")
<i>table dataset</i>	(description="History of tasks")
<i>Metadata</i>	
<i>LongId</i>	ID (description="Links the parameter and task table", quantity="none")
<i>StringId</i>	Name (description="The name of the task", quantity="none")
<i>LongId</i>	ExecDate (description="Time of execution (FINETIME)", quantity="none")
<i>StringId</i>	BuildVersion (description="The used HCSS build", quantity="none")
<i>table dataset</i>	(description="The parameters belonging to the task history")
<i>Metadata</i>	
<i>LongId</i>	TaskID (description="Links the parameter and task table", quantity="none")
<i>StringId</i>	Name (description="The name of the parameter", quantity="none")
<i>StringId</i>	Type (description="Type of parameter", quantity="none")
<i>StringId</i>	Value (description="String representation of the parameter value", quantity="none")
<i>BoolId</i>	IsDefault (description="True if the default value has been used", quantity="none")
<i>LongId</i>	IncTaskId (description="ID of the history of an included product", quantity="none")
<i>BoolId</i>	UserInput (description="Needs user input", quantity="none")
<i>StringId</i>	Class (description="Class of the parameter", quantity="none")
<i>StringId</i>	ProductType (description="Product Type for History", quantity="none")

	<i>StringId</i>	ProductId (description="Human Readable Product Identifier for History", quantity="none")

8.2.4. CalWbsZero

<i>map context</i> (type="Unknown", description="Zero context for zeros spectra and relative checks")	
<i>Metada-ta</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
<i>map con-text</i>	(type="Unknown", description="Time ordered HIFI product")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>product</i>	(type="herchel.ia.dataset.Product(HifiSpectrumDataset)", description="WBS Spectrum Dataset")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")

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StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")

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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")
<i>table dataset</i> (description="WBS Spectrum Dataset")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="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)")

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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 system")
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")
<i>Double2d</i>	flux (description="flux", quantity="none")
<i>Bool1d</i>	frmon_valid (description="Valid flag for Freq Monitor", quantity="none")
<i>Int1d</i>	nrbytes (description="Number of Bytes", quantity="none")
<i>Double1d</i>	cmd_chopper (description="Commanded chopper positions", quantity="none")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Int1d</i>	integrations (description="Number of Integrations", quantity="none")
<i>Long1d</i>	packet time (description="Packetization Time", quantity="none")
<i>Int1d</i>	buffer (description="Integration Buffer", quantity="none")
<i>Int2d</i>	Band_ATT (description="null", quantity="none")
<i>Int1d</i>	scancount (description="Integrated Scan Count", quantity="none")
<i>Double3d</i>	dark (description="Dark Current Data", quantity="none")
<i>Double1d</i>	integration time (description="null", quantity="s")
<i>Int1d</i>	df_transfer (description="DataFrame Transfer Counter", quantity="none")
<i>Long1d</i>	obs time (description="Observation Time", quantity="none")
<i>Int1d</i>	hk_transfer (description="hk_transfer", quantity="none")

<i>Double1d</i>	frequency_monitor (description="LSU Frequency Monitor", quantity="none")
<i>Int1d</i>	IN_ATT (description="null", quantity="none")
<i>Int1d</i>	rowflag (description="Dataframe Flag", quantity="none")
<i>Int1d</i>	bitshift (description="Bit Shift", quantity="none")
<i>Int1d</i>	bbtype (description="Building Block Type", quantity="none")
<i>Double1d</i>	Chopper (description="Actual chopper positions", quantity="none")
<i>Int1d</i>	sequence number (description="Integration Sequence Number", quantity="none")
<i>Double1d</i>	MJC_Ver (description="Calibrated mixer junction current, vertical ban", quantity="A")
<i>Double2d</i>	hot_cold (description="Hot and cold temperatures of the Blackbody Cali", quantity="K")
<i>Double1d</i>	LoFrequency (description="Local Oscillator Frequency", quantity="GHz [1.0E9 Hz]")
<i>Double1d</i>	MJC_Hor (description="Calibrated mixer junction current, horizontal b", quantity="A")
<i>Int2d</i>	flag (description="flag", quantity="none")
<i>Int1d</i>	bbnumber (description="Building Block Number", quantity="none")
<i>product</i>	(<i>type="Unknown", description="Time ordered HIFI product"</i>)
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>table dataset</i>	(<i>description="null"</i>)
<i>Metadata</i>	
<i>String1d</i>	type (description="List of types for each block", quantity="none")
<i>Int1d</i>	start (description="Start index for each block", quantity="none")
<i>Int1d</i>	length (description="Length of each block", quantity="none")

8.2.5. FreqRanges

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

<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
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")
<i>table dataset</i>	(description="null")
<i>Metadata</i>	
LongParameter	startObsTime (description="null")
LongParameter	endObsTime (description="null")
LongParameter	datasets_1 (description="null")
LongParameter	datasets_2 (description="null")
LongParameter	datasets_3 (description="null")

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

8.3. HIFI Quality Products

8.3.1. CommandFailureProduct

<i>product (type="CommandFailureProduct", description="Level 0 Quality Product: Command Failures")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>table dataset (description="Level 0 Quality Product: Command Failures")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	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")
<i>StringId</i>	Error Type (description="null", quantity="none")
<i>StringId</i>	Time (description="null", quantity="none")

<i>StringId</i>	Error Code (description="null", quantity="none")
<i>LongId</i>	OBS_ID (description="null", quantity="none")
<i>LongId</i>	BB_ID (description="null", quantity="none")
<i>LongId</i>	BBType (description="null", quantity="none")
<i>LongId</i>	BBCount (description="null", quantity="none")

8.3.2. DataframeCountQualityProduct

<i>product</i> (type="DataframeCountQualityProduct", description="Level 0 Quality Product: Dataframe count")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>table dataset</i>	(description="Level 0 Quality Product: Dataframe count")
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	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")
LongId	BBType (description="null", quantity="none")
LongId	Uplink-HRS-H (description="null", quantity="none")
LongId	Downlink-HRS-H (description="null", quantity="none")

8.3.3. QHtpLevel0

<i>product</i> (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")
<i>table dataset</i> (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")
IntId	dataset (description="dataset id, corresponding the the dataset in th", quantity="none")
StringId	type (description="category of the Bbid", quantity="none")
IntId	Bbid (description="Building Block", quantity="none")
IntId	start (description="Start index for each block", quantity="none")
IntId	length (description="Length of each block", quantity="none")
IntId	unalignedHKdata (description="UNALIGNED_HK", quantity="none")
IntId	noChopperHKdata (description="NOCHOPPER", quantity="none")
IntId	noCommandedChopperHKdata (description="NOCOMCHOP", quantity="none")
IntId	noFrequencyMonitorHKdata (description="NOFREQMON", quantity="none")
IntId	noLoCodeOffsetHKdata (description="NOLCOFFS", quantity="none")
IntId	noLoCodeMainHKdata (description="NOLCMAIN", quantity="none")
IntId	bbidCorrection (description="BBID_CORRECTION", quantity="none")

8.3.4. RuntimeErrorProduct

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

<i>table dataset</i>	<i>(description="Level 0 Quality Product: Runtime errors")</i>		
<i>Metadata</i>			
StringParameter	type	(description="Product Type Identification")	
StringParameter	creator	(description="Generator of this product")	
DateParameter	creationDate	(description="Creation date of this product")	
StringParameter	description	(description="Name of this product")	
StringParameter	instrument	(description="Instrument attached to this product")	
StringParameter	modelName	(description="Model name attached to this product")	
DateParameter	startDate	(description="Start date of this product")	
DateParameter	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

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

<i>product</i>	<i>(type="Quality", description="The Ccd-COMB quality product. It contains the gaussian parameter fit of the comb lines")</i>		
<i>Metadata</i>			
StringParameter	type	(description="Product Type Identification")	
StringParameter	creator	(description="Generator of this product")	
DateParameter	creationDate	(description="Creation date of this product")	
StringParameter	description	(description="Name of this product")	

StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
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)")
<i>table dataset</i> (description="gaussian lines")	
<i>Metadata</i>	
<i>Double2d</i>	line standard deviation (description="line standard deviation", quantity="none")
<i>Double1d</i>	line amplitude (description="line amplitude", quantity="none")
<i>Double1d</i>	line resolution (description="line resolution", quantity="none")
<i>Double1d</i>	line position (description="line position", quantity="none")
<i>Double1d</i>	line power (description="line power", quantity="none")
<i>Double1d</i>	line frequency (description="line frequency", quantity="MHz [1000000.0 Hz]")

8.3.7. QWbsFreq

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

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

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8.3.8. QWbsSpikes

<i>product (type="Quality", description="Contains the channels where a spike has been detected in the COMB")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
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")
<i>table dataset</i>	<i>(description="spike detected")</i>
<i>Metadata</i>	
	<i>IntId</i> spike mask (description="spike mask", quantity="none")

8.3.9. QWbsZero

<i>product (type="QWbsZero", description="The Zero check")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
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	
DoubleId	maximum (description="maximum", quantity="none")
DoubleId	minimum (description="minimum", quantity="none")
DoubleId	average (description="average", quantity="none")
DoubleId	variance (description="variance", quantity="none")
BoolId	flag (description="flag", quantity="none")
LongId	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")
StringId	Lines (description="script lines", quantity="none")
table dataset	(description="History of tasks")
Metadata	
LongId	ID (description="Links the parameter and task table", quantity="none")
StringId	Name (description="The name of the task", quantity="none")
LongId	ExecDate (description="Time of execution (FINETIME)", quantity="none")
StringId	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	(description="The parameters belonging to the task history")
Metadata	
LongId	TaskID (description="Links the parameter and task table", quantity="none")
StringId	Name (description="The name of the parameter", quantity="none")
StringId	Type (description="Type of parameter", quantity="none")
StringId	Value (description="String representation of the parameter value", quantity="none")

<i>BoolId</i>	IsDefault (description="True if the default value has been used", quantity="none")
<i>LongId</i>	IncTaskId (description="ID of the history of an included product", quantity="none")
<i>BoolId</i>	UserInput (description="Needs user input", quantity="none")
<i>StringId</i>	Class (description="Class of the parameter", quantity="none")
<i>StringId</i>	ProductType (description="Product Type for History", quantity="none")
<i>StringId</i>	ProductId (description="Human Readable Product Identifier for History", quantity="none")

8.3.10. CalPhases

<i>product</i> (type="Calibration", description="Phase Information for Buffer, Chopper and LOFrequency")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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 bctype 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")
compos- ite	(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")

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

8.4. HIFI Trend Analysis Products

8.4.1. FpuTrendProduct

<i>product (type="FpuTrendProduct", description="Fpu Trend Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>Metadata</i>	
<i>LongId</i>	Time (description="Time [microseconds]", quantity="microseconds [1.0E-6 s]")
<i>DoubleId</i>	HF_AH2_G_SIF3_V (description="HF_AH2_G_SIF3_V [eng, V]", quantity="none")
<i>DoubleId</i>	HF_APR_S2K_CT (description="HF_APR_S2K_CT [eng, K]", quantity="none")
<i>DoubleId</i>	HF_DPR_CH_ROT2 (description="HF_DPR_CH_ROT2 [eng, V]", quantity="none")
<i>DoubleId</i>	HF_AH1_MXBIAS_C (description="HF_AH1_MXBIAS_C [eng, mA]", quantity="none")
<i>DoubleId</i>	HF_AP_SCHS_CT (description="HF_AP_SCHS_CT [eng, K]", quantity="none")
<i>DoubleId</i>	HF_AV2_G_SIF1_V (description="HF_AV2_G_SIF1_V [eng, V]", quantity="none")
<i>DoubleId</i>	HF_AV2_G_SIF2_V (description="HF_AV2_G_SIF2_V [eng, V]", quantity="none")
<i>DoubleId</i>	HF_AV1_MXBIAS_C (description="HF_AV1_MXBIAS_C [eng, mA]", quantity="none")
<i>DoubleId</i>	HF_AV2_G_SIF3_V (description="HF_AV2_G_SIF3_V [eng, V]", quantity="none")
<i>DoubleId</i>	HF_AH1_MXMG_C (description="HF_AH1_MXMG_C [eng, mA]", quantity="none")
<i>DoubleId</i>	HF_AH2_G_SIF2_V (description="HF_AH2_G_SIF2_V [eng, V]", quantity="none")
<i>DoubleId</i>	HF_AH2_G_FIF2_V (description="HF_AH2_G_FIF2_V [eng, V]", quantity="none")
<i>DoubleId</i>	HF_AH1_DPACT_C (description="HF_AH1_DPACT_C [eng, mA]", quantity="none")
<i>DoubleId</i>	HF_AV1_MXBIAS_V (description="HF_AV1_MXBIAS_V [eng, mV]", quantity="none")
<i>DoubleId</i>	HF_AV2_G_FIF2_V (description="HF_AV2_G_FIF2_V [eng, V]", quantity="none")

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

8.4.2. LoTrendProduct

<i>product (type="LoTrendProduct", description="LO Trend Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>table dataset</i>	(description="null")
<i>Metadata</i>	
StringParameter	band (description="Active Hifi band")
<i>Long1d</i>	Time (description="Time [microseconds]", quantity="microseconds [1.0E-6 s]")
<i>Int2d</i>	LOF_code (description="Encoded info on Local Oscillator Frequency, offset and main", quantity="none")
<i>Double1d</i>	LoFrequency (description="Local Oscillator Frequency", quantity="GHz [1.0E9 Hz]")
<i>Double1d</i>	HL_Sensor5A_T (description="HL_Sensor5A_T [eng, K]", quantity="none")
<i>Double1d</i>	HL_Gate1_5A_V (description="HL_Gate1_5A_V [eng, V]", quantity="none")
<i>Double1d</i>	HL_Gate1_C (description="HL_Gate1_C [eng, mA]", quantity="none")
<i>Double1d</i>	HL_Gate2_5A_V (description="HL_Gate2_5A_V [eng, V]", quantity="none")
<i>Double1d</i>	HL_Gate2_C (description="HL_Gate2_C [eng, mA]", quantity="none")
<i>Double1d</i>	HL_Drain1_5A_V (description="HL_Drain1_5A_V [eng, V]", quantity="none")
<i>Double1d</i>	HL_Drain1_C (description="HL_Drain1_C [eng, A]", quantity="none")
<i>Double1d</i>	HL_Drain2_5A_V (description="HL_Drain2_5A_V [eng, V]", quantity="none")
<i>Double1d</i>	HL_Drain2_C (description="HL_Drain2_C [eng, A]", quantity="none")
<i>Double1d</i>	HL_M1_5A_V (description="HL_M1_5A_V [eng, V]", quantity="none")
<i>Double1d</i>	HL_M1_5A_C (description="HL_M1_5A_C [eng, mA]", quantity="none")
<i>Double1d</i>	HL_M2_5A_V (description="HL_M2_5A_V [eng, V]", quantity="none")
<i>Double1d</i>	HL_M2_5A_C (description="HL_M2_5A_C [eng, mA]", quantity="none")
<i>Double1d</i>	HL_M3_5A_C (description="HL_M3_5A_C [raw]", quantity="none")

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8.4.3. CalSpur

<i>product</i> (<i>type="Unknown", description="Unknown"</i>)	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
<i>table dataset</i>	(<i>description="Spur Parameters"</i>)
<i>Metadata</i>	
<i>LongId</i>	obsid (description="obsid", quantity="none")
<i>LongId</i>	hcid (description="hcid", quantity="none")
<i>LongId</i>	apid (description="apid", quantity="none")
<i>StringId</i>	Band (description="Band", quantity="none")
<i>DoubleId</i>	LO (description="LO Frequency", quantity="MHz [1000000.0 Hz]")
<i>LongId</i>	subband (description="Subband", quantity="none")
<i>DoubleId</i>	Pixel (description="Pixel index", quantity="none")
<i>DoubleId</i>	IF (description="IF Frequency", quantity="MHz [1000000.0 Hz]")
<i>DoubleId</i>	amp (description="Amplitude", quantity="none")
<i>DoubleId</i>	width (description="width", quantity="MHz [1000000.0 Hz]")
<i>StringId</i>	Type (description="Type of spur", quantity="none")
<i>compos-ite</i>	(<i>description="History of product"</i>)
<i>Metadata</i>	
<i>table dataset</i>	(<i>description="History as Jython script"</i>)
<i>Metadata</i>	
StringParameter	outvar (description="last output variable")
<i>StringId</i>	Lines (description="script lines", quantity="none")
<i>table dataset</i>	(<i>description="History of tasks"</i>)
<i>Metadata</i>	
<i>LongId</i>	ID (description="Links the parameter and task table", quantity="none")

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

Chapter 9. PACS Observation Products

9.1. PACS Photometry Level-0 Products

9.1.1. HPPAVGBS: Frames

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

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

<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Bool2d</i>	(description="null", quantity="none")
<i>compos-ite</i>	(description="Mask data stored in bit encoded arrays")
<i>Metadata</i>	
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
StringParameter	camName (description="Name of the Camera")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
<i>array dataset</i>	(description="Mask that flags the blind pixels")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="Mask that flags the blind pixels", quantity="none")

9.1.2. HPPAVGRS: Frames

<i>product (type="HPPAVGRS", description="Frames")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (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")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="none")
<i>table dataset</i>	(description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status parameter", quantity="none")
<i>Long1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Long1d</i>	BBID (description="Building block type", quantity="none")
<i>Int1d</i>	LBL (description="Label", quantity="none")
<i>Int1d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
<i>Int1d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
<i>Long1d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Int1d</i>	VLD (description="Validity flag set by DecMec", quantity="none")

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

	<i>Int1d</i>	OffSource1 (description="First Off-Source Label", quantity="none")
	<i>Int1d</i>	OffSource2 (description="Second Off-Source Label", quantity="none")
	<i>Int1d</i>	NoddingPosition (description="Nodding position (0 = None, 1 = A, 2 = B)", quantity="none")
	<i>Int1d</i>	NodCycleNum (description="Nodding cycle number", quantity="none")
	<i>Int1d</i>	RasterColumnNum (description="Raster column number", quantity="none")
	<i>Int1d</i>	RasterLineNum (description="Raster line number", quantity="none")
	<i>Int1d</i>	NrAvg (description="Average number", quantity="none")
<i>array dataset</i>		(description="null")
<i>Metadata</i>		
	<i>Bool2d</i>	(description="null", quantity="none")
<i>compos-ite</i>		(description="Mask data stored in bit encoded arrays")
<i>Metadata</i>		
<i>LongParameter</i>		number of rows (description="null")
<i>LongParameter</i>		number of columns (description="null")
<i>LongParameter</i>		number of resets (description="null")
<i>LongParameter</i>		number of samples (description="null")
<i>StringParameter</i>		camName (description="Name of the Camera")
<i>LongParameter</i>		detRow (description="Number of detector rows")
<i>LongParameter</i>		detCol (description="Number of detector columns")
<i>array dataset</i>		(description="Mask that flags the blind pixels")
<i>Metadata</i>		
<i>LongParameter</i>		Mask dimension (description="null")
<i>LongParameter</i>		number of rows (description="null")
<i>LongParameter</i>		number of columns (description="null")
<i>LongParameter</i>		number of resets (description="null")
<i>LongParameter</i>		number of samples (description="null")
	<i>Int3d</i>	(description="Mask that flags the blind pixels", quantity="none")

9.1.3. HPPDMCBS

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

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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")
<i>table dataset</i>	(description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")

LongParameter	DIM2 (description="Number of measures per status parameter")
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

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

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

9.1.5. HPPHK: Photometer Housekeeping

<i>product (type="HPPHK", description="HPPHKS")</i>	
<i>Metadata</i>	
StringParameter	type (description="null")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="PACS Level 0 Product")
StringParameter	modelName (description="Model")
DateParameter	startDate (description="Start Date")
DateParameter	endDate (description="End Date")
StringParameter	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 \$")
<i>Metadata</i>	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
LongId	Time (description="Time [microseconds]", quantity="microseconds [1.0E-6 s]")
LongId	DM_DSIM_ERROR (description="DM_DSIM_ERROR [raw]", quantity="none")
StringId	DM_CS1C_SYNCHRO (description="DM_CS1C_SYNCHRO", quantity="none")
DoubleId	BOL_I_VSS_B_3 (description="BOL_I_VSS_B_3 [eng, A]", quantity="none")
DoubleId	BOL_I_VSS_B_2 (description="BOL_I_VSS_B_2 [eng, A]", quantity="none")
LongId	DP_1_8_REJECTED (description="DP_1_8_REJECTED [raw]", quantity="none")
DoubleId	BOL_I_VSS_B_1 (description="BOL_I_VSS_B_1 [eng, A]", quantity="none")
LongId	SPL_PIX (description="SPL_PIX [raw]", quantity="none")
LongId	SPS_LLC_ERROR (description="SPS_LLC_ERROR [raw]", quantity="none")
StringId	DP_DMC_CMD (description="DP_DMC_CMD", quantity="none")
DoubleId	BOL_I_VSS_B_4 (description="BOL_I_VSS_B_4 [eng, A]", quantity="none")
StringId	DM_FPU_CH_TS_ST (description="DM_FPU_CH_TS_ST", quantity="none")
DoubleId	BOL_VSMESH_R_1 (description="BOL_VSMESH_R_1 [eng, V]", quantity="none")
DoubleId	BOL_VSMESH_R_2 (description="BOL_VSMESH_R_2 [eng, V]", quantity="none")
StringId	DM_FWSC_TASK_WR (description="DM_FWSC_TASK_WR", quantity="none")
LongId	DM_PM_SF_IND (description="DM_PM_SF_IND [raw]", quantity="none")
StringId	DM_HKCO_TASK_AL (description="DM_HKCO_TASK_AL", quantity="none")
DoubleId	BOL_I_HEATER_1R (description="BOL_I_HEATER_1R [eng, A]", quantity="none")
DoubleId	BOL_TEMP_PSU_1 (description="BOL_TEMP_PSU_1 [eng, degC]", quantity="none")
LongId	DM_DSIM_SPARE7 (description="DM_DSIM_SPARE7 [raw]", quantity="none")
DoubleId	BOL_TEMP_PSU_2 (description="BOL_TEMP_PSU_2 [eng, degC]", quantity="none")

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

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<i>DoubleId</i>	BOL_VDL_BU_R_2 (description="BOL_VDL_BU_R_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_CS2_CTRL_STA (description="DM_CS2_CTRL_STA [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF16 (description="DM_LAST_ER_BF16 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF10 (description="DM_LAST_ER_BF10 [raw]", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_5V (description="DM_REF_VOLT_5V [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF11 (description="DM_LAST_ER_BF11 [raw]", quantity="none")
<i>LongId</i>	SPS_PIX (description="SPS_PIX [raw]", quantity="none")
<i>StringId</i>	DM_GC_HOM_PROG (description="DM_GC_HOM_PROG", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF14 (description="DM_LAST_ER_BF14 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF15 (description="DM_LAST_ER_BF15 [raw]", quantity="none")
<i>StringId</i>	DM_CS1C_ERR_NS (description="DM_CS1C_ERR_NS", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF12 (description="DM_LAST_ER_BF12 [raw]", quantity="none")
<i>DoubleId</i>	DM_CS2_TARGET (description="DM_CS2_TARGET [eng, Ohm]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF13 (description="DM_LAST_ER_BF13 [raw]", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_WR (description="DM_DPUR_TASK_WR", quantity="none")
<i>LongId</i>	DM_CHOP_PID_ERR (description="DM_CHOP_PID_ERR [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPS_PACK (description="DP_COM_SPS_PACK [raw]", quantity="none")
<i>DoubleId</i>	DP_VOL_5P (description="DP_VOL_5P [eng, V]", quantity="none")
<i>StringId</i>	DM_CS2C_TASK_WR (description="DM_CS2C_TASK_WR", quantity="none")
<i>LongId</i>	DM_PLL_RES_LO (description="DM_PLL_RES_LO [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_LINK (description="DM_DPUS_LINK", quantity="none")
<i>DoubleId</i>	DP_VOL_25P (description="DP_VOL_25P [eng, V]", quantity="none")
<i>LongId</i>	DP_COM_DMC_NACK (description="DP_COM_DMC_NACK [raw]", quantity="none")
<i>StringId</i>	DM_GC_SYNCHRO (description="DM_GC_SYNCHRO", quantity="none")
<i>StringId</i>	DM_FWPC_POSC_B (description="DM_FWPC_POSC_B", quantity="none")

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

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<i>StringId</i>	DM_CS1C_DOWN (description="DM_CS1C_DOWN", quantity="none")
<i>StringId</i>	DM_FWSC_MOVING (description="DM_FWSC_MOVING", quantity="none")
<i>LongId</i>	DM_SEQ_LABEL (description="DM_SEQ_LABEL [raw]", quantity="none")
<i>StringId</i>	DP_UNIT (description="DP_UNIT", quantity="none")
<i>LongId</i>	SPS_PAR_MONITOR (description="SPS_PAR_MONITOR [raw]", quantity="none")
<i>StringId</i>	DM_DBR_TASK_AL (description="DM_DBR_TASK_AL", quantity="none")
<i>LongId</i>	DM_SEQ_ERROR (description="DM_SEQ_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DET_SIM_PER (description="DM_DET_SIM_PER [raw]", quantity="none")
<i>DoubleId</i>	BOL_VSS_BU_R_2 (description="BOL_VSS_BU_R_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_CAL_SRC_TEMP (description="DM_CAL_SRC_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_DSIM_R_SIMUL (description="DM_DSIM_R_SIMUL", quantity="none")
<i>StringId</i>	DM_DBC_ERR_NS (description="DM_DBC_ERR_NS", quantity="none")
<i>DoubleId</i>	BOL_VSS_BU_R_1 (description="BOL_VSS_BU_R_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_DRC_POWER (description="DM_DRC_POWER", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_WR (description="DM_SEQ_TASK_WR", quantity="none")
<i>StringId</i>	DM_FWSP_CUR_POS (description="DM_FWSP_CUR_POS", quantity="none")
<i>LongId</i>	DM_CC_ERROR (description="DM_CC_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_DPUR_ERR_NS (description="DM_DPUR_ERR_NS", quantity="none")
<i>LongId</i>	DM_HKD_ERROR (description="DM_HKD_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_SPUS_CMD (description="DP_SPUS_CMD", quantity="none")
<i>LongId</i>	DM_CC_SPARE1C (description="DM_CC_SPARE1C [raw]", quantity="none")
<i>DoubleId</i>	BOL_CKTRIL_R_B1 (description="BOL_CKTRIL_R_B1 [eng, V]", quantity="none")
<i>StringId</i>	DP_1553_HANDLER (description="DP_1553_HANDLER", quantity="none")
<i>DoubleId</i>	DM_SPU_VCC_VOL (description="DM_SPU_VCC_VOL [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_CKTRIL_R_B2 (description="BOL_CKTRIL_R_B2 [eng, V]", quantity="none")

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

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

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<i>LongId</i>	DM_CHOP_SETPOIN (description="DM_CHOP_SETPOIN [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDL_B_4 (description="BOL_VDL_B_4 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDL_B_3 (description="BOL_VDL_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDL_B_2 (description="BOL_VDL_B_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_GC_TASK_WR (description="DM_GC_TASK_WR", quantity="none")
<i>DoubleId</i>	BOL_VGG_R_1 (description="BOL_VGG_R_1 [eng, V]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP2 (description="DP_EV_BOL_I_SP2", quantity="none")
<i>DoubleId</i>	BOL_VGG_R_2 (description="BOL_VGG_R_2 [eng, V]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP1 (description="DP_EV_BOL_I_SP1", quantity="none")
<i>LongId</i>	DM_DPU_REC_PAC (description="DM_DPU_REC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_COUNTER_PHOT (description="DP_COUNTER_PHOT", quantity="none")
<i>LongId</i>	SPS_OBSID (description="SPS_OBSID [raw]", quantity="none")
<i>StringId</i>	SPL_SATUR_FLAG (description="SPL_SATUR_FLAG", quantity="none")
<i>DoubleId</i>	BOL_VSS_R_1 (description="BOL_VSS_R_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_SEQ_STATUS (description="DM_SEQ_STATUS [raw]", quantity="none")
<i>DoubleId</i>	BOL_VSS_R_2 (description="BOL_VSS_R_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_CS2_RES_VAL (description="DM_CS2_RES_VAL [eng, Ohm]", quantity="none")
<i>StringId</i>	DM_DRC_LINK (description="DM_DRC_LINK", quantity="none")
<i>DoubleId</i>	BOL_VSMSL_R_1 (description="BOL_VSMSL_R_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VSMSL_R_2 (description="BOL_VSMSL_R_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_FPU_S1_TS_ST (description="DM_FPU_S1_TS_ST", quantity="none")
<i>StringId</i>	DM_BC_TASK_AL (description="DM_BC_TASK_AL", quantity="none")
<i>LongId</i>	DP_COM_SPS_NACK (description="DP_COM_SPS_NACK [raw]", quantity="none")
<i>StringId</i>	DM_BC_ERR_NS (description="DM_BC_ERR_NS", quantity="none")
<i>StringId</i>	DM_DBC_POWER (description="DM_DBC_POWER", quantity="none")

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<i>LongId</i>	DM_RED_PAC_ENC (description="DM_RED_PAC_ENC [raw]", quantity="none")
<i>LongId</i>	DM_DBC_SPARE3 (description="DM_DBC_SPARE3 [raw]", quantity="none")
<i>DoubleId</i>	DM_FPU_T2_TEMP (description="DM_FPU_T2_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_FWPC_POS_B (description="DM_FWPC_POS_B", quantity="none")
<i>StringId</i>	DM_FWPC_POS_A (description="DM_FWPC_POS_A", quantity="none")
<i>LongId</i>	DM_CS1C_ERROR (description="DM_CS1C_ERROR [raw]", quantity="none")
<i>StringId</i>	DP_EV_DEC_SPC (description="DP_EV_DEC_SPC", quantity="none")
<i>LongId</i>	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
<i>StringId</i>	DM_GC_HOM_COMP (description="DM_GC_HOM_COMP", quantity="none")
<i>StringId</i>	DP_EVENT_DEC (description="DP_EVENT_DEC", quantity="none")
<i>LongId</i>	DP_COM_DMC (description="DP_COM_DMC [raw]", quantity="none")
<i>LongId</i>	DM_FWSC_SPARE1A (description="DM_FWSC_SPARE1A [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_MOVING (description="DM_FWPC_MOVING", quantity="none")
<i>StringId</i>	DP_EV_BOL_T_WE (description="DP_EV_BOL_T_WE", quantity="none")
<i>StringId</i>	DM_CC_DOWN (description="DM_CC_DOWN", quantity="none")
<i>DoubleId</i>	DM_DCDC_TEMP (description="DM_DCDC_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_HKD_DIAGMODE (description="DM_HKD_DIAGMODE", quantity="none")
<i>StringId</i>	DM_CS2C_TASK_AL (description="DM_CS2C_TASK_AL", quantity="none")
<i>StringId</i>	DM_DRR_LINK (description="DM_DRR_LINK", quantity="none")
<i>StringId</i>	DP_AF_24_SPARE (description="DP_AF_24_SPARE", quantity="none")
<i>StringId</i>	DP_1553CHANNEL (description="DP_1553CHANNEL", quantity="none")
<i>DoubleId</i>	DM_FW_SPEC_TEMP (description="DM_FW_SPEC_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_FWPC_SPARE4 (description="DM_FWPC_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_DBR_SENDING (description="DM_DBR_SENDING", quantity="none")
<i>StringId</i>	DM_DRR_TASK_AL (description="DM_DRR_TASK_AL", quantity="none")

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<i>LongId</i>	DM_SEQ_SPARE1 (description="DM_SEQ_SPARE1 [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDL_R_1 (description="BOL_VDL_R_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VSS_BU_B_4 (description="BOL_VSS_BU_B_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_SEQ_SPARE2 (description="DM_SEQ_SPARE2 [raw]", quantity="none")
<i>DoubleId</i>	BOL_VSS_BU_B_2 (description="BOL_VSS_BU_B_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_GC_PID (description="DM_GC_PID", quantity="none")
<i>StringId</i>	DM_GC_POWER (description="DM_GC_POWER", quantity="none")
<i>LongId</i>	DM_DPUS_ERROR (description="DM_DPUS_ERROR [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDL_R_2 (description="BOL_VDL_R_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_CS1_RES_VAL (description="DM_CS1_RES_VAL [eng, Ohm]", quantity="none")
<i>DoubleId</i>	BOL_VSS_BU_B_3 (description="BOL_VSS_BU_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VSS_BU_B_1 (description="BOL_VSS_BU_B_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_BSPU_TR_MODE (description="DM_BSPU_TR_MODE", quantity="none")
<i>StringId</i>	DM_DRC_TASK_WR (description="DM_DRC_TASK_WR", quantity="none")
<i>LongId</i>	DP_COM_SPUS (description="DP_COM_SPUS [raw]", quantity="none")
<i>StringId</i>	DM_CC_ERR_NS (description="DM_CC_ERR_NS", quantity="none")
<i>DoubleId</i>	BOL_VSS_B_4 (description="BOL_VSS_B_4 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VSS_B_3 (description="BOL_VSS_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VSS_B_2 (description="BOL_VSS_B_2 [eng, V]", quantity="none")
<i>LongId</i>	DP_COM_SPUL (description="DP_COM_SPUL [raw]", quantity="none")
<i>DoubleId</i>	BOL_VSS_B_1 (description="BOL_VSS_B_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_DSIM_TIME (description="DM_DSIM_TIME", quantity="none")
<i>LongId</i>	DM_HKD_SPARE3 (description="DM_HKD_SPARE3 [raw]", quantity="none")
<i>LongId</i>	DP_AF_STATUS (description="DP_AF_STATUS [raw]", quantity="none")

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

<i>LongId</i>	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_0V (description="DM_REF_VOLT_0V [eng, V]", quantity="none")
<i>StringId</i>	DP_COUNTER_DEC (description="DP_COUNTER_DEC", quantity="none")
<i>DoubleId</i>	BOL_VSMESH_B_4 (description="BOL_VSMESH_B_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_B_SPEC_READ (description="DM_B_SPEC_READ [raw]", quantity="none")
<i>DoubleId</i>	BOL_VSMESH_B_3 (description="BOL_VSMESH_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU_ST (description="BOL_TEMP_FPU_ST [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_VSMESH_B_2 (description="BOL_VSMESH_B_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VSMESH_B_1 (description="BOL_VSMESH_B_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_MIM_ST (description="DM_MIM_ST [raw]", quantity="none")
<i>LongId</i>	DP_COM_REJ_DPU (description="DP_COM_REJ_DPU [raw]", quantity="none")
<i>LongId</i>	DM_FW_PHOT_CTRL (description="DM_FW_PHOT_CTRL [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDDPRO_CLR2 (description="BOL_VDDPRO_CLR2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDDPRO_CLR1 (description="BOL_VDDPRO_CLR1 [eng, V]", quantity="none")
<i>LongId</i>	HD_APID (description="HD_APID [raw]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B4 (description="BOL_I_HEATER_B4 [eng, A]", quantity="none")
<i>StringId</i>	DM_CS2C_DOWN (description="DM_CS2C_DOWN", quantity="none")
<i>StringId</i>	DM_CS1C_COMMUT (description="DM_CS1C_COMMUT", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_FPU (description="DP_EV_BOL_I_FPU", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B2 (description="BOL_I_HEATER_B2 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B3 (description="BOL_I_HEATER_B3 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B1 (description="BOL_I_HEATER_B1 [eng, A]", quantity="none")
<i>LongId</i>	DM_DECB_REC_STA (description="DM_DECB_REC_STA [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV (description="BOL_TEMP_EV [eng, K]", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_WR (description="DM_HKCO_TASK_WR", quantity="none")

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

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<i>LongId</i>	SID (description="SID [raw]", quantity="none")
<i>LongId</i>	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
<i>LongId</i>	DM_FWPC_SPARE1B (description="DM_FWPC_SPARE1B [raw]", quantity="none")
<i>LongId</i>	DM_FWPC_SPARE1A (description="DM_FWPC_SPARE1A [raw]", quantity="none")
<i>DoubleId</i>	SPL_CPUWORKLOAD (description="SPL_CPUWORKLOAD [eng, %]", quantity="none")
<i>LongId</i>	DP_GEN_TM_LOST (description="DP_GEN_TM_LOST [raw]", quantity="none")
<i>DoubleId</i>	BOL_CKRLB_B_1 (description="BOL_CKRLB_B_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ERR_ID (description="DM_LAST_ERR_ID [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDD_R_2 (description="BOL_VDD_R_2 [eng, V]", quantity="none")
<i>StringId</i>	DP_SPUS_LINK (description="DP_SPUS_LINK", quantity="none")
<i>StringId</i>	DM_SW_COPY_OBS (description="DM_SW_COPY_OBS", quantity="none")
<i>DoubleId</i>	BOL_VDD_R_1 (description="BOL_VDD_R_1 [eng, V]", quantity="none")
<i>StringId</i>	DP_HK_CHK (description="DP_HK_CHK", quantity="none")
<i>LongId</i>	DM_GC_LL_SC (description="DM_GC_LL_SC [raw]", quantity="none")
<i>StringId</i>	DM_DRC_ERR_NS (description="DM_DRC_ERR_NS", quantity="none")
<i>LongId</i>	DM_RPE_SPARE4 (description="DM_RPE_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_DRC_ERROR (description="DM_DRC_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DP_WORK_LOAD (description="DP_WORK_LOAD [eng, %]", quantity="none")
<i>LongId</i>	SPL_OBSID (description="SPL_OBSID [raw]", quantity="none")
<i>StringId</i>	DP_DEC_LINK (description="DP_DEC_LINK", quantity="none")
<i>LongId</i>	DP_COM_DMC_PACK (description="DP_COM_DMC_PACK [raw]", quantity="none")
<i>StringId</i>	DM_GC_LL_LOCKED (description="DM_GC_LL_LOCKED", quantity="none")
<i>DoubleId</i>	BOL_VH_BLIND_B2 (description="BOL_VH_BLIND_B2 [eng, V]", quantity="none")
<i>StringId</i>	DP_EEPROM_PROT (description="DP_EEPROM_PROT", quantity="none")
<i>DoubleId</i>	BOL_VH_BLIND_B1 (description="BOL_VH_BLIND_B1 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF3 (description="DM_LAST_ER_BF3 [raw]", quantity="none")

<i>StringId</i>	DM_DSIM_B_SIMUL (description="DM_DSIM_B_SIMUL", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF4 (description="DM_LAST_ER_BF4 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF5 (description="DM_LAST_ER_BF5 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF6 (description="DM_LAST_ER_BF6 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF7 (description="DM_LAST_ER_BF7 [raw]", quantity="none")
<i>DoubleId</i>	BOL_VH_BLIND_B4 (description="BOL_VH_BLIND_B4 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF8 (description="DM_LAST_ER_BF8 [raw]", quantity="none")
<i>DoubleId</i>	BOL_VH_BLIND_B3 (description="BOL_VH_BLIND_B3 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF9 (description="DM_LAST_ER_BF9 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_2 (description="BOL_PWR_DIG_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_1 (description="BOL_PWR_DIG_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_4 (description="BOL_PWR_DIG_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_AL (description="DM_SEQ_TASK_AL", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_3 (description="BOL_PWR_DIG_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_6 (description="BOL_PWR_DIG_6 [eng, V]", quantity="none")
<i>StringId</i>	DM_CS1C_TASK_WR (description="DM_CS1C_TASK_WR", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_5 (description="BOL_PWR_DIG_5 [eng, V]", quantity="none")
<i>LongId</i>	DM_FPU_T_SEN_ST (description="DM_FPU_T_SEN_ST [raw]", quantity="none")
<i>LongId</i>	DM_BOL_STATUS (description="DM_BOL_STATUS [raw]", quantity="none")
<i>StringId</i>	DM_BR_SIM_TIME (description="DM_BR_SIM_TIME", quantity="none")
<i>LongId</i>	SPS_SUBVERSION (description="SPS_SUBVERSION [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF2 (description="DM_LAST_ER_BF2 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_7 (description="BOL_PWR_DIG_7 [eng, V]", quantity="none")
<i>LongId</i>	DM_SEQ_WAIT_IND (description="DM_SEQ_WAIT_IND [raw]", quantity="none")

<i>LongId</i>	DM_LAST_ER_BF1 (description="DM_LAST_ER_BF1 [raw]", quantity="none")
<i>LongId</i>	DM_DET_SIM_STAT (description="DM_DET_SIM_STAT [raw]", quantity="none")
<i>StringId</i>	DM_FPU_FWP_TS_S (description="DM_FPU_FWP_TS_S", quantity="none")
<i>LongId</i>	DP_1_2_REJECTED (description="DP_1_2_REJECTED [raw]", quantity="none")
<i>StringId</i>	DM_CS2C_POWER (description="DM_CS2C_POWER", quantity="none")
<i>StringId</i>	DM_CS2C_COMMUT (description="DM_CS2C_COMMUT", quantity="none")
<i>StringId</i>	DP_BUFFER_STAT (description="DP_BUFFER_STAT", quantity="none")
<i>StringId</i>	DM_FWSC_POSC_A (description="DM_FWSC_POSC_A", quantity="none")
<i>StringId</i>	DP_COUNTER_SPEC (description="DP_COUNTER_SPEC", quantity="none")
<i>StringId</i>	DM_FWSC_POSC_B (description="DM_FWSC_POSC_B", quantity="none")
<i>StringId</i>	SPS_SATUR_FLAG (description="SPS_SATUR_FLAG", quantity="none")
<i>LongId</i>	DM_BOL_READ_CNT (description="DM_BOL_READ_CNT [raw]", quantity="none")
<i>LongId</i>	DM_DECB_REC_PAC (description="DM_DECB_REC_PAC [raw]", quantity="none")
<i>DoubleId</i>	BOL_GND_BU_B_3 (description="BOL_GND_BU_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_GND_BU_B_4 (description="BOL_GND_BU_B_4 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_GND_BU_B_1 (description="BOL_GND_BU_B_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_GND_BU_B_2 (description="BOL_GND_BU_B_2 [eng, V]", quantity="none")
<i>LongId</i>	DP_HK_LOST (description="DP_HK_LOST [raw]", quantity="none")
<i>StringId</i>	DP_CONTROLLER (description="DP_CONTROLLER", quantity="none")
<i>StringId</i>	DP_STABLE_SPL (description="DP_STABLE_SPL", quantity="none")
<i>StringId</i>	DM_HKD_TASK_AL (description="DM_HKD_TASK_AL", quantity="none")
<i>StringId</i>	DM_BPE_TASK_AL (description="DM_BPE_TASK_AL", quantity="none")
<i>StringId</i>	DM_DSIM_ERR_NS (description="DM_DSIM_ERR_NS", quantity="none")
<i>LongId</i>	SPL_PAR_MONITOR (description="SPL_PAR_MONITOR [raw]", quantity="none")

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<i>StringId</i>	DM_FWSC_POWER (description="DM_FWSC_POWER", quantity="none")
<i>StringId</i>	DM_SW_ALIVE (description="DM_SW_ALIVE", quantity="none")
<i>StringId</i>	DM_CC_POWER (description="DM_CC_POWER", quantity="none")
<i>DoubleId</i>	BOL_CKTRIL_R_R2 (description="BOL_CKTRIL_R_R2 [eng, V]", quantity="none")
<i>StringId</i>	DM_DBR_LINK (description="DM_DBR_LINK", quantity="none")
<i>DoubleId</i>	BOL_CKTRIL_R_R1 (description="BOL_CKTRIL_R_R1 [eng, V]", quantity="none")
<i>LongId</i>	DP_SPUS_LINK_PE (description="DP_SPUS_LINK_PE [raw]", quantity="none")
<i>StringId</i>	DP_STABLE_SPS (description="DP_STABLE_SPS", quantity="none")
<i>LongId</i>	DM_FWSC_SPARE4 (description="DM_FWSC_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_DRC_SPARE3 (description="DM_DRC_SPARE3 [raw]", quantity="none")
<i>LongId</i>	DM_GC_ERROR (description="DM_GC_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_AL (description="DM_DPUR_TASK_AL", quantity="none")
<i>DoubleId</i>	BOL_VRL_R_2 (description="BOL_VRL_R_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VRL_R_1 (description="BOL_VRL_R_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_BC_TASK_WR (description="DM_BC_TASK_WR", quantity="none")
<i>StringId</i>	DP_SPL_LINK (description="DP_SPL_LINK", quantity="none")
<i>StringId</i>	DM_FWPC_SEARCHA (description="DM_FWPC_SEARCHA", quantity="none")
<i>StringId</i>	DM_FWPC_SEARCHB (description="DM_FWPC_SEARCHB", quantity="none")
<i>LongId</i>	DM_DECR_REC_STA (description="DM_DECR_REC_STA [raw]", quantity="none")
<i>StringId</i>	DM_GC_ERR_NS (description="DM_GC_ERR_NS", quantity="none")
<i>StringId</i>	DM_DBR_SIM_TIME (description="DM_DBR_SIM_TIME", quantity="none")
<i>DoubleId</i>	BOL_VDDPRO_BUB1 (description="BOL_VDDPRO_BUB1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDDPRO_BUB2 (description="BOL_VDDPRO_BUB2 [eng, V]", quantity="none")
<i>LongId</i>	DP_COM_SPL_PACK (description="DP_COM_SPL_PACK [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDDPRO_BUB3 (description="BOL_VDDPRO_BUB3 [eng, V]", quantity="none")

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<i>LongId</i>	DM_DBC_ERROR (description="DM_DBC_ERROR [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDDPRO_BUB4 (description="BOL_VDDPRO_BUB4 [eng, V]", quantity="none")
<i>StringId</i>	DM_HKCO_ERR_NS (description="DM_HKCO_ERR_NS", quantity="none")
<i>StringId</i>	DM_SEQ_OPTIONS (description="DM_SEQ_OPTIONS", quantity="none")
<i>DoubleId</i>	DM_DSP_TEMP (description="DM_DSP_TEMP [eng, K]", quantity="none")
<i>LongId</i>	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV_SWT (description="BOL_TEMP_EV_SWT [eng, K]", quantity="none")
<i>DoubleId</i>	DM_SPU_PS_TEMP (description="DM_SPU_PS_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DM_CS1C_SPARE1B (description="DM_CS1C_SPARE1B [raw]", quantity="none")
<i>DoubleId</i>	BOL_HEAT_SP_SWT (description="BOL_HEAT_SP_SWT [eng, A]", quantity="none")
<i>LongId</i>	DM_BR_SPARE2 (description="DM_BR_SPARE2 [raw]", quantity="none")
<i>LongId</i>	DM_BOL_CTRL_PAC (description="DM_BOL_CTRL_PAC [raw]", quantity="none")
<i>LongId</i>	SPS_MEM_CNTS (description="SPS_MEM_CNTS [raw]", quantity="none")
<i>StringId</i>	SPL_DMC_LINK (description="SPL_DMC_LINK", quantity="none")
<i>StringId</i>	DM_RPE_TASK_AL (description="DM_RPE_TASK_AL", quantity="none")
<i>DoubleId</i>	BOL_VDECXH_R_1 (description="BOL_VDECXH_R_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_2 (description="DM_CUSTOM_ENT_2 [raw]", quantity="none")
<i>StringId</i>	DM_CC_UP (description="DM_CC_UP", quantity="none")
<i>StringId</i>	DM_GC_LL_UNLOCK (description="DM_GC_LL_UNLOCK", quantity="none")
<i>DoubleId</i>	BOL_CKRL R_2 (description="BOL_CKRL R_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_3 (description="DM_CUSTOM_ENT_3 [raw]", quantity="none")
<i>LongId</i>	DM_RPE_ERROR (description="DM_RPE_ERROR [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_6 (description="BOL_PWR_ANA_P_6 [eng, V]", quantity="none")
<i>LongId</i>	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
<i>StringId</i>	DP_SPUL_HK (description="DP_SPUL_HK", quantity="none")

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<i>DoubleId</i>	BOL_PWR_ANA_P_7 (description="BOL_PWR_ANA_P_7 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VDECXH_R_2 (description="BOL_VDECXH_R_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_1 (description="DM_CUSTOM_ENT_1 [raw]", quantity="none")
<i>StringId</i>	DM_BR_TASK_WR (description="DM_BR_TASK_WR", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_4 (description="BOL_PWR_ANA_P_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_6 (description="DM_CUSTOM_ENT_6 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_5 (description="BOL_PWR_ANA_P_5 [eng, V]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_7 (description="DM_CUSTOM_ENT_7 [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_4 (description="DM_CUSTOM_ENT_4 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_2 (description="BOL_PWR_ANA_P_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_GC_UP (description="DM_GC_UP", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_5 (description="DM_CUSTOM_ENT_5 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_3 (description="BOL_PWR_ANA_P_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VGL_BU_B_3 (description="BOL_VGL_BU_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_P_1 (description="BOL_PWR_ANA_P_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VGL_BU_B_4 (description="BOL_VGL_BU_B_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_CS2C_ERR_NS (description="DM_CS2C_ERR_NS", quantity="none")
<i>DoubleId</i>	BOL_VGL_BU_B_1 (description="BOL_VGL_BU_B_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_8 (description="DM_CUSTOM_ENT_8 [raw]", quantity="none")
<i>LongId</i>	DM_OBSID (description="DM_OBSID [raw]", quantity="none")
<i>LongId</i>	DM_CUSTOM_ENT_9 (description="DM_CUSTOM_ENT_9 [raw]", quantity="none")
<i>DoubleId</i>	BOL_VGL_BU_B_2 (description="BOL_VGL_BU_B_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VH_B_1 (description="BOL_VH_B_1 [eng, V]", quantity="none")
<i>StringId</i>	DP_EV_BOL_T_FPU (description="DP_EV_BOL_T_FPU", quantity="none")
<i>StringId</i>	DP_OBCP_RUN (description="DP_OBCP_RUN", quantity="none")

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<i>DoubleId</i>	DM_CHOP_OUTPUT (description="DM_CHOP_OUTPUT [eng, mA]", quantity="none")
<i>LongId</i>	DM_DECB_CTRL_PA (description="DM_DECB_CTRL_PA [raw]", quantity="none")
<i>LongId</i>	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
<i>LongId</i>	DP_DEC_LINK_PE (description="DP_DEC_LINK_PE [raw]", quantity="none")
<i>LongId</i>	SPS_MAINT_RAMPS (description="SPS_MAINT_RAMPS [raw]", quantity="none")
<i>DoubleId</i>	BOL_CKRLR_R_1 (description="BOL_CKRLR_R_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_GC_DOWN (description="DM_GC_DOWN", quantity="none")
<i>DoubleId</i>	BOL_VH_B_4 (description="BOL_VH_B_4 [eng, V]", quantity="none")
<i>StringId</i>	SPL_DMC_ERROR (description="SPL_DMC_ERROR", quantity="none")
<i>DoubleId</i>	BOL_VH_B_2 (description="BOL_VH_B_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VH_B_3 (description="BOL_VH_B_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_SW_ERROR (description="DM_SW_ERROR [raw]", quantity="none")
<i>DoubleId</i>	BOL_VL_R_2 (description="BOL_VL_R_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VL_R_1 (description="BOL_VL_R_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_I_VSS_BU_B2 (description="BOL_I_VSS_BU_B2 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_VSS_BU_B1 (description="BOL_I_VSS_BU_B1 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_VSS_BU_B4 (description="BOL_I_VSS_BU_B4 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_VSS_BU_B3 (description="BOL_I_VSS_BU_B3 [eng, A]", quantity="none")
<i>StringId</i>	DM_FPU_GR_TS_ST (description="DM_FPU_GR_TS_ST", quantity="none")
<i>DoubleId</i>	DM_PSC_V4 (description="DM_PSC_V4 [eng, A]", quantity="none")
<i>DoubleId</i>	DM_PSC_V3 (description="DM_PSC_V3 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_PSC_V2 (description="DM_PSC_V2 [eng, mA]", quantity="none")
<i>StringId</i>	DM_CC_TASK_WR (description="DM_CC_TASK_WR", quantity="none")
<i>DoubleId</i>	DM_PSC_V1 (description="DM_PSC_V1 [eng, A]", quantity="none")

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<i>LongId</i>	DM_DECR_REC_PAC (description="DM_DECR_REC_PAC [raw]", quantity="none")
<i>DoubleId</i>	BOL_VGL_B_3 (description="BOL_VGL_B_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_BPE_TASK_WR (description="DM_BPE_TASK_WR", quantity="none")
<i>LongId</i>	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
<i>DoubleId</i>	BOL_VGL_B_4 (description="BOL_VGL_B_4 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VGL_B_1 (description="BOL_VGL_B_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VGL_B_2 (description="BOL_VGL_B_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VH_R_1 (description="BOL_VH_R_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_CHOP_CTRL_ST (description="DM_CHOP_CTRL_ST [raw]", quantity="none")
<i>StringId</i>	DP_SPUL_LINK (description="DP_SPUL_LINK", quantity="none")
<i>DoubleId</i>	BOL_VH_R_2 (description="BOL_VH_R_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_HK_DIAG_STAT (description="DM_HK_DIAG_STAT [raw]", quantity="none")
<i>StringId</i>	DP_1355_HANDLER (description="DP_1355_HANDLER", quantity="none")
<i>StringId</i>	DM_FPU_CS_TS_ST (description="DM_FPU_CS_TS_ST", quantity="none")
<i>LongId</i>	DM_DM_DF_IND (description="DM_DM_DF_IND [raw]", quantity="none")
<i>DoubleId</i>	DM_CS1_TARGET (description="DM_CS1_TARGET [eng, Ohm]", quantity="none")
<i>LongId</i>	DM_FWPC_ERROR (description="DM_FWPC_ERROR [raw]", quantity="none")
<i>DoubleId</i>	BOL_VGL_BU_R_2 (description="BOL_VGL_BU_R_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VGL_BU_R_1 (description="BOL_VGL_BU_R_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_CKRLH_B_1 (description="BOL_CKRLH_B_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_CKRLH_B_2 (description="BOL_CKRLH_B_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU1 (description="BOL_TEMP_FPU1 [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_CKRLH_B_3 (description="BOL_CKRLH_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU2 (description="BOL_TEMP_FPU2 [eng, K]", quantity="none")

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

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

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

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<i>LongId</i>	DM_PLL_RES_HI (description="DM_PLL_RES_HI [raw]", quantity="none")
<i>LongId</i>	DM_FW_SPEC_CTRL (description="DM_FW_SPEC_CTRL [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDD_B_4 (description="BOL_VDD_B_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID3 (description="DM_SEQ_LOOP_ID3 [raw]", quantity="none")
<i>DoubleId</i>	BOL_CKRLB_B_2 (description="BOL_CKRLB_B_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID2 (description="DM_SEQ_LOOP_ID2 [raw]", quantity="none")
<i>DoubleId</i>	BOL_CKRLB_B_3 (description="BOL_CKRLB_B_3 [eng, V]", quantity="none")
<i>LongId</i>	SPS_REAL (description="SPS_REAL [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID1 (description="DM_SEQ_LOOP_ID1 [raw]", quantity="none")
<i>DoubleId</i>	BOL_CKRLB_B_4 (description="BOL_CKRLB_B_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID0 (description="DM_SEQ_LOOP_ID0 [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_POS_B (description="DM_FWSC_POS_B", quantity="none")
<i>StringId</i>	DM_FWSC_POS_A (description="DM_FWSC_POS_A", quantity="none")
<i>StringId</i>	DP_BLUE_SCIENCE (description="DP_BLUE_SCIENCE", quantity="none")
<i>LongId</i>	DM_R_SPEC_READ (description="DM_R_SPEC_READ [raw]", quantity="none")
<i>LongId</i>	SPS_VID (description="SPS_VID [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID4 (description="DM_SEQ_LOOP_ID4 [raw]", quantity="none")
<i>LongId</i>	DM_BC_SPARE4 (description="DM_BC_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_HKCO_ERROR (description="DM_HKCO_ERROR [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDECXL_B_2 (description="BOL_VDECXL_B_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_DRR_SENDING (description="DM_DRR_SENDING", quantity="none")
<i>DoubleId</i>	BOL_VDECXL_B_3 (description="BOL_VDECXL_B_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_DRR_SPARE2 (description="DM_DRR_SPARE2 [raw]", quantity="none")
<i>DoubleId</i>	BOL_VDECXL_B_1 (description="BOL_VDECXL_B_1 [eng, V]", quantity="none")
<i>DoubleId</i>	SPS_CPUWORKLOAD (description="SPS_CPUWORKLOAD [eng, %]", quantity="none")

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

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<i>DoubleId</i>	BOL_VL_B_3 (description="BOL_VL_B_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VL_B_2 (description="BOL_VL_B_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_3 (description="BOL_PWR_ANA_N_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_ANA_N_1 (description="BOL_PWR_ANA_N_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VL_B_4 (description="BOL_VL_B_4 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VRL_B_4 (description="BOL_VRL_B_4 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_VRL_B_3 (description="BOL_VRL_B_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_FWSC_SEARCHB (description="DM_FWSC_SEARCHB", quantity="none")
<i>LongId</i>	DM_DPU_REC_STAT (description="DM_DPU_REC_STAT [raw]", quantity="none")
<i>DoubleId</i>	BOL_VRL_B_2 (description="BOL_VRL_B_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_FWSC_SEARCHA (description="DM_FWSC_SEARCHA", quantity="none")
<i>LongId</i>	DM_VID (description="DM_VID [raw]", quantity="none")
<i>DoubleId</i>	BOL_VRL_B_1 (description="BOL_VRL_B_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_SP_SWT (description="BOL_TEMP_SP_SWT [eng, K]", quantity="none")
<i>StringId</i>	DP_HK_MONITOR (description="DP_HK_MONITOR", quantity="none")
<i>StringId</i>	DM_CS1C_LOOP (description="DM_CS1C_LOOP", quantity="none")
<i>DoubleId</i>	BOL_TEMP_TS (description="BOL_TEMP_TS [eng, K]", quantity="none")
<i>LongId</i>	DM_SW_SPARE5 (description="DM_SW_SPARE5 [raw]", quantity="none")
<i>DoubleId</i>	DM_CHOPPER_TEMP (description="DM_CHOPPER_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_WR (description="DM_RPE_TASK_WR", quantity="none")
<i>StringId</i>	DP_EVENT_DPU (description="DP_EVENT_DPU", quantity="none")
<i>LongId</i>	DM_DRR_ERROR (description="DM_DRR_ERROR [raw]", quantity="none")
<i>LongId</i>	SPL_RCX (description="SPL_RCX [raw]", quantity="none")
<i>StringId</i>	DM_DSIM_TASK_WR (description="DM_DSIM_TASK_WR", quantity="none")
<i>LongId</i>	DM_BLUE_ENC_PAC (description="DM_BLUE_ENC_PAC [raw]", quantity="none")

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9.1.6. HPGENHK: General Housekeeping

<i>product</i> (type="HPGENHK", description="HPGENHKS")	
<i>Metadata</i>	
StringParameter	type (description="null")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="PACS Level 0 Product")
StringParameter	modelName (description="Model")
DateParameter	startDate (description="Start Date")
DateParameter	endDate (description="End Date")
StringParameter	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")
<i>table dataset</i>	(description="Generated from PacketSequence \$Revision: 1.4 \$")
<i>Metadata</i>	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
LongId	Time (description="Time [microseconds]", quantity="microseconds [1.0E-6 s]")
LongId	DP_1_8_REJECTED (description="DP_1_8_REJECTED [raw]", quantity="none")
LongId	SPL_PIX (description="SPL_PIX [raw]", quantity="none")
LongId	SPL_VID (description="SPL_VID [raw]", quantity="none")
DoubleId	DM_SPU_SWL_TEMP (description="DM_SPU_SWL_TEMP [eng, K]", quantity="none")
LongId	DP_SPUL_LINK_PE (description="DP_SPUL_LINK_PE [raw]", quantity="none")
StringId	DP_SPS_LINK (description="DP_SPS_LINK", quantity="none")
StringId	DM_FPU_S2_TS_ST (description="DM_FPU_S2_TS_ST", quantity="none")
LongId	DM_HK_CTRL_STAT (description="DM_HK_CTRL_STAT [raw]", quantity="none")
LongId	DM_DBR_SPARE2 (description="DM_DBR_SPARE2 [raw]", quantity="none")
StringId	DP_DMC_CMD (description="DP_DMC_CMD", quantity="none")
StringId	DM_FPU_CH_TS_ST (description="DM_FPU_CH_TS_ST", quantity="none")
DoubleId	

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

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

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<i>LongId</i>	DM_LAST_ER_BF12 (description="DM_LAST_ER_BF12 [raw]", quantity="none")
<i>StringId</i>	DP_DEC_LINK (description="DP_DEC_LINK", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF13 (description="DM_LAST_ER_BF13 [raw]", quantity="none")
<i>LongId</i>	DP_COM_DMC_PACK (description="DP_COM_DMC_PACK [raw]", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_WR (description="DM_DPUR_TASK_WR", quantity="none")
<i>StringId</i>	DP_EEPROM_PROT (description="DP_EEPROM_PROT", quantity="none")
<i>LongId</i>	DP_COM_SPS_PACK (description="DP_COM_SPS_PACK [raw]", quantity="none")
<i>DoubleId</i>	DP_VOL_5P (description="DP_VOL_5P [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF3 (description="DM_LAST_ER_BF3 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF4 (description="DM_LAST_ER_BF4 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF5 (description="DM_LAST_ER_BF5 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF6 (description="DM_LAST_ER_BF6 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF7 (description="DM_LAST_ER_BF7 [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_LINK (description="DM_DPUS_LINK", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF8 (description="DM_LAST_ER_BF8 [raw]", quantity="none")
<i>DoubleId</i>	DP_VOL_25P (description="DP_VOL_25P [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF9 (description="DM_LAST_ER_BF9 [raw]", quantity="none")
<i>LongId</i>	DP_COM_DMC_NACK (description="DP_COM_DMC_NACK [raw]", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_AL (description="DM_SEQ_TASK_AL", quantity="none")
<i>LongId</i>	DM_FPU_T_SEN_ST (description="DM_FPU_T_SEN_ST [raw]", quantity="none")
<i>LongId</i>	DM_BOL_STATUS (description="DM_BOL_STATUS [raw]", quantity="none")
<i>StringId</i>	DM_BR_SIM_TIME (description="DM_BR_SIM_TIME", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF2 (description="DM_LAST_ER_BF2 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_7 (description="BOL_PWR_DIG_7 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF1 (description="DM_LAST_ER_BF1 [raw]", quantity="none")

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<i>StringId</i>	DM_FPU_FWP_TS_S (description="DM_FPU_FWP_TS_S", quantity="none")
<i>LongId</i>	DP_1_2_REJECTED (description="DP_1_2_REJECTED [raw]", quantity="none")
<i>StringId</i>	DP_INIT (description="DP_INIT", quantity="none")
<i>LongId</i>	DM_BLUE_PAC_ENC (description="DM_BLUE_PAC_ENC [raw]", quantity="none")
<i>StringId</i>	DP_BUFFER_STAT (description="DP_BUFFER_STAT", quantity="none")
<i>StringId</i>	DP_COUNTER_SPEC (description="DP_COUNTER_SPEC", quantity="none")
<i>StringId</i>	DM_DBC_TASK_AL (description="DM_DBC_TASK_AL", quantity="none")
<i>LongId</i>	DM_BOL_READ_CNT (description="DM_BOL_READ_CNT [raw]", quantity="none")
<i>LongId</i>	DM_HK_DIAG_PERI (description="DM_HK_DIAG_PERI [raw]", quantity="none")
<i>LongId</i>	DM_DECB_REC_PAC (description="DM_DECB_REC_PAC [raw]", quantity="none")
<i>LongId</i>	SPL_MEM_CNTS (description="SPL_MEM_CNTS [raw]", quantity="none")
<i>LongId</i>	DM_DBR_ERROR (description="DM_DBR_ERROR [raw]", quantity="none")
<i>LongId</i>	DP_HK_LOST (description="DP_HK_LOST [raw]", quantity="none")
<i>StringId</i>	DP_CONTROLLER (description="DP_CONTROLLER", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_HEA (description="DP_EV_BOL_I_HEA", quantity="none")
<i>StringId</i>	DP_STABLE_SPL (description="DP_STABLE_SPL", quantity="none")
<i>StringId</i>	DP_EV_BOL_BIAS (description="DP_EV_BOL_BIAS", quantity="none")
<i>DoubleId</i>	DM_SPU_LWL_TEMP (description="DM_SPU_LWL_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_HKD_TASK_AL (description="DM_HKD_TASK_AL", quantity="none")
<i>StringId</i>	DM_BPE_TASK_AL (description="DM_BPE_TASK_AL", quantity="none")
<i>LongId</i>	DP_EVENT_LOST (description="DP_EVENT_LOST [raw]", quantity="none")
<i>StringId</i>	DM_SW_ALIVE (description="DM_SW_ALIVE", quantity="none")
<i>DoubleId</i>	DM_SPU_VP_CUR (description="DM_SPU_VP_CUR [eng, mA]", quantity="none")
<i>LongId</i>	DP_COM_REC_DPU (description="DP_COM_REC_DPU [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_ERR_NS (description="DM_DPUS_ERR_NS", quantity="none")

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<i>StringId</i>	DM_DBR_LINK (description="DM_DBR_LINK", quantity="none")
<i>LongId</i>	DP_SW_SUBVERS_ID (description="DP_SW_SUBVERS_ID [raw]", quantity="none")
<i>LongId</i>	DP_SPUS_LINK_PE (description="DP_SPUS_LINK_PE [raw]", quantity="none")
<i>StringId</i>	DP_STABLE_SPS (description="DP_STABLE_SPS", quantity="none")
<i>LongId</i>	DM_DRC_SPARE3 (description="DM_DRC_SPARE3 [raw]", quantity="none")
<i>StringId</i>	DM_DBC_TASK_WR (description="DM_DBC_TASK_WR", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_AL (description="DM_DPUR_TASK_AL", quantity="none")
<i>StringId</i>	DM_BC_TASK_WR (description="DM_BC_TASK_WR", quantity="none")
<i>StringId</i>	DP_SPL_LINK (description="DP_SPL_LINK", quantity="none")
<i>StringId</i>	DP_UNIT (description="DP_UNIT", quantity="none")
<i>LongId</i>	DM_DECR_REC_STA (description="DM_DECR_REC_STA [raw]", quantity="none")
<i>StringId</i>	DM_DBR_TASK_AL (description="DM_DBR_TASK_AL", quantity="none")
<i>LongId</i>	DM_SEQ_ERROR (description="DM_SEQ_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_CAL_SRC_TEMP (description="DM_CAL_SRC_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_DBC_ERR_NS (description="DM_DBC_ERR_NS", quantity="none")
<i>StringId</i>	DM_DBR_SIM_TIME (description="DM_DBR_SIM_TIME", quantity="none")
<i>StringId</i>	DM_DRC_POWER (description="DM_DRC_POWER", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_WR (description="DM_SEQ_TASK_WR", quantity="none")
<i>LongId</i>	DP_COM_SPL_PACK (description="DP_COM_SPL_PACK [raw]", quantity="none")
<i>LongId</i>	DM_DBC_ERROR (description="DM_DBC_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_HKCO_ERR_NS (description="DM_HKCO_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_DSP_TEMP (description="DM_DSP_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_FWSP_CUR_POS (description="DM_FWSP_CUR_POS", quantity="none")
<i>LongId</i>	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV_SWT (description="BOL_TEMP_EV_SWT [eng, K]", quantity="none")
<i>DoubleId</i>	DM_SPU_PS_TEMP (description="DM_SPU_PS_TEMP [eng, K]", quantity="none")

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

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

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<i>LongId</i>	DM_DECR_REC_PAC (description="DM_DECR_REC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_STABLE_DEC (description="DP_STABLE_DEC", quantity="none")
<i>StringId</i>	SPS_DMC_ERROR (description="SPS_DMC_ERROR", quantity="none")
<i>StringId</i>	DM_BPE_TASK_WR (description="DM_BPE_TASK_WR", quantity="none")
<i>LongId</i>	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
<i>LongId</i>	DM_GRAT_CUR_POS (description="DM_GRAT_CUR_POS [raw]", quantity="none")
<i>StringId</i>	DP_SPUL_LINK (description="DP_SPUL_LINK", quantity="none")
<i>StringId</i>	DM_BC_LINK (description="DM_BC_LINK", quantity="none")
<i>LongId</i>	DM_HK_DIAG_STAT (description="DM_HK_DIAG_STAT [raw]", quantity="none")
<i>StringId</i>	DP_1355_HANDLER (description="DP_1355_HANDLER", quantity="none")
<i>StringId</i>	DM_FPU_CS_TS_ST (description="DM_FPU_CS_TS_ST", quantity="none")
<i>LongId</i>	DM_DM_DF_IND (description="DM_DM_DF_IND [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP2 (description="DP_EV_BOL_I_SP2", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_SP1 (description="DP_EV_BOL_I_SP1", quantity="none")
<i>LongId</i>	DM_DPU_REC_PAC (description="DM_DPU_REC_PAC [raw]", quantity="none")
<i>StringId</i>	DP_COUNTER_PHOT (description="DP_COUNTER_PHOT", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU1 (description="BOL_TEMP_FPU1 [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU2 (description="BOL_TEMP_FPU2 [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_DAQ (description="BOL_TEMP_DAQ [eng, degC]", quantity="none")
<i>LongId</i>	DM_SEQ_STATUS (description="DM_SEQ_STATUS [raw]", quantity="none")
<i>LongId</i>	DM_BPE_SPARE4 (description="DM_BPE_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_BC_ERROR (description="DM_BC_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_DRC_LINK (description="DM_DRC_LINK", quantity="none")
<i>StringId</i>	DM_DBR_TASK_WR (description="DM_DBR_TASK_WR", quantity="none")
<i>DoubleId</i>	DM_FPU_T1_TEMP (description="DM_FPU_T1_TEMP [eng, K]", quantity="none")

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

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

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

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

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<i>LongId</i>	DM_VID (description="DM_VID [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_SP_SWT (description="BOL_TEMP_SP_SWT [eng, K]", quantity="none")
<i>DoubleId</i>	DM_REF_VOLT_0V (description="DM_REF_VOLT_0V [eng, V]", quantity="none")
<i>StringId</i>	DP_COUNTER_DEC (description="DP_COUNTER_DEC", quantity="none")
<i>LongId</i>	DM_B_SPEC_READ (description="DM_B_SPEC_READ [raw]", quantity="none")
<i>StringId</i>	DP_HK_MONITOR (description="DP_HK_MONITOR", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU_ST (description="BOL_TEMP_FPU_ST [eng, K]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_TS (description="BOL_TEMP_TS [eng, K]", quantity="none")
<i>LongId</i>	DM_SW_SPARE5 (description="DM_SW_SPARE5 [raw]", quantity="none")
<i>LongId</i>	DP_COM_REJ_DPU (description="DP_COM_REJ_DPU [raw]", quantity="none")
<i>DoubleId</i>	DM_CHOPPER_TEMP (description="DM_CHOPPER_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_WR (description="DM_RPE_TASK_WR", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B4 (description="BOL_I_HEATER_B4 [eng, A]", quantity="none")
<i>LongId</i>	HD_APID (description="HD_APID [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_FPU (description="DP_EV_BOL_I_FPU", quantity="none")
<i>StringId</i>	DP_EVENT_DPU (description="DP_EVENT_DPU", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B2 (description="BOL_I_HEATER_B2 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B3 (description="BOL_I_HEATER_B3 [eng, A]", quantity="none")
<i>LongId</i>	DM_DRR_ERROR (description="DM_DRR_ERROR [raw]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B1 (description="BOL_I_HEATER_B1 [eng, A]", quantity="none")
<i>LongId</i>	DM_DECB_REC_STA (description="DM_DECB_REC_STA [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV (description="BOL_TEMP_EV [eng, K]", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_WR (description="DM_HKCO_TASK_WR", quantity="none")
<i>LongId</i>	DM_BLUE_ENC_PAC (description="DM_BLUE_ENC_PAC [raw]", quantity="none")

9.1.7. HPTCVERS: Telecommand Verification

<i>list context (type="HPTCVERS", description="Telecommand Verification")</i>	
<i>Metadata</i>	
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")
<i>product (type="HPENG", description="HPTCVERS")</i>	
<i>Metadata</i>	
StringParameter	type (description="null")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="PACS Level 0 Product")
StringParameter	modelName (description="Model")
DateParameter	startDate (description="Start Date")
DateParameter	endDate (description="End Date")
StringParameter	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")
<i>table dataset (description="Generated from PacketSequence \$Revision: 1.4 \$")</i>	
<i>Metadata</i>	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")

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

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

9.2.1. HPPAVGBS: Frames

<i>product (type="HPPAVGBS", description="Frames")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
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")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="none")
<i>table dataset</i>	(description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status parameter", quantity="none")
<i>Long1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Long1d</i>	BBID (description="Building block type", quantity="none")
<i>Int1d</i>	LBL (description="Label", quantity="none")
<i>Int1d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
<i>Int1d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
<i>Long1d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Int1d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
<i>Int1d</i>	CPR (description="Chopper position", quantity="none")
<i>Int1d</i>	WPR (description="Filter wheel Position", quantity="none")
<i>Int1d</i>	BOLST (description="BOL-C status", quantity="none")
<i>Int1d</i>	CRDC (description="OBT clock tick counter since last time reset", quantity="none")
<i>Int1d</i>	CRDCCP (description="OBT clock tick counter in current chopper plate", quantity="none")
<i>Int1d</i>	DBID (description="Data Block ID", quantity="none")
<i>Int1d</i>	BSID (description="Bolometer Setup Identification", quantity="none")
<i>Bool1d</i>	DMCSEQACTIVE (description="Indicates if a DMC sequence executing", quantity="none")

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

<i>Metadata</i>	
<i>Bool2d</i>	(description="null", quantity="none")
<i>compos- ite</i>	(description="Mask data stored in bit encoded arrays")
<i>Metadata</i>	
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
StringParameter	camName (description="Name of the Camera")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
<i>array dataset</i>	(description="Mask that flags the blind pixels")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="Mask that flags the blind pixels", quantity="none")

9.2.2. HPPAVGRS: Frames

<i>product (type="HPPAVGRS", description="Frames")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (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")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="none")
<i>table dataset</i>	(description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status parameter", quantity="none")
<i>Long1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Long1d</i>	BBID (description="Building block type", quantity="none")
<i>Int1d</i>	LBL (description="Label", quantity="none")
<i>Int1d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
<i>Int1d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
<i>Long1d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Int1d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
<i>Int1d</i>	CPR (description="Chopper position", quantity="none")
<i>Int1d</i>	WPR (description="Filter wheel Position", quantity="none")

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

<i>Int1d</i>	NoddingPosition (description="Nodding position (0 = None, 1 = A, 2 = B)", quantity="none")
<i>Int1d</i>	NodCycleNum (description="Nodding cycle number", quantity="none")
<i>Int1d</i>	RasterColumnNum (description="Raster column number", quantity="none")
<i>Int1d</i>	RasterLineNum (description="Raster line number", quantity="none")
<i>Int1d</i>	NrAvg (description="Average number", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Bool2d</i>	(description="null", quantity="none")
<i>compos-ite</i>	(description="Mask data stored in bit encoded arrays")
<i>Metadata</i>	
<i>LongParameter</i>	number of rows (description="null")
<i>LongParameter</i>	number of columns (description="null")
<i>LongParameter</i>	number of resets (description="null")
<i>LongParameter</i>	number of samples (description="null")
<i>StringParameter</i>	camName (description="Name of the Camera")
<i>LongParameter</i>	detRow (description="Number of detector rows")
<i>LongParameter</i>	detCol (description="Number of detector columns")
<i>array dataset</i>	(description="Mask that flags the blind pixels")
<i>Metadata</i>	
<i>LongParameter</i>	Mask dimension (description="null")
<i>LongParameter</i>	number of rows (description="null")
<i>LongParameter</i>	number of columns (description="null")
<i>LongParameter</i>	number of resets (description="null")
<i>LongParameter</i>	number of samples (description="null")
<i>Int3d</i>	(description="Mask that flags the blind pixels", quantity="none")

9.2.3. HPPPSCBS: PsCoordinates

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

<i>table dataset</i>	<i>(description="PhotPointSource")</i>		
<i>Metadata</i>			
<i>DoubleId</i>	RaArray	(description="null",	quantity="none")
<i>DoubleId</i>	DecArray	(description="null",	quantity="none")
<i>DoubleId</i>	PaArray	(description="null",	quantity="none")
<i>IntId</i>	CPR	(description="null",	quantity="none")
<i>IntId</i>	DithPos	(description="null",	quantity="none")
<i>LongId</i>	NodCycleNum	(description="null",	quantity="none")
<i>IntId</i>	ChopperPlateau	(description="null",	quantity="none")
<i>IntId</i>	isAPosition	(description="null",	quantity="none")

9.2.4. HPPPSCRS: PsCoordinates

<i>product</i>	<i>(type="HPPPSCRS", description="PsCoordinates")</i>		
<i>Metadata</i>			
StringParameter	type	(description="Product Type Identification")	
StringParameter	creator	(description="Generator of this product")	
DateParameter	creationDate	(description="Creation date of this product")	
StringParameter	description	(description="Name of this product")	
StringParameter	instrument	(description="Instrument attached to this product")	
StringParameter	modelName	(description="Model name attached to this product")	
DateParameter	startDate	(description="Start date of this product")	
DateParameter	endDate	(description="End date of this product")	
StringParameter	formatVersion	(description="Version of product format")	
<i>table dataset</i>	<i>(description="PhotPointSource")</i>		
<i>Metadata</i>			
<i>DoubleId</i>	RaArray	(description="null",	quantity="none")
<i>DoubleId</i>	DecArray	(description="null",	quantity="none")
<i>DoubleId</i>	PaArray	(description="null",	quantity="none")
<i>IntId</i>	CPR	(description="null",	quantity="none")
<i>IntId</i>	DithPos	(description="null",	quantity="none")
<i>LongId</i>	NodCycleNum	(description="null",	quantity="none")
<i>IntId</i>	ChopperPlateau	(description="null",	quantity="none")
<i>IntId</i>	isAPosition	(description="null",	quantity="none")

9.3. PACS Photometry Level-2 Products

9.3.1. HPPDMAPBS: Photometer PointSource Product Blue Bolometer

<i>product</i>	<i>(type="HPPDMAPBS", description="Pacs Photometer PointSource Product")</i>		
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<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken")
<i>array dataset</i>	(description="Image")
<i>Metadata</i>	
LongParameter	naxis1 (description="null")
LongParameter	naxis2 (description="null")
<i>Double2d</i>	(description="Image", quantity="")
<i>array dataset</i>	(description="noise")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="none")
<i>compos-ite</i>	(description="History of product")
<i>Metadata</i>	
<i>table dataset</i>	(description="History as Jython script")
<i>Metadata</i>	
StringParameter	outvar (description="last output variable")
<i>StringId</i>	Lines (description="script lines", quantity="none")
<i>table dataset</i>	(description="History of tasks")
<i>Metadata</i>	
<i>LongId</i>	ID (description="Links the parameter and task table", quantity="none")
<i>StringId</i>	Name (description="The name of the task", quantity="none")
<i>LongId</i>	ExecDate (description="Time of execution (FINETIME)", quantity="none")
<i>StringId</i>	BuildVersion (description="The used HCSS build", quantity="none")
<i>table dataset</i>	(description="The parameters belonging to the task history")

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

9.3.2. HPPDMAPRS: Photometer PointSource Product Red Bolometer

<i>product (type="HPPDMAPRS", description="Pacs Photometer PointSource Product")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="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")

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

9.3.3. HPPPMAPBS: Photometer PointSource Product with Astrometry Blue Bolometer

<i>product</i> (type="HPPPMAPBS", description="Pacs Photometer PointSource Product with Astrometry")
<i>Metadata</i>

StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
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")
compos- ite	(description="History of product")
Metadata	
table dataset	(description="History as Jython script")
Metadata	
StringParameter	outvar (description="last output variable")
StringId	Lines (description="script lines", quantity="none")
table dataset	(description="History of tasks")
Metadata	
LongId	ID (description="Links the parameter and task table", quantity="none")
StringId	Name (description="The name of the task", quantity="none")
LongId	ExecDate (description="Time of execution (FINETIME)", quantity="none")
StringId	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	(description="The parameters belonging to the task history")
Metadata	
LongId	TaskID (description="Links the parameter and task table", quantity="none")

<i>StringId</i>	Name (description="The name of the parameter", quantity="none")
<i>StringId</i>	Type (description="Type of parameter", quantity="none")
<i>StringId</i>	Value (description="String representation of the parameter value", quantity="none")
<i>BoolId</i>	IsDefault (description="True if the default value has been used", quantity="none")
<i>LongId</i>	IncTaskId (description="ID of the history of an included product", quantity="none")
<i>BoolId</i>	UserInput (description="Needs user input", quantity="none")
<i>StringId</i>	Class (description="Class of the parameter", quantity="none")
<i>StringId</i>	ProductType (description="Product Type for History", quantity="none")
<i>StringId</i>	ProductId (description="Human Readable Product Identifier for History", quantity="none")

9.3.4. HPPMAPRS: Photometer PointSource Product with Astrometry Red Bolometer

<i>product</i> (type="HPPMAPRS", description="Pacs Photometer PointSource Product with Astrometry")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="null")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken")
<i>array dataset</i>	(description="Image")
<i>Metadata</i>	
LongParameter	naxis1 (description="null")
LongParameter	naxis2 (description="null")
<i>Double2d</i>	(description="Image", quantity="")
	(description="coverage")

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

9.3.5. HPPMMAPBS: Photometer Mad Map Blue Bolometer

<i>product (type="HPPMMAPBS", description="MadMap")</i>	
<i>Metadata</i>	
<i>StringParameter</i>	type (description="Product Type Identification")

StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken")
<i>array dataset</i>	(description="Image")
<i>Metadata</i>	
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")
<i>Double2d</i>	(description="Image", quantity="")
<i>array dataset</i>	(description="Error map, definition TBD")
<i>Metadata</i>	
<i>Double2d</i>	(description="Error map, definition TBD", quantity="")
<i>array dataset</i>	(description="Coverage map")

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

9.3.6. HPPMMAPRS: Photometer Mad Map Red Bolometer

<i>product (type="HPPMMAPRS", description="MadMap")</i>	
<i>Metadata</i>	
<i>StringParameter</i>	type (description="Product Type Identification")
<i>StringParameter</i>	creator (description="Generator of this product")

DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken")
<i>array dataset</i>	(description="Image")
<i>Metadata</i>	
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	cctype1 (description="WCS: Projection type axis 1, default="LINEAR")
StringParameter	cctype2 (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")
<i>Double2d</i>	(description="Image", quantity="")
<i>array dataset</i>	(description="Error map, definition TBD")
<i>Metadata</i>	
<i>Double2d</i>	(description="Error map, definition TBD", quantity="")
<i>array dataset</i>	(description="Coverage map")
<i>Metadata</i>	
<i>Double2d</i>	(description="Coverage map", quantity="s")

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

9.3.7. HPPNMAPBS: Photometer Naive Map Blue Bolometer

<i>product</i> (type="HPPNMAPBS", description="NaiveMap")	
<i>Metadata</i>	
<i>StringParameter</i>	type (description="Product Type Identification")
<i>StringParameter</i>	creator (description="Generator of this product")
<i>DateParameter</i>	creationDate (description="Creation date of this product")
	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")
<i>array dataset</i>	(description="Image")
<i>Metadata</i>	
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")
<i>Double2d</i>	(description="Image", quantity="")
<i>array dataset</i>	(description="Error map, definition TBD")
<i>Metadata</i>	
<i>Double2d</i>	(description="Error map, definition TBD", quantity="")
<i>array dataset</i>	(description="Coverage map")
<i>Metadata</i>	
<i>Double2d</i>	(description="Coverage map", quantity="s")

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

9.3.8. HPPNMAPRS: Photometer Naive Map Red Bolometer

<i>product</i> (type="HPPNMAPRS", description="NaiveMap")	
<i>Metadata</i>	
<i>StringParameter</i>	type (description="Product Type Identification")
<i>StringParameter</i>	creator (description="Generator of this product")
<i>DateParameter</i>	creationDate (description="Creation date of this product")
	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")
<i>array dataset</i>	(description="Image")
<i>Metadata</i>	
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")
<i>Double2d</i>	(description="Image", quantity="")
<i>array dataset</i>	(description="Error map, definition TBD")
<i>Metadata</i>	
<i>Double2d</i>	(description="Error map, definition TBD", quantity="")
<i>array dataset</i>	(description="Coverage map")
<i>Metadata</i>	
<i>Double2d</i>	(description="Coverage map", quantity="s")

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

9.3.9. HPPPMAPBS: Photometer PhotProject MAP Blue Bolometer

<i>product (type="HPPPMAPBS", description="Unknown")</i>	
<i>Metadata</i>	
<i>StringParameter</i>	type (description="Product Type Identification")
<i>StringParameter</i>	creator (description="Generator of this product")
<i>DateParameter</i>	creationDate (description="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")
<i>array dataset</i>	(description="Image")
<i>Metadata</i>	
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")
<i>Double2d</i>	(description="Image", quantity="")
<i>array dataset</i>	(description="Statistical error on the pixel values")
<i>Metadata</i>	
StringParameter	Description (description="null")

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

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9.3.10. HPPPMAPRS: Photometer PhotProject MAP Red Bolometer

<i>product (type="HPPPMAPRS", description="Unknown")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken")
<i>array dataset</i>	<i>(description="Image")</i>
<i>Metadata</i>	
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")
compos-ite	(description="History of product")
Metadata	
table dataset	(description="History as Jython script")
Metadata	
StringParameter	outvar (description="last output variable")
StringId	Lines (description="script lines", quantity="none")
table dataset	(description="History of tasks")
Metadata	
LongId	ID (description="Links the parameter and task table", quantity="none")
StringId	Name (description="The name of the task", quantity="none")
LongId	ExecDate (description="Time of execution (FINETIME)", quantity="none")
StringId	BuildVersion (description="The used HCSS build", quantity="none")
table dataset	(description="The parameters belonging to the task history")
Metadata	
LongId	TaskID (description="Links the parameter and task table", quantity="none")
StringId	Name (description="The name of the parameter", quantity="none")
StringId	Type (description="Type of parameter", quantity="none")

<i>StringId</i>	Value (description="String representation of the parameter value", quantity="none")
<i>BoolId</i>	IsDefault (description="True if the default value has been used", quantity="none")
<i>LongId</i>	IncTaskId (description="ID of the history of an included product", quantity="none")
<i>BoolId</i>	UserInput (description="Needs user input", quantity="none")
<i>StringId</i>	Class (description="Class of the parameter", quantity="none")
<i>StringId</i>	ProductType (description="Product Type for History", quantity="none")
<i>StringId</i>	ProductId (description="Human Readable Product Identifier 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.

<i>product (type="HPSRAWBS", description="Raw Ramps. Readouts stored in a TableDataset. ")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")

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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")

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

	<i>Int2d</i>	WASWITCHPOS (description="Give wavelength switch position (0,1,2)", quantity="none")
	<i>Int2d</i>	PIX (description="PIX counter for synchronisation to SPU housekeeping (CompressedEntHeader", quantity="none")
	<i>Int2d</i>	RCX (description="Raw Channel Index in CompressedEntHeader", quantity="none")
	<i>Int2d</i>	RESETCNT (description="Reset counter to identify frames belonging to a", quantity="none")
	<i>Int1d</i>	BLOCKIDX (description="Reference to the BlockTable entry", quantity="none")
<i>composite</i> (description="Mask data stored in a table")		
<i>Metadata</i>		
	LongParameter	number of rows (description="null")
	LongParameter	number of columns (description="null")
	LongParameter	number of resets (description="null")
	LongParameter	number of samples (description="null")
	StringParameter	camName (description="Name of the Camera")
	LongParameter	detRow (description="Number of detector rows")
	LongParameter	detCol (description="Number of detector columns")
<i>table dataset</i> (description="Mask data stored bit encoded in a table")		
<i>Metadata</i>		
	<i>Int1d</i>	detnum (description="null", quantity="none")
	<i>Int1d</i>	row (description="null", quantity="none")
	<i>Int1d</i>	column (description="null", quantity="none")
	<i>Int1d</i>	reset (description="null", quantity="none")
	<i>Int2d</i>	BLINDPIXELS (description="2 D Mask. \u000AMask that flags the blind pixel", quantity="none")

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

<i>product</i> (type="HPSRAWRS", description="Raw Ramps. Readouts stored in a TableDataset.")		
<i>Metadata</i>		
	StringParameter	type (description="Product Type Identification")
	StringParameter	creator (description="Generator of this product")
	DateParameter	creationDate (description="Creation date of this product")
	StringParameter	description (description="Name of this product")
	StringParameter	instrument (description="Instrument attached to this product")
	StringParameter	modelName (description="Model name attached to this product")
	DateParameter	startDate (description="Start date of this product")
	DateParameter	endDate (description="End date of this product")
	StringParameter	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")
<i>table dataset</i>	(description="Table for science data.")
<i>Metadata</i>	
<i>Int1d</i>	detnum (description="null", quantity="none")
<i>Int1d</i>	row (description="null", quantity="none")
<i>Int1d</i>	column (description="null", quantity="none")
<i>Int1d</i>	reset (description="null", quantity="none")
<i>Double2d</i>	readouts (description="null", quantity="none")
<i>table dataset</i>	(description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
LongParameter	DIM2 (description="Number of measures per status parameter")
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status parameter", quantity="none")
<i>Long1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Int1d</i>	BBID (description="Building block type", quantity="none")
<i>Int2d</i>	LBL (description="Label", quantity="none")
<i>Int2d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
<i>Int2d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
<i>Long2d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Bool2d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
<i>Int2d</i>	CPR (description="Chopper position", quantity="none")

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

9.4.3. HPSFITBS: Frames Blue

<i>product (type="HPSFITBS", description="Frames")</i>	
<i>Meta-data</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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	IWave (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")
<i>array</i> <i>dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="none")
<i>table</i> <i>dataset</i>	(description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status parameter", quantity="none")
<i>Long1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Long1d</i>	BBID (description="Building block type", quantity="none")
<i>Int1d</i>	TMP1 (description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")
<i>Int1d</i>	TMP2 (description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")
<i>Long1d</i>	FINETIME (description="Time [microsec] since epoch 1 Jan 1958", quantity="none")
<i>Int1d</i>	VLD (description="Validity flag set by DecMec", quantity="none")
<i>Int1d</i>	CPR (description="Chopper position", quantity="none")

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

<i>Bool1d</i>	IsOffPos (description="Off Position flag", quantity="none")
<i>Long1d</i>	ScanLineNumber (description="Scan Line number", quantity="none")
<i>String1d</i>	AcmsMode (description="ACMS mode", quantity="none")
<i>String1d</i>	Aperture (description="Aperture", quantity="none")
<i>Bool1d</i>	IsAPosition (description="is A position", quantity="none")
<i>Bool1d</i>	IsBPosition (description="is B position", quantity="none")
<i>Bool1d</i>	IsOutOfField (description="Is Out of Field", quantity="none")
<i>Bool1d</i>	IsSerendipity (description="is serendipity mode", quantity="none")
<i>Int1d</i>	RollArray (description="roll", quantity="none")
<i>Double1d</i>	CHOPFPUANGLE (description="chopper angle in degrees wrt. FPU", quantity="none")
<i>Double1d</i>	CHOPSKYANGLE (description="chopper angle in arc mins wrt. sky", quantity="none")
<i>Double1d</i>	VSC (description="S/C Velocity (positive means moving towards sou", quantity="km/s [1000.0 m/s])")
<i>Int1d</i>	GRATSCAN (description="counter of grating scans", quantity="none")
<i>Int1d</i>	CHOPPER (description="or combination of CHOPPERPLATEAU and CAL-SOURCE", quantity="none")
<i>String1d</i>	CHOPPOS (description="verbal description of chopper position from cal", quantity="none")
<i>Int2d</i>	LBL2 (description="Merged labels from ON/OFF data", quantity="none")
<i>Int1d</i>	OFF_RESETIDX (description="Reset indices of the used off-source frames", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="none")
<i>table dataset</i>	(description="BlockTable")
<i>Metadata</i>	
<i>StringParameter</i>	MODE (description="PACS Mode")
<i>Int1d</i>	Obcp (description="OBCP", quantity="none")
<i>Int1d</i>	DMSActive (description="Dec Mec Sequence Active", quantity="none")
<i>Int1d</i>	ChopperPlateau (description="Chopper Plateau", quantity="none")
<i>Int1d</i>	CalSource (description="Calibration Source", quantity="none")
<i>Int1d</i>	Filter (description="Filter", quantity="none")
<i>Int1d</i>	StartIdx (description="Start Index", quantity="none")
<i>Int1d</i>	EndIdx (description="End Index (NOT INCLUSIVE)", quantity="none")
<i>Int1d</i>	NrIdx (description="Number of Indexes", quantity="none")
<i>Double1d</i>	Raster (description="Raster Position", quantity="none")
<i>String1d</i>	Id (description="Block ID", quantity="none")
<i>String1d</i>	Description (description="Verbose Description", quantity="none")
<i>Int1d</i>	OnSource (description="On-Source Label", quantity="none")

<i>Int1d</i>	OffSource1 (description="First Off-Source Label", quantity="none")
<i>Int1d</i>	OffSource2 (description="Second Off-Source Label", quantity="none")
<i>Int1d</i>	NoddingPosition (description="Nodding position (0 = None, 1 = A, 2 = B)", quantity="none")
<i>Int1d</i>	NodCycleNum (description="Nodding cycle number", quantity="none")
<i>Int1d</i>	RasterColumnNum (description="Raster column number", quantity="none")
<i>Int1d</i>	RasterLineNum (description="Raster line number", quantity="none")
<i>Int1d</i>	ScanDir (description="Scan Direction", quantity="none")
<i>Int1d</i>	WaSwitch (description="Wavelength switch active", quantity="none")
<i>Int1d</i>	GPRMin (description="Minimum grating position", quantity="none")
<i>Int1d</i>	GPRMax (description="Maximum grating position", quantity="none")
<i>Int1d</i>	ResLen (description="Reset length", quantity="none")
<i>Int1d</i>	LineId (description="Line Index as determined from grating position", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Bool2d</i>	(description="null", quantity="none")
<i>com-posite</i>	(description="Mask data stored in bit encoded arrays")
<i>Metadata</i>	
<i>LongParameter</i>	number of rows (description="null")
<i>LongParameter</i>	number of columns (description="null")
<i>LongParameter</i>	number of resets (description="null")
<i>LongParameter</i>	number of samples (description="null")
<i>StringParameter</i>	camName (description="Name of the Camera")
<i>LongParameter</i>	detRow (description="Number of detector rows")
<i>LongParameter</i>	detCol (description="Number of detector columns")
<i>array dataset</i>	(description="Mask that flags the blind pixels This masks processing status")
<i>Metadata</i>	
<i>LongParameter</i>	Mask dimension (description="null")
<i>LongParameter</i>	number of rows (description="null")
<i>LongParameter</i>	number of columns (description="null")
<i>LongParameter</i>	number of resets (description="null")

LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="Mask that flags the blind pixels This masks processing status", quantity="none")
<i>array dataset</i>	(description="warning on high signals, possible saturation This masks proce")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="warning on high signals, possible saturation This masks proce", quantity="none")
<i>array dataset</i>	(description="Bad pixels This masks processing status is "activated".")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="Bad pixels This masks processing status is "activated".", quantity="none")
<i>array dataset</i>	(description="frames that are affected by the chopper transitions This mask")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")

<i>Int3d</i>	(description="frames that are affected by the chopper transitions This mask", quantity="none")
<i>array dataset</i>	(description="frames that are affected by the grating movements This masks ")
<i>Metadata</i>	
<i>LongParameter</i>	Mask dimension (description="null")
<i>LongParameter</i>	number of rows (description="null")
<i>LongParameter</i>	number of columns (description="null")
<i>LongParameter</i>	number of resets (description="null")
<i>LongParameter</i>	number of samples (description="null")
<i>Int3d</i>	(description="frames that are affected by the grating movements This masks ", quantity="none")
<i>array dataset</i>	(description="glitches, Responsivity Jumps This masks processing status is ")
<i>Metadata</i>	
<i>LongParameter</i>	Mask dimension (description="null")
<i>LongParameter</i>	number of rows (description="null")
<i>LongParameter</i>	number of columns (description="null")
<i>LongParameter</i>	number of resets (description="null")
<i>LongParameter</i>	number of samples (description="null")
<i>Int3d</i>	(description="glitches, Responsivity Jumps This masks processing status is ", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="none")
<i>composite</i>	(description="History of product")
<i>Metadata</i>	

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

9.4.4. HPSFITRS: Frames Red

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

StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="none")
<i>table dataset</i>	(description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")

LongParameter	DIM1 (description="Number of measures per status parameter")
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")

PACS Observation Products

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

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<i>Int1d</i>	ChopperPlateau (description="Chopper Plateau", quantity="none")
<i>Int1d</i>	CalSource (description="Calibration Source", quantity="none")
<i>Int1d</i>	Filter (description="Filter", quantity="none")
<i>Int1d</i>	StartIdx (description="Start Index", quantity="none")
<i>Int1d</i>	EndIdx (description="End Index (NOT INCLUSIVE)", quantity="none")
<i>Int1d</i>	NrIdx (description="Number of Indexes", quantity="none")
<i>Double1d</i>	Raster (description="Raster Position", quantity="none")
<i>String1d</i>	Id (description="Block ID", quantity="none")
<i>String1d</i>	Description (description="Verbose Description", quantity="none")
<i>Int1d</i>	OnSource (description="On-Source Label", quantity="none")
<i>Int1d</i>	OffSource1 (description="First Off-Source Label", quantity="none")
<i>Int1d</i>	OffSource2 (description="Second Off-Source Label", quantity="none")
<i>Int1d</i>	NoddingPosition (description="Nodding position (0 = None, 1 = A, 2 = B)", quantity="none")
<i>Int1d</i>	NodCycleNum (description="Nodding cycle number", quantity="none")
<i>Int1d</i>	RasterColumnNum (description="Raster column number", quantity="none")
<i>Int1d</i>	RasterLineNum (description="Raster line number", quantity="none")
<i>Int1d</i>	ScanDir (description="Scan Direction", quantity="none")
<i>Int1d</i>	WaSwitch (description="Wavelength switch active", quantity="none")
<i>Int1d</i>	GPRMin (description="Minimum grating position", quantity="none")
<i>Int1d</i>	GPRMax (description="Maximum grating position", quantity="none")
<i>Int1d</i>	ResLen (description="Reset length", quantity="none")
<i>Int1d</i>	LineId (description="Line Index as determined from grating position", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Bool2d</i>	(description="null", quantity="none")
<i>com-posite</i>	(description="Mask data stored in bit encoded arrays")
<i>Metadata</i>	
<i>LongParameter</i>	number of rows (description="null")
<i>LongParameter</i>	number of columns (description="null")
<i>LongParameter</i>	number of resets (description="null")
<i>LongParameter</i>	number of samples (description="null")
<i>StringParameter</i>	camName (description="Name of the Camera")
<i>LongParameter</i>	detRow (description="Number of detector rows")
<i>LongParameter</i>	detCol (description="Number of detector columns")
<i>array dataset</i>	(description="Mask that flags the blind pixels")
<i>Metadata</i>	
<i>LongParameter</i>	Mask dimension (description="null")
<i>LongParameter</i>	number of rows (description="null")

LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="Mask that flags the blind pixels", quantity="none")
<i>array</i> <i>dataset</i>	(description="warning on high signals, possible saturation")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="warning on high signals, possible saturation", quantity="none")
<i>array</i> <i>dataset</i>	(description="Bad pixels")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="Bad pixels", quantity="none")
<i>array</i> <i>dataset</i>	(description="frames that are affected by the chopper transitions")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="frames that are affected by the chopper transitions", quantity="none")
<i>array</i> <i>dataset</i>	(description="frames that are affected by the grating movements")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="frames that are affected by the grating movements", quantity="none")
<i>array</i> <i>dataset</i>	(description="null")

<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="none")

9.4.5. HPSDMCBS: Raw DecMec Status Blue

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

<i>product (type="HPSDMCRS", description="Unknown")</i>			
<i>Metadata</i>			
StringParameter	type	(description="Product Type Identification")	
StringParameter	creator	(description="Generator of this product")	
DateParameter	creationDate	(description="Creation date of this product")	
StringParameter	description	(description="Name of this product")	
StringParameter	instrument	(description="Instrument attached to this product")	
StringParameter	modelName	(description="Model name attached to this product")	
DateParameter	startDate	(description="Start date of this product")	
DateParameter	endDate	(description="End date of this product")	
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")	
<i>table dataset (description="Status")</i>			
<i>Metadata</i>			
StringParameter	MODE	(description="null")	
LongParameter	DIM1	(description="Number of measures per status parameter")	
LongParameter	DIM2	(description="Number of measures per status parameter")	
<i>Int1d</i>	RESETINDEX	(description="Indicates the reset index of the status paramet", quantity="none")	
<i>Int1d</i>	OBSID	(description="Identifier of the observation", quantity="none")	
<i>Int1d</i>	BBID	(description="Building block type", quantity="none")	
<i>Int2d</i>	LBL	(description="Label", quantity="none")	
<i>Int2d</i>	TMP1	(description="Time 1 field - Number of microseconds since epoch 1 Jan 1958 (0 <= coarse < 2^32)", quantity="none")	
<i>Int2d</i>	TMP2	(description="Time 2 field- Number of 1/65536 fractional seconds (0 <= fine < 2^16)", quantity="none")	
<i>Long2d</i>	FINETIME	(description="Time [microsec] since epoch 1 Jan 1958", quantity="none")	
<i>Int2d</i>	VLD	(description="Validity flag set by DecMec", quantity="none")	
<i>Int2d</i>	CPR	(description="Chopper position", quantity="none")	
<i>Int2d</i>	WPR	(description="Filter wheel Position", quantity="none")	
<i>Int2d</i>	GPR	(description="Grating Position", quantity="none")	
<i>Int2d</i>	CRCRMP	(description="Readout counter within an integration ramp", quantity="none")	
<i>Int2d</i>	RRR	(description="Readouts in Ramp", quantity="none")	
<i>Int2d</i>	CRDC	(description="Current Readout counter since last time reset", quantity="none")	
<i>Int2d</i>	CRECR	(description="CRE status word", quantity="none")	

9.4.7. HPSHK: Spectrometer Nominal Housekeeping

<i>product</i> (type="HPSHK", description="HPSHKS")	
<i>Metadata</i>	
StringParameter	type (description="null")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="PACS Level 0 Product")
StringParameter	modelName (description="Model")
DateParameter	startDate (description="Start Date")
DateParameter	endDate (description="End Date")
StringParameter	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")
<i>table dataset</i> (description="Generated from PacketSequence \$Revision: 1.4 \$")	
<i>Metadata</i>	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
LongId	Time (description="Time [microseconds]", quantity="microsecond [1.0E-6 s]")
LongId	DM_DSIM_ERROR (description="DM_DSIM_ERROR [raw]", quantity="none")
StringId	DM_CS1C_SYNCHRO (description="DM_CS1C_SYNCHRO", quantity="none")
LongId	DP_1_8_REJECTED (description="DP_1_8_REJECTED [raw]", quantity="none")
LongId	SPL_PIX (description="SPL_PIX [raw]", quantity="none")
LongId	DM_DECB_DCDC_T4 (description="DM_DECB_DCDC_T4 [raw]", quantity="none")
DoubleId	DM_DECB_BR_CM_4 (description="DM_DECB_BR_CM_4 [eng, V]", quantity="none")
LongId	SPS_LLC_ERROR (description="SPS_LLC_ERROR [raw]", quantity="none")
DoubleId	DM_DECB_BR_CM_3 (description="DM_DECB_BR_CM_3 [eng, V]", quantity="none")
DoubleId	DM_DECB_DCDC_T3 (description="DM_DECB_DCDC_T3 [eng, K]", quantity="none")
StringId	DP_DMC_CMD (description="DP_DMC_CMD", quantity="none")
StringId	DM_FPU_CH_TS_ST (description="DM_FPU_CH_TS_ST", quantity="none")
StringId	

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

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

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<i>LongId</i>	DM_LAST_ER_BF13 (description="DM_LAST_ER_BF13 [raw]", quantity="none")
<i>DoubleId</i>	DM_CS2_TARGET (description="DM_CS2_TARGET [eng, Ohm]", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_WR (description="DM_DPUR_TASK_WR", quantity="none")
<i>LongId</i>	DM_CHOP_PID_ERR (description="DM_CHOP_PID_ERR [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_VWELL_4 (description="DM_DECB_VWELL_4 [eng, V]", quantity="none")
<i>LongId</i>	DP_COM_SPS_PACK (description="DP_COM_SPS_PACK [raw]", quantity="none")
<i>DoubleId</i>	DP_VOL_5P (description="DP_VOL_5P [eng, V]", quantity="none")
<i>StringId</i>	DM_CS2C_TASK_WR (description="DM_CS2C_TASK_WR", quantity="none")
<i>LongId</i>	DM_PLL_RES_LO (description="DM_PLL_RES_LO [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_LINK (description="DM_DPUS_LINK", quantity="none")
<i>DoubleId</i>	DP_VOL_25P (description="DP_VOL_25P [eng, V]", quantity="none")
<i>LongId</i>	DP_COM_DMC_NACK (description="DP_COM_DMC_NACK [raw]", quantity="none")
<i>StringId</i>	DM_CR2_ST_CS (description="DM_CR2_ST_CS", quantity="none")
<i>StringId</i>	DM_GC_SYNCHRO (description="DM_GC_SYNCHRO", quantity="none")
<i>StringId</i>	DM_FWPC_POSC_B (description="DM_FWPC_POSC_B", quantity="none")
<i>StringId</i>	DM_FWPC_POSC_A (description="DM_FWPC_POSC_A", quantity="none")
<i>DoubleId</i>	DM_DECB_VWELL_3 (description="DM_DECB_VWELL_3 [eng, V]", quantity="none")
<i>StringId</i>	DP_INIT (description="DP_INIT", quantity="none")
<i>LongId</i>	DM_BLUE_PAC_ENC (description="DM_BLUE_PAC_ENC [raw]", quantity="none")
<i>StringId</i>	DM_CR3_ST_CUR (description="DM_CR3_ST_CUR", quantity="none")
<i>StringId</i>	DM_FWSC_ERR_NS (description="DM_FWSC_ERR_NS", quantity="none")
<i>StringId</i>	DM_CC_COMMUT (description="DM_CC_COMMUT", quantity="none")
<i>StringId</i>	DM_CS2C_PID (description="DM_CS2C_PID", quantity="none")
<i>StringId</i>	DM_DBC_TASK_AL (description="DM_DBC_TASK_AL", quantity="none")
<i>LongId</i>	DM_HK_DIAG_PERI (description="DM_HK_DIAG_PERI [raw]", quantity="none")

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<i>LongId</i>	SPL_MEM_CNTS (description="SPL_MEM_CNTS [raw]", quantity="none")
<i>LongId</i>	SPL_SUBVERSION (description="SPL_SUBVERSION [raw]", quantity="none")
<i>StringId</i>	DM_CR2_ST_HE (description="DM_CR2_ST_HE", quantity="none")
<i>LongId</i>	DM_DBR_ERROR (description="DM_DBR_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_IGND_4 (description="DM_DECB_IGND_4 [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_IGND_3 (description="DM_DECB_IGND_3 [eng, mA]", quantity="none")
<i>LongId</i>	DM_CR3_ST_SP2 (description="DM_CR3_ST_SP2 [raw]", quantity="none")
<i>LongId</i>	DM_DECR_CR_ST_2 (description="DM_DECR_CR_ST_2 [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_HEA (description="DP_EV_BOL_I_HEA", quantity="none")
<i>LongId</i>	DM_DECR_CR_ST_1 (description="DM_DECR_CR_ST_1 [raw]", quantity="none")
<i>StringId</i>	DM_CR2_ST_SEL (description="DM_CR2_ST_SEL", quantity="none")
<i>StringId</i>	DP_EV_BOL_BIAS (description="DP_EV_BOL_BIAS", quantity="none")
<i>DoubleId</i>	DM_SPU_LWL_TEMP (description="DM_SPU_LWL_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_CR4_NDS (description="DM_CR4_NDS", quantity="none")
<i>LongId</i>	DM_CR3_ST_SP1 (description="DM_CR3_ST_SP1 [raw]", quantity="none")
<i>StringId</i>	DM_CC_PID (description="DM_CC_PID", quantity="none")
<i>LongId</i>	DP_EVENT_LOST (description="DP_EVENT_LOST [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_VP_CUR (description="DM_SPU_VP_CUR [eng, mA]", quantity="none")
<i>LongId</i>	DM_CC_SPARE1B (description="DM_CC_SPARE1B [raw]", quantity="none")
<i>LongId</i>	DP_COM_REC_DPU (description="DP_COM_REC_DPU [raw]", quantity="none")
<i>StringId</i>	DM_CR1_ST_CUR (description="DM_CR1_ST_CUR", quantity="none")
<i>LongId</i>	DM_CC_SPARE1A (description="DM_CC_SPARE1A [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_ERR_NS (description="DM_DPUS_ERR_NS", quantity="none")
<i>LongId</i>	DP_SW_SUBVERS_ID (description="DP_SW_SUBVERS_ID [raw]", quantity="none")
<i>StringId</i>	DM_CR2_NDS (description="DM_CR2_NDS", quantity="none")

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<i>DoubleId</i>	DM_DECB_ZB_CM_3 (description="DM_DECB_ZB_CM_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_DBC_TASK_WR (description="DM_DBC_TASK_WR", quantity="none")
<i>DoubleId</i>	DM_DECB_ZB_CM_4 (description="DM_DECB_ZB_CM_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR1_ST_SIM (description="DM_CR1_ST_SIM", quantity="none")
<i>DoubleId</i>	DM_DECR_BR_CM_1 (description="DM_DECR_BR_CM_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_BR_CM_2 (description="DM_DECR_BR_CM_2 [eng, V]", quantity="none")
<i>LongId</i>	SPS_RCX (description="SPS_RCX [raw]", quantity="none")
<i>StringId</i>	DM_CS1C_DOWN (description="DM_CS1C_DOWN", quantity="none")
<i>StringId</i>	DM_FWSC_MOVING (description="DM_FWSC_MOVING", quantity="none")
<i>LongId</i>	DM_SEQ_LABEL (description="DM_SEQ_LABEL [raw]", quantity="none")
<i>StringId</i>	DP_UNIT (description="DP_UNIT", quantity="none")
<i>DoubleId</i>	DM_DECR_FLASH_V (description="DM_DECR_FLASH_V [eng, V]", quantity="none")
<i>LongId</i>	SPS_PAR_MONITOR (description="SPS_PAR_MONITOR [raw]", quantity="none")
<i>StringId</i>	DM_DBR_TASK_AL (description="DM_DBR_TASK_AL", quantity="none")
<i>LongId</i>	DM_SEQ_ERROR (description="DM_SEQ_ERROR [raw]", quantity="none")
<i>LongId</i>	DM_DET_SIM_PER (description="DM_DET_SIM_PER [raw]", quantity="none")
<i>DoubleId</i>	DM_CAL_SRC_TEMP (description="DM_CAL_SRC_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_DSIM_R_SIMUL (description="DM_DSIM_R_SIMUL", quantity="none")
<i>StringId</i>	DM_DBC_ERR_NS (description="DM_DBC_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_DECR_TS_2_1 (description="DM_DECR_TS_2_1 [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECR_TS_2_2 (description="DM_DECR_TS_2_2 [eng, K]", quantity="none")
<i>StringId</i>	DM_CR1_NDS (description="DM_CR1_NDS", quantity="none")
<i>StringId</i>	DM_DRC_POWER (description="DM_DRC_POWER", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_WR (description="DM_SEQ_TASK_WR", quantity="none")
<i>LongId</i>	DM_DECB_CL_RO_4 (description="DM_DECB_CL_RO_4 [raw]", quantity="none")

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

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

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

<i>StringId</i>	DM_FPU_S1_TS_ST (description="DM_FPU_S1_TS_ST", quantity="none")
<i>StringId</i>	DM_BC_TASK_AL (description="DM_BC_TASK_AL", quantity="none")
<i>LongId</i>	DM_DECB_CR_ST_3 (description="DM_DECB_CR_ST_3 [raw]", quantity="none")
<i>LongId</i>	DP_COM_SPS_NACK (description="DP_COM_SPS_NACK [raw]", quantity="none")
<i>LongId</i>	DM_DECB_CR_ST_4 (description="DM_DECB_CR_ST_4 [raw]", quantity="none")
<i>StringId</i>	DM_BC_ERR_NS (description="DM_BC_ERR_NS", quantity="none")
<i>StringId</i>	DM_DBC_POWER (description="DM_DBC_POWER", quantity="none")
<i>LongId</i>	DM_RED_PAC_ENC (description="DM_RED_PAC_ENC [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDD_2 (description="DM_DECR_VDDD_2 [eng, V]", quantity="none")
<i>LongId</i>	DM_DBC_SPARE3 (description="DM_DBC_SPARE3 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDD_1 (description="DM_DECR_VDDD_1 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_FPU_T2_TEMP (description="DM_FPU_T2_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_FWPC_POS_B (description="DM_FWPC_POS_B", quantity="none")
<i>StringId</i>	DM_FWPC_POS_A (description="DM_FWPC_POS_A", quantity="none")
<i>LongId</i>	DM_CS1C_ERROR (description="DM_CS1C_ERROR [raw]", quantity="none")
<i>LongId</i>	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
<i>StringId</i>	DP_EV_DEC_SPC (description="DP_EV_DEC_SPC", quantity="none")
<i>StringId</i>	DM_GC_HOM_COMP (description="DM_GC_HOM_COMP", quantity="none")
<i>StringId</i>	DP_EVENT_DEC (description="DP_EVENT_DEC", quantity="none")
<i>LongId</i>	DM_CR1_ST_SP1 (description="DM_CR1_ST_SP1 [raw]", quantity="none")
<i>LongId</i>	DM_CR1_ST_SP2 (description="DM_CR1_ST_SP2 [raw]", quantity="none")
<i>LongId</i>	DP_COM_DMC (description="DP_COM_DMC [raw]", quantity="none")
<i>LongId</i>	DM_FWSC_SPARE1A (description="DM_FWSC_SPARE1A [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_MOVING (description="DM_FWPC_MOVING", quantity="none")

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<i>StringId</i>	DP_EV_BOL_T_WE (description="DP_EV_BOL_T_WE", quantity="none")
<i>StringId</i>	DM_CC_DOWN (description="DM_CC_DOWN", quantity="none")
<i>StringId</i>	DM_CR3_ST_RA (description="DM_CR3_ST_RA", quantity="none")
<i>DoubleId</i>	DM_DCDC_TEMP (description="DM_DCDC_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_HKD_DIAGMODE (description="DM_HKD_DIAGMODE", quantity="none")
<i>StringId</i>	DM_CS2C_TASK_AL (description="DM_CS2C_TASK_AL", quantity="none")
<i>StringId</i>	DM_DRR_LINK (description="DM_DRR_LINK", quantity="none")
<i>StringId</i>	DP_AF_24_SPARE (description="DP_AF_24_SPARE", quantity="none")
<i>StringId</i>	DP_1553CHANNEL (description="DP_1553CHANNEL", quantity="none")
<i>DoubleId</i>	DM_FW_SPEC_TEMP (description="DM_FW_SPEC_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_CR4_ST_SIM (description="DM_CR4_ST_SIM", quantity="none")
<i>LongId</i>	DM_FWPC_SPARE4 (description="DM_FWPC_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_DBR_SENDING (description="DM_DBR_SENDING", quantity="none")
<i>StringId</i>	DM_DRR_TASK_AL (description="DM_DRR_TASK_AL", quantity="none")
<i>LongId</i>	DM_SEQ_SPARE1 (description="DM_SEQ_SPARE1 [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_SPARE2 (description="DM_SEQ_SPARE2 [raw]", quantity="none")
<i>StringId</i>	DM_GC_PID (description="DM_GC_PID", quantity="none")
<i>StringId</i>	DM_GC_POWER (description="DM_GC_POWER", quantity="none")
<i>LongId</i>	DM_DPUS_ERROR (description="DM_DPUS_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_CS1_RES_VAL (description="DM_CS1_RES_VAL [eng, Ohm]", quantity="none")
<i>StringId</i>	DM_BSPU_TR_MODE (description="DM_BSPU_TR_MODE", quantity="none")
<i>StringId</i>	DM_DRC_TASK_WR (description="DM_DRC_TASK_WR", quantity="none")
<i>LongId</i>	DP_COM_SPUS (description="DP_COM_SPUS [raw]", quantity="none")
<i>StringId</i>	DM_CC_ERR_NS (description="DM_CC_ERR_NS", quantity="none")
<i>LongId</i>	DM_DECB_SR_RB_3 (description="DM_DECB_SR_RB_3 [raw]", quantity="none")

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<i>LongId</i>	DP_COM_SPUL (description="DP_COM_SPUL [raw]", quantity="none")
<i>StringId</i>	DM_DSIM_TIME (description="DM_DSIM_TIME", quantity="none")
<i>LongId</i>	DM_DECB_SR_RB_4 (description="DM_DECB_SR_RB_4 [raw]", quantity="none")
<i>LongId</i>	DM_HKD_SPARE3 (description="DM_HKD_SPARE3 [raw]", quantity="none")
<i>LongId</i>	DP_AF_STATUS (description="DP_AF_STATUS [raw]", quantity="none")
<i>LongId</i>	DM_DSIM_SPARE1B (description="DM_DSIM_SPARE1B [raw]", quantity="none")
<i>LongId</i>	DM_DSIM_SPARE1A (description="DM_DSIM_SPARE1A [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_TASK_AL (description="DM_DPUS_TASK_AL", quantity="none")
<i>LongId</i>	DP_SPARE (description="DP_SPARE [raw]", quantity="none")
<i>LongId</i>	DM_CC_SPARE4 (description="DM_CC_SPARE4 [raw]", quantity="none")
<i>StringId</i>	DM_CR2_ST_CUR (description="DM_CR2_ST_CUR", quantity="none")
<i>StringId</i>	DM_BR_ERR_NS (description="DM_BR_ERR_NS", quantity="none")
<i>LongId</i>	DM_PM_DF_IND (description="DM_PM_DF_IND [raw]", quantity="none")
<i>LongId</i>	DM_DPUR_ERROR (description="DM_DPUR_ERROR [raw]", quantity="none")
<i>DoubleId</i>	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")
<i>LongId</i>	DM_BOL_REC_STAT (description="DM_BOL_REC_STAT [raw]", quantity="none")
<i>StringId</i>	DM_BPE_ERR_NS (description="DM_BPE_ERR_NS", quantity="none")
<i>LongId</i>	DM_IRS_CNT (description="DM_IRS_CNT [raw]", quantity="none")
<i>LongId</i>	SPS_INTEG_RAMPS (description="SPS_INTEG_RAMPS [raw]", quantity="none")
<i>LongId</i>	DM_CHOP_CUR_POS (description="DM_CHOP_CUR_POS [raw]", quantity="none")
<i>LongId</i>	DM_HKD_SPARE1 (description="DM_HKD_SPARE1 [raw]", quantity="none")
<i>LongId</i>	DM_DECR_RO_CO_1 (description="DM_DECR_RO_CO_1 [raw]", quantity="none")
<i>StringId</i>	DM_GC_COMMUT (description="DM_GC_COMMUT", quantity="none")
<i>LongId</i>	DM_GRAT_SETPOIN (description="DM_GRAT_SETPOIN [raw]", quantity="none")

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

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<i>DoubleId</i>	DM_DECB_VDDD_3 (description="DM_DECB_VDDD_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_MIM_ST (description="DM_MIM_ST [raw]", quantity="none")
<i>LongId</i>	DP_COM_REJ_DPU (description="DP_COM_REJ_DPU [raw]", quantity="none")
<i>LongId</i>	DM_FW_PHOT_CTRL (description="DM_FW_PHOT_CTRL [raw]", quantity="none")
<i>LongId</i>	HD_APIID (description="HD_APIID [raw]", quantity="none")
<i>StringId</i>	DM_CS2C_DOWN (description="DM_CS2C_DOWN", quantity="none")
<i>StringId</i>	DM_CS1C_COMMUT (description="DM_CS1C_COMMUT", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_FPU (description="DP_EV_BOL_I_FPU", quantity="none")
<i>LongId</i>	DM_DECB_REC_STA (description="DM_DECB_REC_STA [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV (description="BOL_TEMP_EV [eng, K]", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_WR (description="DM_HKCO_TASK_WR", quantity="none")
<i>LongId</i>	SPL_VID (description="SPL_VID [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_SWL_TEMP (description="DM_SPU_SWL_TEMP [eng, K]", quantity="none")
<i>LongId</i>	DP_SPUL_LINK_PE (description="DP_SPUL_LINK_PE [raw]", quantity="none")
<i>StringId</i>	DP_SPS_LINK (description="DP_SPS_LINK", quantity="none")
<i>StringId</i>	DM_CS2C_SYNCHRO (description="DM_CS2C_SYNCHRO", quantity="none")
<i>StringId</i>	DM_FPU_S2_TS_ST (description="DM_FPU_S2_TS_ST", quantity="none")
<i>LongId</i>	DM_HK_CTRL_STAT (description="DM_HK_CTRL_STAT [raw]", quantity="none")
<i>LongId</i>	DM_GRAT_CTRL_ST (description="DM_GRAT_CTRL_ST [raw]", quantity="none")
<i>LongId</i>	DM_DBR_SPARE2 (description="DM_DBR_SPARE2 [raw]", quantity="none")
<i>StringId</i>	DM_CS1C_PID (description="DM_CS1C_PID", quantity="none")
<i>LongId</i>	DM_CHOP_PID_ACC (description="DM_CHOP_PID_ACC [raw]", quantity="none")
<i>DoubleId</i>	DM_SPU_VCC_CUR (description="DM_SPU_VCC_CUR [eng, A]", quantity="none")
<i>LongId</i>	DM_DECR_CTRL_PA (description="DM_DECR_CTRL_PA [raw]", quantity="none")
<i>DoubleId</i>	DM_FW_PHOT_TEMP (description="DM_FW_PHOT_TEMP [eng, K]", quantity="none")
<i>LongId</i>	SPL_SAMP_CORR (description="SPL_SAMP_CORR [raw]", quantity="none")

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

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

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<i>LongId</i>	DM_LAST_ER_BF9 (description="DM_LAST_ER_BF9 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_2 (description="BOL_PWR_DIG_2 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_1 (description="BOL_PWR_DIG_1 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_4 (description="BOL_PWR_DIG_4 [eng, V]", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_AL (description="DM_SEQ_TASK_AL", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_3 (description="BOL_PWR_DIG_3 [eng, V]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_6 (description="BOL_PWR_DIG_6 [eng, V]", quantity="none")
<i>StringId</i>	DM_CS1C_TASK_WR (description="DM_CS1C_TASK_WR", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_5 (description="BOL_PWR_DIG_5 [eng, V]", quantity="none")
<i>LongId</i>	DM_FPU_T_SEN_ST (description="DM_FPU_T_SEN_ST [raw]", quantity="none")
<i>LongId</i>	DM_BOL_STATUS (description="DM_BOL_STATUS [raw]", quantity="none")
<i>StringId</i>	DM_CR3_ST_HE (description="DM_CR3_ST_HE", quantity="none")
<i>StringId</i>	DM_BR_SIM_TIME (description="DM_BR_SIM_TIME", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF2 (description="DM_LAST_ER_BF2 [raw]", quantity="none")
<i>LongId</i>	SPS_SUBVERSION (description="SPS_SUBVERSION [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_7 (description="BOL_PWR_DIG_7 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF1 (description="DM_LAST_ER_BF1 [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_WAIT_IND (description="DM_SEQ_WAIT_IND [raw]", quantity="none")
<i>LongId</i>	DM_CR2_ST_SP1 (description="DM_CR2_ST_SP1 [raw]", quantity="none")
<i>LongId</i>	DM_DET_SIM_STAT (description="DM_DET_SIM_STAT [raw]", quantity="none")
<i>LongId</i>	DM_CR2_ST_SP2 (description="DM_CR2_ST_SP2 [raw]", quantity="none")
<i>StringId</i>	DM_FPU_FWP_TS_S (description="DM_FPU_FWP_TS_S", quantity="none")
<i>LongId</i>	DP_1_2_REJECTED (description="DP_1_2_REJECTED [raw]", quantity="none")
<i>StringId</i>	DM_CR1_ST_TE (description="DM_CR1_ST_TE", quantity="none")

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

<i>LongId</i>	DM_FWSC_SPARE4 (description="DM_FWSC_SPARE4 [raw]", quantity="none")
<i>LongId</i>	DM_DRC_SPARE3 (description="DM_DRC_SPARE3 [raw]", quantity="none")
<i>LongId</i>	DM_GC_ERROR (description="DM_GC_ERROR [raw]", quantity="none")
<i>StringId</i>	DM_DPUR_TASK_AL (description="DM_DPUR_TASK_AL", quantity="none")
<i>StringId</i>	DM_BC_TASK_WR (description="DM_BC_TASK_WR", quantity="none")
<i>StringId</i>	DP_SPL_LINK (description="DP_SPL_LINK", quantity="none")
<i>DoubleId</i>	DM_DECR_IDDA_2 (description="DM_DECR_IDDA_2 [eng, mA]", quantity="none")
<i>StringId</i>	DM_FWPC_SEARCHA (description="DM_FWPC_SEARCHA", quantity="none")
<i>DoubleId</i>	DM_DECB_REF_0V3 (description="DM_DECB_REF_0V3 [eng, V]", quantity="none")
<i>LongId</i>	DM_ISR_STAT (description="DM_ISR_STAT [raw]", quantity="none")
<i>StringId</i>	DM_FWPC_SEARCHB (description="DM_FWPC_SEARCHB", quantity="none")
<i>DoubleId</i>	DM_DECB_REF_0V4 (description="DM_DECB_REF_0V4 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_IDDA_1 (description="DM_DECR_IDDA_1 [eng, mA]", quantity="none")
<i>LongId</i>	DM_DECB_TS_ST_3 (description="DM_DECB_TS_ST_3 [raw]", quantity="none")
<i>LongId</i>	DM_DECB_TS_ST_4 (description="DM_DECB_TS_ST_4 [raw]", quantity="none")
<i>LongId</i>	DM_DECR_REC_STA (description="DM_DECR_REC_STA [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_V0V_1 (description="DM_DECR_V0V_1 [eng, V]", quantity="none")
<i>StringId</i>	DM_GC_ERR_NS (description="DM_GC_ERR_NS", quantity="none")
<i>DoubleId</i>	DM_DECR_VDDR_2 (description="DM_DECR_VDDR_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECR_V0V_2 (description="DM_DECR_V0V_2 [eng, V]", quantity="none")
<i>StringId</i>	DM_CR1_ST_POW (description="DM_CR1_ST_POW", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDA_3 (description="DM_DECB_VDDA_3 [eng, V]", quantity="none")
<i>StringId</i>	DM_DBR_SIM_TIME (description="DM_DBR_SIM_TIME", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDA_4 (description="DM_DECB_VDDA_4 [eng, V]", quantity="none")

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

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

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

<i>DoubleId</i>	DM_DECB_VDDR_4 (description="DM_DECB_VDDR_4 [eng, V]", quantity="none")
<i>LongId</i>	DM_DECR_REC_PAC (description="DM_DECR_REC_PAC [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_VDDR_3 (description="DM_DECB_VDDR_3 [eng, V]", quantity="none")
<i>LongId</i>	DM_DECB_RA_CO_3 (description="DM_DECB_RA_CO_3 [raw]", quantity="none")
<i>StringId</i>	DM_BPE_TASK_WR (description="DM_BPE_TASK_WR", quantity="none")
<i>LongId</i>	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
<i>StringId</i>	DM_TS_2_ST_2 (description="DM_TS_2_ST_2", quantity="none")
<i>DoubleId</i>	DM_DECR_HEAT_V (description="DM_DECR_HEAT_V [eng, V]", quantity="none")
<i>StringId</i>	DM_TS_2_ST_1 (description="DM_TS_2_ST_1", quantity="none")
<i>StringId</i>	DM_TS_2_ST_4 (description="DM_TS_2_ST_4", quantity="none")
<i>StringId</i>	DM_TS_2_ST_3 (description="DM_TS_2_ST_3", quantity="none")
<i>LongId</i>	DM_CHOP_CTRL_ST (description="DM_CHOP_CTRL_ST [raw]", quantity="none")
<i>StringId</i>	DP_SPUL_LINK (description="DP_SPUL_LINK", quantity="none")
<i>DoubleId</i>	DM_DECB_DCDP15 (description="DM_DECB_DCDP15 [eng, mA]", quantity="none")
<i>LongId</i>	DM_HK_DIAG_STAT (description="DM_HK_DIAG_STAT [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_FLASH_V (description="DM_DECB_FLASH_V [eng, V]", quantity="none")
<i>StringId</i>	DP_1355_HANDLER (description="DP_1355_HANDLER", quantity="none")
<i>StringId</i>	DM_FPU_CS_TS_ST (description="DM_FPU_CS_TS_ST", quantity="none")
<i>DoubleId</i>	DM_CS1_TARGET (description="DM_CS1_TARGET [eng, Ohm]", quantity="none")
<i>LongId</i>	DM_DM_DF_IND (description="DM_DM_DF_IND [raw]", quantity="none")
<i>LongId</i>	DM_FWPC_ERROR (description="DM_FWPC_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_DECB_FLASH_C (description="DM_DECB_FLASH_C [eng, mA]", quantity="none")
<i>DoubleId</i>	DM_DECB_ISS_4 (description="DM_DECB_ISS_4 [eng, mA]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU1 (description="BOL_TEMP_FPU1 [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECB_ISS_3 (description="DM_DECB_ISS_3 [eng, mA]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_FPU2 (description="BOL_TEMP_FPU2 [eng, K]", quantity="none")

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

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

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<i>LongId</i>	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")
<i>LongId</i>	SPS_SAMP_CORR (description="SPS_SAMP_CORR [raw]", quantity="none")
<i>StringId</i>	DM_CR2_ST_RA (description="DM_CR2_ST_RA", quantity="none")
<i>LongId</i>	SPL_MAINT_RAMPS (description="SPL_MAINT_RAMPS [raw]", quantity="none")
<i>LongId</i>	DP_SPUL_LINK_DE (description="DP_SPUL_LINK_DE [raw]", quantity="none")
<i>StringId</i>	DP_EVENT_SPU (description="DP_EVENT_SPU", quantity="none")
<i>StringId</i>	DM_HKD_TASK_WR (description="DM_HKD_TASK_WR", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_2 (description="BOL_TEMP_B_2 [eng, degC]", quantity="none")
<i>StringId</i>	DM_BR_SENDING (description="DM_BR_SENDING", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_3 (description="BOL_TEMP_B_3 [eng, degC]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_B_1 (description="BOL_TEMP_B_1 [eng, degC]", quantity="none")
<i>LongId</i>	DM_PLL_RES_HI (description="DM_PLL_RES_HI [raw]", quantity="none")
<i>LongId</i>	DM_FW_SPEC_CTRL (description="DM_FW_SPEC_CTRL [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID3 (description="DM_SEQ_LOOP_ID3 [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID2 (description="DM_SEQ_LOOP_ID2 [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID1 (description="DM_SEQ_LOOP_ID1 [raw]", quantity="none")
<i>LongId</i>	SPS_REAL (description="SPS_REAL [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID0 (description="DM_SEQ_LOOP_ID0 [raw]", quantity="none")
<i>StringId</i>	DM_FWSC_POS_B (description="DM_FWSC_POS_B", quantity="none")
<i>StringId</i>	DM_FWSC_POS_A (description="DM_FWSC_POS_A", quantity="none")
<i>StringId</i>	DP_BLUE_SCIENCE (description="DP_BLUE_SCIENCE", quantity="none")
<i>LongId</i>	DM_R_SPEC_READ (description="DM_R_SPEC_READ [raw]", quantity="none")
<i>LongId</i>	DM_SEQ_LOOP_ID4 (description="DM_SEQ_LOOP_ID4 [raw]", quantity="none")
<i>LongId</i>	SPS_VID (description="SPS_VID [raw]", quantity="none")
<i>StringId</i>	DM_CR4_ST_FL (description="DM_CR4_ST_FL", quantity="none")

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

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

<i>LongId</i>	DM_DECR_SR_RB_1 (description="DM_DECR_SR_RB_1 [raw]", quantity="none")
<i>LongId</i>	DM_SW_SPARE5 (description="DM_SW_SPARE5 [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_VSS_1 (description="DM_DECR_VSS_1 [eng, V]", quantity="none")
<i>LongId</i>	DM_DECR_SR_RB_2 (description="DM_DECR_SR_RB_2 [raw]", quantity="none")
<i>DoubleId</i>	DM_CHOPPER_TEMP (description="DM_CHOPPER_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_WR (description="DM_RPE_TASK_WR", quantity="none")
<i>DoubleId</i>	DM_DECB_TS_2_4 (description="DM_DECB_TS_2_4 [eng, K]", quantity="none")
<i>DoubleId</i>	DM_DECB_TS_2_3 (description="DM_DECB_TS_2_3 [eng, K]", quantity="none")
<i>StringId</i>	DP_EVENT_DPU (description="DP_EVENT_DPU", quantity="none")
<i>StringId</i>	DM_CR4_ST_HE (description="DM_CR4_ST_HE", quantity="none")
<i>LongId</i>	DM_DRR_ERROR (description="DM_DRR_ERROR [raw]", quantity="none")
<i>DoubleId</i>	DM_DECR_VSS_2 (description="DM_DECR_VSS_2 [eng, V]", quantity="none")
<i>DoubleId</i>	DM_DECB_DCDC_P5 (description="DM_DECB_DCDC_P5 [eng, mA]", quantity="none")
<i>LongId</i>	SPL_RCX (description="SPL_RCX [raw]", quantity="none")
<i>StringId</i>	DM_DSIM_TASK_WR (description="DM_DSIM_TASK_WR", quantity="none")
<i>LongId</i>	DM_BLUE_ENC_PAC (description="DM_BLUE_ENC_PAC [raw]", quantity="none")

9.4.8. HPGENHK: General Housekeeping

<i>product</i> (type="HPGENHK", description="HPGENHKS")	
<i>Metadata</i>	
StringParameter	type (description="null")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="PACS Level 0 Product")
StringParameter	modelName (description="Model")
DateParameter	startDate (description="Start Date")
DateParameter	endDate (description="End Date")
StringParameter	formatVersion (description="Format Version of the Products")
StringParameter	fileName (description="null")

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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.")
LongId	Time (description="Time [microseconds]", quantity="microsecond [1.0E-6 s]")
LongId	DP_1_8_REJECTED (description="DP_1_8_REJECTED [raw]", quantity="none")
LongId	SPL_PIX (description="SPL_PIX [raw]", quantity="none")
LongId	SPL_VID (description="SPL_VID [raw]", quantity="none")
DoubleId	DM_SPU_SWL_TEMP (description="DM_SPU_SWL_TEMP [eng, K]", quantity="none")
LongId	DP_SPUL_LINK_PE (description="DP_SPUL_LINK_PE [raw]", quantity="none")
StringId	DP_SPS_LINK (description="DP_SPS_LINK", quantity="none")
StringId	DM_FPU_S2_TS_ST (description="DM_FPU_S2_TS_ST", quantity="none")
LongId	DM_HK_CTRL_STAT (description="DM_HK_CTRL_STAT [raw]", quantity="none")
LongId	DM_DBR_SPARE2 (description="DM_DBR_SPARE2 [raw]", quantity="none")
StringId	DP_DMC_CMD (description="DP_DMC_CMD", quantity="none")
StringId	DM_FPU_CH_TS_ST (description="DM_FPU_CH_TS_ST", quantity="none")
DoubleId	DM_SPU_VCC_CUR (description="DM_SPU_VCC_CUR [eng, A]", quantity="none")
LongId	DM_DECR_CTRL_PA (description="DM_DECR_CTRL_PA [raw]", quantity="none")
DoubleId	DM_FW_PHOT_TEMP (description="DM_FW_PHOT_TEMP [eng, K]", quantity="none")
StringId	DP_OBCP_MANAGER (description="DP_OBCP_MANAGER", quantity="none")
LongId	DM_PM_SF_IND (description="DM_PM_SF_IND [raw]", quantity="none")
StringId	DM_HKCO_TASK_AL (description="DM_HKCO_TASK_AL", quantity="none")
StringId	DP_IRQ3_TASK (description="DP_IRQ3_TASK", quantity="none")
LongId	DM_HKCO_SPARE5 (description="DM_HKCO_SPARE5 [raw]", quantity="none")
DoubleId	BOL_I_HEATER_1R (description="BOL_I_HEATER_1R [eng, A]", quantity="none")
DoubleId	BOL_TEMP_PSU_1 (description="BOL_TEMP_PSU_1 [eng, degC]", quantity="none")

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

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

<i>LongId</i>	DM_LAST_ER_BF5 (description="DM_LAST_ER_BF5 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF6 (description="DM_LAST_ER_BF6 [raw]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF7 (description="DM_LAST_ER_BF7 [raw]", quantity="none")
<i>StringId</i>	DM_DPUS_LINK (description="DM_DPUS_LINK", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF8 (description="DM_LAST_ER_BF8 [raw]", quantity="none")
<i>DoubleId</i>	DP_VOL_25P (description="DP_VOL_25P [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF9 (description="DM_LAST_ER_BF9 [raw]", quantity="none")
<i>LongId</i>	DP_COM_DMC_NACK (description="DP_COM_DMC_NACK [raw]", quantity="none")
<i>StringId</i>	DM_SEQ_TASK_AL (description="DM_SEQ_TASK_AL", quantity="none")
<i>LongId</i>	DM_FPU_T_SEN_ST (description="DM_FPU_T_SEN_ST [raw]", quantity="none")
<i>LongId</i>	DM_BOL_STATUS (description="DM_BOL_STATUS [raw]", quantity="none")
<i>StringId</i>	DM_BR_SIM_TIME (description="DM_BR_SIM_TIME", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF2 (description="DM_LAST_ER_BF2 [raw]", quantity="none")
<i>DoubleId</i>	BOL_PWR_DIG_7 (description="BOL_PWR_DIG_7 [eng, V]", quantity="none")
<i>LongId</i>	DM_LAST_ER_BF1 (description="DM_LAST_ER_BF1 [raw]", quantity="none")
<i>StringId</i>	DM_FPU_FWP_TS_S (description="DM_FPU_FWP_TS_S", quantity="none")
<i>LongId</i>	DP_1_2_REJECTED (description="DP_1_2_REJECTED [raw]", quantity="none")
<i>StringId</i>	DP_INIT (description="DP_INIT", quantity="none")
<i>LongId</i>	DM_BLUE_PAC_ENC (description="DM_BLUE_PAC_ENC [raw]", quantity="none")
<i>StringId</i>	DP_BUFFER_STAT (description="DP_BUFFER_STAT", quantity="none")
<i>StringId</i>	DP_COUNTER_SPEC (description="DP_COUNTER_SPEC", quantity="none")
<i>StringId</i>	DM_DBC_TASK_AL (description="DM_DBC_TASK_AL", quantity="none")
<i>LongId</i>	DM_BOL_READ_CNT (description="DM_BOL_READ_CNT [raw]", quantity="none")
<i>LongId</i>	DM_HK_DIAG_PERI (description="DM_HK_DIAG_PERI [raw]", quantity="none")

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

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

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

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

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

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

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

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

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

<i>LongId</i>	DP_COM_REJ_DPU (description="DP_COM_REJ_DPU [raw]", quantity="none")
<i>DoubleId</i>	DM_CHOPPER_TEMP (description="DM_CHOPPER_TEMP [eng, K]", quantity="none")
<i>StringId</i>	DM_RPE_TASK_WR (description="DM_RPE_TASK_WR", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B4 (description="BOL_I_HEATER_B4 [eng, A]", quantity="none")
<i>LongId</i>	HD_APIID (description="HD_APIID [raw]", quantity="none")
<i>StringId</i>	DP_EV_BOL_I_FPU (description="DP_EV_BOL_I_FPU", quantity="none")
<i>StringId</i>	DP_EVENT_DPU (description="DP_EVENT_DPU", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B2 (description="BOL_I_HEATER_B2 [eng, A]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B3 (description="BOL_I_HEATER_B3 [eng, A]", quantity="none")
<i>LongId</i>	DM_DRR_ERROR (description="DM_DRR_ERROR [raw]", quantity="none")
<i>DoubleId</i>	BOL_I_HEATER_B1 (description="BOL_I_HEATER_B1 [eng, A]", quantity="none")
<i>LongId</i>	DM_DECB_REC_STA (description="DM_DECB_REC_STA [raw]", quantity="none")
<i>DoubleId</i>	BOL_TEMP_EV (description="BOL_TEMP_EV [eng, K]", quantity="none")
<i>StringId</i>	DM_HKCO_TASK_WR (description="DM_HKCO_TASK_WR", quantity="none")
<i>LongId</i>	DM_BLUE_ENC_PAC (description="DM_BLUE_ENC_PAC [raw]", quantity="none")

9.4.9. HPENG HPTCVERS: Telecommand Verification

<i>product (type="HPENG", description="HPTCVERS")</i>	
<i>Metadata</i>	
StringParameter	type (description="null")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="PACS Level 0 Product")
StringParameter	modelName (description="Model")
DateParameter	startDate (description="Start Date")
DateParameter	endDate (description="End Date")
StringParameter	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 \$")
<i>Metadata</i>	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")
LongId	Time (description="Time [microseconds]", quantity="microsecond [1.0E-6 s]")
LongId	HD_SOURCE_TYPE (description="HD_SOURCE_TYPE [raw]", quantity="none")
DoubleId	HD_PCKT_SUBTYPE (description="HD_PCKT_SUBTYPE [raw]", quantity="none")
LongId	HD_SPARE_3 (description="HD_SPARE_3 [raw]", quantity="none")
LongId	HD_SEG_FLAG (description="HD_SEG_FLAG [raw]", quantity="none")
LongId	HD_PUS_VERSION (description="HD_PUS_VERSION [raw]", quantity="none")
LongId	HD_SPARE_2 (description="HD_SPARE_2 [raw]", quantity="none")
LongId	HD_SPARE_1 (description="HD_SPARE_1 [raw]", quantity="none")
DoubleId	HD_PACKET_TYPE (description="HD_PACKET_TYPE [raw]", quantity="none")
LongId	HD_LENGTH (description="HD_LENGTH [raw]", quantity="none")
LongId	HD_APID (description="HD_APID [raw]", quantity="none")
LongId	HD_VERSION_NUMB (description="HD_VERSION_NUMB [raw]", quantity="none")
LongId	HD_SRC_SEQ_CTN (description="HD_SRC_SEQ_CTN [raw]", quantity="none")
LongId	HD_DATA_FLAG (description="HD_DATA_FLAG [raw]", quantity="none")
LongId	HD_TIME (description="HD_TIME [raw]", quantity="none")
LongId	TC_PCKT_SUBTYPE (description="TC_PCKT_SUBTYPE [raw]", quantity="none")
LongId	PCKT_SEQ_CONTR (description="PCKT_SEQ_CONTR [raw]", quantity="none")
LongId	TC_PACKET_TYPE (description="TC_PACKET_TYPE [raw]", quantity="none")
LongId	TC_PACKET_ID (description="TC_PACKET_ID [raw]", quantity="none")
DoubleId	LAST_16BIT_TIME (description="LAST_16BIT_TIME [eng, s]", quantity="none")
LongId	FIRST32BIT_TIME (description="FIRST32BIT_TIME [raw]", quantity="none")

9.4.10. HPTCVERS: Telecommand Verification

<i>list context (type="HPTCVERS", description="Telecommand Verification")</i>	
<i>Metadata</i>	
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")
<i>product (type="HPENG", description="HPTCVERS")</i>	
<i>Metadata</i>	
StringParameter	type (description="null")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="PACS Level 0 Product")
StringParameter	modelName (description="Model")
DateParameter	startDate (description="Start Date")
DateParameter	endDate (description="End Date")
StringParameter	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")
<i>table dataset (description="Generated from PacketSequence \$Revision: 1.4 \$")</i>	
<i>Metadata</i>	
StringParameter	revision (description="PacketSequence Revision from which this data was generated.")

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

9.5. PACS Spectroscopy Level-1 Products

9.5.1. HPS3DBS: Spectral Cube Blue

<i>list context (type="HPS3DBS", description="PACS Spectral Cube")</i>

<i>Meta-data</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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	IWave (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")

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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")
<i>product</i>	<i>(type="HPS3DBS", description="PACS Spectral Cube")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")

DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
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	IWave (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")
<i>array dataset</i>	(description="Cube")
<i>Metadata</i>	
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")
<i>Double3d</i>	(description="Cube", quantity="none")
<i>array dataset</i>	(description="Right ascension in degrees")
<i>Metadata</i>	
<i>Double3d</i>	(description="Right ascension in degrees", quantity="degree [0.01745329 rad])
<i>array dataset</i>	(description="Declination in degrees")
<i>Metadata</i>	
<i>Double3d</i>	(description="Declination in degrees", quantity="degree [0.01745329 rad])
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="none")

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

<i>StringId</i>	ProductId (description="Human Readable Product Identifier for History", quantity="none")

9.5.2. HPS3DRS: Spectral Cube Red

<i>list context (type="HPS3DRS", description="PACS Spectral Cube")</i>	
<i>Meta- da- ta</i>	
String- Pa- rame- ter	type (description="Product Type Identification")
String- Pa- rame- ter	creator (description="Generator of this product")
DatePa- rame- ter	creationDate (description="Creation date of this product")
String- Pa- rame- ter	description (description="Name of this product")
String- Pa- rame- ter	instrument (description="Instrument attached to this product")
String- Pa- rame- ter	modelName (description="Model name attached to this product")
DatePa- rame- ter	startDate (description="Start date of this product")
DatePa- rame- ter	endDate (description="End date of this product")
String- Pa- rame- ter	formatVersion (description="null")
Long- Pa- rame- ter	detRow (description="Number of detector rows")
Long- Pa- rame- ter	detCol (description="Number of detector columns")
	camName (description="Name of the Camera")

String-Parameter	
Long-Parameter	relTimeOffset (description="null")
DoubleParameter	Apid (description="null")
DoubleParameter	subType (description="null")
DoubleParameter	compVersion (description="null")
DoubleParameter	algoNumber (description="null")
String-Parameter	algorithm (description="null")
DoubleParameter	compNumber (description="null")
String-Parameter	compMode (description="null")
DoubleParameter	dxid (description="null")
Long-Parameter	qflag_pacs_spec_red_FailedSPUBuffer (description="null")
Long-Parameter	qflag_pacs_spec_blue_FailedSPUBuffer (description="null")
String-Parameter	fileName (description="null")

String-Parameter	camera_signature (description="null")
Long-Parameter	obsid (description="null")
String-Parameter	productNotes (description="null")
String-Parameter	band (description="null")
product	(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	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	
LongId	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
IntId	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
IntId	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
IntId	(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	
ByteId	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
ByteId	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
DoubleId	(description="null", quantity="none")
array dataset	(description="null")
Metadata	
DoubleId	(description="null", quantity="none")

<i>composite</i>	(description="Mask data stored in bit encoded arrays, in cube dimensions time X s")
<i>Metadata</i>	
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
StringParameter	camName (description="Name of the Camera")
LongParameter	detRow (description="Number of detector rows")
LongParameter	detCol (description="Number of detector columns")
<i>array dataset</i>	(description="TBD")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="TBD", quantity="none")
<i>array dataset</i>	(description="TBD")
<i>Metadata</i>	
LongParameter	Mask dimension (description="null")
LongParameter	number of rows (description="null")
LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
<i>Int3d</i>	(description="TBD", quantity="none")
<i>array dataset</i>	(description="TBD")

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

LongParameter	number of columns (description="null")
LongParameter	number of resets (description="null")
LongParameter	number of samples (description="null")
Int3d	(description="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")

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

<i>StringId</i>	ProductType (description="Product Type for History", quantity="none")
<i>StringId</i>	ProductId (description="Human Readable Product Identifier for History", quantity="none")

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

<i>product</i> (type="Unknown", description="Product containing the absolute pixel response and the dark current")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
<i>composite</i>	(description="Absolute pixel response and dark current for CalBlock0")
<i>Metadata</i>	
StringParameter	Band (description="Band")
DateParameter	Start Time (description="Start Time")
DateParameter	End Time (description="End Time")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double2d</i>	(description="null", quantity="V/(s.Jy) [1.0E26 V.m2.Hz/(s.W)]")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double2d</i>	(description="null", quantity="V/s")
<i>composite</i>	(description="History of product")
<i>Metadata</i>	
<i>table dataset</i>	(description="History as Jython script")
<i>Metadata</i>	
StringParameter	outvar (description="last output variable")
<i>StringId</i>	Lines (description="script lines", quantity="none")

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

9.5.4. HPSFITBS: Frames Blue

<i>product (type="HPSFITBS", description="Frames")</i>	
<i>Meta-data</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
	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	IWave (description="ObservationParameter")
StringParameter	IcontFlux (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")
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 parameter", 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")

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

	<i>Int1d</i>	LineId (description="Line Index as determined from grating position", quantity="none")
<i>array dataset</i>		(description="null")
	<i>Metadata</i>	
	<i>Bool2d</i>	(description="null", quantity="none")
<i>composite</i>		(description="Mask data stored in bit encoded arrays")
	<i>Metadata</i>	
	LongParameter	number of rows (description="null")
	LongParameter	number of columns (description="null")
	LongParameter	number of resets (description="null")
	LongParameter	number of samples (description="null")
	StringParameter	camName (description="Name of the Camera")
	LongParameter	detRow (description="Number of detector rows")
	LongParameter	detCol (description="Number of detector columns")
<i>array dataset</i>		(description="Mask that flags the blind pixels")
	<i>Metadata</i>	
	LongParameter	Mask dimension (description="null")
	LongParameter	number of rows (description="null")
	LongParameter	number of columns (description="null")
	LongParameter	number of resets (description="null")
	LongParameter	number of samples (description="null")
	<i>Int3d</i>	(description="Mask that flags the blind pixels", quantity="none")

9.5.5. HPSFITRS: Frames Red

<i>product (type="HPSFITRS", description="Frames")</i>	
<i>Meta-data</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
	endDate (description="End date of this product")

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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")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Double3d</i>	(description="null", quantity="none")
<i>table dataset</i>	(description="Status")
<i>Metadata</i>	
StringParameter	MODE (description="null")
LongParameter	DIM1 (description="Number of measures per status parameter")
<i>Int1d</i>	RESETINDEX (description="Indicates the reset index of the status parameter", quantity="none")
<i>Long1d</i>	OBSID (description="Identifier of the observation", quantity="none")
<i>Long1d</i>	BBID (description="Building block type", quantity="none")

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

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

LongParameter	detCol (description="Number of detector columns")
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

<i>list context</i> (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")
<i>product</i> (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")

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

9.6.2. HPS3DPR: Spectroscopy 3D Projected Red

<i>list context (type="Unknown", description="Unknown")</i>	
<i>Meta-data</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
	formatVersion (description="Version of product format")

StringParameter	
<i>product</i>	(<i>type="Unknown", description="Unknown"</i>)
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
<i>array dataset</i>	(<i>description="Cube"</i>)
<i>Metadata</i>	
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")
<i>Double3d</i>	(<i>description="Cube", quantity="Jy [1.0E-26 W/m2/Hz]"</i>)
<i>array dataset</i>	(<i>description="Exposure"</i>)
<i>Metadata</i>	
<i>Double3d</i>	(<i>description="Exposure", quantity="s"</i>)
<i>table dataset</i>	(<i>description="null"</i>)

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

9.6.3. HPS3DRB: Spectroscopy 3D Rebinned Blue

<i>list context (type="HPS3DRS", description="PACS Spectral Cube")</i>	
<i>Meta-data</i>	
<i>StringParameter</i>	type (description="Product Type Identification")
<i>StringParameter</i>	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")
<i>product</i>	<i>(type="HPS3DRS", description="PACS Spectral Cube")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
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")
<i>array dataset</i>	(description="Cube")
<i>Metadata</i>	
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")
<i>Double3d</i>	(description="Cube", quantity="none")
<i>array dataset</i>	(description="Right ascension in degrees")
<i>Metadata</i>	
<i>Double3d</i>	(description="Right ascension in degrees", quantity="degree [0.01745329 rad]")
<i>array dataset</i>	(description="Declination in degrees")
<i>Metadata</i>	
<i>Double3d</i>	(description="Declination in degrees", quantity="degree [0.01745329 rad]")
<i>array dataset</i>	(description="null")

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

<i>StringId</i>	ProductType (description="Product Type for History", quantity="none")
<i>StringId</i>	ProductId (description="Human Readable Product Identifier for History", quantity="none")

9.6.4. HPS3DRS: Spectroscopy 3D Rebinned Red

<i>list context (type="HPS3DRS", description="PACS Spectral Cube")</i>	
<i>Meta-data</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>product</i>	<i>(type="HPS3DRS", description="PACS Spectral Cube")</i>
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
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")
<i>array dataset</i>	(description="Cube")
<i>Metadata</i>	
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")
<i>Double3d</i>	(description="Cube", quantity="none")

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

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<i>StringId</i>	Name (description="The name of the parameter", quantity="none")
<i>StringId</i>	Type (description="Type of parameter", quantity="none")
<i>StringId</i>	Value (description="String representation of the parameter value", quantity="none")
<i>BoolId</i>	IsDefault (description="True if the default value has been used", quantity="none")
<i>LongId</i>	IncTaskId (description="ID of the history of an included product", quantity="none")
<i>BoolId</i>	UserInput (description="Needs user input", quantity="none")
<i>StringId</i>	Class (description="Class of the parameter", quantity="none")
<i>StringId</i>	ProductType (description="Product Type for History", quantity="none")
<i>StringId</i>	ProductId (description="Human Readable Product Identifier for History", quantity="none")

Chapter 10. PACS Calibration Products

10.1. PACS Common Calibration History Products

10.1.1. ChopperAngle

<i>product (type="ChopperAngle", description="Chopper position readout versus chopper angle calibration")</i>	
Meta-data	
String-Parameter	type (description="Product Type Identification")
String-Parameter	creator (description="Generator of this product")
DateParameter	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")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
String-Parameter	formatVersion (description="Calfile format version")
String-Parameter	calFileId (description="Calfile type identifier")
LongParameter	calFileVersion (description="null")
String-Parameter	author (description="Author of the data")
String-Parameter	fileName (description="null")

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

array dataset	(description="fitted polynomial coefficients of calibration window for conversion")
Meta- data	
DoubleId	(description="fitted polynomial coefficients of calibration window for conversion", quantity="none")
array dataset	(description="fitted polynomial coefficients of calibration window for conversion")
Meta- data	
DoubleId	(description="fitted polynomial coefficients of calibration window for conversion", quantity="none")
array dataset	(description="fitted polynomial coefficients of science window for conversion volt")
Meta- data	
DoubleId	(description="fitted polynomial coefficients of science window for conversion volt", quantity="none")
array dataset	(description="fitted polynomial coefficients of calibration window for conversion")
Meta- data	
DoubleId	(description="fitted polynomial coefficients of calibration window for conversion", quantity="none")
array dataset	(description="fitted polynomial coefficients of calibration window for conversion")
Meta- data	
DoubleId	(description="fitted polynomial coefficients of calibration window for conversion", quantity="none")
array dataset	(description="fitted polynomial coefficients of science window for conversion angl")
Meta- data	
DoubleId	(description="fitted polynomial coefficients of science window for conversion angl", quantity="none")
array dataset	(description="currents")
Meta- data	
DoubleId	(description="currents", quantity="none")
array dataset	(description="angles where currents are measured")
Meta- data	
DoubleId	(description="angles where currents are measured", quantity="none")

10.1.2. ChopperAngleRedundant

<i>product (type="ChopperAngleRedundant", description="Chopper position readout versus chopper angle calibration for redundant chopper")</i>	
<i>Meta-data</i>	
String-Parameter	type (description="Product Type Identification")
String-Parameter	creator (description="Generator of this product")
DateParameter	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")
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")
LongParameter	calFileVersion (description="null")
String-Parameter	author (description="Author of the data")
String-Parameter	fileName (description="null")
<i>array dataset</i>	<i>(description="FP II Voltage readback")</i>
<i>Meta-data</i>	
<i>DoubleId</i>	<i>(description="FP II Voltage readback", quantity="none")</i>
<i>array dataset</i>	<i>(description="Deflection angle")</i>
<i>Meta-data</i>	

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

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

10.1.3. ChopperJitterThreshold

<i>product (type="ChopperJitterThreshold", description="Defines the thresholds in position readouts for the required accuracy of the final chopper positions for the science and calibration window")</i>	
Metadata	
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	
DoubleId	(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	
DoubleId	(description="specified position accuracy threshold for a plateaux in science wind", quantity="none")

10.1.4. ChopperSkyAngle

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

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

10.1.5. CsResistanceTemperature

<i>product</i> (type="CsResistanceTemperature", description="CS Resistance temperature conversion")	
<i>Metadata</i>	
StringParameter	type (description="null")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="null")
StringParameter	instrument (description="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")
<i>composite</i>	(description="Temperature - Resistance conversion informal table for the first internal ca&")
<i>Metadata</i>	
<i>array dataset</i>	(description="Temperature values in Kelvin")
<i>Metadata</i>	
<i>DoubleId</i>	(description="Temperature values in Kelvin", quantity="K")
<i>array dataset</i>	(description="Resistance values in Ohms")
<i>Metadata</i>	

	<i>DoubleId</i>	(description="Resistance values in Ohms", quantity="?")
<i>compos- ite</i>		(description="Temperature - Resistace conversion informaltable for the second internal ca&")
	<i>Metadata</i>	
<i>array dataset</i>		(description="Temperature values in Kelvin")
	<i>Metadata</i>	
	<i>DoubleId</i>	(description="Temperature values in Kelvin", quantity="K")
<i>array dataset</i>		(description="Resistance values in Ohms")
	<i>Metadata</i>	
	<i>DoubleId</i>	(description="Resistance values in Ohms", quantity="?")

10.1.6. FilterWheel2Band

<i>product</i> (type="FilterWheel2Band", description="Defines the wheel position (wpr) readout to band conversion")		
	<i>Metadata</i>	
	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")
<i>infor- maltable dataset</i>		(description="FilterWheel to Band Conversion")
	<i>Metadata</i>	
	<i>IntId</i>	wpr (description="Wheel position readout", quantity="none")
	<i>StringId</i>	band (description="Band", quantity="none")
	<i>StringId</i>	camera (description="Camera : SPECBLUE, SPECRED, PHOT-BLUE, PHOTRED", quantity="none")
	<i>StringId</i>	description (description="Description", quantity="none")

10.1.7. ObcpDescription

<i>product</i> (type="ObcpDescription", description="Describes the OBCPs of PACS")		
	<i>Metadata</i>	

StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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.")
<i>informaltable dataset</i>	<i>(description="OBCP and DMCS Description")</i>
<i>Metadata</i>	
<i>IntId</i>	OBCPNumber (description="OBCP Number", quantity="none")
<i>StringId</i>	OBCPDescription (description="OBCP Description", quantity="none")
<i>IntId</i>	DMCSNumber (description="DMC Sequence Number", quantity="none")
<i>StringId</i>	DMCSDescription (description="DMC Sequence Description", quantity="none")
<i>informaltable dataset</i>	<i>(description="OBCP Block descriptions")</i>
<i>Metadata</i>	
<i>IntId</i>	OBCPNumber (description="OBCP Number", quantity="none")
<i>StringId</i>	BlockId (description="Block ID", quantity="none")
<i>StringId</i>	BlockDesc (description="Block Description", quantity="none")
<i>BoolId</i>	IsSpec (description="True if it is a Spectrometer OBCP", quantity="none")
<i>StringId</i>	Labels (description="Identification Labels", quantity="none")

10.1.8. Siam

<i>product (type="Siam", description="Spacecraft-Instrument alignment matrices")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")

StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
StringParameter	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")
<i>array</i> <i>dataset</i>	(description="Photometer SIAM")
<i>Metadata</i>	
StringParameter	apertureId (description="Aperture identifier")
DateParameter	validityStart (description="Start of calibration validity")
LongParameter	nSaa (description="Number of reference Solar Aspect Angles")
<i>Double2d</i>	(description="Photometer SIAM", quantity="none")
<i>array</i> <i>dataset</i>	(description="Photometer SIAM")
<i>Metadata</i>	
StringParameter	apertureId (description="Aperture identifier")
DateParameter	validityStart (description="Start of calibration validity")
LongParameter	nSaa (description="Number of reference Solar Aspect Angles")
<i>Double2d</i>	(description="Photometer SIAM", quantity="none")

10.1.9. TimeDependency

<i>product (type="TimeDependency", description="Defines time dependency for calibration products.")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>informaltable dataset</i>	(description="Time Dependency Informaltable for FM")
<i>Metadata</i>	
StringParameter	modelName (description="The instrument model name")
DateParameter	lastUpdated (description="null")
StringParameter	lastUpdatedBy (description="null")
StringParameter	scope (description="scope can take values of BASE, TEST, or PRIVATE")
<i>StringId</i>	type (description="null", quantity="none")
<i>StringId</i>	unit (description="null", quantity="none")
<i>LongId</i>	time (description="null", quantity="none")
<i>LongId</i>	version (description="null", quantity="none")
<i>StringId</i>	comment (description="null", quantity="none")

10.2. PACS Photometer Calibration Products

10.2.1. Absorption

<i>product (type="Absorption", description="Absorption values Photometer")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>FloatId</i>	(description="null", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	

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

10.2.2. ArrayInstrument

<i>product</i> (type="ArrayInstrument", description="Array to Instrument coordinate conversion")		
<i>Metada- ta</i>		
StringPa- rameter	type	(description="Product Type Identification")
StringPa- rameter	creator	(description="Generator of this product")
DateParame- ter	creationDate	(description="Date of file creation")
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")
DateParame- ter	startDate	(description="Start date of this product")
DateParame- ter	endDate	(description="End date of this product")
StringPa- rameter	formatVersion	(description="Calfile format version")
StringPa- rameter	calFileId	(description="Calfile type identifier")
LongParam- eter	calFileVersion	(description="Calfile version")
StringPa- rameter	author	(description="Author of the data")
StringPa- rameter	fileName	(description="null")
<i>array dataset</i>		(description="Maximum polynomial orders for y (blue)")
<i>Metadata</i>		
	<i>IntId</i>	(description="Maximum polynomial orders for y (blue)", quantity="none")
<i>array dataset</i>		(description="Cube with coefficients for y (blue)")
<i>Metadata</i>		
	<i>Double3d</i>	(description="Cube with coefficients for y (blue)", quantity="none")
<i>array dataset</i>		(description="Maximum polynomial orders for z (blue)")
<i>Metadata</i>		
	<i>IntId</i>	(description="Maximum polynomial orders for z (blue)", quantity="none")
		(description="Cube with coefficients for z (blue)")

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

10.2.3. BadPixelMask

<i>product (type="BadPixelMask", description="Bad pixels mask for PACS Photometer")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="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")
<i>array dataset</i>	(description="Bad Pixels mask for the Red Photometer")
<i>Metadata</i>	

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

10.2.4. CalSources

<i>product</i> (type="CalSources", description="Flux per pixel from the internal calibration sources (CSs) in the blue and red channel")	
<i>Metada-ta</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>array dataset</i>	(description="CSs image cube through 70 microns filter")
<i>Metadata</i>	

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

10.2.5. CISaturationLimits

<i>product</i> (type="CISaturationLimits", description="CL saturation limits")	
<i>Metadata</i>	
StringParameter	type (description="null")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>array dataset</i>	(description="CL saturation limits")

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

10.2.6. CITransferFunction

<i>product</i> (type="CITransferFunction", description="SurfCal_20061120 calibration VRL-VH_BLIND for saturation limits computation")	
<i>Metadata</i>	
StringParameter	type (description="null")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>array dataset</i>	(description="calvhb - [6,25,5] the values of VH_BLIND used in the calibration, p&")
<i>Metadata</i>	
<i>Double3d</i>	(description="calvhb - [6,25,5] the values of VH_BLIND used in the calibration, p&", quantity="V")
<i>array dataset</i>	(description="calvrl - [6,25,5] the values of VRL used in the calibration, per gr&")
<i>Metadata</i>	
<i>Double3d</i>	(description="calvrl - [6,25,5] the values of VRL used in the calibration, per gr&", quantity="V")
<i>array dataset</i>	(description="surf - [10,16,16,25,5] the output signal for every VRL (25) and eve&")
<i>Metadata</i>	
<i>Double5d</i>	(description="surf - [10,16,16,25,5] the output signal for every VRL (25) and eve&", quantity="none")

10.2.7. CorrZeroLevel

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

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 Photometer")
Metadata	
Float2d	(description="Zero-level corr for the Green Photometer", 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

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

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

10.2.10. DiffCS

<i>product (type="DiffCS", description="Difference of CS1 and CS2")</i>	
Meta- ta	

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")
<i>compos- ite</i>	<i>(description="null")</i>
<i>Metadata</i>	
DoubleParameter	cs1CPR (description="chopper position unit=(CU)")
DoubleParameter	cs1Bias (description=" VH-VL ")
DoubleParameter	cs1Vlow (description="VI 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="VI 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="")
compos- ite	(description="null")
Metadata	
DoubleParameter	cs1CPR (description="chopper position unit=(CU)")
DoubleParameter	cs1Bias (description=" VH-VL ")
DoubleParameter	cs1Vlow (description="VI 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="VI 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")

<i>array dataset</i>	(description="Masked pixel")
<i>Metadata</i>	
<i>Bool2d</i>	(description="Masked pixel", quantity="")
<i>array dataset</i>	(description="Unitary coverage")
<i>Metadata</i>	
<i>Int2d</i>	(description="Unitary coverage", quantity="")
<i>compos- ite</i>	(description="null")
<i>Metadata</i>	
DoubleParameter	cs1CPR (description="chopper position unit=(CU)")
DoubleParameter	cs1Bias (description=" VH-VL ")
DoubleParameter	cs1Vlow (description="VI 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="VI 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")
<i>array dataset</i>	(description="CS1-CS2")
<i>Metadata</i>	
<i>Double2d</i>	(description="CS1-CS2", quantity="V")
<i>array dataset</i>	(description="CS1-CS2 noise")
<i>Metadata</i>	
<i>Double2d</i>	(description="CS1-CS2 noise", quantity="V")
<i>array dataset</i>	(description="Masked pixel")
<i>Metadata</i>	
<i>Bool2d</i>	(description="Masked pixel", quantity="")
<i>array dataset</i>	(description="Unitary coverage")
<i>Metadata</i>	
<i>Int2d</i>	(description="Unitary coverage", quantity="")

10.2.11. FilterTransmission

<i>product (type="FilterTransmission", description="FilterTransmissions calibration product for the red and blue photometer.")</i>	
<i>Metadata</i>	
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")
<i>informaltable dataset</i>	<i>(description="null")</i>
<i>Metadata</i>	
DoubleParameter	incidentAngleX (description="Euler X angle(deg) of incident ray in instrument frame (ZY=plane filter)")
DoubleParameter	incidentAngleY (description="Euler Y angle(deg) of incident ray in instrument frame (ZY=plane filter)")
DoubleParameter	incidentAngleZ (description="Euler Z angle(deg) of incident ray in instrument frame (ZY=plane filter)")
StringParameter	band (description="Filter band")
StringParameter	sourceFile (description="Source file used to build this transmission")
<i>Float1d</i>	transmission (description="transmission", quantity="")
<i>Float1d</i>	wavelength (description="wavelength", quantity="micron [1.0E-6 m]")
<i>informaltable dataset</i>	<i>(description="null")</i>
<i>Metadata</i>	
DoubleParameter	incidentAngleX (description="Euler X angle(deg) of incident ray in instrument frame (ZY=plane filter)")
DoubleParameter	incidentAngleY (description="Euler Y angle(deg) of incident ray in instrument frame (ZY=plane filter)")
DoubleParameter	incidentAngleZ (description="Euler Z angle(deg) of incident ray in instrument frame (ZY=plane filter)")

StringParameter	band (description="Filter band")
StringParameter	sourceFile (description="Source file used to build this transmission")
FloatId	transmission (description="transmission", quantity="")
FloatId	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")
FloatId	transmission (description="transmission", quantity="")
FloatId	wavelength (description="wavelength", quantity="micron [1.0E-6 m]")

10.2.12. FlatField

<i>product (type="FlatField", description="FlatFields calibration product for the red and blue photometer.")</i>	
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")
compos- ite	(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="")
compos- ite	(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="")
compos- ite	(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")

<i>Metadata</i>		
<i>Int2d</i>	(description="blue coverage", quantity="")	

10.2.13. Gain

<i>product (type="Gain", description="Photometer Gain parameters for Digits to Volts conversion")</i>		
<i>Metadata</i>		
StringParameter	type (description="Product Type Identification")	
StringParameter	creator (description="Generator of this product")	
DateParameter	creationDate (description="Date of file creation")	
StringParameter	description (description="Name of this product")	
StringParameter	instrument (description="Instrument attached to this product")	
StringParameter	modelName (description="Model name attached to this product")	
DateParameter	startDate (description="Start time of this product")	
DateParameter	endDate (description="End time of this product")	
StringParameter	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")	
<i>array dataset</i>	(description="null")	
<i>Metadata</i>		
<i>Double1d</i>	(description="null", quantity="none")	
<i>array dataset</i>	(description="null")	
<i>Metadata</i>		
<i>Double1d</i>	(description="null", quantity="none")	

10.2.14. Invntt

<i>product (type="Invntt", description="Noise2Noise correlation for MadMap")</i>		
<i>Metadata</i>		
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

<i>product (type="InvnttBL", description="BL band inverse noise time-time correlation for MadMap based on the low-freq noise observations of OD97")</i>	
Meta- ta	
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")

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

10.2.16. InvnttBS

<i>product (type="InvnttBS", description="BS band inverse noise time-time correlation for MadMap based on the low-freq noise observations of OD97")</i>	
<i>Metada- ta</i>	
<i>StringParame- ter</i>	type (description="null")
<i>StringParame- ter</i>	creator (description="null")
<i>DateParame- ter</i>	creationDate (description="Creation date of this product")
<i>StringParame- ter</i>	description (description="null")
<i>StringParame- ter</i>	instrument (description="null")
<i>StringParame- ter</i>	modelName (description="null")
<i>DateParame- ter</i>	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")
array dataset	(description="null")
Metadata	
Double2d	(description="null", quantity="none")

10.2.17. Masks

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

StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
StringParameter	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

<i>product (type="NoisePerPixel", description="Noise for each pixel to populate the starting values in the noise cube")</i>	
Metada- ta	
StringParame- ter	type (description="Product Type Identification")
StringParame- ter	creator (description="Generator of this product")
DateParame- ter	creationDate (description="Creation date of this product")
StringParame- ter	description (description="Name of this product")
StringParame- ter	instrument (description="Instrument attached to this product")
StringParame- ter	modelName (description="Model name attached to this product")
DateParame- ter	startDate (description="Start date of this product")
DateParame- ter	endDate (description="End date of this product")
StringParame- ter	formatVersion (description="Calfile Format version")
StringParame- ter	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

<i>product (type="Responsivity", description="Responsivity calibration product for red and blue photometers.")</i>	
<i>Metadata</i>	
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")
<i>compos- ite</i>	<i>(description="null")</i>
<i>Metadata</i>	
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")
<i>array dataset</i>	(description="Responsivity in V/Jy per pixel")
<i>Metadata</i>	
<i>DoubleId</i>	(description="Responsivity in V/Jy per pixel", quantity="V/Jy [1.0E26 V m2 Hz/W]")
<i>compos- ite</i>	(description="null")
<i>Metadata</i>	
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")
<i>array dataset</i>	(description="Responsivity in V/Jy per pixel")
<i>Metadata</i>	
<i>DoubleId</i>	(description="Responsivity in V/Jy per pixel", quantity="V/Jy [1.0E26 V m2 Hz/W]")
<i>compos- ite</i>	(description="null")
<i>Metadata</i>	
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")
<i>array dataset</i>	(description="Responsivity in V/Jy per pixel")

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

10.2.20. SatLimits

<i>product (type="SatLimits", description="Matrix of saturation values for Photometer")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Date of file creation")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start time of this product")
DateParameter	endDate (description="End time of this product")
StringParameter	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")
<i>array dataset</i>	(description="Saturation values signed modes")
<i>Metadata</i>	
<i>IntId</i>	(description="Saturation values signed modes", quantity="none")
<i>array dataset</i>	(description="Saturation values unsigned modes")
<i>Metadata</i>	
<i>IntId</i>	(description="Saturation values unsigned modes", quantity="none")

10.2.21. SubArrayArray

<i>product (type="SubArrayArray", description="Coordinate conversion (row, col) -> (U,V) for the bolometer arrays")</i>	
<i>Meta-data</i>	
String-Parameter	type (description="Product Type Identification")
String-Parameter	creator (description="Creator of this Product")
DateParameter	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")
<i>array dataset</i>	(description="u coordinates for red array - pixel center")
<i>Meta-data</i>	
<i>Double2d</i>	(description="u coordinates for red array - pixel center", quantity="none")
<i>array dataset</i>	(description="v coordinates for red array - pixel center")
<i>Meta-data</i>	
<i>Double2d</i>	(description="v coordinates for red array - pixel center", quantity="none")
<i>array dataset</i>	(description="u coordinates for blue array - pixel center")
<i>Meta-data</i>	
<i>Double2d</i>	(description="u coordinates for blue array - pixel center", quantity="none")

<i>ar- ray dataset</i>	(<i>description="b coordinates for blue array - pixel center"</i>)
<i>Meta- data</i>	
<i>Double2d</i>	(<i>description="b coordinates for blue array - pixel center", quantity="none"</i>)
<i>ar- ray dataset</i>	(<i>description="u coordinates for red array - top left pixel corner"</i>)
<i>Meta- data</i>	
<i>Double2d</i>	(<i>description="u coordinates for red array - top left pixel corner", quantity="none"</i>)
<i>ar- ray dataset</i>	(<i>description="v coordinates for red array - top left pixel corner"</i>)
<i>Meta- data</i>	
<i>Double2d</i>	(<i>description="v coordinates for red array - top left pixel corner", quantity="none"</i>)
<i>ar- ray dataset</i>	(<i>description="u coordinates for blue array - top left pixel corner"</i>)
<i>Meta- data</i>	
<i>Double2d</i>	(<i>description="u coordinates for blue array - top left pixel corner", quantity="none"</i>)
<i>ar- ray dataset</i>	(<i>description="b coordinates for blue array - top left pixel corner"</i>)
<i>Meta- data</i>	
<i>Double2d</i>	(<i>description="b coordinates for blue array - top left pixel corner", quantity="none"</i>)
<i>ar- ray dataset</i>	(<i>description="u coordinates for red array - top right pixel corner"</i>)
<i>Meta- data</i>	
<i>Double2d</i>	(<i>description="u coordinates for red array - top right pixel corner", quantity="none"</i>)
<i>ar- ray dataset</i>	(<i>description="v coordinates for red array - top right pixel corner"</i>)
<i>Meta- data</i>	
<i>Double2d</i>	(<i>description="v coordinates for red array - top right pixel corner", quantity="none"</i>)
<i>ar- ray dataset</i>	(<i>description="u coordinates for blue array - top right pixel corner"</i>)
<i>Meta- data</i>	
<i>Double2d</i>	(<i>description="u coordinates for blue array - top right pixel corner", quantity="none"</i>)

<i>ar-ray dataset</i>	(<i>description="b coordinates for blue array - top right pixel corner"</i>)
<i>Meta-data</i>	
<i>Double2d</i>	(<i>description="b coordinates for blue array - top right pixel corner", quantity="none"</i>)
<i>ar-ray dataset</i>	(<i>description="u coordinates for red array - bottom right pixel corner"</i>)
<i>Meta-data</i>	
<i>Double2d</i>	(<i>description="u coordinates for red array - bottom right pixel corner", quantity="none"</i>)
<i>ar-ray dataset</i>	(<i>description="v coordinates for red array - bottom right pixel corner"</i>)
<i>Meta-data</i>	
<i>Double2d</i>	(<i>description="v coordinates for red array - bottom right pixel corner", quantity="none"</i>)
<i>ar-ray dataset</i>	(<i>description="u coordinates for blue array - bottom right pixel corner"</i>)
<i>Meta-data</i>	
<i>Double2d</i>	(<i>description="u coordinates for blue array - bottom right pixel corner", quantity="none"</i>)
<i>ar-ray dataset</i>	(<i>description="b coordinates for blue array - bottom right pixel corner"</i>)
<i>Meta-data</i>	
<i>Double2d</i>	(<i>description="b coordinates for blue array - bottom right pixel corner", quantity="none"</i>)
<i>ar-ray dataset</i>	(<i>description="u coordinates for red array - bottom left pixel corner"</i>)
<i>Meta-data</i>	
<i>Double2d</i>	(<i>description="u coordinates for red array - bottom left pixel corner", quantity="none"</i>)
<i>ar-ray dataset</i>	(<i>description="v coordinates for red array - bottom left pixel corner"</i>)
<i>Meta-data</i>	
<i>Double2d</i>	(<i>description="v coordinates for red array - bottom left pixel corner", quantity="none"</i>)
<i>ar-ray dataset</i>	(<i>description="u coordinates for blue array - bottom left pixel corner"</i>)
<i>Meta-data</i>	
<i>Double2d</i>	(<i>description="u coordinates for blue array - bottom left pixel corner", quantity="none"</i>)

<i>array dataset</i>	(description="b coordinates for blue array - bottom left pixel corner")
<i>Meta-data</i>	
<i>Double2d</i>	(description="b coordinates for blue array - bottom left pixel corner", quantity="none")

10.2.22. TimeDependency

<i>product (type="TimeDependency", description="Defines time dependency for calibration products.")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>informaltable dataset</i>	(description="Time Dependency Informaltable for FM")
<i>Metadata</i>	
StringParameter	modelName (description="The instrument model name")
DateParameter	lastUpdated (description="null")
StringParameter	lastUpdatedBy (description="null")
StringParameter	scope (description="scope can take values of BASE, TEST, or PRIVATE")
<i>StringId</i>	type (description="null", quantity="none")
<i>StringId</i>	unit (description="null", quantity="none")
<i>LongId</i>	time (description="null", quantity="none")
<i>LongId</i>	version (description="null", quantity="none")
<i>StringId</i>	comment (description="null", quantity="none")

10.3. PACS Spectrometer Calibration Products

10.3.1. AbsoluteCapacitance

<i>product (type="AbsoluteCapacitance", description="contains the measured capacitances for the red and blue array")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
<i>array dataset</i>	<i>(description="measured capacitances per red module")</i>
<i>Metadata</i>	
<i>Double3d</i>	<i>(description="measured capacitances per red module", quantity="pF [1.0E-12 F]")</i>
<i>array dataset</i>	<i>(description="measured capacitances per blue module")</i>
<i>Metadata</i>	
<i>Double3d</i>	<i>(description="measured capacitances per blue module", quantity="pF [1.0E-12 F]")</i>

10.3.2. ArrayInstrument

<i>product (type="ArrayInstrument", description="Array to Instrument coordinate conversion")</i>	
<i>Meta-data</i>	
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)")

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

10.3.3. BadPixelMask

<i>product (type="BadPixelMask", description="Bad pixels mask for PACS Photometer")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="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")
<i>array dataset</i>	(description="Bad Pixels mask for the Red Photometer")
<i>Metadata</i>	
<i>Bool2d</i>	(description="Bad Pixels mask for the Red Photometer", quantity="none")
<i>array dataset</i>	(description="Bad Pixels mask for the Blue Photometer")
<i>Metadata</i>	
<i>Bool2d</i>	(description="Bad Pixels mask for the Blue Photometer", quantity="none")
<i>array dataset</i>	(description="null")
<i>Metadata</i>	
<i>Bool2d</i>	(description="null", quantity="none")

10.3.4. CalSourceFlux

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

<i>Metadata</i>	
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")
<i>informaltable dataset</i>	(description="contains the fluxes in Jy of both calibration sources 1 and 2 at ea&")
<i>Metadata</i>	
<i>StringId</i>	idstr (description="identification name for the key wavelength", quantity="")
<i>DoubleId</i>	keywave (description="prime key wavelengths", quantity="micron [1.0E-6 m]")
<i>Double3d</i>	cs1flux (description="flux of CS1 at prime key wavelengths", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double3d</i>	cs2flux (description="flux of CS2 at prime key wavelengths", quantity="Jy [1.0E-26 W/m2/Hz]")

10.3.5. CapacitanceRatios

<i>product (type="CapacitanceRatios", description="contains the capacitance ratios for the red and blue array")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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

<i>product (type="ChopperThrowDescription", description="Defines the CPR (chopper position read-outs) versus a verbal description")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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	
StringId	throwNames (description="null", quantity="none")
IntId	cprPos (description="null", quantity="none")
IntId	tolerance (description="null", quantity="none")

10.3.7. CrosstalkMatrix

<i>product (type="CrosstalkMatrix", description="Photometer Crosstalk matrix for red and blue channel")</i>
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<i>Metadata</i>	
StringParameter	type (description="Photometer Crosstalk Matrix")
StringParameter	creator (description="creator of this calfile")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="description of this calfile")
StringParameter	instrument (description="null")
StringParameter	modelName (description="null")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
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")
<i>Metadata</i>	
Double2d	(description="Photometer Crosstalk matrix for red channel", quantity="none")
array dataset	(description="Photometer Crosstalk matrix for blue channel")
<i>Metadata</i>	
Double2d	(description="Photometer Crosstalk matrix for blue channel", quantity="none")

10.3.8. DarkCurrent

<i>product (type="DarkCurrent", description="dark current [V/s] for PACS spectrometer blue and red arrays.")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")

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

10.3.9. DetectorSortMatrix

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

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10.3.10. DiscardRampHooks

<i>product (type="DiscardRampHooks", description="number of discarded readouts at the ramp start to account for the hook response")</i>					
<i>Metadata</i>					
StringParameter	type (description="Product Type Identification")				
StringParameter	creator (description="Generator of this product")				
DateParameter	creationDate (description="Creation date of this product")				
StringParameter	description (description="Name of this product")				
StringParameter	instrument (description="Instrument attached to this product")				
StringParameter	modelName (description="Model name attached to this product")				
DateParameter	startDate (description="Start date of this product")				
DateParameter	endDate (description="End date of this product")				
StringParameter	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	<i>(description="number of full resolution red ramp readouts affected by the initial&")</i>				
<i>Metadata</i>					
Int1d	<i>(description="number of full resolution red ramp readouts affected by the initial&", quantity="none")</i>				

10.3.11. EffectiveCapacitance

<i>product (type="EffectiveCapacitance", description="Effective measured capacitances of the four possible commandable capacitances of the spectrometer")</i>					
<i>Metadata</i>					
StringParameter	type (description="Product Type Identification")				
StringParameter	creator (description="Generator of this product")				
DateParameter	creationDate (description="Date of file creation")				
StringParameter	description (description="Name of this product")				
StringParameter	instrument (description="Instrument attached to this product")				
StringParameter	modelName (description="Model name attached to this product")				
DateParameter	startDate (description="Start date of this product")				
DateParameter	endDate (description="End date of this product")				
StringParameter	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	
DoubleId	(description="effective measured capacitances in pF", quantity="none")

10.3.12. FilterBandConversion

<i>product (type="FilterBandConversion", description="Defines the wheel position (wpr) readout to band conversion")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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	
IntId	wpr (description="null", quantity="none")
StringId	band (description="null", quantity="none")
StringId	camera (description="null", quantity="none")
StringId	description (description="null", quantity="none")

10.3.13. GprHall

<i>product (type="GprHall", description="Defines the GPR (DM_GRAT_CUR_POS) versus Hall sensor readback calibration object")</i>	
Meta-data	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
	creationDate (description="Date of file creation")

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="Calfile format version")
StringParameter	calFileId (description="null")
StringParameter	author (description="Author of the data")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
array dataset	(description="Grating position readback")
Metadata	
DoubleId	(description="Grating position readback", quantity="none")
array dataset	(description="HALL A sensor")
Metadata	
DoubleId	(description="HALL A sensor", quantity="none")
array dataset	(description="HALL B sensor")
Metadata	
DoubleId	(description="HALL B sensor", quantity="none")
informaltable dataset	(description="Sorted, Unique, Partitionned 0_A")
Metadata	
DoubleId	Hall (description="null", quantity="none")
DoubleId	GPR (description="null", quantity="none")
informaltable dataset	(description="Sorted, Unique, Partitionned 1_A")
Metadata	
DoubleId	Hall (description="null", quantity="none")
DoubleId	GPR (description="null", quantity="none")

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

10.3.14. GratingJitterThreshold

<i>product (type="GratingJitterThreshold", description="value for the jitter threshold of the final grating positions in readout units")</i>	
<i>Metadata</i>	
StringParameter	type (<i>description="Product Type Identification"</i>)
StringParameter	creator (<i>description="Generator of this product"</i>)
DateParameter	creationDate (<i>description="Creation date of this product"</i>)

StringParameter	description (description="Name 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")
<i>array dataset</i>	(description="accuracy of final grating position in readouts")
<i>Metadata</i>	
<i>DoubleId</i>	(description="accuracy of final grating position in readouts", quantity="none")

10.3.15. KeyWavelengths

<i>product (type="KeyWavelengths", description="defines the primary and secondary key wavelengths")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
<i>informaltable dataset</i>	(description="definitions of primary and secondary key wavelengths")
<i>Metadata</i>	
<i>IntId</i>	id (description="key wavelength counter", quantity="")
<i>StringId</i>	band (description="band name for the key wavelength", quantity="")
<i>DoubleId</i>	keywave (description="key wavelengths", quantity="micron [1.0E-6 m]")
<i>StringId</i>	

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

10.3.16. LabelDescription

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

10.3.17. LittrowParameters

<i>product</i> (type="LittrowParameters", description="Littrow parameters for wavelength calibration")	
<i>Metadata</i>	
	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	
DoubleId	(description="Grating Constant", quantity="none")
array dataset	(description="Grating readout steps per degree")
Metadata	
DoubleId	(description="Grating readout steps per degree", quantity="none")
array dataset	(description="Angular deviation from ideal Littrow case (input angle)")
Metadata	
DoubleId	(description="Angular deviation from ideal Littrow case (input angle)", quantity="none")
array dataset	(description="Angular deviation from ideal Littrow case (output angle)")
Metadata	
DoubleId	(description="Angular deviation from ideal Littrow case (output angle)", quantity="none")
array dataset	(description="Correction of output angle per pixel unit offset to central pixel")

<i>Metadata</i>	
<i>DoubleId</i>	(description="Correction of output angle per pixel unit offset to central pixel", quantity="none")
<i>array dataset</i>	(description="Correction of output angle per pixel unit offset to central pixel")
<i>Metadata</i>	
<i>DoubleId</i>	(description="Correction of output angle per pixel unit offset to central pixel", quantity="none")
<i>array dataset</i>	(description="Grating angle at grating zero position")
<i>Metadata</i>	
<i>DoubleId</i>	(description="Grating angle at grating zero position", quantity="none")
<i>array dataset</i>	(description="Grating angle at grating zero position")
<i>Metadata</i>	
<i>DoubleId</i>	(description="Grating angle at grating zero position", quantity="none")

10.3.18. LittrowPolynomes

<i>product</i> (type="LittrowPolynomes", description="Grating wavelength calibration: Littrow equation parameters / polynome approximation for alpha per pixel")	
<i>Meta-data</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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	
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")

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

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

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

<i>product (type="ModuleArray", description="Module to Array coordinate conversion calibration object")</i>	
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	
DoubleId	(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	
DoubleId	(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	
DoubleId	(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	
DoubleId	(description="x-stage (-z-sky) coordinate of the red module w.r.t module 12 as re&", quantity="none")

<i>array dataset</i>	(description="y-stage (y-sky) coordinate of the blue module w.r.t module 12 as re&")
<i>Meta-data</i>	
<i>DoubleId</i>	(description="y-stage (y-sky) coordinate of the blue module w.r.t module 12 as re&", quantity="none")
<i>array dataset</i>	(description="x-stage (-z-sky) coordinate of the blue module w.r.t module 12 as r&")
<i>Meta-data</i>	
<i>DoubleId</i>	(description="x-stage (-z-sky) coordinate of the blue module w.r.t module 12 as r&", quantity="none")
<i>array dataset</i>	(description="y-stage (y-sky) coordinate of the red module w.r.t module 12 as ref&")
<i>Meta-data</i>	
<i>DoubleId</i>	(description="y-stage (y-sky) coordinate of the red module w.r.t module 12 as ref&", quantity="none")
<i>array dataset</i>	(description="x-stage (-z-sky) coordinate of the red module w.r.t module 12 as re&")
<i>Meta-data</i>	
<i>DoubleId</i>	(description="x-stage (-z-sky) coordinate of the red module w.r.t module 12 as re&", quantity="none")
<i>array dataset</i>	(description="y-stage (y-sky) coordinate of the blue module w.r.t module 12 as re&")
<i>Meta-data</i>	
<i>DoubleId</i>	(description="y-stage (y-sky) coordinate of the blue module w.r.t module 12 as re&", quantity="none")
<i>array dataset</i>	(description="x-stage (-z-sky) coordinate of the blue module w.r.t module 12 as r&")
<i>Meta-data</i>	
<i>DoubleId</i>	(description="x-stage (-z-sky) coordinate of the blue module w.r.t module 12 as r&", quantity="none")
<i>array dataset</i>	(description="y-stage (y-sky) coordinate of the red module w.r.t module 12 as ref&")
<i>Meta-data</i>	
<i>DoubleId</i>	(description="y-stage (y-sky) coordinate of the red module w.r.t module 12 as ref&", quantity="none")
<i>array dataset</i>	(description="x-stage (-z-sky) coordinate of the red module w.r.t module 12 as re&")
<i>Meta-data</i>	
<i>DoubleId</i>	(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&")
Meta- data	
DoubleId	(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&")
Meta- data	
DoubleId	(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&")
Meta- data	
DoubleId	(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&")
Meta- data	
DoubleId	(description="x-stage (-z-sky) coordinate of the red module w.r.t module 12 as re&", quantity="none")

10.3.20. NoisyPixelMask

<i>product (type="NoisyPixelMask", description="Noisy pixels mask for PACS spectrometer.")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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	

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

10.3.21. NominalResponse

<i>product</i> (type="NominalResponse", description="contains the nominal responses in V/s/Jy per prime key wavelength")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
<i>informaltable dataset</i>	(description="contains the nominal responses in V/s/Jy for each band")
<i>Metadata</i>	
<i>Double2d</i>	b2a (description="response of band B2A", quantity="V/(s Jy) [1.0E26 V m2 Hz/(s W)]")
<i>Double2d</i>	b2b (description="response of band B2B", quantity="V/(s Jy) [1.0E26 V m2 Hz/(s W)]")
<i>Double2d</i>	b3a (description="response of band B3A", quantity="V/(s Jy) [1.0E26 V m2 Hz/(s W)]")
<i>Double2d</i>	r1 (description="response of band R1", quantity="V/(s Jy) [1.0E26 V m2 Hz/(s W)]")

10.3.22. NonLinearity

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

StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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

<i>product (type="Psf", description="Point spread functions for the red and blue spectrometer.")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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

<i>product (type="RampSatLimits", description="contains the ramp saturation limits (digits) for the red and blue array")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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&")

<i>Metadata</i>	
<i>Double3d</i>	(description="saturation limits of the red array in digits dependent on the capac&", quantity="none")
<i>array dataset</i>	(description="saturation limits of the blue array in digits dependent on the capac&")
<i>Metadata</i>	
<i>Double3d</i>	(description="saturation limits of the blue array in digits dependent on the capac&", quantity="none")

10.3.25. Readouts2Volts

<i>product (type="Readouts2Volts", description="Defines the ramp readout to volt conversion")</i>	
<i>Metada- ta</i>	
<i>StringPa- rameter</i>	type (description="Product Type Identification")
<i>StringPa- rameter</i>	creator (description="Generator of this product")
<i>DateParame- ter</i>	creationDate (description="Date of file creation")
<i>StringPa- rameter</i>	description (description="Name of this product")
<i>StringPa- rameter</i>	instrument (description="Instrument attached to this product")
<i>StringPa- rameter</i>	modelName (description="Model name attached to this product")
<i>DateParame- ter</i>	startDate (description="Start date of this product")
<i>DateParame- ter</i>	endDate (description="End date of this product")
<i>StringPa- rameter</i>	formatVersion (description="Calfile format version")
<i>StringPa- rameter</i>	calFileId (description="null")
<i>LongParam- eter</i>	calFileVersion (description="Calfile version")
<i>StringPa- rameter</i>	author (description="Author of the data")
<i>StringPa- rameter</i>	fileName (description="null")
<i>array dataset</i>	(description="Start value Digits")
<i>Metadata</i>	
<i>Double1d</i>	(description="Start value Digits", quantity="none")
<i>array dataset</i>	(description="End value Digits")
<i>Metadata</i>	

<i>DoubleId</i>	(description="End value Digits", quantity="none")
<i>array dataset</i>	(description="Start value Voltage")
<i>Metadata</i>	
<i>DoubleId</i>	(description="Start value Voltage", quantity="none")
<i>array dataset</i>	(description="End value Voltage")
<i>Metadata</i>	
<i>DoubleId</i>	(description="End value Voltage", quantity="none")
<i>array dataset</i>	(description="Start value Digits")
<i>Metadata</i>	
<i>DoubleId</i>	(description="Start value Digits", quantity="none")
<i>array dataset</i>	(description="End value Digits")
<i>Metadata</i>	
<i>DoubleId</i>	(description="End value Digits", quantity="none")
<i>array dataset</i>	(description="Start value Voltage")
<i>Metadata</i>	
<i>DoubleId</i>	(description="Start value Voltage", quantity="none")
<i>array dataset</i>	(description="End value Voltage")
<i>Metadata</i>	
<i>DoubleId</i>	(description="End value Voltage", quantity="none")

10.3.26. RelCalSourceFlux

<i>product</i> (type="RelCalSourceFlux", description="contains the flux ratios of both calibration sources at key wavelengths to prime key wavelengths")	
<i>Metadata</i>	
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	
StringId	idstr (description="identification name for the key wavelength", quantity="")
DoubleId	keywave (description="secondary key wavelengths", quantity="micron [1.0E-6 m]")
DoubleId	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="")
StringId	primeidstr (description="null", quantity="none")

10.3.27. RsrFB2A

<i>product (type="RsrFB2A", description="Relative spectral Response Function for one spectral band")</i>	
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")

StringParameter	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")

	<i>BoolId</i>	UserInput (description="Needs user input", quantity="none")
	<i>StringId</i>	Class (description="Class of the parameter", quantity="none")
	<i>StringId</i>	ProductType (description="Product Type for History", quantity="none")
	<i>StringId</i>	ProductId (description="Human Readable Product Identifier for History", quantity="none")

10.3.28. Sensitivity

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

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

10.3.29. SignalSatLimits

<i>product (type="SignalSatLimits", description="contains the signal saturation limits (digits/second) for the red and blue array scaled for 1 second reset interval")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Calfile Format version")
StringParameter	calFileId (description="null")
StringParameter	fileName (description="null")
LongParameter	calFileVersion (description="null")
StringParameter	author (description="Author of the data")
<i>array dataset</i>	<i>(description="dynamic range of red array for 1 sec reset interval, sat limit for &")</i>
<i>Metadata</i>	
<i>Double3d</i>	<i>(description="dynamic range of red array for 1 sec reset interval, sat limit for &", quantity="1/s")</i>
<i>array dataset</i>	<i>(description="dynamic range of blue array for 1 sec reset interval, sat limit for&")</i>
<i>Metadata</i>	
<i>Double3d</i>	<i>(description="dynamic range of blue array for 1 sec reset interval, sat limit for&", quantity="none")</i>

10.3.30. SpecProperties

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

10.3.31. TelescopeBackground

<i>product (type="TelescopeBackground", description="SED of the telescope background")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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	
DoubleId	(description="wavelengths", quantity="micron [1.0E-6 m]")

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

10.3.32. TimeDependency

<i>product (type="TimeDependency", description="Defines time dependency for calibration products.")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>informaltable dataset</i>	(description="Time Dependency Informaltable for FM")
<i>Metadata</i>	
StringParameter	modelName (description="The instrument model name")
DateParameter	lastUpdated (description="null")
StringParameter	lastUpdatedBy (description="null")
StringParameter	scope (description="scope can take values of BASE, TEST, or PRIVATE")
<i>StringId</i>	type (description="null", quantity="none")
<i>StringId</i>	unit (description="null", quantity="none")
<i>LongId</i>	time (description="null", quantity="none")
<i>LongId</i>	version (description="null", quantity="none")
<i>StringId</i>	comment (description="null", quantity="none")

Chapter 11. SPIRE Observational Products

11.1. SPIRE Level-0 Products

11.1.1. RPDT: Raw Photometer Detector Timeline

<i>product (type="RPDT", description="Raw Photometer Detector Timeline")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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="")
	Int1d	PHOTFARRAY020 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY021 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY022 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY023 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY024 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY025 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY026 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY027 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY028 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY029 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY030 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY031 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY032 (description="Parameter Value", quantity="")
	Int1d	PHOTFARRAY033 (description="Parameter Value", quantity="")

<i>IntId</i>	PHOTFARRAY286 (description="Parameter Value", quantity="")
<i>IntId</i>	PHOTFARRAY287 (description="Parameter Value", quantity="")
<i>IntId</i>	PHOTFARRAY288 (description="Parameter Value", quantity="")
<i>IntId</i>	PHOTFADCFLGS (description="Parameter Value", quantity="")
<i>LongId</i>	PHOTFFRAMETIME (description="Parameter Value", quantity="")
<i>LongId</i>	sdfTime (description="SpireDataFrame time", quantity="")
<i>LongId</i>	packetTime (description="TM packet time", quantity="")
<i>IntId</i>	seqCount (description="Sequence count", quantity="")

11.1.2. RPOT: Raw Photometer Offset Timeline

<i>product (type="RPOT", description="Raw Photometer Offset Timeline")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")	
<i>table dataset</i>	<i>(description="Photometer Offsets")</i>	
<i>Metadata</i>		
	<i>Int1d</i>	PHOTOFF001 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF002 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF003 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF004 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF005 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF006 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF007 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF008 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF009 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF010 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF011 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF012 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF013 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF014 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF015 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF016 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF017 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF018 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF019 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF020 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF021 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF022 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF023 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF024 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF025 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF026 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF027 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF028 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF029 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF030 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF031 (description="Parameter Value", quantity="")
	<i>Int1d</i>	PHOTOFF032 (description="Parameter Value", quantity="")

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

11.1.3. RSDT: Raw Spectrometer Detector Timeline

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

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

11.1.4. RSOT: Raw Spectrometer Offset Timeline

<i>product (type="RSOT", description="Raw Spectrometer Offset Timeline")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")	
<i>table dataset</i>	<i>(description="Spectrometer Offsets")</i>	
<i>Metadata</i>		
	<i>Int1d</i>	SPECOFF001 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF002 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF003 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF004 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF005 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF006 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF007 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF008 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF009 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF010 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF011 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF012 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF013 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF014 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF015 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF016 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF017 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF018 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF019 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF020 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF021 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF022 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF023 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF024 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF025 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF026 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF027 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF028 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF029 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF030 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF031 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF032 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF033 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF034 (description="Parameter Value", quantity="")
	<i>Int1d</i>	SPECOFF035 (description="Parameter Value", quantity="")

<i>IntId</i>	SPECOFF036 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF037 (description="Parameter Value", quantity="")
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<i>IntId</i>	SPECOFF039 (description="Parameter Value", quantity="")
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<i>IntId</i>	SPECOFF041 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF042 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF043 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF044 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF045 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF046 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF047 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF048 (description="Parameter Value", quantity="")
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<i>IntId</i>	SPECOFF051 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF052 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF053 (description="Parameter Value", quantity="")
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<i>IntId</i>	SPECOFF055 (description="Parameter Value", quantity="")
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<i>IntId</i>	SPECOFF057 (description="Parameter Value", quantity="")
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<i>IntId</i>	SPECOFF059 (description="Parameter Value", quantity="")
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<i>IntId</i>	SPECOFF062 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF063 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF064 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF065 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF066 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF067 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF068 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF069 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF070 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF071 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFF072 (description="Parameter Value", quantity="")
<i>IntId</i>	SPECOFFADCFLGS (description="Parameter Value", quantity="")
<i>LongId</i>	SPECOFFFRAMETIME (description="Parameter Value", quantity="")
<i>LongId</i>	sdftime (description="SpireDataFrame time", quantity="")
<i>LongId</i>	packetTime (description="TM packet time", quantity="")

<i>IntId</i>	seqCount (description="Sequence count", quantity="")
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11.1.5. RNHKT: Raw Nominal Housekeeping Timeline

<i>product (type="RNHKT", description="Raw Nominal House Keeping Timeline")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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	
ShortId	NHK_VERS (description="Parameter Value", quantity="")
ShortId	NHK_TYPE (description="Parameter Value", quantity="")
ShortId	NHK_DFHFLAG (description="Parameter Value", quantity="")
ShortId	NHK_APID (description="Parameter Value", quantity="")
ShortId	NHK_SEGFLAG (description="Parameter Value", quantity="")
ShortId	NHK_SSC (description="Parameter Value", quantity="")
IntId	NHK_PKTLEN (description="Parameter Value", quantity="")
ShortId	NHK_PUSVERS (description="Parameter Value", quantity="")
ShortId	NHK_PKTTYPE (description="Parameter Value", quantity="")
ShortId	NHK_PKTSTYPE (description="Parameter Value", quantity="")
LongId	NHK_PKTCTIME (description="Parameter Value", quantity="")
IntId	NHK_PKTFTIME (description="Parameter Value", quantity="")
IntId	BBFULLTYPE (description="Parameter Value", quantity="")
IntId	MODE (description="Parameter Value", quantity="")
IntId	STEP (description="Parameter Value", quantity="")
LongId	THSK (description="Parameter Value", quantity="")
LongId	TRESET (description="Parameter Value", quantity="")
IntId	TCRECV (description="Parameter Value", quantity="")
IntId	TCRECN (description="Parameter Value", quantity="")
IntId	TCEXEC (description="Parameter Value", quantity="")
IntId	TCEXEN (description="Parameter Value", quantity="")
IntId	TM1N (description="Parameter Value", quantity="")
IntId	TM2N (description="Parameter Value", quantity="")
IntId	TM3N (description="Parameter Value", quantity="")
IntId	TM4N (description="Parameter Value", quantity="")
IntId	TM5N (description="Parameter Value", quantity="")
IntId	DCUFRAMECNT (description="Parameter Value", quantity="")
IntId	MCUFRAMECNT (description="Parameter Value", quantity="")
IntId	SCUFRAMECNT (description="Parameter Value", quantity="")
LongId	TSYNC (description="Parameter Value", quantity="")
LongId	TDIFF (description="Parameter Value", quantity="")
IntId	MEMSTAT_1 (description="Parameter Value", quantity="")
IntId	MEMSTAT_2 (description="Parameter Value", quantity="")
IntId	MEMSTAT_3 (description="Parameter Value", quantity="")
IntId	MONSTAT (description="Parameter Value", quantity="")
ShortId	DCULSIFSTAT (description="Parameter Value", quantity="")
ShortId	DCUHSIFMODE (description="Parameter Value", quantity="")
ShortId	MCULSIFSTAT (description="Parameter Value", quantity="")
ShortId	MCUHSIFMODE (description="Parameter Value", quantity="")

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

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

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<i>Short1d</i>	OBSVER2 (description="Parameter Value", quantity="")
<i>Short1d</i>	OBSVER3 (description="Parameter Value", quantity="")
<i>Int1d</i>	TMMODE (description="Parameter Value", quantity="")
<i>Int1d</i>	FIFO_DF_FLAG (description="Parameter Value", quantity="")
<i>Int1d</i>	PLIAP5V (description="Parameter Value", quantity="")
<i>Int1d</i>	PLIAP9V (description="Parameter Value", quantity="")
<i>Int1d</i>	PLIAM9V (description="Parameter Value", quantity="")
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<i>Int1d</i>	SLIAP9V (description="Parameter Value", quantity="")
<i>Int1d</i>	SLIAM9V (description="Parameter Value", quantity="")
<i>Int1d</i>	LIAP9TEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	LIAP8TEMP (description="Parameter Value", quantity="")
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<i>Int1d</i>	LIAP6TEMP (description="Parameter Value", quantity="")
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<i>Int1d</i>	LIAS2TEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	LIAS3TEMP (description="Parameter Value", quantity="")
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<i>Int1d</i>	DAQTEMP (description="Parameter Value", quantity="")
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<i>Short1d</i>	LIAP2STAT (description="Parameter Value", quantity="")
<i>Short1d</i>	LIAP3STAT (description="Parameter Value", quantity="")
<i>Short1d</i>	LIAP4STAT (description="Parameter Value", quantity="")
<i>Short1d</i>	LIAP5STAT (description="Parameter Value", quantity="")
<i>Short1d</i>	LIAP6STAT (description="Parameter Value", quantity="")
<i>Short1d</i>	LIAP7STAT (description="Parameter Value", quantity="")
<i>Short1d</i>	LIAP8STAT (description="Parameter Value", quantity="")
<i>Short1d</i>	LIAP9STAT (description="Parameter Value", quantity="")
<i>Short1d</i>	LIAS1STAT (description="Parameter Value", quantity="")
<i>Short1d</i>	LIAS2STAT (description="Parameter Value", quantity="")
<i>Short1d</i>	LIAS3STAT (description="Parameter Value", quantity="")

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<i>Int1d</i>	MCUIFCTRL (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUSSDEL (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUP5V (description="Parameter Value", quantity="")
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<i>Int1d</i>	MCUM14V (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUP15V (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUM15V (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUMACTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUSMECTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUBSMTEMP (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUERR (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUSCHEDCNTLSW (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUSCHEDCNTMSW (description="Parameter Value", quantity="")
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<i>Int1d</i>	MCUTM14TSAMPLE (description="Parameter Value", quantity="")
<i>Int1d</i>	MCUTM15TSAMPLE (description="Parameter Value", quantity="")
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<i>Int1d</i>	SMECENCPOWER (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECLVDTPWR (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECLATCHSTAT (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECLOOPMODE (description="Parameter Value", quantity="")
<i>Int1d</i>	SCANSTART (description="Parameter Value", quantity="")
<i>Int1d</i>	SCANEND (description="Parameter Value", quantity="")
<i>Int1d</i>	SCANFSPEED (description="Parameter Value", quantity="")
<i>Int1d</i>	SCANS (description="Parameter Value", quantity="")
<i>Int1d</i>	SCANMODE (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECKP (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECKD (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECDFILT (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECKI (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECINTLIMIT (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECINTTHRESH (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECRATELIMIT (description="Parameter Value", quantity="")
<i>Int1d</i>	SMECDFILT2 (description="Parameter Value", quantity="")

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

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

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

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

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

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

11.1.6. RCHKT: Raw Critical Housekeeping Timeline

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

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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")
<i>table dataset</i>	<i>(description="Critical HK Parameter Report")</i>
<i>Metadata</i>	
<i>IntId</i>	SID_C (description="Parameter Value", quantity="")
<i>LongId</i>	OBSID_C (description="Parameter Value", quantity="")
<i>LongId</i>	BBID_C (description="Parameter Value", quantity="")
<i>IntId</i>	MODE_C (description="Parameter Value", quantity="")
<i>IntId</i>	STEP_C (description="Parameter Value", quantity="")
<i>IntId</i>	TCRECV_C (description="Parameter Value", quantity="")
<i>IntId</i>	TCEXEC_C (description="Parameter Value", quantity="")
<i>IntId</i>	MEMSTAT1_C (description="Parameter Value", quantity="")
<i>IntId</i>	MEMSTAT2_C (description="Parameter Value", quantity="")
<i>IntId</i>	MEMSTAT3_C (description="Parameter Value", quantity="")
<i>IntId</i>	MONSTAT_C (description="Parameter Value", quantity="")
<i>IntId</i>	SCUDCDCSTAT_C (description="Parameter Value", quantity="")
<i>IntId</i>	MCUIFSTAT_C (description="Parameter Value", quantity="")
<i>IntId</i>	SCUIFSTAT_C (description="Parameter Value", quantity="")
<i>IntId</i>	PSWJFETSTAT_C (description="Parameter Value", quantity="")
<i>ShortId</i>	PSW_VDD_JFET1_C (description="Parameter Value", quantity="")
<i>ShortId</i>	PSW_VDD_JFET2_C (description="Parameter Value", quantity="")

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

<i>ShortId</i>	CHK_SEGFLAG (description="Parameter Value", quantity="")
<i>ShortId</i>	CHK_SSC (description="Parameter Value", quantity="")
<i>IntId</i>	CHK_PKTLEN (description="Parameter Value", quantity="")
<i>ShortId</i>	CHK_PUSVERS (description="Parameter Value", quantity="")
<i>ShortId</i>	CHK_PKTTYPE (description="Parameter Value", quantity="")
<i>ShortId</i>	CHK_PKTSTYPE (description="Parameter Value", quantity="")
<i>LongId</i>	CHK_PKTCTIME (description="Parameter Value", quantity="")
<i>IntId</i>	CHK_PKTFTIME (description="Parameter Value", quantity="")
<i>LongId</i>	sdfTime (description="SpireDataFrame time", quantity="")
<i>LongId</i>	packetTime (description="TM packet time", quantity="")
<i>IntId</i>	seqCount (description="Sequence count", quantity="")

11.1.7. RBSMT: Raw Beam Steering Mirror Timeline

<i>product</i> (type="RBSMT", description="Raw Beam Steering Mirror Timeline")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>table dataset</i>	(description="BSM Block (Nominal Science Report)")
<i>Metadata</i>	
<i>LongId</i>	BSMACQTIME (description="Parameter Value", quantity="")
<i>IntId</i>	BSMCHOPSENSSIG (description="Parameter Value", quantity="")
<i>IntId</i>	BSMCHOPMOTORCURR (description="Parameter Value", quantity="")
<i>IntId</i>	BSMCHOPMOTORVOLT (description="Parameter Value", quantity="")
<i>IntId</i>	BSMJIGSENSSIG (description="Parameter Value", quantity="")
<i>IntId</i>	BSMJIGGMOTORCURR (description="Parameter Value", quantity="")
<i>IntId</i>	BSMJIGGMOTORVOLT (description="Parameter Value", quantity="")
<i>LongId</i>	BSMTTIME (description="Parameter Value", quantity="")
<i>LongId</i>	sdfTime (description="SpireDataFrame time", quantity="")
<i>LongId</i>	packetTime (description="TM packet time", quantity="")
<i>IntId</i>	seqCount (description="Sequence count", quantity="")

11.1.8. RSMECT: Raw Spectrometer Mechanism Timeline

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

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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")
<i>table dataset</i> (description="SMEC Selected Data (B Type Science Report)")	
<i>Metadata</i>	
<i>LongId</i>	SMECSELACQTIME (description="Parameter Value", quantity="")
<i>IntId</i>	SMECSELENCPOSN (description="Parameter Value", quantity="")
<i>IntId</i>	SMECSELENCFINEPOSN (description="Parameter Value", quantity="")
<i>IntId</i>	SMECSELLVDTPOSN (description="Parameter Value", quantity="")
<i>IntId</i>	SMECSELMOTORBEMF (description="Parameter Value", quantity="")
<i>LongId</i>	sdfTime (description="SpireDataFrame time", quantity="")
<i>LongId</i>	packetTime (description="TM packet time", quantity="")
<i>IntId</i>	seqCount (description="Sequence count", quantity="")

11.1.9. RSCUT: Raw Subsystem Control Unit Timeline

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

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

11.2. SPiRE Level-0.5 Products

11.2.1. PDT: Photometer Detector Timeline

<i>product (type="PDT", description="Photometer Detector Timeline")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")

StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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	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	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")

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

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

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

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

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

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

	<i>Float1d</i>	PTCP2 (description="PHOTFARRAY287", quantity="V")
	<i>Float1d</i>	PTCP3 (description="PHOTFARRAY288", quantity="V")
<i>table dataset</i>	(description="Resistances table")	
	<i>Metadata</i>	
	<i>Double1d</i>	sampleTime (description="Sample time", quantity="TAI")
	<i>Float1d</i>	PSWR1 (description="PHOTFARRAY001", quantity="?")
	<i>Float1d</i>	PSWD16 (description="PHOTFARRAY002", quantity="?")
	<i>Float1d</i>	PSWT1 (description="PHOTFARRAY003", quantity="?")
	<i>Float1d</i>	PSWB16 (description="PHOTFARRAY004", quantity="?")
	<i>Float1d</i>	PSWC15 (description="PHOTFARRAY005", quantity="?")
	<i>Float1d</i>	PSWA15 (description="PHOTFARRAY006", quantity="?")
	<i>Float1d</i>	PSWD15 (description="PHOTFARRAY007", quantity="?")
	<i>Float1d</i>	PSWB15 (description="PHOTFARRAY008", quantity="?")
	<i>Float1d</i>	PSWC14 (description="PHOTFARRAY009", quantity="?")
	<i>Float1d</i>	PSWD14 (description="PHOTFARRAY010", quantity="?")
	<i>Float1d</i>	PSWA14 (description="PHOTFARRAY011", quantity="?")
	<i>Float1d</i>	PSWA13 (description="PHOTFARRAY012", quantity="?")
	<i>Float1d</i>	PSWB14 (description="PHOTFARRAY013", quantity="?")
	<i>Float1d</i>	PSWC13 (description="PHOTFARRAY014", quantity="?")
	<i>Float1d</i>	PSWB13 (description="PHOTFARRAY015", quantity="?")
	<i>Float1d</i>	PSWD13 (description="PHOTFARRAY016", quantity="?")
	<i>Float1d</i>	PSWA12 (description="PHOTFARRAY017", quantity="?")
	<i>Float1d</i>	PSWC12 (description="PHOTFARRAY018", quantity="?")
	<i>Float1d</i>	PSWD12 (description="PHOTFARRAY019", quantity="?")
	<i>Float1d</i>	PSWB12 (description="PHOTFARRAY020", quantity="?")
	<i>Float1d</i>	PSWE11 (description="PHOTFARRAY021", quantity="?")
	<i>Float1d</i>	PSWA11 (description="PHOTFARRAY022", quantity="?")
	<i>Float1d</i>	PSWC11 (description="PHOTFARRAY023", quantity="?")
	<i>Float1d</i>	PSWB11 (description="PHOTFARRAY024", quantity="?")
	<i>Float1d</i>	PSWE1 (description="PHOTFARRAY025", quantity="?")
	<i>Float1d</i>	PSWF1 (description="PHOTFARRAY026", quantity="?")
	<i>Float1d</i>	PSWT2 (description="PHOTFARRAY027", quantity="?")
	<i>Float1d</i>	PSWH1 (description="PHOTFARRAY028", quantity="?")
	<i>Float1d</i>	PSWG1 (description="PHOTFARRAY029", quantity="?")
	<i>Float1d</i>	PSWJ1 (description="PHOTFARRAY030", quantity="?")
	<i>Float1d</i>	PSWH2 (description="PHOTFARRAY031", quantity="?")
	<i>Float1d</i>	PSWF2 (description="PHOTFARRAY032", quantity="?")
	<i>Float1d</i>	PSWJ2 (description="PHOTFARRAY033", quantity="?")
	<i>Float1d</i>	PSWG2 (description="PHOTFARRAY034", quantity="?")
	<i>Float1d</i>	PSWH3 (description="PHOTFARRAY035", quantity="?")
	<i>Float1d</i>	PSWJ3 (description="PHOTFARRAY036", quantity="?")

<i>Float1d</i>	PSWE2 (description="PHOTFARRAY037", quantity="?")
<i>Float1d</i>	PSWF3 (description="PHOTFARRAY038", quantity="?")
<i>Float1d</i>	PSWG3 (description="PHOTFARRAY039", quantity="?")
<i>Float1d</i>	PSWH4 (description="PHOTFARRAY040", quantity="?")
<i>Float1d</i>	PSWJ4 (description="PHOTFARRAY041", quantity="?")
<i>Float1d</i>	PSWE3 (description="PHOTFARRAY042", quantity="?")
<i>Float1d</i>	PSWF4 (description="PHOTFARRAY043", quantity="?")
<i>Float1d</i>	PSWG4 (description="PHOTFARRAY044", quantity="?")
<i>Float1d</i>	PSWH5 (description="PHOTFARRAY045", quantity="?")
<i>Float1d</i>	PSWE4 (description="PHOTFARRAY046", quantity="?")
<i>Float1d</i>	PSWJ5 (description="PHOTFARRAY047", quantity="?")
<i>Float1d</i>	PSWF5 (description="PHOTFARRAY048", quantity="?")
<i>Float1d</i>	PSWD6 (description="PHOTFARRAY049", quantity="?")
<i>Float1d</i>	PSWB6 (description="PHOTFARRAY050", quantity="?")
<i>Float1d</i>	PSWC5 (description="PHOTFARRAY051", quantity="?")
<i>Float1d</i>	PSWA5 (description="PHOTFARRAY052", quantity="?")
<i>Float1d</i>	PSWE5 (description="PHOTFARRAY053", quantity="?")
<i>Float1d</i>	PSWB5 (description="PHOTFARRAY054", quantity="?")
<i>Float1d</i>	PSWD5 (description="PHOTFARRAY055", quantity="?")
<i>Float1d</i>	PSWC4 (description="PHOTFARRAY056", quantity="?")
<i>Float1d</i>	PSWA4 (description="PHOTFARRAY057", quantity="?")
<i>Float1d</i>	PSWD4 (description="PHOTFARRAY058", quantity="?")
<i>Float1d</i>	PSWB4 (description="PHOTFARRAY059", quantity="?")
<i>Float1d</i>	PSWC3 (description="PHOTFARRAY060", quantity="?")
<i>Float1d</i>	PSWB3 (description="PHOTFARRAY061", quantity="?")
<i>Float1d</i>	PSWA3 (description="PHOTFARRAY062", quantity="?")
<i>Float1d</i>	PSWA2 (description="PHOTFARRAY063", quantity="?")
<i>Float1d</i>	PSWD3 (description="PHOTFARRAY064", quantity="?")
<i>Float1d</i>	PSWC2 (description="PHOTFARRAY065", quantity="?")
<i>Float1d</i>	PSWB2 (description="PHOTFARRAY066", quantity="?")
<i>Float1d</i>	PSWD2 (description="PHOTFARRAY067", quantity="?")
<i>Float1d</i>	PSWA1 (description="PHOTFARRAY068", quantity="?")
<i>Float1d</i>	PSWC1 (description="PHOTFARRAY069", quantity="?")
<i>Float1d</i>	PSWB1 (description="PHOTFARRAY070", quantity="?")
<i>Float1d</i>	PSWDP1 (description="PHOTFARRAY071", quantity="?")
<i>Float1d</i>	PSWD1 (description="PHOTFARRAY072", quantity="?")
<i>Float1d</i>	PSWF12 (description="PHOTFARRAY073", quantity="?")
<i>Float1d</i>	PSWJ11 (description="PHOTFARRAY074", quantity="?")
<i>Float1d</i>	PSWE12 (description="PHOTFARRAY075", quantity="?")
<i>Float1d</i>	PSWH12 (description="PHOTFARRAY076", quantity="?")
<i>Float1d</i>	PSWG12 (description="PHOTFARRAY077", quantity="?")
<i>Float1d</i>	PSWF13 (description="PHOTFARRAY078", quantity="?")

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<i>Float1d</i>	PSWE13 (description="PHOTFARRAY079", quantity="?")
<i>Float1d</i>	PSWJ12 (description="PHOTFARRAY080", quantity="?")
<i>Float1d</i>	PSWH13 (description="PHOTFARRAY081", quantity="?")
<i>Float1d</i>	PSWG13 (description="PHOTFARRAY082", quantity="?")
<i>Float1d</i>	PSWF14 (description="PHOTFARRAY083", quantity="?")
<i>Float1d</i>	PSWE14 (description="PHOTFARRAY084", quantity="?")
<i>Float1d</i>	PSWJ13 (description="PHOTFARRAY085", quantity="?")
<i>Float1d</i>	PSWH14 (description="PHOTFARRAY086", quantity="?")
<i>Float1d</i>	PSWG14 (description="PHOTFARRAY087", quantity="?")
<i>Float1d</i>	PSWJ14 (description="PHOTFARRAY088", quantity="?")
<i>Float1d</i>	PSWF15 (description="PHOTFARRAY089", quantity="?")
<i>Float1d</i>	PSWH15 (description="PHOTFARRAY090", quantity="?")
<i>Float1d</i>	PSWJ15 (description="PHOTFARRAY091", quantity="?")
<i>Float1d</i>	PSWG15 (description="PHOTFARRAY092", quantity="?")
<i>Float1d</i>	PSWH16 (description="PHOTFARRAY093", quantity="?")
<i>Float1d</i>	PSWDP2 (description="PHOTFARRAY094", quantity="?")
<i>Float1d</i>	PSWF16 (description="PHOTFARRAY095", quantity="?")
<i>Float1d</i>	PSWE15 (description="PHOTFARRAY096", quantity="?")
<i>Float1d</i>	PSWD11 (description="PHOTFARRAY097", quantity="?")
<i>Float1d</i>	PSWA10 (description="PHOTFARRAY098", quantity="?")
<i>Float1d</i>	PSWE10 (description="PHOTFARRAY099", quantity="?")
<i>Float1d</i>	PSWC10 (description="PHOTFARRAY100", quantity="?")
<i>Float1d</i>	PSWB10 (description="PHOTFARRAY101", quantity="?")
<i>Float1d</i>	PSWD10 (description="PHOTFARRAY102", quantity="?")
<i>Float1d</i>	PSWA9 (description="PHOTFARRAY103", quantity="?")
<i>Float1d</i>	PSWE9 (description="PHOTFARRAY104", quantity="?")
<i>Float1d</i>	PSWC9 (description="PHOTFARRAY105", quantity="?")
<i>Float1d</i>	PSWB9 (description="PHOTFARRAY106", quantity="?")
<i>Float1d</i>	PSWD9 (description="PHOTFARRAY107", quantity="?")
<i>Float1d</i>	PSWA8 (description="PHOTFARRAY108", quantity="?")
<i>Float1d</i>	PSWC8 (description="PHOTFARRAY109", quantity="?")
<i>Float1d</i>	PSWE8 (description="PHOTFARRAY110", quantity="?")
<i>Float1d</i>	PSWD8 (description="PHOTFARRAY111", quantity="?")
<i>Float1d</i>	PSWB8 (description="PHOTFARRAY112", quantity="?")
<i>Float1d</i>	PSWC7 (description="PHOTFARRAY113", quantity="?")
<i>Float1d</i>	PSWE7 (description="PHOTFARRAY114", quantity="?")
<i>Float1d</i>	PSWA7 (description="PHOTFARRAY115", quantity="?")
<i>Float1d</i>	PSWD7 (description="PHOTFARRAY116", quantity="?")
<i>Float1d</i>	PSWB7 (description="PHOTFARRAY117", quantity="?")
<i>Float1d</i>	PSWC6 (description="PHOTFARRAY118", quantity="?")
<i>Float1d</i>	PSWE6 (description="PHOTFARRAY119", quantity="?")
<i>Float1d</i>	PSWA6 (description="PHOTFARRAY120", quantity="?")

<i>Float1d</i>	PSWG5 (description="PHOTFARRAY121", quantity="?")
<i>Float1d</i>	PSWH6 (description="PHOTFARRAY122", quantity="?")
<i>Float1d</i>	PSWJ6 (description="PHOTFARRAY123", quantity="?")
<i>Float1d</i>	PSWF6 (description="PHOTFARRAY124", quantity="?")
<i>Float1d</i>	PSWG6 (description="PHOTFARRAY125", quantity="?")
<i>Float1d</i>	PSWH7 (description="PHOTFARRAY126", quantity="?")
<i>Float1d</i>	PSWF7 (description="PHOTFARRAY127", quantity="?")
<i>Float1d</i>	PSWJ7 (description="PHOTFARRAY128", quantity="?")
<i>Float1d</i>	PSWG7 (description="PHOTFARRAY129", quantity="?")
<i>Float1d</i>	PSWH8 (description="PHOTFARRAY130", quantity="?")
<i>Float1d</i>	PSWF8 (description="PHOTFARRAY131", quantity="?")
<i>Float1d</i>	PSWG8 (description="PHOTFARRAY132", quantity="?")
<i>Float1d</i>	PSWJ8 (description="PHOTFARRAY133", quantity="?")
<i>Float1d</i>	PSWF9 (description="PHOTFARRAY134", quantity="?")
<i>Float1d</i>	PSWH9 (description="PHOTFARRAY135", quantity="?")
<i>Float1d</i>	PSWG9 (description="PHOTFARRAY136", quantity="?")
<i>Float1d</i>	PSWJ9 (description="PHOTFARRAY137", quantity="?")
<i>Float1d</i>	PSWF10 (description="PHOTFARRAY138", quantity="?")
<i>Float1d</i>	PSWH10 (description="PHOTFARRAY139", quantity="?")
<i>Float1d</i>	PSWG10 (description="PHOTFARRAY140", quantity="?")
<i>Float1d</i>	PSWF11 (description="PHOTFARRAY141", quantity="?")
<i>Float1d</i>	PSWJ10 (description="PHOTFARRAY142", quantity="?")
<i>Float1d</i>	PSWH11 (description="PHOTFARRAY143", quantity="?")
<i>Float1d</i>	PSWG11 (description="PHOTFARRAY144", quantity="?")
<i>Float1d</i>	PLWR1 (description="PHOTFARRAY145", quantity="?")
<i>Float1d</i>	PLWA8 (description="PHOTFARRAY146", quantity="?")
<i>Float1d</i>	PLWA7 (description="PHOTFARRAY147", quantity="?")
<i>Float1d</i>	PLWA6 (description="PHOTFARRAY148", quantity="?")
<i>Float1d</i>	PLWA9 (description="PHOTFARRAY149", quantity="?")
<i>Float1d</i>	PLWC9 (description="PHOTFARRAY150", quantity="?")
<i>Float1d</i>	PLWB8 (description="PHOTFARRAY151", quantity="?")
<i>Float1d</i>	PLWB7 (description="PHOTFARRAY152", quantity="?")
<i>Float1d</i>	PLWC7 (description="PHOTFARRAY153", quantity="?")
<i>Float1d</i>	PLWB5 (description="PHOTFARRAY154", quantity="?")
<i>Float1d</i>	PLWB6 (description="PHOTFARRAY155", quantity="?")
<i>Float1d</i>	PLWA5 (description="PHOTFARRAY156", quantity="?")
<i>Float1d</i>	PLWT1 (description="PHOTFARRAY157", quantity="?")
<i>Float1d</i>	PLWB4 (description="PHOTFARRAY158", quantity="?")
<i>Float1d</i>	PLWC4 (description="PHOTFARRAY159", quantity="?")
<i>Float1d</i>	PLWB3 (description="PHOTFARRAY160", quantity="?")
<i>Float1d</i>	PLWC2 (description="PHOTFARRAY161", quantity="?")
<i>Float1d</i>	PLWB2 (description="PHOTFARRAY162", quantity="?")

<i>Float1d</i>	PLWB1 (description="PHOTFARRAY163", quantity="?")
<i>Float1d</i>	PLWA3 (description="PHOTFARRAY164", quantity="?")
<i>Float1d</i>	PLWA4 (description="PHOTFARRAY165", quantity="?")
<i>Float1d</i>	PLWA1 (description="PHOTFARRAY166", quantity="?")
<i>Float1d</i>	PLWDP1 (description="PHOTFARRAY167", quantity="?")
<i>Float1d</i>	PLWA2 (description="PHOTFARRAY168", quantity="?")
<i>Float1d</i>	PLWE1 (description="PHOTFARRAY169", quantity="?")
<i>Float1d</i>	PLWE2 (description="PHOTFARRAY170", quantity="?")
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<i>Float1d</i>	PLWE4 (description="PHOTFARRAY172", quantity="?")
<i>Float1d</i>	PLWD1 (description="PHOTFARRAY173", quantity="?")
<i>Float1d</i>	PLWD2 (description="PHOTFARRAY174", quantity="?")
<i>Float1d</i>	PLWD3 (description="PHOTFARRAY175", quantity="?")
<i>Float1d</i>	PLWD4 (description="PHOTFARRAY176", quantity="?")
<i>Float1d</i>	PLWC1 (description="PHOTFARRAY177", quantity="?")
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<i>Float1d</i>	PLWC5 (description="PHOTFARRAY179", quantity="?")
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<i>Float1d</i>	PMWA8 (description="PHOTFARRAY213", quantity="?")
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<i>Float1d</i>	PMWD7 (description="PHOTFARRAY251", quantity="?")
<i>Float1d</i>	PMWF7 (description="PHOTFARRAY252", quantity="?")
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<i>Float1d</i>	PMWG10 (description="PHOTFARRAY261", quantity="?")
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<i>Float1d</i>	PMWB3 (description="PHOTFARRAY263", quantity="?")
<i>Float1d</i>	PMWC3 (description="PHOTFARRAY264", quantity="?")
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<i>Float1d</i>	PMWA1 (description="PHOTFARRAY271", quantity="?")
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<i>Float1d</i>	PMWC1 (description="PHOTFARRAY273", quantity="?")
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<i>Float1d</i>	PMWC7 (description="PHOTFARRAY277", quantity="?")
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<i>Float1d</i>	PMWC6 (description="PHOTFARRAY280", quantity="?")
<i>Float1d</i>	PMWD6 (description="PHOTFARRAY281", quantity="?")
<i>Float1d</i>	PMWB4 (description="PHOTFARRAY282", quantity="?")
<i>Float1d</i>	PMWC5 (description="PHOTFARRAY283", quantity="?")
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<i>Float1d</i>	PMWA4 (description="PHOTFARRAY285", quantity="?")
<i>Float1d</i>	PTCP1 (description="PHOTFARRAY286", quantity="?")
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<i>IntId</i>	PSWD16 (description="PHOTFARRAY002", quantity="")
<i>IntId</i>	PSWT1 (description="PHOTFARRAY003", quantity="")
<i>IntId</i>	PSWB16 (description="PHOTFARRAY004", quantity="")
<i>IntId</i>	PSWC15 (description="PHOTFARRAY005", quantity="")
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<i>IntId</i>	PSWD15 (description="PHOTFARRAY007", quantity="")
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<i>IntId</i>	PSWD14 (description="PHOTFARRAY010", quantity="")
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<i>IntId</i>	PSWD13 (description="PHOTFARRAY016", quantity="")
<i>IntId</i>	PSWA12 (description="PHOTFARRAY017", quantity="")
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<i>IntId</i>	PSWH2 (description="PHOTFARRAY031", quantity="")
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<i>IntId</i>	PSWH3 (description="PHOTFARRAY035", quantity="")
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<i>Int1d</i>	PSWF15 (description="PHOTFARRAY089", quantity="")
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<i>Int1d</i>	PSWF7 (description="PHOTFARRAY127", quantity="")
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<i>Int1d</i>	PSWG7 (description="PHOTFARRAY129", quantity="")
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<i>Int1d</i>	PLWB1 (description="PHOTFARRAY163", quantity="")
<i>Int1d</i>	PLWA3 (description="PHOTFARRAY164", quantity="")

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

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

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

<i>Metadata</i>	
<i>StringId</i>	channelName (description="Channel name", quantity="")
<i>FloatId</i>	adcErrors (description="Fraction of ADC errors", quantity="")
<i>FloatId</i>	truncation (description="Fraction of out of range values", quantity="")
<i>table dataset</i>	(description="Temperature")
<i>Metadata</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>FloatId</i>	PSWT1 (description="Thermistor temperature", quantity="K")
<i>FloatId</i>	PSWT2 (description="Thermistor temperature", quantity="K")
<i>FloatId</i>	PLWT1 (description="Thermistor temperature", quantity="K")
<i>FloatId</i>	PLWT2 (description="Thermistor temperature", quantity="K")
<i>FloatId</i>	PMWT1 (description="Thermistor temperature", quantity="K")
<i>FloatId</i>	PMWT2 (description="Thermistor temperature", quantity="K")

11.2.2. POT: Photometer Offset Timeline

<i>product (type="POT", description="Photometer Offset Timeline")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>table dataset</i>	(description="Signal timelines")
<i>Metadata</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>IntId</i>	PSWR1 (description="PHOTOFF001", quantity="")
<i>IntId</i>	PSWD16 (description="PHOTOFF002", quantity="")
<i>IntId</i>	PSWT1 (description="PHOTOFF003", quantity="")
<i>IntId</i>	PSWB16 (description="PHOTOFF004", quantity="")
<i>IntId</i>	PSWC15 (description="PHOTOFF005", quantity="")
<i>IntId</i>	PSWA15 (description="PHOTOFF006", quantity="")
<i>IntId</i>	PSWD15 (description="PHOTOFF007", quantity="")
<i>IntId</i>	PSWB15 (description="PHOTOFF008", quantity="")
<i>IntId</i>	PSWC14 (description="PHOTOFF009", quantity="")
<i>IntId</i>	PSWD14 (description="PHOTOFF010", quantity="")
<i>IntId</i>	PSWA14 (description="PHOTOFF011", quantity="")
<i>IntId</i>	PSWA13 (description="PHOTOFF012", quantity="")
<i>IntId</i>	PSWB14 (description="PHOTOFF013", quantity="")
<i>IntId</i>	PSWC13 (description="PHOTOFF014", quantity="")
<i>IntId</i>	PSWB13 (description="PHOTOFF015", quantity="")
<i>IntId</i>	PSWD13 (description="PHOTOFF016", quantity="")
<i>IntId</i>	PSWA12 (description="PHOTOFF017", quantity="")
<i>IntId</i>	PSWC12 (description="PHOTOFF018", quantity="")
<i>IntId</i>	PSWD12 (description="PHOTOFF019", quantity="")
<i>IntId</i>	PSWB12 (description="PHOTOFF020", quantity="")
<i>IntId</i>	PSWE11 (description="PHOTOFF021", quantity="")

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

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

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

<i>IntId</i>	PLWA6 (description="PHOTOFF148", quantity="")
<i>IntId</i>	PLWA9 (description="PHOTOFF149", quantity="")
<i>IntId</i>	PLWC9 (description="PHOTOFF150", quantity="")
<i>IntId</i>	PLWB8 (description="PHOTOFF151", quantity="")
<i>IntId</i>	PLWB7 (description="PHOTOFF152", quantity="")
<i>IntId</i>	PLWC7 (description="PHOTOFF153", quantity="")
<i>IntId</i>	PLWB5 (description="PHOTOFF154", quantity="")
<i>IntId</i>	PLWB6 (description="PHOTOFF155", quantity="")
<i>IntId</i>	PLWA5 (description="PHOTOFF156", quantity="")
<i>IntId</i>	PLWT1 (description="PHOTOFF157", quantity="")
<i>IntId</i>	PLWB4 (description="PHOTOFF158", quantity="")
<i>IntId</i>	PLWC4 (description="PHOTOFF159", quantity="")
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<i>IntId</i>	PLWD8 (description="PHOTOFF187", quantity="")
<i>IntId</i>	PLWE7 (description="PHOTOFF188", quantity="")
<i>IntId</i>	PLWE6 (description="PHOTOFF189", quantity="")
<i>IntId</i>	PLWE8 (description="PHOTOFF190", quantity="")

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<i>IntId</i>	PLWDP2 (description="PHOTOFF191", quantity="")
<i>IntId</i>	PLWE9 (description="PHOTOFF192", quantity="")
<i>IntId</i>	PMWA13 (description="PHOTOFF193", quantity="")
<i>IntId</i>	PMWT1 (description="PHOTOFF194", quantity="")
<i>IntId</i>	PMWB12 (description="PHOTOFF195", quantity="")
<i>IntId</i>	PMWC13 (description="PHOTOFF196", quantity="")
<i>IntId</i>	PMWA12 (description="PHOTOFF197", quantity="")
<i>IntId</i>	PMWD12 (description="PHOTOFF198", quantity="")
<i>IntId</i>	PMWC12 (description="PHOTOFF199", quantity="")
<i>IntId</i>	PMWB11 (description="PHOTOFF200", quantity="")
<i>IntId</i>	PMWA11 (description="PHOTOFF201", quantity="")
<i>IntId</i>	PMWE13 (description="PHOTOFF202", quantity="")
<i>IntId</i>	PMWD11 (description="PHOTOFF203", quantity="")
<i>IntId</i>	PMWC11 (description="PHOTOFF204", quantity="")
<i>IntId</i>	PMWB10 (description="PHOTOFF205", quantity="")
<i>IntId</i>	PMWA10 (description="PHOTOFF206", quantity="")
<i>IntId</i>	PMWD10 (description="PHOTOFF207", quantity="")
<i>IntId</i>	PMWB9 (description="PHOTOFF208", quantity="")
<i>IntId</i>	PMWC10 (description="PHOTOFF209", quantity="")
<i>IntId</i>	PMWC9 (description="PHOTOFF210", quantity="")
<i>IntId</i>	PMWA9 (description="PHOTOFF211", quantity="")
<i>IntId</i>	PMWB8 (description="PHOTOFF212", quantity="")
<i>IntId</i>	PMWA8 (description="PHOTOFF213", quantity="")
<i>IntId</i>	PMWD8 (description="PHOTOFF214", quantity="")
<i>IntId</i>	PMWC8 (description="PHOTOFF215", quantity="")
<i>IntId</i>	PMWB7 (description="PHOTOFF216", quantity="")
<i>IntId</i>	PMWR1 (description="PHOTOFF217", quantity="")
<i>IntId</i>	PMWG1 (description="PHOTOFF218", quantity="")
<i>IntId</i>	PMWT2 (description="PHOTOFF219", quantity="")
<i>IntId</i>	PMWE1 (description="PHOTOFF220", quantity="")
<i>IntId</i>	PMWD1 (description="PHOTOFF221", quantity="")
<i>IntId</i>	PMWF1 (description="PHOTOFF222", quantity="")
<i>IntId</i>	PMWE2 (description="PHOTOFF223", quantity="")
<i>IntId</i>	PMWG2 (description="PHOTOFF224", quantity="")
<i>IntId</i>	PMWF2 (description="PHOTOFF225", quantity="")
<i>IntId</i>	PMWG3 (description="PHOTOFF226", quantity="")
<i>IntId</i>	PMWE3 (description="PHOTOFF227", quantity="")
<i>IntId</i>	PMWD3 (description="PHOTOFF228", quantity="")
<i>IntId</i>	PMWF3 (description="PHOTOFF229", quantity="")
<i>IntId</i>	PMWG4 (description="PHOTOFF230", quantity="")
<i>IntId</i>	PMWE4 (description="PHOTOFF231", quantity="")
<i>IntId</i>	PMWF4 (description="PHOTOFF232", quantity="")

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<i>Int1d</i>	PMWE5 (description="PHOTOFF233", quantity="")
<i>Int1d</i>	PMWD5 (description="PHOTOFF234", quantity="")
<i>Int1d</i>	PMWF5 (description="PHOTOFF235", quantity="")
<i>Int1d</i>	PMWG5 (description="PHOTOFF236", quantity="")
<i>Int1d</i>	PMWE6 (description="PHOTOFF237", quantity="")
<i>Int1d</i>	PMWG6 (description="PHOTOFF238", quantity="")
<i>Int1d</i>	PMWF6 (description="PHOTOFF239", quantity="")
<i>Int1d</i>	PMWG7 (description="PHOTOFF240", quantity="")
<i>Int1d</i>	PMWF10 (description="PHOTOFF241", quantity="")
<i>Int1d</i>	PMWE11 (description="PHOTOFF242", quantity="")
<i>Int1d</i>	PMWG11 (description="PHOTOFF243", quantity="")
<i>Int1d</i>	PMWF11 (description="PHOTOFF244", quantity="")
<i>Int1d</i>	PMWE12 (description="PHOTOFF245", quantity="")
<i>Int1d</i>	PMWG12 (description="PHOTOFF246", quantity="")
<i>Int1d</i>	PMWF12 (description="PHOTOFF247", quantity="")
<i>Int1d</i>	PMWG13 (description="PHOTOFF248", quantity="")
<i>Int1d</i>	PMWDP2 (description="PHOTOFF249", quantity="")
<i>Int1d</i>	PMWE7 (description="PHOTOFF250", quantity="")
<i>Int1d</i>	PMWD7 (description="PHOTOFF251", quantity="")
<i>Int1d</i>	PMWF7 (description="PHOTOFF252", quantity="")
<i>Int1d</i>	PMWE8 (description="PHOTOFF253", quantity="")
<i>Int1d</i>	PMWG8 (description="PHOTOFF254", quantity="")
<i>Int1d</i>	PMWF8 (description="PHOTOFF255", quantity="")
<i>Int1d</i>	PMWE9 (description="PHOTOFF256", quantity="")
<i>Int1d</i>	PMWG9 (description="PHOTOFF257", quantity="")
<i>Int1d</i>	PMWD9 (description="PHOTOFF258", quantity="")
<i>Int1d</i>	PMWF9 (description="PHOTOFF259", quantity="")
<i>Int1d</i>	PMWE10 (description="PHOTOFF260", quantity="")
<i>Int1d</i>	PMWG10 (description="PHOTOFF261", quantity="")
<i>Int1d</i>	PMWC4 (description="PHOTOFF262", quantity="")
<i>Int1d</i>	PMWB3 (description="PHOTOFF263", quantity="")
<i>Int1d</i>	PMWC3 (description="PHOTOFF264", quantity="")
<i>Int1d</i>	PMWB2 (description="PHOTOFF265", quantity="")
<i>Int1d</i>	PMWD2 (description="PHOTOFF266", quantity="")
<i>Int1d</i>	PMWA3 (description="PHOTOFF267", quantity="")
<i>Int1d</i>	PMWA2 (description="PHOTOFF268", quantity="")
<i>Int1d</i>	PMWC2 (description="PHOTOFF269", quantity="")
<i>Int1d</i>	PMWB1 (description="PHOTOFF270", quantity="")
<i>Int1d</i>	PMWA1 (description="PHOTOFF271", quantity="")
<i>Int1d</i>	PMWDP1 (description="PHOTOFF272", quantity="")
<i>Int1d</i>	PMWC1 (description="PHOTOFF273", quantity="")
<i>Int1d</i>	PMWA7 (description="PHOTOFF274", quantity="")

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

11.2.3. SDT: Spectrometer Detector Timeline

<i>product (type="SDT", description="Spectrometer Detector Timeline")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>table dataset</i>	(description="Voltages table")
<i>Metadata</i>	
<i>Double1d</i>	sampleTime (description="Sample time", quantity="TAI")
<i>Float1d</i>	SSWR1 (description="SPECFARRAY001", quantity="V")
<i>Float1d</i>	SSWA4 (description="SPECFARRAY002", quantity="V")
<i>Float1d</i>	SSWA3 (description="SPECFARRAY003", quantity="V")
<i>Float1d</i>	SSWA2 (description="SPECFARRAY004", quantity="V")
<i>Float1d</i>	SSWA1 (description="SPECFARRAY005", quantity="V")
<i>Float1d</i>	SSWDP1 (description="SPECFARRAY006", quantity="V")
<i>Float1d</i>	SSWB3 (description="SPECFARRAY007", quantity="V")
<i>Float1d</i>	SSWB2 (description="SPECFARRAY008", quantity="V")
<i>Float1d</i>	SSWB1 (description="SPECFARRAY009", quantity="V")
<i>Float1d</i>	SSWC3 (description="SPECFARRAY010", quantity="V")
<i>Float1d</i>	SSWC2 (description="SPECFARRAY011", quantity="V")
<i>Float1d</i>	SSWC1 (description="SPECFARRAY012", quantity="V")
<i>Float1d</i>	SSWD3 (description="SPECFARRAY013", quantity="V")
<i>Float1d</i>	SSWD2 (description="SPECFARRAY014", quantity="V")
<i>Float1d</i>	SSWD1 (description="SPECFARRAY015", quantity="V")

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

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

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

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

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

11.2.4. SOT: : Spectrometer Offset Timeline

<i>product</i> (type="SOT", description="Spectrometer Offset Timeline")	
<i>Metadata</i>	
<i>StringParameter</i>	type (description="Product Type Identification")

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StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>table dataset</i>	<i>(description="Signal timelines")</i>

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

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

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

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

11.2.5. NHKT: Nominal Housekeeping Timeline

<i>product (type="NHKT", description="Nominal House Keeping Timeline")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>table dataset</i>	(description="Signal timelines")
<i>Metadata</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>StringId</i>	NHK_VERS (description="NHK_VERS", quantity="")
<i>StringId</i>	NHK_TYPE (description="NHK_TYPE", quantity="")
<i>StringId</i>	NHK_DFHFLAG (description="NHK_DFHFLAG", quantity="")
<i>ShortId</i>	NHK_APID (description="NHK_APID", quantity="")
<i>StringId</i>	NHK_SEGFLAG (description="NHK_SEGFLAG", quantity="")
<i>ShortId</i>	NHK_SSC (description="NHK_SSC", quantity="")
<i>IntId</i>	NHK_PKTLEN (description="NHK_PKTLEN", quantity="")
<i>StringId</i>	NHK_PUSVERS (description="NHK_PUSVERS", quantity="")
<i>ShortId</i>	NHK_PKTTYPE (description="NHK_PKTTYPE", quantity="")
<i>ShortId</i>	NHK_PKTSTYPE (description="NHK_PKTSTYPE", quantity="")
<i>LongId</i>	NHK_PKTCTIME (description="NHK_PKTCTIME", quantity="")
<i>IntId</i>	NHK_PKTFTIME (description="NHK_PKTFTIME", quantity="")

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

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

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

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

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

<i>Int1d</i>	SMECMOTORBEMF (description="SMECMOTORBEMF", quantity="")
<i>Int1d</i>	SMECRATESCALE (description="SMECRATESCALE", quantity="")
<i>Double1d</i>	SMECLVDTOFFSET (description="SMECLVDTOFFSET", quantity="cm [0.01 m]")
<i>Double1d</i>	SMECLVDTSCALE (description="SMECLVDTSCALE", quantity="cm [0.01 m]")
<i>String1d</i>	SMECSTAT (description="SMECSTAT", quantity="")
<i>String1d</i>	SMECFLAG (description="SMECFLAG", quantity="")
<i>String1d</i>	SMECLVDTSIGN (description="SMECLVDTSIGN", quantity="")
<i>String1d</i>	SMECINIT (description="SMECINIT", quantity="")
<i>String1d</i>	SMECSCANDIR (description="SMECSCANDIR", quantity="")
<i>Short1d</i>	SMECSCANCNT (description="SMECSCANCNT", quantity="")
<i>Double1d</i>	SMECENCPOSN (description="SMECENCPOSN", quantity="cm [0.01 m]")
<i>Int1d</i>	SMECENC SIG1 (description="SMECENC SIG1", quantity="")
<i>Int1d</i>	SMECENC SIG2 (description="SMECENC SIG2", quantity="")
<i>Int1d</i>	SMECENC SIG3 (description="SMECENC SIG3", quantity="")
<i>Double1d</i>	SMECLVDTPOSN (description="SMECLVDTPOSN", quantity="cm [0.01 m]")
<i>Int1d</i>	SMECLVDTAC SIG (description="SMECLVDTAC SIG", quantity="")
<i>Int1d</i>	SMECLVDTDC SIG (description="SMECLVDTDC SIG", quantity="")
<i>Double1d</i>	SMECTRAJPOSN (description="SMECTRAJPOSN", quantity="cm [0.01 m]")
<i>Int1d</i>	SMECDACVAL (description="SMECDACVAL", quantity="")
<i>Double1d</i>	SMECPOSNDELTA (description="SMECPOSNDELTA", quantity="cm [0.01 m]")
<i>Double1d</i>	SMECENC FINEPOSN (description="SMECENC FINEPOSN", quantity="cm [0.01 m]")
<i>Int1d</i>	SMECMEANSPEED (description="SMECMEANSPEED", quantity="")
<i>Double1d</i>	SMECSCANPOSNERR (description="SMECSCANPOSNERR", quantity="cm [0.01 m]")
<i>Double1d</i>	SMECMOTORCURR (description="SMECMOTORCURR", quantity="A")
<i>Double1d</i>	SMECMOTORVOLT (description="SMECMOTORVOLT", quantity="V")
<i>Int1d</i>	SMECENC SIG1AMP (description="SMECENC SIG1AMP", quantity="")
<i>Int1d</i>	SMECENC SIG1OFF (description="SMECENC SIG1OFF", quantity="")
<i>Int1d</i>	SMECENC SIG2AMP (description="SMECENC SIG2AMP", quantity="")
<i>Int1d</i>	SMECENC SIG2OFF (description="SMECENC SIG2OFF", quantity="")

<i>Int1d</i>	SMECENC SIG3AMP (description="SMECENC SIG3AMP", quantity="")
<i>Int1d</i>	SMECENC SIG3OFF (description="SMECENC SIG3OFF", quantity="")
<i>String1d</i>	CHOPSENSPWR (description="CHOPSENSPWR", quantity="")
<i>String1d</i>	CHOPLOOPMODE (description="CHOPLOOPMODE", quantity="")
<i>Int1d</i>	CHOPPOSN (description="CHOPPOSN", quantity="")
<i>Int1d</i>	CHOPPOSN2 (description="CHOPPOSN2", quantity="")
<i>String1d</i>	BSMMODE (description="BSMMODE", quantity="")
<i>Int1d</i>	CHOPFFOFFSET (description="CHOPFFOFFSET", quantity="")
<i>Int1d</i>	CHOPKP (description="CHOPKP", quantity="")
<i>Int1d</i>	CHOPKD (description="CHOPKD", quantity="")
<i>Int1d</i>	CHOPKI (description="CHOPKI", quantity="")
<i>Int1d</i>	CHOPINTREF (description="CHOPINTREF", quantity="")
<i>Int1d</i>	CHOPINTLIMIT (description="CHOPINTLIMIT", quantity="")
<i>Int1d</i>	CHOPFFGAIN (description="CHOPFFGAIN", quantity="")
<i>Int1d</i>	CHOPFFGAINDIFF (description="CHOPFFGAINDIFF", quantity="")
<i>Int1d</i>	CHOPDIFFTC1 (description="CHOPDIFFTC1", quantity="")
<i>Int1d</i>	CHOPDIFFTC2 (description="CHOPDIFFTC2", quantity="")
<i>Int1d</i>	CHOPRATELIMIT (description="CHOPRATELIMIT", quantity="")
<i>Int1d</i>	CHOPMOTBEMFGAIN (description="CHOPMOTBEMFGAIN", quantity="")
<i>Int1d</i>	CHOPMOTRES (description="CHOPMOTRES", quantity="")
<i>Int1d</i>	CHOPMOTIND (description="CHOPMOTIND", quantity="")
<i>Int1d</i>	CHOPRATESCALE (description="CHOPRATESCALE", quantity="")
<i>Int1d</i>	CHOPPOSNSCALE (description="CHOPPOSNSCALE", quantity="")
<i>Int1d</i>	CHOPBEMFRATFIL1 (description="CHOPBEMFRATFIL1", quantity="")
<i>Int1d</i>	CHOPBEMFRATFIL2 (description="CHOPBEMFRATFIL2", quantity="")
<i>Int1d</i>	CHOPJIGGCOUPLE (description="CHOPJIGGCOUPLE", quantity="")
<i>String1d</i>	BSMSTAT (description="BSMSTAT", quantity="")
<i>Int1d</i>	CHOPPOSNERR (description="CHOPPOSNERR", quantity="")
<i>Int1d</i>	CHOPSENSSIG (description="CHOPSENSSIG", quantity="")
<i>Double1d</i>	CHOPDACVAL (description="CHOPDACVAL", quantity="V")
<i>Double1d</i>	CHOPMOTORCURR (description="CHOPMOTORCURR", quantity="A")
<i>Double1d</i>	CHOPMOTORVOLT (description="CHOPMOTORVOLT", quantity="V")
<i>String1d</i>	JIGGSENSPWR (description="JIGGSENSPWR", quantity="")
<i>String1d</i>	JIGGLOOPMODE (description="JIGGLOOPMODE", quantity="")
<i>Int1d</i>	JIGGPOSN (description="JIGGPOSN", quantity="")
<i>Int1d</i>	JIGGPOSN2 (description="JIGGPOSN2", quantity="")
<i>Int1d</i>	JIGGFFOFFSET (description="JIGGFFOFFSET", quantity="")
<i>Int1d</i>	JIGGKP (description="JIGGKP", quantity="")
<i>Int1d</i>	JIGGKD (description="JIGGKD", quantity="")
<i>Int1d</i>	JIGGKI (description="JIGGKI", quantity="")

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

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

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

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

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

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

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

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

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

<i>Int1d</i>	SCANEND (description="SCANEND", quantity="")
<i>Int1d</i>	SCANFSPEED (description="SCANFSPEED", quantity="")
<i>Int1d</i>	SCANS (description="SCANS", quantity="")
<i>Int1d</i>	SCANMODE (description="SCANMODE", quantity="")
<i>Int1d</i>	SMECKP (description="SMECKP", quantity="")
<i>Int1d</i>	SMECKD (description="SMECKD", quantity="")
<i>Int1d</i>	SMECDFILT (description="SMECDFILT", quantity="")
<i>Int1d</i>	SMECKI (description="SMECKI", quantity="")
<i>Int1d</i>	SMECINTLIMIT (description="SMECINTLIMIT", quantity="")
<i>Int1d</i>	SMECINTTHRESH (description="SMECINTTHRESH", quantity="")
<i>Int1d</i>	SMECRATELIMIT (description="SMECRATELIMIT", quantity="")
<i>Int1d</i>	SMECDFILT2 (description="SMECDFILT2", quantity="")
<i>Int1d</i>	SMECFFGAIN (description="SMECFFGAIN", quantity="")
<i>Int1d</i>	SMECFFOFFSET (description="SMECFFOFFSET", quantity="")
<i>Int1d</i>	SCANRSPEED (description="SCANRSPEED", quantity="")
<i>Int1d</i>	SMECBEMFGAIN (description="SMECBEMFGAIN", quantity="")
<i>Int1d</i>	SMECMOTORRES (description="SMECMOTORRES", quantity="")
<i>Int1d</i>	SMECMOTORBEMF (description="SMECMOTORBEMF", quantity="")
<i>Int1d</i>	SMECRATESCALE (description="SMECRATESCALE", quantity="")
<i>Int1d</i>	SMECLVDTOFFSET (description="SMECLVDTOFFSET", quantity="")
<i>Int1d</i>	SMECLVDTSKALE (description="SMECLVDTSKALE", quantity="")
<i>Int1d</i>	SMECSTAT (description="SMECSTAT", quantity="")
<i>Int1d</i>	SMECFLAG (description="SMECFLAG", quantity="")
<i>Int1d</i>	SMECLVDTSIGN (description="SMECLVDTSIGN", quantity="")
<i>Int1d</i>	SMECINIT (description="SMECINIT", quantity="")
<i>Int1d</i>	SMECSCANDIR (description="SMECSCANDIR", quantity="")
<i>Int1d</i>	SMECSCANCNT (description="SMECSCANCNT", quantity="")
<i>Int1d</i>	SMECENCPOSN (description="SMECENCPOSN", quantity="")
<i>Int1d</i>	SMECENC SIG1 (description="SMECENC SIG1", quantity="")
<i>Int1d</i>	SMECENC SIG2 (description="SMECENC SIG2", quantity="")
<i>Int1d</i>	SMECENC SIG3 (description="SMECENC SIG3", quantity="")
<i>Int1d</i>	SMECLVDTPOSN (description="SMECLVDTPOSN", quantity="")
<i>Int1d</i>	SMECLVDTAC SIG (description="SMECLVDTAC SIG", quantity="")
<i>Int1d</i>	SMECLVDTDC SIG (description="SMECLVDTDC SIG", quantity="")
<i>Int1d</i>	SMECTRAJ POSN (description="SMECTRAJ POSN", quantity="")
<i>Int1d</i>	SMECDACVAL (description="SMECDACVAL", quantity="")
<i>Int1d</i>	SMECPOSNDELTA (description="SMECPOSNDELTA", quantity="")
<i>Int1d</i>	SMECENC FINE POSN (description="SMECENC FINE POSN", quantity="")
<i>Int1d</i>	SMECMEANSPEED (description="SMECMEANSPEED", quantity="")

<i>Int1d</i>	SMECSCANPOSNERR (description="SMECSCANPOSNERR", quantity="")
<i>Int1d</i>	SMECMOTORCURRE (description="SMECMOTORCURRE", quantity="")
<i>Int1d</i>	SMECMOTORVOLT (description="SMECMOTORVOLT", quantity="")
<i>Int1d</i>	SMECENC SIG1AMP (description="SMECENC SIG1AMP", quantity="")
<i>Int1d</i>	SMECENC SIG1OFF (description="SMECENC SIG1OFF", quantity="")
<i>Int1d</i>	SMECENC SIG2AMP (description="SMECENC SIG2AMP", quantity="")
<i>Int1d</i>	SMECENC SIG2OFF (description="SMECENC SIG2OFF", quantity="")
<i>Int1d</i>	SMECENC SIG3AMP (description="SMECENC SIG3AMP", quantity="")
<i>Int1d</i>	SMECENC SIG3OFF (description="SMECENC SIG3OFF", quantity="")
<i>Int1d</i>	CHOPSENSPWR (description="CHOPSENSPWR", quantity="")
<i>Int1d</i>	CHOPLOOPMODE (description="CHOPLOOPMODE", quantity="")
<i>Int1d</i>	CHOPPOSN (description="CHOPPOSN", quantity="")
<i>Int1d</i>	CHOPPOSN2 (description="CHOPPOSN2", quantity="")
<i>Int1d</i>	BSM MODE (description="BSM MODE", quantity="")
<i>Int1d</i>	CHOPFFOFFSET (description="CHOPFFOFFSET", quantity="")
<i>Int1d</i>	CHOPKP (description="CHOPKP", quantity="")
<i>Int1d</i>	CHOPKD (description="CHOPKD", quantity="")
<i>Int1d</i>	CHOPKI (description="CHOPKI", quantity="")
<i>Int1d</i>	CHOPINTREF (description="CHOPINTREF", quantity="")
<i>Int1d</i>	CHOPINTLIMIT (description="CHOPINTLIMIT", quantity="")
<i>Int1d</i>	CHOPFFGAIN (description="CHOPFFGAIN", quantity="")
<i>Int1d</i>	CHOPFFGAINDIFF (description="CHOPFFGAINDIFF", quantity="")
<i>Int1d</i>	CHOPDIFFTC1 (description="CHOPDIFFTC1", quantity="")
<i>Int1d</i>	CHOPDIFFTC2 (description="CHOPDIFFTC2", quantity="")
<i>Int1d</i>	CHOPRATELIMIT (description="CHOPRATELIMIT", quantity="")
<i>Int1d</i>	CHOPMOTBEMFGAIN (description="CHOPMOTBEMFGAIN", quantity="")
<i>Int1d</i>	CHOPMOTRES (description="CHOPMOTRES", quantity="")
<i>Int1d</i>	CHOPMOTIND (description="CHOPMOTIND", quantity="")
<i>Int1d</i>	CHOPRATESCALE (description="CHOPRATESCALE", quantity="")

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

	<i>Int1d</i>	JIGGKI (description="JIGGKI", quantity="")
	<i>Int1d</i>	JIGGINTREF (description="JIGGINTREF", quantity="")
	<i>Int1d</i>	JIGGINTLIMIT (description="JIGGINTLIMIT", quantity="")
	<i>Int1d</i>	JIGGFFGAIN (description="JIGGFFGAIN", quantity="")
	<i>Int1d</i>	JIGGFFGAINDIFF (description="JIGGFFGAINDIFF", quantity="")
	<i>Int1d</i>	JIGGDIFFTC1 (description="JIGGDIFFTC1", quantity="")
	<i>Int1d</i>	JIGGDIFFTC2 (description="JIGGDIFFTC2", quantity="")
	<i>Int1d</i>	JIGGRATELIMIT (description="JIGGRATELIMIT", quantity="")
	<i>Int1d</i>	JIGGMOTBEMFGAIN (description="JIGGMOTBEMFGAIN", quantity="")
	<i>Int1d</i>	JIGGMOTRES (description="JIGGMOTRES", quantity="")
	<i>Int1d</i>	JIGGMOTIND (description="JIGGMOTIND", quantity="")
	<i>Int1d</i>	JIGGRATESCALE (description="JIGGRATESCALE", quantity="")
	<i>Int1d</i>	JIGGPOSNSCALE (description="JIGGPOSNSCALE", quantity="")
	<i>Int1d</i>	JIGGBEMFRATFIL1 (description="JIGGBEMFRATFIL1", quantity="")
	<i>Int1d</i>	JIGGBEMFRATFIL2 (description="JIGGBEMFRATFIL2", quantity="")
	<i>Int1d</i>	JIGGCHOPCOUPLE (description="JIGGCHOPCOUPLE", quantity="")
	<i>Int1d</i>	JIGGPOSNERR (description="JIGGPOSNERR", quantity="")

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

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

	<i>Int1d</i>	SCUDCDCSTAT (description="SCUDCDCSTAT", quantity="")
	<i>Int1d</i>	PLIABITSTAT (description="PLIABITSTAT", quantity="")
	<i>Int1d</i>	SLIABITSTAT (description="SLIABITSTAT", quantity="")
	<i>Int1d</i>	MCUBITSTAT (description="MCUBITSTAT", quantity="")
	<i>Int1d</i>	SCUP5V (description="SCUP5V", quan- tity="")
	<i>Int1d</i>	SCUP9V (description="SCUP9V", quan- tity="")
	<i>Int1d</i>	SCUM9V (description="SCUM9V", quan- tity="")
	<i>Int1d</i>	EVHSV (description="EVHSV", quanti- ty="")
	<i>Int1d</i>	SPHSV (description="SPHSV", quantity="")
	<i>Int1d</i>	TCHTRV (description="TCHTRV", quan- tity="")
	<i>Int1d</i>	SPHTRV (description="SPHTRV", quan- tity="")
	<i>Int1d</i>	CCUTEMP (description="CCUTEMP", quantity="")
	<i>Int1d</i>	TCUTEMP (description="TCUTEMP", quantity="")
	<i>Int1d</i>	PSUTEMP1 (description="PSUTEMP1", quantity="")
	<i>Int1d</i>	SCUFRAMECONF (description="SCUFRAMECONF", quantity="")
	<i>Int1d</i>	SCUFRAMES (description="SCUFRAMES", quantity="")
	<i>Int1d</i>	SCUFRAMESTAT (description="SCUFRAMESTAT", quantity="")

	<i>Int1d</i>	SCUCTRL (description="SCUCTRL", quantity="")
	<i>Int1d</i>	PCALV (description="PCALV", quanti- ty="")
	<i>Int1d</i>	SCAL2V (description="SCAL2V", quan- tity="")
	<i>Int1d</i>	SCAL4V (description="SCAL4V", quan- tity="")
	<i>Int1d</i>	SCUCHT2_5V (description="SCUCHT2_5V", quantity="")
	<i>Int1d</i>	SCUCHTREF (description="SCUCHTREF", quantity="")
	<i>Int1d</i>	SCUCHTGND (description="SCUCHTGND", quantity="")
	<i>Int1d</i>	PCALCURR (description="PCALCURR", quantity="")
	<i>Int1d</i>	SCAL2CURR (description="SCAL2CURR", quantity="")
	<i>Int1d</i>	SCAL4CURR (description="SCAL4CURR", quantity="")
	<i>Int1d</i>	PSUTEMP2 (description="PSUTEMP2", quantity="")
	<i>Int1d</i>	SUBKSTAT (description="SUBKSTAT", quantity="")
	<i>Int1d</i>	PUMPHTRTEMP (description="PUMPHTRTEMP", quantity="")
	<i>Int1d</i>	PUMPHSTEMP (description="PUMPHSTEMP", quantity="")
	<i>Int1d</i>	EVAPHSTEMP (description="EVAPHSTEMP", quantity="")
	<i>Int1d</i>	SHUNTTEMP (description="SHUNTTEMP", quantity="")
	<i>Int1d</i>	EMCFILTEMP (description="EMCFILTEMP", quantity="")

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

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

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

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

11.2.6. CHKT: Critical Housekeeping Timeline

<i>product (type="CHKT", description="Critical House Keeping Timeline")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>table dataset</i>	(description="Signal timelines")
<i>Metadata</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>IntId</i>	SID_C (description="SID_C", quantity="")
<i>LongId</i>	OBSID_C (description="OBSID_C", quantity="")
<i>LongId</i>	BBID_C (description="BBID_C", quantity="")
<i>IntId</i>	MODE_C (description="MODE_C", quantity="")
<i>IntId</i>	STEP_C (description="STEP_C", quantity="")
<i>IntId</i>	TCRECV_C (description="TCRECV_C", quantity="")
<i>IntId</i>	TCEXEC_C (description="TCEXEC_C", quantity="")
<i>StringId</i>	MEMSTAT1_C (description="MEMSTAT1_C", quantity="")
<i>StringId</i>	MEMSTAT2_C (description="MEMSTAT2_C", quantity="")
<i>StringId</i>	MEMSTAT3_C (description="MEMSTAT3_C", quantity="")
<i>StringId</i>	MONSTAT_C (description="MONSTAT_C", quantity="")
<i>StringId</i>	SCUDCDCSTAT_C (description="SCUDCDCSTAT_C", quantity="")
<i>StringId</i>	MCUIFSTAT_C (description="MCUIFSTAT_C", quantity="")
<i>StringId</i>	SCUIFSTAT_C (description="SCUIFSTAT_C", quantity="")
<i>StringId</i>	PSWJFETSTAT_C (description="PSWJFETSTAT_C", quantity="")
<i>StringId</i>	PSW_VDD_JFET1_C (description="PSW_VDD_JFET1_C", quantity="")
<i>StringId</i>	PSW_VDD_JFET2_C (description="PSW_VDD_JFET2_C", quantity="")
<i>StringId</i>	PSW_VDD_JFET3_C (description="PSW_VDD_JFET3_C", quantity="")

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

<i>DoubleId</i>	SUBKTEMP_C (description="SUBKTEMP_C", quantity="K")
<i>IntId</i>	OBSVER_C (description="OBSVER_C", quantity="")
<i>ShortId</i>	OBSVER1_C (description="OBSVER1_C", quantity="")
<i>ShortId</i>	OBSVER2_C (description="OBSVER2_C", quantity="")
<i>StringId</i>	OBSVER3_C (description="OBSVER3_C", quantity="")
<i>StringId</i>	CHK_VERS (description="CHK_VERS", quantity="")
<i>StringId</i>	CHK_TYPE (description="CHK_TYPE", quantity="")
<i>StringId</i>	CHK_DFHLFLAG (description="CHK_DFHLFLAG", quantity="")
<i>ShortId</i>	CHK_APID (description="CHK_APID", quantity="")
<i>StringId</i>	CHK_SEGFLAG (description="CHK_SEGFLAG", quantity="")
<i>ShortId</i>	CHK_SSC (description="CHK_SSC", quantity="")
<i>IntId</i>	CHK_PKTLEN (description="CHK_PKTLEN", quantity="")
<i>StringId</i>	CHK_PUSVERS (description="CHK_PUSVERS", quantity="")
<i>ShortId</i>	CHK_PKTTYPE (description="CHK_PKTTYPE", quantity="")
<i>ShortId</i>	CHK_PKTSTYPE (description="CHK_PKTSTYPE", quantity="")
<i>LongId</i>	CHK_PKTCTIME (description="CHK_PKTCTIME", quantity="")
<i>IntId</i>	CHK_PKTFTIME (description="CHK_PKTFTIME", quantity="")
<i>table dataset</i>	(description="Mask timelines")
<i>Metadata</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>IntId</i>	SID_C (description="SID_C", quantity="")
<i>IntId</i>	OBSID_C (description="OBSID_C", quantity="")
<i>IntId</i>	BBID_C (description="BBID_C", quantity="")
<i>IntId</i>	MODE_C (description="MODE_C", quantity="")
<i>IntId</i>	STEP_C (description="STEP_C", quantity="")
<i>IntId</i>	TCRECV_C (description="TCRECV_C", quantity="")
<i>IntId</i>	TCEXEC_C (description="TCEXEC_C", quantity="")
<i>IntId</i>	MEMSTAT1_C (description="MEMSTAT1_C", quantity="")
<i>IntId</i>	MEMSTAT2_C (description="MEMSTAT2_C", quantity="")
<i>IntId</i>	MEMSTAT3_C (description="MEMSTAT3_C", quantity="")
<i>IntId</i>	MONSTAT_C (description="MONSTAT_C", quantity="")
<i>IntId</i>	SCUDCDCSTAT_C (description="SCUDCDCSTAT_C", quantity="")
<i>IntId</i>	MCUIFSTAT_C (description="MCUIFSTAT_C", quantity="")
<i>IntId</i>	SCUIFSTAT_C (description="SCUIFSTAT_C", quantity="")
<i>IntId</i>	PSWJFETSTAT_C (description="PSWJFETSTAT_C", quantity="")
<i>IntId</i>	PSW_VDD_JFET1_C (description="PSW_VDD_JFET1_C", quantity="")
<i>IntId</i>	PSW_VDD_JFET2_C (description="PSW_VDD_JFET2_C", quantity="")
<i>IntId</i>	PSW_VDD_JFET3_C (description="PSW_VDD_JFET3_C", quantity="")

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

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

11.2.7. BSMT: Beam Steering Mirror Timeline

<i>product (type="BSMT", description="Beam Steering Mirror Timeline")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>table dataset</i>	(description="Signal timelines")
<i>Metadata</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>IntId</i>	chopSens (description="BSMCHOPSENSSIG", quantity="")
<i>IntId</i>	chopMotorCurr (description="BSMCHOPMOTORCURR", quantity="")
<i>IntId</i>	chopMotorVolt (description="BSMCHOPMOTORVOLT", quantity="")
<i>IntId</i>	jiggSens (description="BSMJIGGSENSSIG", quantity="")
<i>IntId</i>	jiggMotorCurr (description="BSMJIGGMOTORCURR", quantity="")
<i>IntId</i>	jiggMotorVolt (description="BSMJIGGMOTORVOLT", quantity="")
<i>LongId</i>	transmTime (description="BSMTTIME", quantity="")
<i>table dataset</i>	(description="Mask timelines")
<i>Metadata</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>IntId</i>	chopSens (description="BSMCHOPSENSSIG", quantity="")
<i>IntId</i>	chopMotorCurr (description="BSMCHOPMOTORCURR", quantity="")
<i>IntId</i>	chopMotorVolt (description="BSMCHOPMOTORVOLT", quantity="")
<i>IntId</i>	jiggSens (description="BSMJIGGSENSSIG", quantity="")

<i>IntId</i>	jiggMotorCurr (description="BSMJIGGMOTORCURR", quantity="")
<i>IntId</i>	jiggMotorVolt (description="BSMJIGGMOTORVOLT", quantity="")
<i>IntId</i>	transmTime (description="BSMTTIME", quantity="")

11.2.8. SMECT: Spectrometer Mechanism Timeline

<i>product (type="SMECT", description="Spectrometer Mechanism Timeline")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>table dataset</i>	(description="Signal timelines")
<i>Metadata</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>DoubleId</i>	encoderCoarse (description="SMECSELENCPOSN", quantity="cm [0.01 m]")
<i>DoubleId</i>	encoderFine (description="SMECSELENCFINEPOSN", quantity="cm [0.01 m]")
<i>DoubleId</i>	lvdtPosn (description="SMECSELLVDTPOSN", quantity="cm [0.01 m]")
<i>IntId</i>	motorBemf (description="SMECSELMOTORBEMF", quantity="")
<i>table dataset</i>	(description="Mask timelines")
<i>Metadata</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>IntId</i>	encoderCoarse (description="SMECSELENCPOSN", quantity="")
<i>IntId</i>	encoderFine (description="SMECSELENCFINEPOSN", quantity="")
<i>IntId</i>	lvdtPosn (description="SMECSELLVDTPOSN", quantity="")
<i>IntId</i>	motorBemf (description="SMECSELMOTORBEMF", quantity="")

11.2.9. SCUT: Subsystem Control Unit Timeline

<i>product (type="SCUT", description="Subsystem Control Unit Timeline")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>table dataset</i>	(description="Signal timelines")
<i>Metadata</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>DoubleId</i>	pumpHTemp (description="SCUPHTEMP", quantity="K")
<i>DoubleId</i>	pumpHSTemp (description="SCUPHSTEMP", quantity="K")
<i>DoubleId</i>	evapHSTemp (description="SCUEVHSTEMP", quantity="K")
<i>DoubleId</i>	shuntTemp (description="SCUSHUNTTEMP", quantity="K")
<i>DoubleId</i>	emcFilTemp (description="SCUEMCFILTEMP", quantity="K")
<i>DoubleId</i>	specL0Temp (description="SCUSL0TEMP", quantity="K")
<i>DoubleId</i>	photL0Temp (description="SCUPL0TEMP", quantity="K")
<i>DoubleId</i>	osbTemp (description="SCUOPTTEMP", quantity="K")
<i>DoubleId</i>	fpuBaffTemp (description="SCUBAFTEMP", quantity="K")
<i>DoubleId</i>	bsmIntTemp (description="SCUBSMIFTEMP", quantity="K")
<i>DoubleId</i>	scal2Temp (description="SCUSCAL2TEMP", quantity="K")

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

<i>IntId</i>	adcFlags (description="SCUADC_FLAGS", quantity="")
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11.3. SPIRE Level-1 Products

11.3.1. APPP: Averaged Pointed Photometer Product

<i>product</i> (type="APPP", description="Averaged Pointed Photometer Product")	
<i>Meta-data</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start Date")
DateParameter	endDate (description="End Date")
StringParameter	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")
<i>table dataset</i>	(description="signal")
<i>Metadata</i>	
<i>ByteId</i>	jiggId (description="null", quantity="none")
<i>DoubleId</i>	PSWF1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWC9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWC8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PSWE6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PLWE2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWC7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PSWE5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PLWE3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWC6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PSWE8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PLWE4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWC5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PSWE7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PLWE5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PLWE6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")

<i>Double1d</i>	PSWE2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWC4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWE7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWE1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWC3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWE8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWE4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWC2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWE3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWC1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWE9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWE9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWE1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWD7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWD6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWD9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWD8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWD3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWD2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWD5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWD4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWD1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")

<i>Double1d</i>	PMWA8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWC2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWC1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWC4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWC3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWB10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWC6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWC5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWC8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWC7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWB11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWC9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWB12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWB8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWB9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWB1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWB3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWB2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWB5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWB4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")

<i>Double1d</i>	PMWB7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWB6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH16 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD16 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")

<i>Double1d</i>	PLWC4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWB7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWB8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWB6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWB5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWB4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWB3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWB2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWB1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")

<i>Double1d</i>	PSWC15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWC14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWC13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWC12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWC10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWC11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWD11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWD12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWD10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWE15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWE14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWE13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWC12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWE12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWC13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWE11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWC10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWE10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWC11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")

<i>Double1d</i>	PSWG10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB16 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF16 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")

<i>Double1d</i>	PSWF15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>table</i> <i>dataset</i>	(description="error")
<i>Metadata</i>	
<i>Double1d</i>	PSWF1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWC9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWC8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWE6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWE2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWC7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWE5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWE3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWC6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWE8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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<i>Double1d</i>	PMWC5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWE7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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<i>Double1d</i>	PLWE6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWE2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWC4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWE7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWE1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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<i>Double1d</i>	PLWE8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWE4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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<i>Double1d</i>	PSWE3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWC1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWE9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWE9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWE1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWD7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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<i>Double1d</i>	PSWF8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")

<i>Double1d</i>	PMWD9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
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<i>Double1d</i>	PLWD1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWD8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWD3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWD2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWD5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWD4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWD1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWC2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWC1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWC4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWC3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWB10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWC6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWC5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWC8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWC7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWA11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWB11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")

<i>Double1d</i>	PSWC9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWB12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWB8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWB9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWB1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWB3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWB2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWB5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWB4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWB7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWB6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")

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<i>Double1d</i>	PSWJ9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH16 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD16 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWD14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWB7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWB8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWB6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWB5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")

<i>Double1d</i>	PSWH4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWB4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWB3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWB2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWB1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWH9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWF1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWC15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWC14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWC13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWC12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWE2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWC10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWC11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")

<i>Double1d</i>	PMWD11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWD12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWD10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWE15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWE14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWE13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWC12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWE12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWC13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWE11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWC10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWE10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWC11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWG11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PMWG4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")

<i>Double1d</i>	PSWB16 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWA2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWB10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWJ15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF16 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF15 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF14 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PSWF13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>table dataset</i>	(description="lat")
<i>Metadata</i>	
<i>Double1d</i>	PSWF1 (description="null", quantity="degree [0.01745329 rad]")
<i>Double1d</i>	PMWC9 (description="null", quantity="degree [0.01745329 rad]")
<i>Double1d</i>	PMWC8 (description="null", quantity="degree [0.01745329 rad]")
<i>Double1d</i>	PSWE6 (description="null", quantity="degree [0.01745329 rad]")
<i>Double1d</i>	PLWE2 (description="null", quantity="degree [0.01745329 rad]")
<i>Double1d</i>	PMWC7 (description="null", quantity="degree [0.01745329 rad]")
<i>Double1d</i>	PSWE5 (description="null", quantity="degree [0.01745329 rad]")
<i>Double1d</i>	PLWE3 (description="null", quantity="degree [0.01745329 rad]")
<i>Double1d</i>	PMWC6 (description="null", quantity="degree [0.01745329 rad]")
<i>Double1d</i>	PSWE8 (description="null", quantity="degree [0.01745329 rad]")
<i>Double1d</i>	PLWE4 (description="null", quantity="degree [0.01745329 rad]")
<i>Double1d</i>	PMWC5 (description="null", quantity="degree [0.01745329 rad]")
<i>Double1d</i>	PSWE7 (description="null", quantity="degree [0.01745329 rad]")
<i>Double1d</i>	PLWE5 (description="null", quantity="degree [0.01745329 rad]")
<i>Double1d</i>	PLWE6 (description="null", quantity="degree [0.01745329 rad]")

<i>Double1d</i>	PSWE2 (description="null", quantity="degree [0.01745329 rad])")
<i>Double1d</i>	PMWC4 (description="null", quantity="degree [0.01745329 rad])")
<i>Double1d</i>	PLWE7 (description="null", quantity="degree [0.01745329 rad])")
<i>Double1d</i>	PSWE1 (description="null", quantity="degree [0.01745329 rad])")
<i>Double1d</i>	PMWC3 (description="null", quantity="degree [0.01745329 rad])")
<i>Double1d</i>	PLWE8 (description="null", quantity="degree [0.01745329 rad])")
<i>Double1d</i>	PSWE4 (description="null", quantity="degree [0.01745329 rad])")
<i>Double1d</i>	PMWC2 (description="null", quantity="degree [0.01745329 rad])")
<i>Double1d</i>	PSWE3 (description="null", quantity="degree [0.01745329 rad])")
<i>Double1d</i>	PMWC1 (description="null", quantity="degree [0.01745329 rad])")
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<i>Double1d</i>	PLWE1 (description="null", quantity="degree [0.01745329 rad])")
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<i>Double1d</i>	PSWG2 (description="null", quantity="degree [0.01745329 rad])")
<i>Double1d</i>	PMWD7 (description="null", quantity="degree [0.01745329 rad])")
<i>Double1d</i>	PSWF9 (description="null", quantity="degree [0.01745329 rad])")
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<i>Double1d</i>	PMWD6 (description="null", quantity="degree [0.01745329 rad])")
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<i>Double1d</i>	PMWA9 (description="null", quantity="degree [0.01745329 rad])")
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<i>Double1d</i>	PMWA4 (description="null", quantity="degree [0.01745329 rad])")
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<i>Double1d</i>	PSWC4 (description="null", quantity="degree [0.01745329 rad]")
<i>Double1d</i>	PMWA6 (description="null", quantity="degree [0.01745329 rad]")
<i>Double1d</i>	PSWC3 (description="null", quantity="degree [0.01745329 rad]")
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<i>Double1d</i>	PMWA5 (description="null", quantity="degree [0.01745329 rad]")
<i>Double1d</i>	PSWC6 (description="null", quantity="degree [0.01745329 rad]")
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<i>Double1d</i>	PMWA13 (description="null", quantity="degree [0.01745329 rad]")
<i>Double1d</i>	PSWC5 (description="null", quantity="degree [0.01745329 rad]")
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<i>Double1d</i>	PSWC7 (description="null", quantity="degree [0.01745329 rad]")
<i>Double1d</i>	PMWA11 (description="null", quantity="degree [0.01745329 rad]")
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<i>Double1d</i>	PSWH1 (description="null", quantity="degree [0.01745329 rad])"
<i>Double1d</i>	PLWC8 (description="null", quantity="degree [0.01745329 rad])"
<i>Double1d</i>	PLWC9 (description="null", quantity="degree [0.01745329 rad])"
<i>Double1d</i>	PSWH3 (description="null", quantity="degree [0.01745329 rad])"
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<i>Double1d</i>	PSWH11 (description="null", quantity="degree [0.01745329 rad])"
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<i>Double1d</i>	PSWJ15 (description="null", quantity="degree [0.01745329 rad])"
<i>Double1d</i>	PSWF12 (description="null", quantity="degree [0.01745329 rad])"
<i>Double1d</i>	PSWF11 (description="null", quantity="degree [0.01745329 rad])"
<i>Double1d</i>	PSWF10 (description="null", quantity="degree [0.01745329 rad])"
<i>Double1d</i>	PSWF16 (description="null", quantity="degree [0.01745329 rad])"
<i>Double1d</i>	PSWF15 (description="null", quantity="degree [0.01745329 rad])"
<i>Double1d</i>	PSWF14 (description="null", quantity="degree [0.01745329 rad])"
<i>Double1d</i>	PSWF13 (description="null", quantity="degree [0.01745329 rad])"
<i>table dataset</i>	(description="mask")
<i>Metadata</i>	
<i>Int1d</i>	PSWF1 (description="null", quantity="none")
<i>Int1d</i>	PMWC9 (description="null", quantity="none")
<i>Int1d</i>	PMWC8 (description="null", quantity="none")
<i>Int1d</i>	PSWE6 (description="null", quantity="none")
<i>Int1d</i>	PLWE2 (description="null", quantity="none")
<i>Int1d</i>	PMWC7 (description="null", quantity="none")
<i>Int1d</i>	PSWE5 (description="null", quantity="none")
<i>Int1d</i>	PLWE3 (description="null", quantity="none")
<i>Int1d</i>	PMWC6 (description="null", quantity="none")
<i>Int1d</i>	PSWE8 (description="null", quantity="none")
<i>Int1d</i>	PLWE4 (description="null", quantity="none")
<i>Int1d</i>	PMWC5 (description="null", quantity="none")
<i>Int1d</i>	PSWE7 (description="null", quantity="none")
<i>Int1d</i>	PLWE5 (description="null", quantity="none")
<i>Int1d</i>	PLWE6 (description="null", quantity="none")

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<i>Int1d</i>	PSWE2 (description="null", quantity="none")
<i>Int1d</i>	PMWC4 (description="null", quantity="none")
<i>Int1d</i>	PLWE7 (description="null", quantity="none")
<i>Int1d</i>	PSWE1 (description="null", quantity="none")
<i>Int1d</i>	PMWC3 (description="null", quantity="none")
<i>Int1d</i>	PLWE8 (description="null", quantity="none")
<i>Int1d</i>	PSWE4 (description="null", quantity="none")
<i>Int1d</i>	PMWC2 (description="null", quantity="none")
<i>Int1d</i>	PSWE3 (description="null", quantity="none")
<i>Int1d</i>	PMWC1 (description="null", quantity="none")
<i>Int1d</i>	PLWE9 (description="null", quantity="none")
<i>Int1d</i>	PSWE9 (description="null", quantity="none")
<i>Int1d</i>	PLWE1 (description="null", quantity="none")
<i>Int1d</i>	PSWG1 (description="null", quantity="none")
<i>Int1d</i>	PSWG2 (description="null", quantity="none")
<i>Int1d</i>	PMWD7 (description="null", quantity="none")
<i>Int1d</i>	PSWF9 (description="null", quantity="none")
<i>Int1d</i>	PLWD3 (description="null", quantity="none")
<i>Int1d</i>	PMWD6 (description="null", quantity="none")
<i>Int1d</i>	PSWF8 (description="null", quantity="none")
<i>Int1d</i>	PLWD4 (description="null", quantity="none")
<i>Int1d</i>	PMWD9 (description="null", quantity="none")
<i>Int1d</i>	PSWF7 (description="null", quantity="none")
<i>Int1d</i>	PLWD1 (description="null", quantity="none")
<i>Int1d</i>	PMWD8 (description="null", quantity="none")
<i>Int1d</i>	PSWF6 (description="null", quantity="none")
<i>Int1d</i>	PLWD2 (description="null", quantity="none")
<i>Int1d</i>	PMWD3 (description="null", quantity="none")
<i>Int1d</i>	PSWF5 (description="null", quantity="none")
<i>Int1d</i>	PLWD7 (description="null", quantity="none")
<i>Int1d</i>	PMWD2 (description="null", quantity="none")
<i>Int1d</i>	PSWF4 (description="null", quantity="none")
<i>Int1d</i>	PLWD8 (description="null", quantity="none")
<i>Int1d</i>	PLWD5 (description="null", quantity="none")
<i>Int1d</i>	PSWF3 (description="null", quantity="none")
<i>Int1d</i>	PMWD5 (description="null", quantity="none")
<i>Int1d</i>	PLWD6 (description="null", quantity="none")
<i>Int1d</i>	PSWF2 (description="null", quantity="none")
<i>Int1d</i>	PMWD4 (description="null", quantity="none")
<i>Int1d</i>	PMWD1 (description="null", quantity="none")
<i>Int1d</i>	PMWA9 (description="null", quantity="none")
<i>Int1d</i>	PMWA7 (description="null", quantity="none")

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<i>Int1d</i>	PMWA8 (description="null", quantity="none")
<i>Int1d</i>	PMWA2 (description="null", quantity="none")
<i>Int1d</i>	PMWA1 (description="null", quantity="none")
<i>Int1d</i>	PSWC2 (description="null", quantity="none")
<i>Int1d</i>	PSWC1 (description="null", quantity="none")
<i>Int1d</i>	PSWC4 (description="null", quantity="none")
<i>Int1d</i>	PMWA6 (description="null", quantity="none")
<i>Int1d</i>	PSWC3 (description="null", quantity="none")
<i>Int1d</i>	PMWB10 (description="null", quantity="none")
<i>Int1d</i>	PMWA5 (description="null", quantity="none")
<i>Int1d</i>	PSWC6 (description="null", quantity="none")
<i>Int1d</i>	PMWA12 (description="null", quantity="none")
<i>Int1d</i>	PMWA4 (description="null", quantity="none")
<i>Int1d</i>	PMWA13 (description="null", quantity="none")
<i>Int1d</i>	PSWC5 (description="null", quantity="none")
<i>Int1d</i>	PMWA3 (description="null", quantity="none")
<i>Int1d</i>	PSWC8 (description="null", quantity="none")
<i>Int1d</i>	PMWA10 (description="null", quantity="none")
<i>Int1d</i>	PSWC7 (description="null", quantity="none")
<i>Int1d</i>	PMWA11 (description="null", quantity="none")
<i>Int1d</i>	PMWB11 (description="null", quantity="none")
<i>Int1d</i>	PSWC9 (description="null", quantity="none")
<i>Int1d</i>	PMWB12 (description="null", quantity="none")
<i>Int1d</i>	PMWE13 (description="null", quantity="none")
<i>Int1d</i>	PMWE12 (description="null", quantity="none")
<i>Int1d</i>	PMWE11 (description="null", quantity="none")
<i>Int1d</i>	PMWE10 (description="null", quantity="none")
<i>Int1d</i>	PMWB8 (description="null", quantity="none")
<i>Int1d</i>	PMWB9 (description="null", quantity="none")
<i>Int1d</i>	PMWF10 (description="null", quantity="none")
<i>Int1d</i>	PMWF12 (description="null", quantity="none")
<i>Int1d</i>	PMWF11 (description="null", quantity="none")
<i>Int1d</i>	PSWD3 (description="null", quantity="none")
<i>Int1d</i>	PMWB1 (description="null", quantity="none")
<i>Int1d</i>	PSWD2 (description="null", quantity="none")
<i>Int1d</i>	PSWD1 (description="null", quantity="none")
<i>Int1d</i>	PMWB3 (description="null", quantity="none")
<i>Int1d</i>	PMWB2 (description="null", quantity="none")
<i>Int1d</i>	PSWD7 (description="null", quantity="none")
<i>Int1d</i>	PMWB5 (description="null", quantity="none")
<i>Int1d</i>	PMWB4 (description="null", quantity="none")
<i>Int1d</i>	PSWD6 (description="null", quantity="none")

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<i>Int1d</i>	PMWB7 (description="null", quantity="none")
<i>Int1d</i>	PSWD5 (description="null", quantity="none")
<i>Int1d</i>	PMWB6 (description="null", quantity="none")
<i>Int1d</i>	PSWD4 (description="null", quantity="none")
<i>Int1d</i>	PSWD9 (description="null", quantity="none")
<i>Int1d</i>	PSWD8 (description="null", quantity="none")
<i>Int1d</i>	PSWJ3 (description="null", quantity="none")
<i>Int1d</i>	PLWA6 (description="null", quantity="none")
<i>Int1d</i>	PSWJ2 (description="null", quantity="none")
<i>Int1d</i>	PLWA7 (description="null", quantity="none")
<i>Int1d</i>	PSWJ5 (description="null", quantity="none")
<i>Int1d</i>	PLWA8 (description="null", quantity="none")
<i>Int1d</i>	PSWJ4 (description="null", quantity="none")
<i>Int1d</i>	PLWA9 (description="null", quantity="none")
<i>Int1d</i>	PSWJ1 (description="null", quantity="none")
<i>Int1d</i>	PLWA1 (description="null", quantity="none")
<i>Int1d</i>	PLWA3 (description="null", quantity="none")
<i>Int1d</i>	PLWA2 (description="null", quantity="none")
<i>Int1d</i>	PLWA5 (description="null", quantity="none")
<i>Int1d</i>	PLWA4 (description="null", quantity="none")
<i>Int1d</i>	PSWJ8 (description="null", quantity="none")
<i>Int1d</i>	PSWJ9 (description="null", quantity="none")
<i>Int1d</i>	PSWJ6 (description="null", quantity="none")
<i>Int1d</i>	PSWJ7 (description="null", quantity="none")
<i>Int1d</i>	PSWH16 (description="null", quantity="none")
<i>Int1d</i>	PSWD10 (description="null", quantity="none")
<i>Int1d</i>	PSWH15 (description="null", quantity="none")
<i>Int1d</i>	PSWH1 (description="null", quantity="none")
<i>Int1d</i>	PLWC8 (description="null", quantity="none")
<i>Int1d</i>	PLWC9 (description="null", quantity="none")
<i>Int1d</i>	PSWH3 (description="null", quantity="none")
<i>Int1d</i>	PSWH2 (description="null", quantity="none")
<i>Int1d</i>	PSWH10 (description="null", quantity="none")
<i>Int1d</i>	PSWH14 (description="null", quantity="none")
<i>Int1d</i>	PSWH13 (description="null", quantity="none")
<i>Int1d</i>	PSWH12 (description="null", quantity="none")
<i>Int1d</i>	PSWH11 (description="null", quantity="none")
<i>Int1d</i>	PSWD15 (description="null", quantity="none")
<i>Int1d</i>	PSWG3 (description="null", quantity="none")
<i>Int1d</i>	PLWC5 (description="null", quantity="none")
<i>Int1d</i>	PSWD16 (description="null", quantity="none")
<i>Int1d</i>	PSWG4 (description="null", quantity="none")

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<i>Int1d</i>	PLWC4 (description="null", quantity="none")
<i>Int1d</i>	PSWG5 (description="null", quantity="none")
<i>Int1d</i>	PLWC7 (description="null", quantity="none")
<i>Int1d</i>	PSWG6 (description="null", quantity="none")
<i>Int1d</i>	PLWC6 (description="null", quantity="none")
<i>Int1d</i>	PSWD11 (description="null", quantity="none")
<i>Int1d</i>	PSWG7 (description="null", quantity="none")
<i>Int1d</i>	PLWC1 (description="null", quantity="none")
<i>Int1d</i>	PSWD12 (description="null", quantity="none")
<i>Int1d</i>	PSWG8 (description="null", quantity="none")
<i>Int1d</i>	PSWD13 (description="null", quantity="none")
<i>Int1d</i>	PSWG9 (description="null", quantity="none")
<i>Int1d</i>	PLWC3 (description="null", quantity="none")
<i>Int1d</i>	PSWD14 (description="null", quantity="none")
<i>Int1d</i>	PLWC2 (description="null", quantity="none")
<i>Int1d</i>	PLWB7 (description="null", quantity="none")
<i>Int1d</i>	PLWB8 (description="null", quantity="none")
<i>Int1d</i>	PSWH6 (description="null", quantity="none")
<i>Int1d</i>	PLWB6 (description="null", quantity="none")
<i>Int1d</i>	PSWH7 (description="null", quantity="none")
<i>Int1d</i>	PLWB5 (description="null", quantity="none")
<i>Int1d</i>	PSWH4 (description="null", quantity="none")
<i>Int1d</i>	PLWB4 (description="null", quantity="none")
<i>Int1d</i>	PSWH5 (description="null", quantity="none")
<i>Int1d</i>	PLWB3 (description="null", quantity="none")
<i>Int1d</i>	PLWB2 (description="null", quantity="none")
<i>Int1d</i>	PLWB1 (description="null", quantity="none")
<i>Int1d</i>	PSWH8 (description="null", quantity="none")
<i>Int1d</i>	PSWH9 (description="null", quantity="none")
<i>Int1d</i>	PMWF8 (description="null", quantity="none")
<i>Int1d</i>	PMWF9 (description="null", quantity="none")
<i>Int1d</i>	PMWF6 (description="null", quantity="none")
<i>Int1d</i>	PMWF7 (description="null", quantity="none")
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<i>Int1d</i>	PMWF5 (description="null", quantity="none")
<i>Int1d</i>	PMWG13 (description="null", quantity="none")
<i>Int1d</i>	PMWF2 (description="null", quantity="none")
<i>Int1d</i>	PMWG12 (description="null", quantity="none")
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<i>Int1d</i>	PMWG11 (description="null", quantity="none")
<i>Int1d</i>	PMWG10 (description="null", quantity="none")
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<i>Int1d</i>	PSWC15 (description="null", quantity="none")
<i>Int1d</i>	PSWC14 (description="null", quantity="none")
<i>Int1d</i>	PSWC13 (description="null", quantity="none")
<i>Int1d</i>	PSWC12 (description="null", quantity="none")
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<i>Int1d</i>	PSWA10 (description="null", quantity="none")
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<i>Int1d</i>	PMWE8 (description="null", quantity="none")
<i>Int1d</i>	PMWE9 (description="null", quantity="none")
<i>Int1d</i>	PMWE3 (description="null", quantity="none")
<i>Int1d</i>	PMWE4 (description="null", quantity="none")
<i>Int1d</i>	PMWE5 (description="null", quantity="none")
<i>Int1d</i>	PMWE6 (description="null", quantity="none")
<i>Int1d</i>	PSWA14 (description="null", quantity="none")
<i>Int1d</i>	PMWE1 (description="null", quantity="none")
<i>Int1d</i>	PSWA15 (description="null", quantity="none")
<i>Int1d</i>	PMWE2 (description="null", quantity="none")
<i>Int1d</i>	PSWC10 (description="null", quantity="none")
<i>Int1d</i>	PSWC11 (description="null", quantity="none")
<i>Int1d</i>	PMWD11 (description="null", quantity="none")
<i>Int1d</i>	PMWD12 (description="null", quantity="none")
<i>Int1d</i>	PMWD10 (description="null", quantity="none")
<i>Int1d</i>	PSWE15 (description="null", quantity="none")
<i>Int1d</i>	PSWE14 (description="null", quantity="none")
<i>Int1d</i>	PSWE13 (description="null", quantity="none")
<i>Int1d</i>	PMWC12 (description="null", quantity="none")
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<i>Int1d</i>	PMWC13 (description="null", quantity="none")
<i>Int1d</i>	PSWE11 (description="null", quantity="none")
<i>Int1d</i>	PMWC10 (description="null", quantity="none")
<i>Int1d</i>	PSWE10 (description="null", quantity="none")
<i>Int1d</i>	PMWC11 (description="null", quantity="none")
<i>Int1d</i>	PSWG14 (description="null", quantity="none")
<i>Int1d</i>	PMWG5 (description="null", quantity="none")
<i>Int1d</i>	PSWG15 (description="null", quantity="none")
<i>Int1d</i>	PMWG6 (description="null", quantity="none")
<i>Int1d</i>	PSWG12 (description="null", quantity="none")
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<i>Int1d</i>	PSWG13 (description="null", quantity="none")
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<i>Int1d</i>	PSWG10 (description="null", quantity="none")
<i>Int1d</i>	PMWG9 (description="null", quantity="none")
<i>Int1d</i>	PSWG11 (description="null", quantity="none")
<i>Int1d</i>	PMWG1 (description="null", quantity="none")
<i>Int1d</i>	PMWG2 (description="null", quantity="none")
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<i>Int1d</i>	PMWG4 (description="null", quantity="none")
<i>Int1d</i>	PSWB6 (description="null", quantity="none")
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<i>Int1d</i>	PSWB2 (description="null", quantity="none")
<i>Int1d</i>	PSWB3 (description="null", quantity="none")
<i>Int1d</i>	PSWB4 (description="null", quantity="none")
<i>Int1d</i>	PSWB5 (description="null", quantity="none")
<i>Int1d</i>	PSWA7 (description="null", quantity="none")
<i>Int1d</i>	PSWA8 (description="null", quantity="none")
<i>Int1d</i>	PSWA5 (description="null", quantity="none")
<i>Int1d</i>	PSWA6 (description="null", quantity="none")
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<i>Int1d</i>	PSWA4 (description="null", quantity="none")
<i>Int1d</i>	PSWA1 (description="null", quantity="none")
<i>Int1d</i>	PSWA2 (description="null", quantity="none")
<i>Int1d</i>	PSWB12 (description="null", quantity="none")
<i>Int1d</i>	PSWB11 (description="null", quantity="none")
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<i>Int1d</i>	PSWJ10 (description="null", quantity="none")
<i>Int1d</i>	PSWJ11 (description="null", quantity="none")
<i>Int1d</i>	PSWJ12 (description="null", quantity="none")
<i>Int1d</i>	PSWJ13 (description="null", quantity="none")
<i>Int1d</i>	PSWJ14 (description="null", quantity="none")
<i>Int1d</i>	PSWJ15 (description="null", quantity="none")
<i>Int1d</i>	PSWF12 (description="null", quantity="none")
<i>Int1d</i>	PSWF11 (description="null", quantity="none")
<i>Int1d</i>	PSWF10 (description="null", quantity="none")
<i>Int1d</i>	PSWF16 (description="null", quantity="none")

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<i>Int1d</i>	PSWF15 (description="null", quantity="none")
<i>Int1d</i>	PSWF14 (description="null", quantity="none")
<i>Int1d</i>	PSWF13 (description="null", quantity="none")
<i>table dataset</i>	(description="glitchNumber_PSW")
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<i>Int1d</i>	PSWF1 (description="null", quantity="none")
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<i>Int1d</i>	PSWE6 (description="null", quantity="none")
<i>Int1d</i>	PLWE2 (description="null", quantity="none")
<i>Int1d</i>	PMWC7 (description="null", quantity="none")
<i>Int1d</i>	PSWE5 (description="null", quantity="none")
<i>Int1d</i>	PLWE3 (description="null", quantity="none")
<i>Int1d</i>	PMWC6 (description="null", quantity="none")
<i>Int1d</i>	PSWE8 (description="null", quantity="none")
<i>Int1d</i>	PLWE4 (description="null", quantity="none")
<i>Int1d</i>	PMWC5 (description="null", quantity="none")
<i>Int1d</i>	PSWE7 (description="null", quantity="none")
<i>Int1d</i>	PLWE5 (description="null", quantity="none")
<i>Int1d</i>	PLWE6 (description="null", quantity="none")
<i>Int1d</i>	PSWE2 (description="null", quantity="none")
<i>Int1d</i>	PMWC4 (description="null", quantity="none")
<i>Int1d</i>	PLWE7 (description="null", quantity="none")
<i>Int1d</i>	PSWE1 (description="null", quantity="none")
<i>Int1d</i>	PMWC3 (description="null", quantity="none")
<i>Int1d</i>	PLWE8 (description="null", quantity="none")
<i>Int1d</i>	PSWE4 (description="null", quantity="none")
<i>Int1d</i>	PMWC2 (description="null", quantity="none")
<i>Int1d</i>	PSWE3 (description="null", quantity="none")
<i>Int1d</i>	PMWC1 (description="null", quantity="none")
<i>Int1d</i>	PLWE9 (description="null", quantity="none")
<i>Int1d</i>	PSWE9 (description="null", quantity="none")
<i>Int1d</i>	PLWE1 (description="null", quantity="none")
<i>Int1d</i>	PSWG1 (description="null", quantity="none")
<i>Int1d</i>	PSWG2 (description="null", quantity="none")
<i>Int1d</i>	PMWD7 (description="null", quantity="none")
<i>Int1d</i>	PSWF9 (description="null", quantity="none")
<i>Int1d</i>	PLWD3 (description="null", quantity="none")
<i>Int1d</i>	PMWD6 (description="null", quantity="none")
<i>Int1d</i>	PSWF8 (description="null", quantity="none")
<i>Int1d</i>	PLWD4 (description="null", quantity="none")

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<i>Int1d</i>	PMWD9 (description="null", quantity="none")
<i>Int1d</i>	PSWF7 (description="null", quantity="none")
<i>Int1d</i>	PLWD1 (description="null", quantity="none")
<i>Int1d</i>	PMWD8 (description="null", quantity="none")
<i>Int1d</i>	PSWF6 (description="null", quantity="none")
<i>Int1d</i>	PLWD2 (description="null", quantity="none")
<i>Int1d</i>	PMWD3 (description="null", quantity="none")
<i>Int1d</i>	PSWF5 (description="null", quantity="none")
<i>Int1d</i>	PLWD7 (description="null", quantity="none")
<i>Int1d</i>	PMWD2 (description="null", quantity="none")
<i>Int1d</i>	PSWF4 (description="null", quantity="none")
<i>Int1d</i>	PLWD8 (description="null", quantity="none")
<i>Int1d</i>	PLWD5 (description="null", quantity="none")
<i>Int1d</i>	PSWF3 (description="null", quantity="none")
<i>Int1d</i>	PMWD5 (description="null", quantity="none")
<i>Int1d</i>	PLWD6 (description="null", quantity="none")
<i>Int1d</i>	PSWF2 (description="null", quantity="none")
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<i>Int1d</i>	PMWD1 (description="null", quantity="none")
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<i>Int1d</i>	PMWA1 (description="null", quantity="none")
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<i>Int1d</i>	PMWB10 (description="null", quantity="none")
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<i>Int1d</i>	PSWC5 (description="null", quantity="none")
<i>Int1d</i>	PMWA3 (description="null", quantity="none")
<i>Int1d</i>	PSWC8 (description="null", quantity="none")
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<i>Int1d</i>	PSWC7 (description="null", quantity="none")
<i>Int1d</i>	PMWA11 (description="null", quantity="none")
<i>Int1d</i>	PMWB11 (description="null", quantity="none")

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<i>Int1d</i>	PSWC9 (description="null", quantity="none")
<i>Int1d</i>	PMWB12 (description="null", quantity="none")
<i>Int1d</i>	PMWE13 (description="null", quantity="none")
<i>Int1d</i>	PMWE12 (description="null", quantity="none")
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<i>Int1d</i>	PSWJ2 (description="null", quantity="none")
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<i>Int1d</i>	PLWA9 (description="null", quantity="none")
<i>Int1d</i>	PSWJ1 (description="null", quantity="none")
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<i>Int1d</i>	PLWA2 (description="null", quantity="none")
<i>Int1d</i>	PLWA5 (description="null", quantity="none")
<i>Int1d</i>	PLWA4 (description="null", quantity="none")
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<i>Int1d</i>	PSWJ6 (description="null", quantity="none")
<i>Int1d</i>	PSWJ7 (description="null", quantity="none")
<i>Int1d</i>	PSWH16 (description="null", quantity="none")
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<i>Int1d</i>	PSWH1 (description="null", quantity="none")
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<i>Int1d</i>	PSWD16 (description="null", quantity="none")
<i>Int1d</i>	PSWG4 (description="null", quantity="none")
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<i>Int1d</i>	PLWC7 (description="null", quantity="none")
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<i>Int1d</i>	PLWC6 (description="null", quantity="none")
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<i>Int1d</i>	PMWD11 (description="null", quantity="none")
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<i>Int1d</i>	PMWG6 (description="null", quantity="none")
<i>Int1d</i>	PSWG12 (description="null", quantity="none")
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<i>Int1d</i>	PSWG13 (description="null", quantity="none")
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<i>Int1d</i>	PMWG3 (description="null", quantity="none")
<i>Int1d</i>	PMWG4 (description="null", quantity="none")
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<i>Int1d</i>	PSWB16 (description="null", quantity="none")
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<i>Int1d</i>	PSWJ12 (description="null", quantity="none")
<i>Int1d</i>	PSWJ13 (description="null", quantity="none")
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<i>Int1d</i>	PSWJ15 (description="null", quantity="none")
<i>Int1d</i>	PSWF12 (description="null", quantity="none")
<i>Int1d</i>	PSWF11 (description="null", quantity="none")
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<i>Int1d</i>	PSWF15 (description="null", quantity="none")
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<i>Metadata</i>	
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<i>Double1d</i>	PLWE3 (description="null", quantity="none")
<i>Double1d</i>	PMWC6 (description="null", quantity="none")
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<i>Double1d</i>	PMWC5 (description="null", quantity="none")
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<i>Double1d</i>	PSWE2 (description="null", quantity="none")
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<i>Double1d</i>	PMWD7 (description="null", quantity="none")
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<i>Double1d</i>	PMWD9 (description="null", quantity="none")
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<i>Double1d</i>	PSWF2 (description="null", quantity="none")
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<i>Double1d</i>	PMWA9 (description="null", quantity="none")
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<i>Double1d</i>	PMWA8 (description="null", quantity="none")
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<i>Double1d</i>	PSWC6 (description="null", quantity="none")
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<i>Double1d</i>	PMWB7 (description="null", quantity="none")
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<i>Double1d</i>	PSWJ4 (description="null", quantity="none")
<i>Double1d</i>	PLWA9 (description="null", quantity="none")
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<i>Double1d</i>	PSWJ7 (description="null", quantity="none")
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<i>Double1d</i>	PSWD10 (description="null", quantity="none")
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<i>Double1d</i>	PSWH1 (description="null", quantity="none")
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<i>Double1d</i>	PSWH3 (description="null", quantity="none")
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<i>Double1d</i>	PSWH10 (description="null", quantity="none")
<i>Double1d</i>	PSWH14 (description="null", quantity="none")
<i>Double1d</i>	PSWH13 (description="null", quantity="none")
<i>Double1d</i>	PSWH12 (description="null", quantity="none")
<i>Double1d</i>	PSWH11 (description="null", quantity="none")
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<i>Double1d</i>	PLWC5 (description="null", quantity="none")
<i>Double1d</i>	PSWD16 (description="null", quantity="none")
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<i>Double1d</i>	PLWC4 (description="null", quantity="none")
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<i>Double1d</i>	PSWG6 (description="null", quantity="none")
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<i>Double1d</i>	PSWD11 (description="null", quantity="none")
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<i>Double1d</i>	PSWD12 (description="null", quantity="none")
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<i>Double1d</i>	PSWD13 (description="null", quantity="none")
<i>Double1d</i>	PSWG9 (description="null", quantity="none")
<i>Double1d</i>	PLWC3 (description="null", quantity="none")
<i>Double1d</i>	PSWD14 (description="null", quantity="none")
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<i>Double1d</i>	PLWB6 (description="null", quantity="none")
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<i>Double1d</i>	PSWC15 (description="null", quantity="none")
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<i>Double1d</i>	PSWG10 (description="null", quantity="none")
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<i>Double1d</i>	PSWA6 (description="null", quantity="none")
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<i>Double1d</i>	PSWA9 (description="null", quantity="none")
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<i>Double1d</i>	PSWJ14 (description="null", quantity="none")
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<i>Double1d</i>	PSWF10 (description="null", quantity="none")
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<i>Int1d</i>	PLWE2 (description="null", quantity="none")
<i>Int1d</i>	PMWC7 (description="null", quantity="none")
<i>Int1d</i>	PSWE5 (description="null", quantity="none")
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<i>Int1d</i>	PMWC6 (description="null", quantity="none")
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<i>Int1d</i>	PLWE4 (description="null", quantity="none")
<i>Int1d</i>	PMWC5 (description="null", quantity="none")
<i>Int1d</i>	PSWE7 (description="null", quantity="none")
<i>Int1d</i>	PLWE5 (description="null", quantity="none")
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<i>Int1d</i>	PMWC4 (description="null", quantity="none")
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<i>Int1d</i>	PLWE8 (description="null", quantity="none")
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<i>Int1d</i>	PMWD9 (description="null", quantity="none")
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<i>Int1d</i>	PLWD6 (description="null", quantity="none")
<i>Int1d</i>	PSWF2 (description="null", quantity="none")
<i>Int1d</i>	PMWD4 (description="null", quantity="none")
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<i>Int1d</i>	PMWA8 (description="null", quantity="none")
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<i>Int1d</i>	PMWA1 (description="null", quantity="none")
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<i>Int1d</i>	PSWC3 (description="null", quantity="none")
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<i>Int1d</i>	PSWC6 (description="null", quantity="none")
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<i>Int1d</i>	PMWA4 (description="null", quantity="none")
<i>Int1d</i>	PMWA13 (description="null", quantity="none")
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<i>Int1d</i>	PMWA3 (description="null", quantity="none")
<i>Int1d</i>	PSWC8 (description="null", quantity="none")
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<i>Int1d</i>	PSWC7 (description="null", quantity="none")
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<i>Int1d</i>	PMWB2 (description="null", quantity="none")
<i>Int1d</i>	PSWD7 (description="null", quantity="none")
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<i>Int1d</i>	PMWB4 (description="null", quantity="none")
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<i>Int1d</i>	PSWD8 (description="null", quantity="none")
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<i>Int1d</i>	PLWA7 (description="null", quantity="none")
<i>Int1d</i>	PSWJ5 (description="null", quantity="none")
<i>Int1d</i>	PLWA8 (description="null", quantity="none")
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<i>Int1d</i>	PLWA9 (description="null", quantity="none")
<i>Int1d</i>	PSWJ1 (description="null", quantity="none")
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<i>Int1d</i>	PLWA3 (description="null", quantity="none")
<i>Int1d</i>	PLWA2 (description="null", quantity="none")
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<i>Int1d</i>	PLWA4 (description="null", quantity="none")
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<i>Int1d</i>	PSWJ9 (description="null", quantity="none")
<i>Int1d</i>	PSWJ6 (description="null", quantity="none")
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<i>Int1d</i>	PSWH10 (description="null", quantity="none")
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<i>Int1d</i>	PSWD15 (description="null", quantity="none")
<i>Int1d</i>	PSWG3 (description="null", quantity="none")
<i>Int1d</i>	PLWC5 (description="null", quantity="none")
<i>Int1d</i>	PSWD16 (description="null", quantity="none")
<i>Int1d</i>	PSWG4 (description="null", quantity="none")
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<i>Int1d</i>	PLWB7 (description="null", quantity="none")
<i>Int1d</i>	PLWB8 (description="null", quantity="none")
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<i>Int1d</i>	PSWH7 (description="null", quantity="none")
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<i>Int1d</i>	PMWF5 (description="null", quantity="none")
<i>Int1d</i>	PMWG13 (description="null", quantity="none")
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<i>Int1d</i>	PMWF3 (description="null", quantity="none")
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<i>Int1d</i>	PSWA6 (description="null", quantity="none")
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<i>Int1d</i>	PSWB16 (description="null", quantity="none")
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<i>Int1d</i>	PSWB11 (description="null", quantity="none")
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<i>Int1d</i>	PSWJ12 (description="null", quantity="none")
<i>Int1d</i>	PSWJ13 (description="null", quantity="none")
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<i>Int1d</i>	PSWJ15 (description="null", quantity="none")
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<i>Double1d</i>	PMWC7 (description="null", quantity="none")
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<i>Double1d</i>	PMWC6 (description="null", quantity="none")
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<i>Double1d</i>	PMWC5 (description="null", quantity="none")
<i>Double1d</i>	PSWE7 (description="null", quantity="none")
<i>Double1d</i>	PLWE5 (description="null", quantity="none")
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<i>Double1d</i>	PSWE2 (description="null", quantity="none")
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<i>Double1d</i>	PMWD6 (description="null", quantity="none")
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<i>Double1d</i>	PLWD4 (description="null", quantity="none")
<i>Double1d</i>	PMWD9 (description="null", quantity="none")
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<i>Double1d</i>	PSWF2 (description="null", quantity="none")
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<i>Double1d</i>	PMWA9 (description="null", quantity="none")
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<i>Double1d</i>	PMWA8 (description="null", quantity="none")
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<i>Double1d</i>	PSWC7 (description="null", quantity="none")
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<i>Double1d</i>	PSWC9 (description="null", quantity="none")
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<i>Double1d</i>	PMWE4 (description="null", quantity="none")
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<i>Double1d</i>	PMWE6 (description="null", quantity="none")
<i>Double1d</i>	PSWA14 (description="null", quantity="none")
<i>Double1d</i>	PMWE1 (description="null", quantity="none")
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<i>Double1d</i>	PSWC10 (description="null", quantity="none")
<i>Double1d</i>	PSWC11 (description="null", quantity="none")
<i>Double1d</i>	PMWD11 (description="null", quantity="none")
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<i>Double1d</i>	PSWE11 (description="null", quantity="none")
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<i>Double1d</i>	PMWC11 (description="null", quantity="none")
<i>Double1d</i>	PSWG14 (description="null", quantity="none")
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<i>Double1d</i>	PSWG10 (description="null", quantity="none")
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<i>Double1d</i>	PSWB2 (description="null", quantity="none")
<i>Double1d</i>	PSWB3 (description="null", quantity="none")
<i>Double1d</i>	PSWB4 (description="null", quantity="none")
<i>Double1d</i>	PSWB5 (description="null", quantity="none")
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<i>Double1d</i>	PSWB13 (description="null", quantity="none")
<i>Double1d</i>	PSWB14 (description="null", quantity="none")
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<i>Double1d</i>	PSWA1 (description="null", quantity="none")
<i>Double1d</i>	PSWA2 (description="null", quantity="none")
<i>Double1d</i>	PSWB12 (description="null", quantity="none")
<i>Double1d</i>	PSWB11 (description="null", quantity="none")
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<i>Double1d</i>	PSWJ10 (description="null", quantity="none")
<i>Double1d</i>	PSWJ11 (description="null", quantity="none")
<i>Double1d</i>	PSWJ12 (description="null", quantity="none")
<i>Double1d</i>	PSWJ13 (description="null", quantity="none")
<i>Double1d</i>	PSWJ14 (description="null", quantity="none")
<i>Double1d</i>	PSWJ15 (description="null", quantity="none")
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<i>Double1d</i>	PSWF10 (description="null", quantity="none")
<i>Double1d</i>	PSWF16 (description="null", quantity="none")

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<i>Double1d</i>	PSWF15 (description="null", quantity="none")
<i>Double1d</i>	PSWF14 (description="null", quantity="none")
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<i>Metadata</i>	
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<i>Int1d</i>	PMWC8 (description="null", quantity="none")
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<i>Int1d</i>	PLWE2 (description="null", quantity="none")
<i>Int1d</i>	PMWC7 (description="null", quantity="none")
<i>Int1d</i>	PSWE5 (description="null", quantity="none")
<i>Int1d</i>	PLWE3 (description="null", quantity="none")
<i>Int1d</i>	PMWC6 (description="null", quantity="none")
<i>Int1d</i>	PSWE8 (description="null", quantity="none")
<i>Int1d</i>	PLWE4 (description="null", quantity="none")
<i>Int1d</i>	PMWC5 (description="null", quantity="none")
<i>Int1d</i>	PSWE7 (description="null", quantity="none")
<i>Int1d</i>	PLWE5 (description="null", quantity="none")
<i>Int1d</i>	PLWE6 (description="null", quantity="none")
<i>Int1d</i>	PSWE2 (description="null", quantity="none")
<i>Int1d</i>	PMWC4 (description="null", quantity="none")
<i>Int1d</i>	PLWE7 (description="null", quantity="none")
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<i>Int1d</i>	PMWC3 (description="null", quantity="none")
<i>Int1d</i>	PLWE8 (description="null", quantity="none")
<i>Int1d</i>	PSWE4 (description="null", quantity="none")
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<i>Int1d</i>	PMWC1 (description="null", quantity="none")
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<i>Int1d</i>	PSWG2 (description="null", quantity="none")
<i>Int1d</i>	PMWD7 (description="null", quantity="none")
<i>Int1d</i>	PSWF9 (description="null", quantity="none")
<i>Int1d</i>	PLWD3 (description="null", quantity="none")
<i>Int1d</i>	PMWD6 (description="null", quantity="none")
<i>Int1d</i>	PSWF8 (description="null", quantity="none")
<i>Int1d</i>	PLWD4 (description="null", quantity="none")

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<i>Int1d</i>	PMWD9 (description="null", quantity="none")
<i>Int1d</i>	PSWF7 (description="null", quantity="none")
<i>Int1d</i>	PLWD1 (description="null", quantity="none")
<i>Int1d</i>	PMWD8 (description="null", quantity="none")
<i>Int1d</i>	PSWF6 (description="null", quantity="none")
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<i>Int1d</i>	PSWF5 (description="null", quantity="none")
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<i>Int1d</i>	PSWF4 (description="null", quantity="none")
<i>Int1d</i>	PLWD8 (description="null", quantity="none")
<i>Int1d</i>	PLWD5 (description="null", quantity="none")
<i>Int1d</i>	PSWF3 (description="null", quantity="none")
<i>Int1d</i>	PMWD5 (description="null", quantity="none")
<i>Int1d</i>	PLWD6 (description="null", quantity="none")
<i>Int1d</i>	PSWF2 (description="null", quantity="none")
<i>Int1d</i>	PMWD4 (description="null", quantity="none")
<i>Int1d</i>	PMWD1 (description="null", quantity="none")
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<i>Int1d</i>	PMWA7 (description="null", quantity="none")
<i>Int1d</i>	PMWA8 (description="null", quantity="none")
<i>Int1d</i>	PMWA2 (description="null", quantity="none")
<i>Int1d</i>	PMWA1 (description="null", quantity="none")
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<i>Int1d</i>	PSWC1 (description="null", quantity="none")
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<i>Int1d</i>	PMWA5 (description="null", quantity="none")
<i>Int1d</i>	PSWC6 (description="null", quantity="none")
<i>Int1d</i>	PMWA12 (description="null", quantity="none")
<i>Int1d</i>	PMWA4 (description="null", quantity="none")
<i>Int1d</i>	PMWA13 (description="null", quantity="none")
<i>Int1d</i>	PSWC5 (description="null", quantity="none")
<i>Int1d</i>	PMWA3 (description="null", quantity="none")
<i>Int1d</i>	PSWC8 (description="null", quantity="none")
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<i>Int1d</i>	PSWC7 (description="null", quantity="none")
<i>Int1d</i>	PMWA11 (description="null", quantity="none")
<i>Int1d</i>	PMWB11 (description="null", quantity="none")

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<i>Int1d</i>	PSWC9 (description="null", quantity="none")
<i>Int1d</i>	PMWB12 (description="null", quantity="none")
<i>Int1d</i>	PMWE13 (description="null", quantity="none")
<i>Int1d</i>	PMWE12 (description="null", quantity="none")
<i>Int1d</i>	PMWE11 (description="null", quantity="none")
<i>Int1d</i>	PMWE10 (description="null", quantity="none")
<i>Int1d</i>	PMWB8 (description="null", quantity="none")
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<i>Int1d</i>	PMWF12 (description="null", quantity="none")
<i>Int1d</i>	PMWF11 (description="null", quantity="none")
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<i>Int1d</i>	PSWD7 (description="null", quantity="none")
<i>Int1d</i>	PMWB5 (description="null", quantity="none")
<i>Int1d</i>	PMWB4 (description="null", quantity="none")
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<i>Int1d</i>	PMWB7 (description="null", quantity="none")
<i>Int1d</i>	PSWD5 (description="null", quantity="none")
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<i>Int1d</i>	PSWD8 (description="null", quantity="none")
<i>Int1d</i>	PSWJ3 (description="null", quantity="none")
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<i>Int1d</i>	PSWJ2 (description="null", quantity="none")
<i>Int1d</i>	PLWA7 (description="null", quantity="none")
<i>Int1d</i>	PSWJ5 (description="null", quantity="none")
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<i>Int1d</i>	PLWA9 (description="null", quantity="none")
<i>Int1d</i>	PSWJ1 (description="null", quantity="none")
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<i>Int1d</i>	PLWA3 (description="null", quantity="none")
<i>Int1d</i>	PLWA2 (description="null", quantity="none")
<i>Int1d</i>	PLWA5 (description="null", quantity="none")
<i>Int1d</i>	PLWA4 (description="null", quantity="none")
<i>Int1d</i>	PSWJ8 (description="null", quantity="none")

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<i>Int1d</i>	PSWJ9 (description="null", quantity="none")
<i>Int1d</i>	PSWJ6 (description="null", quantity="none")
<i>Int1d</i>	PSWJ7 (description="null", quantity="none")
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<i>Int1d</i>	PSWG3 (description="null", quantity="none")
<i>Int1d</i>	PLWC5 (description="null", quantity="none")
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<i>Int1d</i>	PLWC4 (description="null", quantity="none")
<i>Int1d</i>	PSWG5 (description="null", quantity="none")
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<i>Int1d</i>	PSWD11 (description="null", quantity="none")
<i>Int1d</i>	PSWG7 (description="null", quantity="none")
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<i>Int1d</i>	PMWF4 (description="null", quantity="none")
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<i>Int1d</i>	PMWG10 (description="null", quantity="none")
<i>Int1d</i>	PMWF1 (description="null", quantity="none")
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<i>Int1d</i>	PSWC12 (description="null", quantity="none")
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<i>Int1d</i>	PMWD11 (description="null", quantity="none")
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<i>Int1d</i>	PSWG15 (description="null", quantity="none")
<i>Int1d</i>	PMWG6 (description="null", quantity="none")
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<i>Int1d</i>	PMWG3 (description="null", quantity="none")
<i>Int1d</i>	PMWG4 (description="null", quantity="none")
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<i>Int1d</i>	PSWB3 (description="null", quantity="none")
<i>Int1d</i>	PSWB4 (description="null", quantity="none")
<i>Int1d</i>	PSWB5 (description="null", quantity="none")
<i>Int1d</i>	PSWA7 (description="null", quantity="none")
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<i>Int1d</i>	PSWA6 (description="null", quantity="none")
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<i>Int1d</i>	PSWB16 (description="null", quantity="none")
<i>Int1d</i>	PSWA9 (description="null", quantity="none")
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<i>Int1d</i>	PSWB12 (description="null", quantity="none")
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<i>Int1d</i>	PSWJ10 (description="null", quantity="none")
<i>Int1d</i>	PSWJ11 (description="null", quantity="none")
<i>Int1d</i>	PSWJ12 (description="null", quantity="none")
<i>Int1d</i>	PSWJ13 (description="null", quantity="none")
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<i>Int1d</i>	PSWJ15 (description="null", quantity="none")
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<i>Int1d</i>	PSWF16 (description="null", quantity="none")
<i>Int1d</i>	PSWF15 (description="null", quantity="none")
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<i>Metadata</i>	
<i>Double1d</i>	PSWF1 (description="null", quantity="none")
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<i>Double1d</i>	PLWE2 (description="null", quantity="none")
<i>Double1d</i>	PMWC7 (description="null", quantity="none")
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<i>Double1d</i>	PLWE3 (description="null", quantity="none")
<i>Double1d</i>	PMWC6 (description="null", quantity="none")
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<i>Double1d</i>	PLWE4 (description="null", quantity="none")
<i>Double1d</i>	PMWC5 (description="null", quantity="none")
<i>Double1d</i>	PSWE7 (description="null", quantity="none")
<i>Double1d</i>	PLWE5 (description="null", quantity="none")
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<i>Double1d</i>	PSWE2 (description="null", quantity="none")
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<i>Double1d</i>	PLWE8 (description="null", quantity="none")
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<i>Double1d</i>	PLWE1 (description="null", quantity="none")
<i>Double1d</i>	PSWG1 (description="null", quantity="none")
<i>Double1d</i>	PSWG2 (description="null", quantity="none")
<i>Double1d</i>	PMWD7 (description="null", quantity="none")
<i>Double1d</i>	PSWF9 (description="null", quantity="none")
<i>Double1d</i>	PLWD3 (description="null", quantity="none")
<i>Double1d</i>	PMWD6 (description="null", quantity="none")
<i>Double1d</i>	PSWF8 (description="null", quantity="none")
<i>Double1d</i>	PLWD4 (description="null", quantity="none")
<i>Double1d</i>	PMWD9 (description="null", quantity="none")
<i>Double1d</i>	PSWF7 (description="null", quantity="none")
<i>Double1d</i>	PLWD1 (description="null", quantity="none")
<i>Double1d</i>	PMWD8 (description="null", quantity="none")
<i>Double1d</i>	PSWF6 (description="null", quantity="none")
<i>Double1d</i>	PLWD2 (description="null", quantity="none")
<i>Double1d</i>	PMWD3 (description="null", quantity="none")
<i>Double1d</i>	PSWF5 (description="null", quantity="none")
<i>Double1d</i>	PLWD7 (description="null", quantity="none")
<i>Double1d</i>	PMWD2 (description="null", quantity="none")
<i>Double1d</i>	PSWF4 (description="null", quantity="none")
<i>Double1d</i>	PLWD8 (description="null", quantity="none")
<i>Double1d</i>	PLWD5 (description="null", quantity="none")
<i>Double1d</i>	PSWF3 (description="null", quantity="none")
<i>Double1d</i>	PMWD5 (description="null", quantity="none")
<i>Double1d</i>	PLWD6 (description="null", quantity="none")
<i>Double1d</i>	PSWF2 (description="null", quantity="none")
<i>Double1d</i>	PMWD4 (description="null", quantity="none")
<i>Double1d</i>	PMWD1 (description="null", quantity="none")
<i>Double1d</i>	PMWA9 (description="null", quantity="none")
<i>Double1d</i>	PMWA7 (description="null", quantity="none")

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<i>Double1d</i>	PMWA8 (description="null", quantity="none")
<i>Double1d</i>	PMWA2 (description="null", quantity="none")
<i>Double1d</i>	PMWA1 (description="null", quantity="none")
<i>Double1d</i>	PSWC2 (description="null", quantity="none")
<i>Double1d</i>	PSWC1 (description="null", quantity="none")
<i>Double1d</i>	PSWC4 (description="null", quantity="none")
<i>Double1d</i>	PMWA6 (description="null", quantity="none")
<i>Double1d</i>	PSWC3 (description="null", quantity="none")
<i>Double1d</i>	PMWB10 (description="null", quantity="none")
<i>Double1d</i>	PMWA5 (description="null", quantity="none")
<i>Double1d</i>	PSWC6 (description="null", quantity="none")
<i>Double1d</i>	PMWA12 (description="null", quantity="none")
<i>Double1d</i>	PMWA4 (description="null", quantity="none")
<i>Double1d</i>	PMWA13 (description="null", quantity="none")
<i>Double1d</i>	PSWC5 (description="null", quantity="none")
<i>Double1d</i>	PMWA3 (description="null", quantity="none")
<i>Double1d</i>	PSWC8 (description="null", quantity="none")
<i>Double1d</i>	PMWA10 (description="null", quantity="none")
<i>Double1d</i>	PSWC7 (description="null", quantity="none")
<i>Double1d</i>	PMWA11 (description="null", quantity="none")
<i>Double1d</i>	PMWB11 (description="null", quantity="none")
<i>Double1d</i>	PSWC9 (description="null", quantity="none")
<i>Double1d</i>	PMWB12 (description="null", quantity="none")
<i>Double1d</i>	PMWE13 (description="null", quantity="none")
<i>Double1d</i>	PMWE12 (description="null", quantity="none")
<i>Double1d</i>	PMWE11 (description="null", quantity="none")
<i>Double1d</i>	PMWE10 (description="null", quantity="none")
<i>Double1d</i>	PMWB8 (description="null", quantity="none")
<i>Double1d</i>	PMWB9 (description="null", quantity="none")
<i>Double1d</i>	PMWF10 (description="null", quantity="none")
<i>Double1d</i>	PMWF12 (description="null", quantity="none")
<i>Double1d</i>	PMWF11 (description="null", quantity="none")
<i>Double1d</i>	PSWD3 (description="null", quantity="none")
<i>Double1d</i>	PMWB1 (description="null", quantity="none")
<i>Double1d</i>	PSWD2 (description="null", quantity="none")
<i>Double1d</i>	PSWD1 (description="null", quantity="none")
<i>Double1d</i>	PMWB3 (description="null", quantity="none")
<i>Double1d</i>	PMWB2 (description="null", quantity="none")
<i>Double1d</i>	PSWD7 (description="null", quantity="none")
<i>Double1d</i>	PMWB5 (description="null", quantity="none")
<i>Double1d</i>	PMWB4 (description="null", quantity="none")
<i>Double1d</i>	PSWD6 (description="null", quantity="none")

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<i>Double1d</i>	PMWB7 (description="null", quantity="none")
<i>Double1d</i>	PSWD5 (description="null", quantity="none")
<i>Double1d</i>	PMWB6 (description="null", quantity="none")
<i>Double1d</i>	PSWD4 (description="null", quantity="none")
<i>Double1d</i>	PSWD9 (description="null", quantity="none")
<i>Double1d</i>	PSWD8 (description="null", quantity="none")
<i>Double1d</i>	PSWJ3 (description="null", quantity="none")
<i>Double1d</i>	PLWA6 (description="null", quantity="none")
<i>Double1d</i>	PSWJ2 (description="null", quantity="none")
<i>Double1d</i>	PLWA7 (description="null", quantity="none")
<i>Double1d</i>	PSWJ5 (description="null", quantity="none")
<i>Double1d</i>	PLWA8 (description="null", quantity="none")
<i>Double1d</i>	PSWJ4 (description="null", quantity="none")
<i>Double1d</i>	PLWA9 (description="null", quantity="none")
<i>Double1d</i>	PSWJ1 (description="null", quantity="none")
<i>Double1d</i>	PLWA1 (description="null", quantity="none")
<i>Double1d</i>	PLWA3 (description="null", quantity="none")
<i>Double1d</i>	PLWA2 (description="null", quantity="none")
<i>Double1d</i>	PLWA5 (description="null", quantity="none")
<i>Double1d</i>	PLWA4 (description="null", quantity="none")
<i>Double1d</i>	PSWJ8 (description="null", quantity="none")
<i>Double1d</i>	PSWJ9 (description="null", quantity="none")
<i>Double1d</i>	PSWJ6 (description="null", quantity="none")
<i>Double1d</i>	PSWJ7 (description="null", quantity="none")
<i>Double1d</i>	PSWH16 (description="null", quantity="none")
<i>Double1d</i>	PSWD10 (description="null", quantity="none")
<i>Double1d</i>	PSWH15 (description="null", quantity="none")
<i>Double1d</i>	PSWH1 (description="null", quantity="none")
<i>Double1d</i>	PLWC8 (description="null", quantity="none")
<i>Double1d</i>	PLWC9 (description="null", quantity="none")
<i>Double1d</i>	PSWH3 (description="null", quantity="none")
<i>Double1d</i>	PSWH2 (description="null", quantity="none")
<i>Double1d</i>	PSWH10 (description="null", quantity="none")
<i>Double1d</i>	PSWH14 (description="null", quantity="none")
<i>Double1d</i>	PSWH13 (description="null", quantity="none")
<i>Double1d</i>	PSWH12 (description="null", quantity="none")
<i>Double1d</i>	PSWH11 (description="null", quantity="none")
<i>Double1d</i>	PSWD15 (description="null", quantity="none")
<i>Double1d</i>	PSWG3 (description="null", quantity="none")
<i>Double1d</i>	PLWC5 (description="null", quantity="none")
<i>Double1d</i>	PSWD16 (description="null", quantity="none")
<i>Double1d</i>	PSWG4 (description="null", quantity="none")

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<i>Double1d</i>	PLWC4 (description="null", quantity="none")
<i>Double1d</i>	PSWG5 (description="null", quantity="none")
<i>Double1d</i>	PLWC7 (description="null", quantity="none")
<i>Double1d</i>	PSWG6 (description="null", quantity="none")
<i>Double1d</i>	PLWC6 (description="null", quantity="none")
<i>Double1d</i>	PSWD11 (description="null", quantity="none")
<i>Double1d</i>	PSWG7 (description="null", quantity="none")
<i>Double1d</i>	PLWC1 (description="null", quantity="none")
<i>Double1d</i>	PSWD12 (description="null", quantity="none")
<i>Double1d</i>	PSWG8 (description="null", quantity="none")
<i>Double1d</i>	PSWD13 (description="null", quantity="none")
<i>Double1d</i>	PSWG9 (description="null", quantity="none")
<i>Double1d</i>	PLWC3 (description="null", quantity="none")
<i>Double1d</i>	PSWD14 (description="null", quantity="none")
<i>Double1d</i>	PLWC2 (description="null", quantity="none")
<i>Double1d</i>	PLWB7 (description="null", quantity="none")
<i>Double1d</i>	PLWB8 (description="null", quantity="none")
<i>Double1d</i>	PSWH6 (description="null", quantity="none")
<i>Double1d</i>	PLWB6 (description="null", quantity="none")
<i>Double1d</i>	PSWH7 (description="null", quantity="none")
<i>Double1d</i>	PLWB5 (description="null", quantity="none")
<i>Double1d</i>	PSWH4 (description="null", quantity="none")
<i>Double1d</i>	PLWB4 (description="null", quantity="none")
<i>Double1d</i>	PSWH5 (description="null", quantity="none")
<i>Double1d</i>	PLWB3 (description="null", quantity="none")
<i>Double1d</i>	PLWB2 (description="null", quantity="none")
<i>Double1d</i>	PLWB1 (description="null", quantity="none")
<i>Double1d</i>	PSWH8 (description="null", quantity="none")
<i>Double1d</i>	PSWH9 (description="null", quantity="none")
<i>Double1d</i>	PMWF8 (description="null", quantity="none")
<i>Double1d</i>	PMWF9 (description="null", quantity="none")
<i>Double1d</i>	PMWF6 (description="null", quantity="none")
<i>Double1d</i>	PMWF7 (description="null", quantity="none")
<i>Double1d</i>	PMWF4 (description="null", quantity="none")
<i>Double1d</i>	PMWF5 (description="null", quantity="none")
<i>Double1d</i>	PMWG13 (description="null", quantity="none")
<i>Double1d</i>	PMWF2 (description="null", quantity="none")
<i>Double1d</i>	PMWG12 (description="null", quantity="none")
<i>Double1d</i>	PMWF3 (description="null", quantity="none")
<i>Double1d</i>	PMWG11 (description="null", quantity="none")
<i>Double1d</i>	PMWG10 (description="null", quantity="none")
<i>Double1d</i>	PMWF1 (description="null", quantity="none")

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<i>Double1d</i>	PSWC15 (description="null", quantity="none")
<i>Double1d</i>	PSWC14 (description="null", quantity="none")
<i>Double1d</i>	PSWC13 (description="null", quantity="none")
<i>Double1d</i>	PSWC12 (description="null", quantity="none")
<i>Double1d</i>	PSWA13 (description="null", quantity="none")
<i>Double1d</i>	PSWA12 (description="null", quantity="none")
<i>Double1d</i>	PSWA11 (description="null", quantity="none")
<i>Double1d</i>	PSWA10 (description="null", quantity="none")
<i>Double1d</i>	PMWE7 (description="null", quantity="none")
<i>Double1d</i>	PMWE8 (description="null", quantity="none")
<i>Double1d</i>	PMWE9 (description="null", quantity="none")
<i>Double1d</i>	PMWE3 (description="null", quantity="none")
<i>Double1d</i>	PMWE4 (description="null", quantity="none")
<i>Double1d</i>	PMWE5 (description="null", quantity="none")
<i>Double1d</i>	PMWE6 (description="null", quantity="none")
<i>Double1d</i>	PSWA14 (description="null", quantity="none")
<i>Double1d</i>	PMWE1 (description="null", quantity="none")
<i>Double1d</i>	PSWA15 (description="null", quantity="none")
<i>Double1d</i>	PMWE2 (description="null", quantity="none")
<i>Double1d</i>	PSWC10 (description="null", quantity="none")
<i>Double1d</i>	PSWC11 (description="null", quantity="none")
<i>Double1d</i>	PMWD11 (description="null", quantity="none")
<i>Double1d</i>	PMWD12 (description="null", quantity="none")
<i>Double1d</i>	PMWD10 (description="null", quantity="none")
<i>Double1d</i>	PSWE15 (description="null", quantity="none")
<i>Double1d</i>	PSWE14 (description="null", quantity="none")
<i>Double1d</i>	PSWE13 (description="null", quantity="none")
<i>Double1d</i>	PMWC12 (description="null", quantity="none")
<i>Double1d</i>	PSWE12 (description="null", quantity="none")
<i>Double1d</i>	PMWC13 (description="null", quantity="none")
<i>Double1d</i>	PSWE11 (description="null", quantity="none")
<i>Double1d</i>	PMWC10 (description="null", quantity="none")
<i>Double1d</i>	PSWE10 (description="null", quantity="none")
<i>Double1d</i>	PMWC11 (description="null", quantity="none")
<i>Double1d</i>	PSWG14 (description="null", quantity="none")
<i>Double1d</i>	PMWG5 (description="null", quantity="none")
<i>Double1d</i>	PSWG15 (description="null", quantity="none")
<i>Double1d</i>	PMWG6 (description="null", quantity="none")
<i>Double1d</i>	PSWG12 (description="null", quantity="none")
<i>Double1d</i>	PMWG7 (description="null", quantity="none")
<i>Double1d</i>	PSWG13 (description="null", quantity="none")
<i>Double1d</i>	PMWG8 (description="null", quantity="none")

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<i>Double1d</i>	PSWG10 (description="null", quantity="none")
<i>Double1d</i>	PMWG9 (description="null", quantity="none")
<i>Double1d</i>	PSWG11 (description="null", quantity="none")
<i>Double1d</i>	PMWG1 (description="null", quantity="none")
<i>Double1d</i>	PMWG2 (description="null", quantity="none")
<i>Double1d</i>	PMWG3 (description="null", quantity="none")
<i>Double1d</i>	PMWG4 (description="null", quantity="none")
<i>Double1d</i>	PSWB6 (description="null", quantity="none")
<i>Double1d</i>	PSWB7 (description="null", quantity="none")
<i>Double1d</i>	PSWB8 (description="null", quantity="none")
<i>Double1d</i>	PSWB9 (description="null", quantity="none")
<i>Double1d</i>	PSWB1 (description="null", quantity="none")
<i>Double1d</i>	PSWB2 (description="null", quantity="none")
<i>Double1d</i>	PSWB3 (description="null", quantity="none")
<i>Double1d</i>	PSWB4 (description="null", quantity="none")
<i>Double1d</i>	PSWB5 (description="null", quantity="none")
<i>Double1d</i>	PSWA7 (description="null", quantity="none")
<i>Double1d</i>	PSWA8 (description="null", quantity="none")
<i>Double1d</i>	PSWA5 (description="null", quantity="none")
<i>Double1d</i>	PSWA6 (description="null", quantity="none")
<i>Double1d</i>	PSWB15 (description="null", quantity="none")
<i>Double1d</i>	PSWB16 (description="null", quantity="none")
<i>Double1d</i>	PSWA9 (description="null", quantity="none")
<i>Double1d</i>	PSWB13 (description="null", quantity="none")
<i>Double1d</i>	PSWB14 (description="null", quantity="none")
<i>Double1d</i>	PSWA3 (description="null", quantity="none")
<i>Double1d</i>	PSWA4 (description="null", quantity="none")
<i>Double1d</i>	PSWA1 (description="null", quantity="none")
<i>Double1d</i>	PSWA2 (description="null", quantity="none")
<i>Double1d</i>	PSWB12 (description="null", quantity="none")
<i>Double1d</i>	PSWB11 (description="null", quantity="none")
<i>Double1d</i>	PSWB10 (description="null", quantity="none")
<i>Double1d</i>	PSWJ10 (description="null", quantity="none")
<i>Double1d</i>	PSWJ11 (description="null", quantity="none")
<i>Double1d</i>	PSWJ12 (description="null", quantity="none")
<i>Double1d</i>	PSWJ13 (description="null", quantity="none")
<i>Double1d</i>	PSWJ14 (description="null", quantity="none")
<i>Double1d</i>	PSWJ15 (description="null", quantity="none")
<i>Double1d</i>	PSWF12 (description="null", quantity="none")
<i>Double1d</i>	PSWF11 (description="null", quantity="none")
<i>Double1d</i>	PSWF10 (description="null", quantity="none")
<i>Double1d</i>	PSWF16 (description="null", quantity="none")

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

11.3.2. PSP: Photometer Scan Product

<i>product</i> (type="PSP", description="Photometer Scan Product")	
<i>Metadata</i>	
<i>StringParameter</i>	type (description="Product Type Identification")
<i>StringParameter</i>	creator (description="Generator of this product")
<i>DateParameter</i>	creationDate (description="Creation date of this product")

StringParameter	description (description="Name 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	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	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")
<i>table dataset</i>	(description="Mask timelines")
<i>Metadata</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>IntId</i>	PSWR1 (description="PHOTFARRAY001", quantity="")
<i>IntId</i>	PSWD16 (description="PHOTFARRAY002", quantity="")
<i>IntId</i>	PSWT1 (description="PHOTFARRAY003", quantity="")
<i>IntId</i>	PSWB16 (description="PHOTFARRAY004", quantity="")
<i>IntId</i>	PSWC15 (description="PHOTFARRAY005", quantity="")
<i>IntId</i>	PSWA15 (description="PHOTFARRAY006", quantity="")
<i>IntId</i>	PSWD15 (description="PHOTFARRAY007", quantity="")
<i>IntId</i>	PSWB15 (description="PHOTFARRAY008", quantity="")
<i>IntId</i>	PSWC14 (description="PHOTFARRAY009", quantity="")
<i>IntId</i>	PSWD14 (description="PHOTFARRAY010", quantity="")
<i>IntId</i>	PSWA14 (description="PHOTFARRAY011", quantity="")
<i>IntId</i>	PSWA13 (description="PHOTFARRAY012", quantity="")
<i>IntId</i>	PSWB14 (description="PHOTFARRAY013", quantity="")
<i>IntId</i>	PSWC13 (description="PHOTFARRAY014", quantity="")
<i>IntId</i>	PSWB13 (description="PHOTFARRAY015", quantity="")
<i>IntId</i>	PSWD13 (description="PHOTFARRAY016", quantity="")
<i>IntId</i>	PSWA12 (description="PHOTFARRAY017", quantity="")
<i>IntId</i>	PSWC12 (description="PHOTFARRAY018", quantity="")
<i>IntId</i>	PSWD12 (description="PHOTFARRAY019", quantity="")
<i>IntId</i>	PSWB12 (description="PHOTFARRAY020", quantity="")
<i>IntId</i>	PSWE11 (description="PHOTFARRAY021", quantity="")
<i>IntId</i>	PSWA11 (description="PHOTFARRAY022", quantity="")
<i>IntId</i>	PSWC11 (description="PHOTFARRAY023", quantity="")
<i>IntId</i>	PSWB11 (description="PHOTFARRAY024", quantity="")
<i>IntId</i>	PSWE1 (description="PHOTFARRAY025", quantity="")
<i>IntId</i>	PSWF1 (description="PHOTFARRAY026", quantity="")
<i>IntId</i>	PSWT2 (description="PHOTFARRAY027", quantity="")

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

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

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

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

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

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

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

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<i>Double1d</i>	PLWA8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA6 (description="null", quantity="V")
<i>Double1d</i>	PLWA9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWB8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWB7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWB5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWB6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWT1 (description="null", quantity="V")
<i>Double1d</i>	PLWB4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWB3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWB2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWB1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWA1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWDP1 (description="null", quantity="V")
<i>Double1d</i>	PLWA2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWE1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWE2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWE3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWE4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWT2 (description="null", quantity="V")
<i>Double1d</i>	PLWE5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWC8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>Double1d</i>	PLWD8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")

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<i>DoubleId</i>	PLWE7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PLWE6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PLWE8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PLWDP2 (description="null", quantity="V")
<i>DoubleId</i>	PLWE9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWA13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWT1 (description="null", quantity="V")
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<i>DoubleId</i>	PMWC13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWA12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWD12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWC12 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWB11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWA11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWE13 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWD11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWC11 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWB10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWA10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWD10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWB9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWC10 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWC9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWA9 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWB8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWA8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWD8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWC8 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWB7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWR1 (description="null", quantity="V")
<i>DoubleId</i>	PMWG1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWT2 (description="null", quantity="V")
<i>DoubleId</i>	PMWE1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWD1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWF1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWE2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWG2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWF2 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWG3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWE3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWD3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWF3 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")

<i>DoubleId</i>	PMWDP1 (description="null", quantity="V")
<i>DoubleId</i>	PMWC1 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWA7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWA6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWB6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWC7 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWA5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWB5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWC6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWD6 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWB4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWC5 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWD4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PMWA4 (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	PTCP1 (description="null", quantity="V")
<i>DoubleId</i>	PTCP2 (description="null", quantity="V")
<i>DoubleId</i>	PTCP3 (description="null", quantity="V")
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<i>Metadata</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>DoubleId</i>	PSWF1 (description="Right Ascension", quantity="degree [0.01745329 rad]")
<i>DoubleId</i>	PMWC9 (description="Right Ascension", quantity="degree [0.01745329 rad]")
<i>DoubleId</i>	PMWC8 (description="Right Ascension", quantity="degree [0.01745329 rad]")
<i>DoubleId</i>	PSWE6 (description="Right Ascension", quantity="degree [0.01745329 rad]")
<i>DoubleId</i>	PLWE2 (description="Right Ascension", quantity="degree [0.01745329 rad]")
<i>DoubleId</i>	PMWC7 (description="Right Ascension", quantity="degree [0.01745329 rad]")
<i>DoubleId</i>	PSWE5 (description="Right Ascension", quantity="degree [0.01745329 rad]")
<i>DoubleId</i>	PLWE3 (description="Right Ascension", quantity="degree [0.01745329 rad]")
<i>DoubleId</i>	PMWC6 (description="Right Ascension", quantity="degree [0.01745329 rad]")
<i>DoubleId</i>	PSWE8 (description="Right Ascension", quantity="degree [0.01745329 rad]")
<i>DoubleId</i>	PLWE4 (description="Right Ascension", quantity="degree [0.01745329 rad]")
<i>DoubleId</i>	PMWC5 (description="Right Ascension", quantity="degree [0.01745329 rad]")

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<i>DoubleId</i>	PSWE7 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWE5 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWC4 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWE2 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWE6 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWC3 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWE1 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWE7 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWC2 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWE4 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWE8 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWC1 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWE3 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWE9 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWE9 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWE1 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWG1 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWG2 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWT1 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWT2 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWD7 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWF9 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWD3 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWD6 (description="Right Ascension", quantity="degree [0.01745329 rad])")

<i>DoubleId</i>	PSWF8 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWD4 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWD9 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWF7 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWD1 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWD8 (description="Right Ascension", quantity="degree [0.01745329 rad])")
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<i>DoubleId</i>	PLWD2 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWD3 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWF5 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWD7 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWD2 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWF4 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWD8 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWD5 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWF3 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWD5 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWD4 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWF2 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWD6 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWD1 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWA9 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWA7 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWA8 (description="Right Ascension", quantity="degree [0.01745329 rad])")

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<i>DoubleId</i>	PMWA1 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWC2 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWC1 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWA6 (description="Right Ascension", quantity="degree [0.01745329 rad])")
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<i>DoubleId</i>	PMWA5 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWB10 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWC3 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWA4 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWA12 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWC6 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWA3 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWC5 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWA13 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWA10 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWC8 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWA11 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWC7 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWB11 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWB12 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWC9 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWE13 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWDP2 (description="Right Ascension", quantity="degree [0.01745329 rad])")

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<i>DoubleId</i>	PMWE12 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PMWDP1 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PMWE11 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PMWE10 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PMWB8 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PMWB9 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PMWF10 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PMWF12 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PMWF11 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PMWB1 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWD3 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWD2 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PMWB3 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWD1 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PMWB2 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PMWB5 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWD7 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PMWB4 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWD6 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PMWB7 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWD5 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PMWB6 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWD4 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWD9 (description="Right Ascension", quantity="degree [0.01745329 rad])

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<i>DoubleId</i>	PSWD8 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWJ3 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWA6 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWJ2 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWA7 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWJ5 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWA8 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWJ4 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWA9 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWJ1 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWA1 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWA3 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWA2 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWA5 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWA4 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWT1 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWT2 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWJ8 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWJ9 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWJ6 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWR1 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWJ7 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWH16 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWD10 (description="Right Ascension", quantity="degree [0.01745329 rad])")

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<i>DoubleId</i>	PSWH15 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWH1 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWC8 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWC9 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWH3 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWH2 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWH10 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWH14 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWH13 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWH12 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWH11 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWD15 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWG3 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWC5 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWD16 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWG4 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWC4 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWG5 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWC7 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWG6 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWC6 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWD11 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWG7 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWC1 (description="Right Ascension", quantity="degree [0.01745329 rad])")

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<i>DoubleId</i>	PSWD12 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWG8 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWD13 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWG9 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PLWC3 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWD14 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PLWC2 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PLWR1 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PLWB7 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PLWB8 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PMWT1 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWH6 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PLWB6 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWH7 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PLWB5 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PMWT2 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWH4 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PLWB4 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWH5 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PLWB3 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PLWB2 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PLWB1 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWH8 (description="Right Ascension", quantity="degree [0.01745329 rad])
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<i>DoubleId</i>	PMWF8 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWF9 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWF6 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWF7 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWF4 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWF5 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWG13 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWF2 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWG12 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWF3 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWG11 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWG10 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWF1 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWC15 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWC14 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWC13 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWC12 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWA13 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWA12 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWA11 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWA10 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWE7 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWE8 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWE9 (description="Right Ascension", quantity="degree [0.01745329 rad])")

<i>DoubleId</i>	PMWE3 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWE4 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWE5 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWE6 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWE1 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWA14 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWE2 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWA15 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWC10 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWC11 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWDP1 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PLWDP2 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWD11 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWD12 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWD10 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWE15 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWE14 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWC12 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWE13 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWC13 (description="Right Ascension", quantity="degree [0.01745329 rad])")
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<i>DoubleId</i>	PSWE12 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWC10 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWDP1 (description="Right Ascension", quantity="degree [0.01745329 rad])")

<i>DoubleId</i>	PSWE11 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWC11 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWE10 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWG5 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWG14 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWG6 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWG15 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWG7 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWG12 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWG8 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWG13 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWG9 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWG10 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWG11 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWG1 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWG2 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWG3 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PMWG4 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWB6 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWB7 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWB8 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWB9 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWB1 (description="Right Ascension", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PTCP1 (description="Right Ascension", quantity="degree [0.01745329 rad])")

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<i>DoubleId</i>	PSWB2 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PTCP2 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWB3 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PTCP3 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWB4 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWB5 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWR1 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWA7 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWA8 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWA5 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWA6 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWB15 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWB16 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWB13 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWA9 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWB14 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWA3 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWA4 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWA1 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWA2 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWB12 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWB11 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWB10 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWJ10 (description="Right Ascension", quantity="degree [0.01745329 rad])

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<i>DoubleId</i>	PSWJ11 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWJ12 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWJ13 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWJ14 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWJ15 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWF12 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWF11 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWF10 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWF16 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWF15 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWF14 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWF13 (description="Right Ascension", quantity="degree [0.01745329 rad])
<i>table dataset</i>	(description="Dec timeline")
<i>Metadata</i>	
<i>DoubleId</i>	sampleTime (description="Sample time", quantity="TAI")
<i>DoubleId</i>	PSWF1 (description="Declination", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PMWC9 (description="Declination", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PMWC8 (description="Declination", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWE6 (description="Declination", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PLWE2 (description="Declination", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PMWC7 (description="Declination", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWE5 (description="Declination", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PLWE3 (description="Declination", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PMWC6 (description="Declination", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWE8 (description="Declination", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PLWE4 (description="Declination", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PMWC5 (description="Declination", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWE7 (description="Declination", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PLWE5 (description="Declination", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PMWC4 (description="Declination", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PSWE2 (description="Declination", quantity="degree [0.01745329 rad])
<i>DoubleId</i>	PLWE6 (description="Declination", quantity="degree [0.01745329 rad])

<i>DoubleId</i>	PSWA4 (description="Declination", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWA1 (description="Declination", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWA2 (description="Declination", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWB12 (description="Declination", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWB11 (description="Declination", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWB10 (description="Declination", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWJ10 (description="Declination", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWJ11 (description="Declination", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWJ12 (description="Declination", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWJ13 (description="Declination", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWJ14 (description="Declination", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWJ15 (description="Declination", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWF12 (description="Declination", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWF11 (description="Declination", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWF10 (description="Declination", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWF16 (description="Declination", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWF15 (description="Declination", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWF14 (description="Declination", quantity="degree [0.01745329 rad])")
<i>DoubleId</i>	PSWF13 (description="Declination", quantity="degree [0.01745329 rad])")

11.3.3. SDI: Spectrometer Detector Interferogram

	<i>product (type="SDI", description="Spectrometer Detector Interferogram")</i>
<i>Meta-data</i>	
<i>String-Parameter</i>	type (description="Product Type Identification")
<i>String-Parameter</i>	creator (description="Generator of this product")
<i>DateParameter</i>	creationDate (description="Creation date of this product")
<i>String-Parameter</i>	description (description="Name of this product")
<i>String-Parameter</i>	instrument (description="Instrument attached to this product")

e- ter	
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	endDate (description="End date of this product")
String- Pa- ram- e- ter	formatVersion (description="Version of product format")
String- Pa- ram- e- ter	aorLabel (description="AOR Label as entered in HSpot")
String- Pa- ram- e- ter	aot (description="AOT Identifier")
String- Pa- ram- e- ter	author (description="Author of the Data")
String- Pa- ram- e- ter	cusMode (description="CUS observation mode")
DoublePa- ram- e- ter	dec (description="Actual Declination of pointing")
DoublePa- ram- e- ter	decNominal (description="Requested Declination of pointing")
DoublePa- ram-	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")
StringParameter	commandedResolution (description="Commanded Spectral Resolution")

e- ter	
Long- Pa- ram- e- ter	QcPhaseWrap (description="Number of phase wraps")
Long- Pa- ram- e- ter	phaseWrapSSW (description="Number of times that in-band phase changes by +/-2pi in any of the SSW detectors")
Long- Pa- ram- e- ter	phaseWrapSLW (description="Number of times that in-band phase changes by +/-2pi in any of the SLW detectors")
String- Pa- ram- e- ter	apodType (description="Type of Apodization applied")
Boolean- Pa- ram- e- ter	phaseCorrApplied (description="Phase correction has been applied")
Long- Pa- ram- e- ter	missedFringes (description="Number of missed optical encoder fringes")
DoublePa- ram- e- ter	scanExtrema (description="Ratio of measured SMEC scan maximum to commanded scan maximum")
DoublePa- ram- e- ter	smecTemperature (description="Difference between maximum and minimum SMEC temperatures (in K)")
DoublePa- ram- e- ter	stageSpeedAverage (description="Ratio of the measured SMEC speed to the commanded SMEC speed")
DoublePa- ram- e- ter	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")

e- ter	
Long- Pa- ram- e- ter	maskNoisy (description="Mask value for noisy channel")
Long- Pa- ram- e- ter	maskSlow (description="Mask value for slow channel")
Boolean- Pa- ram- e- ter	adcErrFlag (description="Presence of ADC Latch errors")
DoublePa- ram- e- ter	ratioTruncated (description="Total fraction of out of range values")
Long- Pa- ram- e- ter	maskAdcLatch (description="Mask value for possible ADC latchup error")
Long- Pa- ram- e- ter	maskTruncated (description="Mask value for ADC conversion truncation")
Long- Pa- ram- e- ter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation")
DoublePa- ram- e- ter	ratioInvalidTimes (description="Fraction of invalid sample times")
Long- Pa- ram- e- ter	maskInvalidTime (description="Mask value for invalid sample time")
Boolean- Pa- ram- e- ter	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")

e-ter	
Boolean-Parameter	SpecNonLinearityCorrectionDone (description="null")
String-Parameter	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")
Boolean-Parameter	TemperatureDriftCorrectionDone (description="null")
Long-Parameter	numberClippedDetectorsSLW (description="Number of detectors in SLW where at least one sample was flagged as clipped and could not be corrected")
Long-Parameter	numberClippedDetectorsSSW (description="Number of detectors in SSW where at least one sample was flagged as clipped and could not be corrected")
String-Parameter	level (description="The level of the product")
com- pos- ite	(description="null")
Meta- da- ta	
Long- Pa- ram- e- ter	count (description="Interferogram Number")

Long-Parameter	scanNumber (description="Scan Number")
String-Parameter	scanDir (description="Scan Direction")
table dataset	(description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
String-Parameter	channelName (description="Channel name")
DoubleId	opd (description="Optical Path Difference", quantity="cm [0.01 m]")
DoubleId	errorOpd (description="Optical Path Difference Uncertainty", quantity="cm [0.01 m]")
DoubleId	signal (description="Signal", quantity="V")
DoubleId	errorSig (description="Signal Uncertainty", quantity="V")
IntId	mask (description="Mask", quantity="none")
table dataset	(description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
String-Parameter	channelName (description="Channel name")

<i>DoubleId</i>	opd (description="Optical Path Difference", quantity="cm [0.01 m]")
<i>DoubleId</i>	errorOpd (description="Optical Path Difference Uncertainty", quantity="cm [0.01 m]")
<i>DoubleId</i>	signal (description="Signal", quantity="V")
<i>DoubleId</i>	errorSig (description="Signal Uncertainty", quantity="V")
<i>IntId</i>	mask (description="Mask", quantity="none")

11.3.4. SDS: Spectrometer Detector Spectrum

<i>product</i> (type="SDS", description="Spectrometer Detector Spectrum")	
<i>Meta-data</i>	
<i>String-Parameter</i>	type (description="Product Type Identification")
<i>String-Parameter</i>	creator (description="Generator of this product")
<i>DateParameter</i>	creationDate (description="Creation date of this product")
<i>String-Parameter</i>	description (description="Name of this product")
<i>String-Parameter</i>	instrument (description="Instrument attached to this product")
<i>String-Parameter</i>	modelName (description="Model name attached to this product")
<i>DateParameter</i>	startDate (description="Start date of this product")
<i>DateParameter</i>	endDate (description="End date of this product")
<i>String-Parameter</i>	formatVersion (description="Version of product format")

e- ter	
String- Pa- ram- e- ter	aorLabel (description="AOR Label as entered in HSpot")
String- Pa- ram- e- ter	aot (description="AOT Identifier")
String- Pa- ram- e- ter	author (description="Author of the Data")
String- Pa- ram- e- ter	cusMode (description="CUS observation mode")
Dou- blePa- ram- e- ter	dec (description="Actual Declination of pointing")
Dou- blePa- ram- e- ter	decNominal (description="Requested Declination of pointing")
Dou- blePa- ram- e- ter	equinox (description="Equinox of celestial coordinate system")
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-Parameter	object (description="Target name")
String-Parameter	observer (description="Observer name")
Long-Parameter	obsid (description="Observation identifier")
String-Parameter	obsMode (description="Observation mode name")
Long-Parameter	odNumber (description="Operational day number")
String-Parameter	origin (description="Site that created the product")
String-Parameter	pointingMode (description="Pointing mode")
DoubleParameter	posAngle (description="Position Angle of pointing")
String-Parameter	proposal (description="Proposal name")
DoubleParameter	ra (description="Actual Right Ascension of pointing")
String-Parameter	raDeSys (description="Coordinate reference frame for the RA and DEC")

e- ter	
DoublePa- ram- e- ter	raNominal (description="Requested Right Ascension of pointing")
String- Pa- ram- e- ter	telescope (description="Name of telescope")
String- Pa- ram- e- ter	subsystem (description="Instrument subsystem")
Long- Pa- ram- e- ter	bbid (description="Building Block Identifier")
Long- Pa- ram- e- ter	numScans (description="Number of Scans")
DoublePa- ram- e- ter	resolution (description="Resolution element")
DoublePa- ram- e- ter	actualResolution (description="Actual Spectral Resolution")
String- Pa- ram- e- ter	commandedResolution (description="Commanded Spectral Resolution")
Long- Pa- ram- e- ter	QcPhaseWrap (description="Number of phase wraps")
String- Pa- ram- e- ter	apodType (description="Type of Apodization applied")

Boolean-Parameter	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")
String-Parameter	source (description="TM source packet name")
Long-Parameter	phaseWrapSSW (description="Number of times that in-band phase changes by +/-2pi in any of the SSW detectors")
Long-Parameter	phaseWrapSLW (description="Number of times that in-band phase changes by +/-2pi in any of the SLW detectors")
Long-Parameter	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)")

e- ter	
DoublePa- ram- e- ter	stageSpeedAverage (description="Ratio of the measured SMEC speed to the commanded SMEC speed")
DoublePa- ram- e- ter	stageSpeedDeviation (description="Standard deviation of the SMEC speed (in micron/s)")
DoublePa- ram- e- ter	ratioSpecSecondLevelGlitchesSLW (description="Ratio of number of flagged samples over number of data samples in the detectors of the SLW array")
DoublePa- ram- e- ter	ratioSpecSecondLevelGlitchesSSW (description="Ratio of number of flagged samples over number of data samples in the detectors of the SSW array")
DoublePa- ram- e- ter	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")
DoublePa- ram- e- ter	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")
Long- Pa- ram- e- ter	numberSecondLevelGlitchCorrectionProblemsSLW (description="Number of cases where a data sample from a SLW detector that was flagged as a glitch was not corrected")
Long- Pa- ram- e- ter	numberSecondLevelGlitchCorrectionProblemsSSW (description="Number of cases where a data sample from a SSW detector that was flagged as a glitch was not corrected")
DoublePa- ram- e- ter	biasFreq (description="Bias frequency")
String- Pa- ram- e- ter	elecSide (description="Electronic side")

String-Parameter	bbTypeName (description="Building block type name")
Long-Parameter	maskDead (description="Mask value for dead channel")
Long-Parameter	maskMaster (description="Mask value for master bit")
Long-Parameter	maskNoisy (description="Mask value for noisy channel")
Long-Parameter	maskSlow (description="Mask value for slow channel")
Boolean-Parameter	adcErrFlag (description="Presence of ADC Latch errors")
DoubleParameter	ratioTruncated (description="Total fraction of out of range values")
Long-Parameter	maskAdcLatch (description="Mask value for possible ADC latchup error")
Long-Parameter	maskTruncated (description="Mask value for ADC conversion truncation")
Long-Parameter	maskUncorrectedTruncation (description="Mask value for uncorrected ADC conversion truncation")
DoubleParameter	ratioInvalidTimes (description="Fraction of invalid sample times")

e-ter	
Long-Parameter	maskInvalidTime (description="Mask value for invalid sample time")
Boolean-Parameter	invalidOffsetFlag (description="If true, offsets are from a previous observation")
DoubleParameter	slwBiasAmpl (description="SLW bias amplitude")
DoubleParameter	sswBiasAmpl (description="SSW bias amplitude")
Boolean-Parameter	rcRollApp (description="RC roll correction applied")
Long-Parameter	jiggId (description="Jiggle ID")
Long-Parameter	pointNum (description="Pointing number")
String-Parameter	biasMode (description="Bias mode")
Boolean-Parameter	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")

Long-Parameter	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")
Long-Parameter	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")
Boolean-Parameter	SpecNonLinearityCorrectionDone (description="null")
String-Parameter	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")
Boolean-Parameter	TemperatureDriftCorrectionDone (description="null")
Long-Parameter	numberClippedDetectorsSLW (description="Number of detectors in SLW where at least one sample was flagged as clipped and could not be corrected")
Long-Parameter	numberClippedDetectorsSSW (description="Number of detectors in SSW where at least one sample was flagged as clipped and could not be corrected")
DoubleParameter	deltaSCalTemp (description="SCal maximum temperature variation (in K)")

e- ter	
DoublePa- ram- e- ter	deltaSCal2Temp (description="SCal2 maximum temperature variation (in K)")
DoublePa- ram- e- ter	deltaSCal4Temp (description="SCal4 maximum temperature variation (in K)")
Long- Pa- ram- e- ter	maskGlitchDetected (description="Mask value for glitch detected")
Long- Pa- ram- e- ter	maskGlitchNotRemoved (description="Mask value for glitch detected and not removed")
Long- Pa- ram- e- ter	maskNotChoppedToSky (description="Mask value for channel not chopped to sky")
Long- Pa- ram- e- ter	maskVoltageOol (description="Mask value for voltage out of fitted range")
Long- Pa- ram- e- ter	maskGlitchL1Detected (description="Mask value for first level glitch detected")
Long- Pa- ram- e- ter	maskGlitchL1NotRemoved (description="Mask value for first level glitch detected and not removed")
Long- Pa- ram- e- ter	maskGlitchL2Detected (description="Mask value for second level glitch detected")
Long- Pa- ram- e- ter	maskGlitchL2NotRemoved (description="Mask value for second level glitch detected and not removed")

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

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

<i>table dataset</i>	(description="null")
<i>Meta-data</i>	
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")
<i>DoubleId</i>	wave (description="Wavenumber", quantity="cm-1 [100.0 m-1]")
<i>DoubleId</i>	flux (description="flux", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>DoubleId</i>	error (description="null", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>IntId</i>	mask (description="Mask", quantity="none")

11.4. SPIRE Level-2 Products

11.4.1. JPP: Jiggled Photometer Product

<i>product (type="JPP", description="Jiggled Photometer Product")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start Date")
DateParameter	endDate (description="End Date")
StringParameter	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")
<i>table dataset</i>	(description="Contents")
<i>Metadata</i>	
<i>StringId</i>	arrayName (description="null", quantity="none")
<i>DoubleId</i>	ra (description="null", quantity="none")
<i>DoubleId</i>	errRa (description="null", quantity="none")
<i>DoubleId</i>	dec (description="null", quantity="none")
<i>DoubleId</i>	errDec (description="null", quantity="none")
<i>DoubleId</i>	signal (description="null", quantity="none")
<i>DoubleId</i>	error (description="null", quantity="none")
<i>compos-ite</i>	(description="History of product")
<i>Metadata</i>	

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

11.4.2. PMP: Photometer Map Product

<i>product (type="PMP", description="PLW map")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
DoubleParameter	wavelength (description="The reference wavelength at which the image is taken")

SPIRE Observational Products

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

<i>product</i> (type="SCalResetHist", description="DPU Counter Reset History Table")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	version (description="Version")
StringParameter	subsystem (description="Instrument subsystem")
LongParameter	odNumber (description="Operational day number")
<i>table dataset</i> (description="DPU reset times")	
<i>Metadata</i>	
LongId	resetTime (description="DPU counter reset time (in CUC format)", quantity="")

12.1.2. SCalPhotOffsetHist

<i>product</i> (type="SCalPhotOffsetHist", description="Photometer Channel Offset History")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	version (description="Version")
StringParameter	subsystem (description="Instrument subsystem")
LongParameter	odNumber (description="Operational day number")

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

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

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

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

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

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

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

12.2. SPIRE Photometer Calibration Products

12.2.1. SCalPhotChanNum

<i>product</i> (type="SCalPhotChanNum", description="Photometer Channel Number Mapping Table")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="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")
<i>table</i> <i>dataset</i>	(description="Table for PSW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>IntId</i>	fullChannel (description="Full Channel Number", quantity="")
<i>IntId</i>	indivChannel (description="Individual Channel Number", quantity="")
<i>BoolId</i>	isAligned (description="Aligned Channels", quantity="")
<i>IntId</i>	jfetGroup (description="JFET group", quantity="")
<i>StringId</i>	jfetMembrane (description="JFET membrane", quantity="")
<i>IntId</i>	liaBoard (description="LIA board", quantity="")
<i>IntId</i>	adcChannel (description="ADC channel", quantity="")
<i>BoolId</i>	isConnected (description="Connected Channels", quantity="")
<i>BoolId</i>	isBolometer (description="Bolometer Channels", quantity="")
<i>BoolId</i>	isThermistor (description="Thermistor Channels", quantity="")
<i>BoolId</i>	isResistor (description="Resistor Channels", quantity="")
<i>BoolId</i>	isDark (description="Dark Channels", quantity="")
<i>BoolId</i>	isPtc (description="PTC Channels", quantity="")
<i>table</i> <i>dataset</i>	(description="Table for PMW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>IntId</i>	fullChannel (description="Full Channel Number", quantity="")
<i>IntId</i>	indivChannel (description="Individual Channel Number", quantity="")
<i>BoolId</i>	isAligned (description="Aligned Channels", quantity="")
<i>IntId</i>	jfetGroup (description="JFET group", quantity="")
<i>StringId</i>	jfetMembrane (description="JFET membrane", quantity="")

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

12.2.2. SCalPhotChanMask

<i>product</i> (type="SCalPhotChanMask", description="Photometer Channel Mask Table")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="Table for PSW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>BoolId</i>	isDead (description="Dead Channels", quantity="")
<i>BoolId</i>	isNoisy (description="Noisy Channels", quantity="")
<i>BoolId</i>	isSlow (description="Slow Channels", quantity="")
<i>table dataset</i>	(description="Table for PMW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>BoolId</i>	isDead (description="Dead Channels", quantity="")
<i>BoolId</i>	isNoisy (description="Noisy Channels", quantity="")
<i>BoolId</i>	isSlow (description="Slow Channels", quantity="")
<i>table dataset</i>	(description="Table for PLW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>BoolId</i>	isDead (description="Dead Channels", quantity="")
<i>BoolId</i>	isNoisy (description="Noisy Channels", quantity="")
<i>BoolId</i>	isSlow (description="Slow Channels", quantity="")
<i>table dataset</i>	(description="Table for PTC array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>BoolId</i>	isDead (description="Dead Channels", quantity="")
<i>BoolId</i>	isNoisy (description="Noisy Channels", quantity="")

<i>BoolId</i>	isSlow (description="Slow Channels", quantity="")
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12.2.3. SCalPhotInstModeMask

<i>product</i> (type="SCalPhotInstModeMask", description="Photometer Instrument Mode Mask Table")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="Table for PSW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>BoolId</i>	POF2 (description="Detectors chopped out of FOV", quantity="")
<i>BoolId</i>	POF3 (description="Detectors chopped out of FOV", quantity="")
<i>table dataset</i>	(description="Table for PMW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>BoolId</i>	POF2 (description="Detectors chopped out of FOV", quantity="")
<i>BoolId</i>	POF3 (description="Detectors chopped out of FOV", quantity="")
<i>table dataset</i>	(description="Table for PLW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>BoolId</i>	POF2 (description="Detectors chopped out of FOV", quantity="")
<i>BoolId</i>	POF3 (description="Detectors chopped out of FOV", quantity="")

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

12.2.4. SCalTelemMask

<i>product (type="SCalTelemMask", description="Telemetry Mask Table")</i>	
<i>Meta-data</i>	
<i>StringParameter</i>	type (description="Product Type Identification")

StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="null")
<i>Metadata</i>	
<i>StringId</i>	tmParam (description="Telemetry Parameter Name", quantity="")
<i>BoolId</i>	isUnreliable (description="Unreliable parameter", quantity="")
<i>table dataset</i>	(description="null")
<i>Metadata</i>	
<i>StringId</i>	tmParam (description="Telemetry Parameter Name", quantity="")
<i>BoolId</i>	isUnreliable (description="Unreliable parameter", quantity="")
<i>table dataset</i>	(description="null")
<i>Metadata</i>	
<i>StringId</i>	tmParam (description="Telemetry Parameter Name", quantity="")
<i>BoolId</i>	isUnreliable (description="Unreliable parameter", quantity="")
<i>table dataset</i>	(description="null")
<i>Metadata</i>	
<i>StringId</i>	tmParam (description="Telemetry Parameter Name", quantity="")
<i>BoolId</i>	isUnreliable (description="Unreliable parameter", quantity="")
<i>table dataset</i>	(description="null")
<i>Metadata</i>	
<i>StringId</i>	tmParam (description="Telemetry Parameter Name", quantity="")

	<i>BoolId</i>	isUnreliable (description="Unreliable parameter", quantity="")
<i>table dataset</i>		(description="null")
	<i>Metadata</i>	
	<i>StringId</i>	tmParam (description="Telemetry Parameter Name", quantity="")
	<i>BoolId</i>	isUnreliable (description="Unreliable parameter", quantity="")
<i>table dataset</i>		(description="null")
	<i>Metadata</i>	
	<i>StringId</i>	tmParam (description="Telemetry Parameter Name", quantity="")
	<i>BoolId</i>	isUnreliable (description="Unreliable parameter", quantity="")
<i>table dataset</i>		(description="null")
	<i>Metadata</i>	
	<i>StringId</i>	tmParam (description="Telemetry Parameter Name", quantity="")
	<i>BoolId</i>	isUnreliable (description="Unreliable parameter", quantity="")
<i>table dataset</i>		(description="null")
	<i>Metadata</i>	
	<i>StringId</i>	tmParam (description="Telemetry Parameter Name", quantity="")
	<i>BoolId</i>	isUnreliable (description="Unreliable parameter", quantity="")
<i>table dataset</i>		(description="null")
	<i>Metadata</i>	
	<i>StringId</i>	tmParam (description="Telemetry Parameter Name", quantity="")
	<i>BoolId</i>	isUnreliable (description="Unreliable parameter", quantity="")

12.2.5. SCalPhotChanTimeOff

<i>product</i> (type="SCalPhotChanTimeOff", description="Photometer Channel Time Offset Table")		
	<i>Metadata</i>	
StringParameter		type (description="Product Type Identification")
StringParameter		creator (description="Generator of this product")
DateParameter		creationDate (description="Creation date of this product")
StringParameter		description (description="Name of this product")
StringParameter		instrument (description="Instrument attached to this product")
StringParameter		modelName (description="Model name attached to this product")
DateParameter		startDate (description="Start date of this product")
DateParameter		endDate (description="End date of this product")
StringParameter		formatVersion (description="Version of product format")
StringParameter		version (description="null")
StringParameter		fileName (description="null")
<i>table dataset</i>		(description="Table for PSW array")

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

12.2.6. SCalPhotChanGain

<i>product (type="SCalPhotChanGain", description="Photometer Channel Gain Table")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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	
StringId	names (description="Channel names", quantity="")
DoubleId	totGain (description="LIA plus amplifier gain", quantity="")
DoubleId	jfetGain (description="JFET Gain", quantity="")
table dataset	(description="Table for PMW array")
Metadata	
StringId	names (description="Channel names", quantity="")
DoubleId	totGain (description="LIA plus amplifier gain", quantity="")
DoubleId	jfetGain (description="JFET Gain", quantity="")
table dataset	(description="Table for PLW array")
Metadata	
StringId	names (description="Channel names", quantity="")
DoubleId	totGain (description="LIA plus amplifier gain", quantity="")
DoubleId	jfetGain (description="JFET Gain", quantity="")
table dataset	(description="Table for PTC array")
Metadata	
StringId	names (description="Channel names", quantity="")
DoubleId	totGain (description="LIA plus amplifier gain", quantity="")
DoubleId	jfetGain (description="JFET Gain", quantity="")

12.2.7. SCalPhotBolPar

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

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

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

12.2.8. SCalPhotBsmOps

<i>product (type="SCalPhotBsmOps", description="Photometer BSM Operations Table")</i>	
<i>Metadata</i>	
<i>StringParameter</i>	type (description="Product Type Identification")
<i>StringParameter</i>	creator (description="Generator of this product")
<i>DateParameter</i>	creationDate (description="Creation date of this product")
<i>StringParameter</i>	description (description="Name of this product")
<i>StringParameter</i>	instrument (description="Instrument attached to this product")
<i>StringParameter</i>	modelName (description="Model name attached to this product")
<i>DateParameter</i>	startDate (description="Start date of this product")
<i>DateParameter</i>	endDate (description="End date of this product")
<i>StringParameter</i>	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")
<i>table dataset</i>	(description="Simple Chopping")
<i>Metadata</i>	
StringParameter	instMode (description="null")
<i>StringId</i>	chopBeamId (description="Chopper Beam Identifier", quantity="")
<i>IntId</i>	chopSens (description="Target sensor signal in chop direction", quantity="")
<i>IntId</i>	chopHiTol (description="Positive tolerance in chop sensor signal", quantity="")
<i>IntId</i>	chopLoTol (description="Negative tolerance in chop sensor signa", quantity="")
<i>IntId</i>	jiggId (description="Jiggle Position Identifier", quantity="")
<i>IntId</i>	jiggSens (description="Target sensor signal in jiggle direction", quantity="")
<i>IntId</i>	jiggHiTol (description="Positive tolerance in jiggle sensor signal", quantity="")
<i>IntId</i>	jiggLoTol (description="Negative tolerance in jiggle sensor signal", quantity="")
<i>table dataset</i>	(description="7 Point Jiggle Map")
<i>Metadata</i>	
StringParameter	instMode (description="null")
<i>StringId</i>	chopBeamId (description="Chopper Beam Identifier", quantity="")
<i>IntId</i>	chopSens (description="Target sensor signal in chop direction", quantity="")
<i>IntId</i>	chopHiTol (description="Positive tolerance in chop sensor signal", quantity="")
<i>IntId</i>	chopLoTol (description="Negative tolerance in chop sensor signa", quantity="")
<i>IntId</i>	jiggId (description="Jiggle Position Identifier", quantity="")
<i>IntId</i>	jiggSens (description="Target sensor signal in jiggle direction", quantity="")
<i>IntId</i>	jiggHiTol (description="Positive tolerance in jiggle sensor signal", quantity="")
<i>IntId</i>	jiggLoTol (description="Negative tolerance in jiggle sensor signal", quantity="")
<i>table dataset</i>	(description="N Point Jiggle Map")
<i>Metadata</i>	
StringParameter	instMode (description="null")
<i>StringId</i>	chopBeamId (description="Chopper Beam Identifier", quantity="")

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

12.2.9. SCalPhotBsmPos

<i>product (type="SCalPhotBsmPos", description="Photometer BSM Position Table")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>table dataset</i>	<i>(description="BSM angle versus chop and jiggle sensor value")</i>
<i>Metadata</i>	
<i>Double1d</i>	yangle (description="Angle in spacecraft Y-direction", quantity="" [4.848137E-6 rad])
<i>Double1d</i>	yangleError (description="Error in Y-angl", quantity="" [4.848137E-6 rad])

<i>DoubleId</i>	zangle (description="Angle in spacecraft Z-direction", quantity="" [4.848137E-6 rad])
<i>DoubleId</i>	zangleError (description="Error in Z-angle", quantity="" [4.848137E-6 rad])
<i>IntId</i>	chopSensor (description="Sensor signal in chop direction (Y-axis)", quantity="")
<i>IntId</i>	jiggSensor (description="Sensor signal in jiggle direction (Z-axis)", quantity="")

12.2.10. SCalPhotDetAngOff

<i>product</i> (type="SCalPhotDetAngOff", description="Photometer Detector Angular Offset Table")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>table dataset</i>	(description="Table for PSW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	yangle (description="Angular offset in Y-direction", quantity="" [4.848137E-6 rad])
<i>DoubleId</i>	yangleError (description="Error on angular offset in Y-direction", quantity="" [4.848137E-6 rad])
<i>DoubleId</i>	zangle (description="Angular offset in Z-direction", quantity="" [4.848137E-6 rad])
<i>DoubleId</i>	zangleError (description="Error on angular offset in Z-direction", quantity="" [4.848137E-6 rad])
<i>table dataset</i>	(description="Table for PMW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	yangle (description="Angular offset in Y-direction", quantity="" [4.848137E-6 rad])
<i>DoubleId</i>	yangleError (description="Error on angular offset in Y-direction", quantity="" [4.848137E-6 rad])

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

12.2.11. SCalPhotElecCross

<i>product</i> (type="SCalPhotElecCross", description="Photometer Electrical Crosstalk Table")	
<i>Metadata</i>	
<i>StringParameter</i>	type (description="Product Type Identification")
<i>StringParameter</i>	creator (description="Generator of this product")
<i>DateParameter</i>	creationDate (description="Creation date of this product")
<i>StringParameter</i>	description (description="Name of this product")
<i>StringParameter</i>	instrument (description="Instrument attached to this product")
<i>StringParameter</i>	modelName (description="Model name attached to this product")
<i>DateParameter</i>	startDate (description="Start date of this product")
<i>DateParameter</i>	endDate (description="End date of this product")
<i>StringParameter</i>	formatVersion (description="Version of product format")
<i>StringParameter</i>	version (description="null")
<i>StringParameter</i>	fileName (description="null")
<i>table dataset</i>	(description="Table for PSW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	PSWA1 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PSWA2 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PSWA3 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PSWA4 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PSWA5 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PSWA6 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PSWA7 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PSWA8 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PSWA9 (description="Crosstalk values", quantity="")

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

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

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

12.2.12. SCalPhotLpfPar

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

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

12.2.13. SCalPhotFluxConv

<i>product (type="SCalPhotFluxConv", description="Photometer Flux Conversion Calibration Table")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>table dataset</i>	(description="Table for PSW array")
<i>Metadata</i>	
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")
<i>StringId</i>	names (description="Channel names", quantity="")
<i>FloatId</i>	v0 (description="Zero point voltage", quantity="V")
<i>FloatId</i>	v0Error (description="Zero point voltage error", quantity="V")

<i>BoolId</i>	v0Flag (description="Flag for zero point voltage", quantity="")
<i>FloatId</i>	k1 (description="First calibration term", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
<i>FloatId</i>	k1Error (description="Error in first calibration term", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
<i>FloatId</i>	k2 (description="Second calibration term", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>FloatId</i>	k2Error (description="Error in second calibration term", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>FloatId</i>	k3 (description="Third calibration term", quantity="V")
<i>FloatId</i>	k3Error (description="Error in third calibration term", quantity="V")
<i>BoolId</i>	kFlag (description="Flag for astronomy calibration terms", quantity="")
<i>FloatId</i>	vMin (description="Minimum voltage limit", quantity="V")
<i>FloatId</i>	vMax (description="Maximum voltage limit", quantity="V")
<i>table dataset</i>	(description="Table for PMW array")
<i>Metadata</i>	
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")
<i>StringId</i>	names (description="Channel names", quantity="")
<i>FloatId</i>	v0 (description="Zero point voltage", quantity="V")
<i>FloatId</i>	v0Error (description="Zero point voltage error", quantity="V")
<i>BoolId</i>	v0Flag (description="Flag for zero point voltage", quantity="")
<i>FloatId</i>	k1 (description="First calibration term", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
<i>FloatId</i>	k1Error (description="Error in first calibration term", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)]")
<i>FloatId</i>	k2 (description="Second calibration term", quantity="Jy [1.0E-26 W/m2/Hz]")
<i>FloatId</i>	k2Error (description="Error in second calibration term", quantity="Jy [1.0E-26 W/m2/Hz]")

<i>FloatId</i>	k3 (description="Third calibration term", quantity="V")
<i>FloatId</i>	k3Error (description="Error in third calibration term", quantity="V")
<i>BoolId</i>	kFlag (description="Flag for astronomy calibration terms", quantity="")
<i>FloatId</i>	vMin (description="Minimum voltage limit", quantity="V")
<i>FloatId</i>	vMax (description="Maximum voltage limit", quantity="V")
<i>table dataset</i>	(description="Table for PLW array")
<i>Metadata</i>	
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")
<i>StringId</i>	names (description="Channel names", quantity="")
<i>FloatId</i>	v0 (description="Zero point voltage", quantity="V")
<i>FloatId</i>	v0Error (description="Zero point voltage error", quantity="V")
<i>BoolId</i>	v0Flag (description="Flag for zero point voltage", quantity="")
<i>FloatId</i>	k1 (description="First calibration term", quantity="Jy/V [1.0E-26 W/(m ² .Hz.V)]")
<i>FloatId</i>	k1Error (description="Error in first calibration term", quantity="Jy/V [1.0E-26 W/(m ² .Hz.V)]")
<i>FloatId</i>	k2 (description="Second calibration term", quantity="Jy [1.0E-26 W/m ² /Hz]")
<i>FloatId</i>	k2Error (description="Error in second calibration term", quantity="Jy [1.0E-26 W/m ² /Hz]")
<i>FloatId</i>	k3 (description="Third calibration term", quantity="V")
<i>FloatId</i>	k3Error (description="Error in third calibration term", quantity="V")
<i>BoolId</i>	kFlag (description="Flag for astronomy calibration terms", quantity="")
<i>FloatId</i>	vMin (description="Minimum voltage limit", quantity="V")
<i>FloatId</i>	vMax (description="Maximum voltage limit", quantity="V")
<i>compos-ite</i>	(description="History of product")
<i>Metadata</i>	
<i>table dataset</i>	(description="History as Jython script")

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

12.2.14. SCalPhotTempDriftCorr

<i>product (type="SCalPhotTempDriftCorr", description="Photometer Temperature Drift Correction Calibration Table")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>table dataset</i>	(description="Table for PSW array")
<i>Metadata</i>	
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")
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	aT1 (description="null", quantity="none")
<i>DoubleId</i>	aT1Error (description="null", quantity="none")
<i>DoubleId</i>	bT1 (description="null", quantity="none")
<i>DoubleId</i>	bT1Error (description="null", quantity="none")
<i>BoolId</i>	abT1Flag (description="null", quantity="none")
<i>DoubleId</i>	aT2 (description="null", quantity="none")
<i>DoubleId</i>	aT2Error (description="null", quantity="none")
<i>DoubleId</i>	bT2 (description="null", quantity="none")
<i>DoubleId</i>	bT2Error (description="null", quantity="none")
<i>BoolId</i>	abT2Flag (description="null", quantity="none")

<i>table dataset</i>	(description="Table for PMW array")	
<i>Metadata</i>		
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")	
<i>StringId</i>	names (description="Channel names", quantity="")	
<i>DoubleId</i>	aT1 (description="null", quantity="none")	
<i>DoubleId</i>	aT1Error (description="null", quantity="none")	
<i>DoubleId</i>	bT1 (description="null", quantity="none")	
<i>DoubleId</i>	bT1Error (description="null", quantity="none")	
<i>BoolId</i>	abT1Flag (description="null", quantity="none")	
<i>DoubleId</i>	aT2 (description="null", quantity="none")	
<i>DoubleId</i>	aT2Error (description="null", quantity="none")	
<i>DoubleId</i>	bT2 (description="null", quantity="none")	
<i>DoubleId</i>	bT2Error (description="null", quantity="none")	
<i>BoolId</i>	abT2Flag (description="null", quantity="none")	
<i>table dataset</i>	(description="Table for PLW array")	
<i>Metadata</i>		
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")
StringId	names (description="Channel names", quantity="")
DoubleId	aT1 (description="null", quantity="none")
DoubleId	aT1Error (description="null", quantity="none")
DoubleId	bT1 (description="null", quantity="none")
DoubleId	bT1Error (description="null", quantity="none")
BoolId	abT1Flag (description="null", quantity="none")
DoubleId	aT2 (description="null", quantity="none")
DoubleId	aT2Error (description="null", quantity="none")
DoubleId	bT2 (description="null", quantity="none")
DoubleId	bT2Error (description="null", quantity="none")
BoolId	abT2Flag (description="null", quantity="none")

12.2.15. SCalPhotChanTimeConst

<i>product</i> (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	
StringId	names (description="Channel names", quantity="")
DoubleId	timeConst (description="Detector time constant", quantity="s")
DoubleId	error (description="Error on time constant", quantity="s")
DoubleId	slowTimeConst (description="the slow detector time constant", quantity="s")

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

12.2.16. SCalPhotOptCross

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

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

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

SPIRE Calibration Products

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

<i>DoubleId</i>	PLWE7 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PLWE8 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	PLWE9 (description="Crosstalk values", quantity="")

12.2.17. SCalPhotChanNoise

<i>product</i> (type="SCalPhotChanNoise", description="Photometer Channel Noise Table")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>table dataset</i>	(description="Channel table for PSW array")
<i>Metadata</i>	
<i>DoubleId</i>	frequency (description="Label for column 1", quantity="Hz")
<i>DoubleId</i>	PSWA1 (description="Label for column 69", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PSWA2 (description="Label for column 64", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PSWA3 (description="Label for column 63", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PSWA4 (description="Label for column 58", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PSWA5 (description="Label for column 53", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PSWA6 (description="Label for column 121", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PSWA7 (description="Label for column 116", quantity="V/sqrt(Hz)")
<i>DoubleId</i>	PSWA8 (description="Label for column 109", quantity="V/sqrt(Hz)")

SPIRE Calibration Products

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

SPIRE Calibration Products

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

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

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

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

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

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

12.2.18. SCalPhotBeamProf

<i>product</i> (type="SCalPhotBeamProf", description="Photometer Beam Profile")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>array</i> <i>dataset</i>	(description="Image")
<i>Metadata</i>	
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	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")
<i>Double2d</i>	(description="Image", quantity="")

12.3. SPIRE Spectrometer Calibration Products

12.3.1. SCalSpecChanNum

<i>product</i> (<i>type="SCalPhotChanNum", description="Photometer Channel Number Mapping Table"</i>)	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
<i>table dataset</i>	<i>(description="Table for SSW array")</i>
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>IntId</i>	fullChannel (description="Full Channel Number", quantity="")
<i>IntId</i>	indivChannel (description="Individual Channel Number", quantity="")
<i>BoolId</i>	isAligned (description="Aligned Channels", quantity="")
<i>IntId</i>	jfetGroup (description="JFET group", quantity="")
<i>StringId</i>	jfetMembrane (description="JFET membrane", quantity="")
<i>IntId</i>	liaBoard (description="LIA board", quantity="")
<i>IntId</i>	adcChannel (description="ADC channel", quantity="")
<i>BoolId</i>	isConnected (description="Connected Channels", quantity="")
<i>BoolId</i>	isBolometer (description="Bolometer Channels", quantity="")
<i>BoolId</i>	isThermistor (description="Thermistor Channels", quantity="")
<i>BoolId</i>	isResistor (description="Resistor Channels", quantity="")
<i>BoolId</i>	isDark (description="Dark Channels", quantity="")
<i>BoolId</i>	isPtc (description="PTC Channels", quantity="")
	<i>(description="Table for SLW array")</i>

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

<i>StringId</i>	Class (description="Class of the parameter", quantity="none")
<i>StringId</i>	ProductType (description="Product Type for History", quantity="none")
<i>StringId</i>	ProductId (description="Human Readable Product Identifier for History", quantity="none")

12.3.2. SCalSpecChanMask

<i>product</i> (type="SCalSpecChanMask", description="Spectrometer Channel Mask Table")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="Table for SSW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>BoolId</i>	isDead (description="Dead Channels", quantity="")
<i>BoolId</i>	isNoisy (description="Noisy Channels", quantity="")
<i>BoolId</i>	isSlow (description="Slow Channels", quantity="")
<i>table dataset</i>	(description="Table for SLW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>BoolId</i>	isDead (description="Dead Channels", quantity="")
<i>BoolId</i>	isNoisy (description="Noisy Channels", quantity="")
<i>BoolId</i>	isSlow (description="Slow Channels", quantity="")

12.3.3. SCalTelemMask

<i>product</i> (type="SCalTelemMask", description="Telemetry Mask Table")	
<i>Meta-data</i>	
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")
<i>table dataset</i>	(description="null")
<i>Metadata</i>	
<i>StringId</i>	tmParam (description="Telemetry Parameter Name", quantity="")
<i>BoolId</i>	isUnreliable (description="Unreliable parameter", quantity="")
<i>table dataset</i>	(description="null")
<i>Metadata</i>	
<i>StringId</i>	tmParam (description="Telemetry Parameter Name", quantity="")
<i>BoolId</i>	isUnreliable (description="Unreliable parameter", quantity="")
<i>table dataset</i>	(description="null")
<i>Metadata</i>	
<i>StringId</i>	tmParam (description="Telemetry Parameter Name", quantity="")
<i>BoolId</i>	isUnreliable (description="Unreliable parameter", quantity="")
<i>table dataset</i>	(description="null")
<i>Metadata</i>	
<i>StringId</i>	tmParam (description="Telemetry Parameter Name", quantity="")
<i>BoolId</i>	isUnreliable (description="Unreliable parameter", quantity="")
<i>table dataset</i>	(description="null")
<i>Metadata</i>	
<i>StringId</i>	tmParam (description="Telemetry Parameter Name", quantity="")

	<i>BoolId</i>	isUnreliable (description="Unreliable parameter", quantity="")
<i>table dataset</i>		(description="null")
<i>Metadata</i>		
	<i>StringId</i>	tmParam (description="Telemetry Parameter Name", quantity="")
	<i>BoolId</i>	isUnreliable (description="Unreliable parameter", quantity="")
<i>table dataset</i>		(description="null")
<i>Metadata</i>		
	<i>StringId</i>	tmParam (description="Telemetry Parameter Name", quantity="")
	<i>BoolId</i>	isUnreliable (description="Unreliable parameter", quantity="")
<i>table dataset</i>		(description="null")
<i>Metadata</i>		
	<i>StringId</i>	tmParam (description="Telemetry Parameter Name", quantity="")
	<i>BoolId</i>	isUnreliable (description="Unreliable parameter", quantity="")
<i>table dataset</i>		(description="null")
<i>Metadata</i>		
	<i>StringId</i>	tmParam (description="Telemetry Parameter Name", quantity="")
	<i>BoolId</i>	isUnreliable (description="Unreliable parameter", quantity="")
<i>table dataset</i>		(description="null")
<i>Metadata</i>		
	<i>StringId</i>	tmParam (description="Telemetry Parameter Name", quantity="")
	<i>BoolId</i>	isUnreliable (description="Unreliable parameter", quantity="")

12.3.4. SCalSpecChanTimeOff

<i>product</i> (type="SCalSpecChanTimeOff", description="Spectrometer Channel Time Offset Table")		
<i>Metadata</i>		
StringParameter	type	(description="Product Type Identification")
StringParameter	creator	(description="Generator of this product")
DateParameter	creationDate	(description="Creation date of this product")
StringParameter	description	(description="Name of this product")
StringParameter	instrument	(description="Instrument attached to this product")
StringParameter	modelName	(description="Model name attached to this product")
DateParameter	startDate	(description="Start date of this product")
DateParameter	endDate	(description="End date of this product")
StringParameter	formatVersion	(description="Version of product format")
StringParameter	version	(description="null")
StringParameter	fileName	(description="null")
<i>table dataset</i>		(description="Table for SSW array")

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

12.3.5. SCalSpecChanGain

<i>product (type="SCalSpecChanGain", description="Spectrometer Channel Gain Table")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>table dataset</i>	(description="Table for SSW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	totGain (description="LIA plus amplifier gain", quantity="")
<i>DoubleId</i>	jfetGain (description="JFET Gain", quantity="")
<i>table dataset</i>	(description="Table for SLW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	totGain (description="LIA plus amplifier gain", quantity="")
<i>DoubleId</i>	jfetGain (description="JFET Gain", quantity="")

12.3.6. SCalSpecBolPar

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

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

12.3.7. SCalSpecBsmOps

<i>product</i> (type="SCalSpecBsmOps", description="Spectrometer BSM Operations Table")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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 jiggle")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="4 Point Jiggle Map")
<i>Metadata</i>	
StringParameter	instMode (description="null")
<i>StringId</i>	chopBeamId (description="Chopper Beam Identifier", quantity="")
<i>IntId</i>	chopSens (description="Target sensor signal in chop direction", quantity="")
<i>IntId</i>	chopHiTol (description="Positive tolerance in chop sensor signal", quantity="")
<i>IntId</i>	chopLoTol (description="Negative tolerance in chop sensor signal", quantity="")
<i>IntId</i>	jiggId (description="Jiggle Position Identifier", quantity="")
<i>IntId</i>	jiggSens (description="Target sensor signal in jiggle direction", quantity="")
<i>IntId</i>	jiggHiTol (description="Positive tolerance in jiggle sensor signal", quantity="")
<i>IntId</i>	jiggLoTol (description="Negative tolerance in jiggle sensor signal", quantity="")
<i>table dataset</i>	(description="16 Point Jiggle Map")

<i>Metadata</i>	
StringParameter	instMode (description="null")
StringId	chopBeamId (description="Chopper Beam Identifier", quantity="")
IntId	chopSens (description="Target sensor signal in chop direction", quantity="")
IntId	chopHiTol (description="Positive tolerance in chop sensor signal", quantity="")
IntId	chopLoTol (description="Negative tolerance in chop sensor signal", quantity="")
IntId	jiggId (description="Jiggle Position Identifier", quantity="")
IntId	jiggSens (description="Target sensor signal in jiggle direction", quantity="")
IntId	jiggHiTol (description="Positive tolerance in jiggle sensor signal", quantity="")
IntId	jiggLoTol (description="Negative tolerance in jiggle sensor signal", quantity="")

12.3.8. SCalSpecBsmPos

<i>product (type="SCalSpecBsmPos", description="Spectrometer BSM Position Table")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>table dataset</i>	<i>(description="BSM angle versus chop and jiggle sensor value")</i>
<i>Metadata</i>	

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

12.3.9. SCalSpecDetAngOff

<i>product</i> (type="SCalSpecDetAngOff", description="Spectrometer Detector Angular Offset Table")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>table dataset</i>	(description="Table for SSW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	yangle (description="Angular offset in Y-direction", quantity="" [4.848137E-6 rad])
<i>DoubleId</i>	yangleError (description="Error on angular offset in Y-direction", quantity="" [4.848137E-6 rad])
<i>DoubleId</i>	zangle (description="Angular offset in Z-direction", quantity="" [4.848137E-6 rad])
<i>DoubleId</i>	zangleError (description="Error on angular offset in Z-direction", quantity="" [4.848137E-6 rad])
<i>table dataset</i>	(description="Table for SLW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")

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

12.3.10. SCalSpecElecCross

<i>product</i> (type="SCalSpecElecCross", description="Spectrometer Electrical Crosstalk Table")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="Table for SSW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	SSWA1 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SSWA2 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SSWA3 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SSWA4 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SSWB1 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SSWB2 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SSWB3 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SSWB4 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SSWB5 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SSWC1 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SSWC2 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SSWC3 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SSWC4 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SSWC5 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SSWC6 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SSWD1 (description="Crosstalk values", quantity="")

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

<i>DoubleId</i>	SLWD1 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SLWD2 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SLWD3 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SLWD4 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SLWE1 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SLWE2 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SLWE3 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SLWDP1 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SLWDP2 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SLWR1 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SLWT1 (description="Crosstalk values", quantity="")
<i>DoubleId</i>	SLWT2 (description="Crosstalk values", quantity="")

12.3.11. SCalSpecFluxConv

<i>product</i> (type="SCalSpecFluxConv", description="Spectrometer FluxConversion Table")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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")
<i>table dataset</i>	(description="table for SSW array")
<i>Metadata</i>	
<i>DoubleId</i>	wavenumber (description="Wavenumber", quantity="cm-1 [100.0 m-1]")
<i>DoubleId</i>	SSWA1 (description="Flux conversion factor for SSWA1", quantity="Jy/V [1.0E-26 W/(m2.Hz.V)])

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

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

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

<i>StringId</i>	ProductType (description="Product Type for History", quantity="none")
<i>StringId</i>	ProductId (description="Human Readable Product Identifier for History", quantity="none")

12.3.12. SCalSpecLpfPar

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

12.3.13. SCalSpecOptCross

<i>product</i> (type="SCalSpecOptCross", description="Spectrometer Optical Crosstalk Table")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	version (description="null")

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

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

12.3.14. SCalSpecChanTimeConst

<i>product (type="SCalSpecChanTimeConst", description="Spectrometer Channel Time Constant Table")</i>		
<i>Metadata</i>		
StringParameter	type (description="Product Type Identification")	
StringParameter	creator (description="Generator of this product")	
DateParameter	creationDate (description="Creation date of this product")	
StringParameter	description (description="Name of this product")	
StringParameter	instrument (description="Instrument attached to this product")	
StringParameter	modelName (description="Model name attached to this product")	
DateParameter	startDate (description="Start date of this product")	
DateParameter	endDate (description="End date of this product")	
StringParameter	formatVersion (description="Version of product format")	
StringParameter	version (description="null")	
StringParameter	fileName (description="null")	
<i>table dataset</i>	<i>(description="Table for SSW array")</i>	
<i>Metadata</i>		

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

12.3.15. SCalSpecNonLinCorr

<i>product (type="SCalSpecNonLinCorr", description="Spectrometer Non-Linearity Correction Calibration Table")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")
StringParameter	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")
<i>table dataset</i>	(description="Table for SSW array")
<i>Metadata</i>	
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")
<i>StringId</i>	names (description="Channel names", quantity="")
<i>FloatId</i>	v0 (description="Zero point voltage", quantity="V")
<i>FloatId</i>	v0Error (description="Zero point voltage error", quantity="V")
<i>BoolId</i>	v0Flag (description="Flag for zero point voltage", quantity="")
<i>FloatId</i>	k1 (description="First calibration term", quantity="")
<i>FloatId</i>	k1Error (description="Error in first calibration term", quantity="")
<i>FloatId</i>	k2 (description="Second calibration term", quantity="V")
<i>FloatId</i>	k2Error (description="Error in second calibration term", quantity="V")
<i>FloatId</i>	k3 (description="Third calibration term", quantity="V")
<i>FloatId</i>	k3Error (description="Error in third calibration term", quantity="V")
<i>BoolId</i>	kFlag (description="Flag for astronomy calibration terms", quantity="")
<i>FloatId</i>	vMin (description="Minimum voltage limit", quantity="V")
<i>FloatId</i>	vMax (description="Maximum voltage limit", quantity="V")
<i>table dataset</i>	(description="Table for SLW array")
<i>Metadata</i>	
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")
<i>String1d</i>	names (description="Channel names", quantity="")
<i>Float1d</i>	v0 (description="Zero point voltage", quantity="V")
<i>Float1d</i>	v0Error (description="Zero point voltage error", quantity="V")
<i>Bool1d</i>	v0Flag (description="Flag for zero point voltage", quantity="")
<i>Float1d</i>	k1 (description="First calibration term", quantity="")
<i>Float1d</i>	k1Error (description="Error in first calibration term", quantity="")
<i>Float1d</i>	k2 (description="Second calibration term", quantity="V")
<i>Float1d</i>	k2Error (description="Error in second calibration term", quantity="V")
<i>Float1d</i>	k3 (description="Third calibration term", quantity="V")
<i>Float1d</i>	k3Error (description="Error in third calibration term", quantity="V")
<i>Bool1d</i>	kFlag (description="Flag for astronomy calibration terms", quantity="")
<i>Float1d</i>	vMin (description="Minimum voltage limit", quantity="V")
<i>Float1d</i>	vMax (description="Maximum voltage limit", quantity="V")

12.3.16. SCalSpecTempDriftCorr

<i>product (type="SCalSpecTempDriftCorr", description="Spectrometer Temperature Drift Correction Calibration Table")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="null")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="null")
DateParameter	startDate (description="null")
DateParameter	endDate (description="null")

StringParameter	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")
<i>table dataset</i>	(description="Table for SSW array")
<i>Metadata</i>	
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")
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	aT1 (description="null", quantity="none")
<i>DoubleId</i>	aT1Error (description="null", quantity="none")
<i>DoubleId</i>	bT1 (description="null", quantity="none")
<i>DoubleId</i>	bT1Error (description="null", quantity="none")
<i>BoolId</i>	abT1Flag (description="null", quantity="none")
<i>DoubleId</i>	aT2 (description="null", quantity="none")
<i>DoubleId</i>	aT2Error (description="null", quantity="none")
<i>DoubleId</i>	bT2 (description="null", quantity="none")

	<i>DoubleId</i>	bT2Error (description="null", quantity="none")
	<i>BoolId</i>	abT2Flag (description="null", quantity="none")
<i>table dataset</i>	(description="Table for SLW array")	
	<i>Metadata</i>	
	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")
	<i>StringId</i>	names (description="Channel names", quantity="")
	<i>DoubleId</i>	aT1 (description="null", quantity="none")
	<i>DoubleId</i>	aT1Error (description="null", quantity="none")
	<i>DoubleId</i>	bT1 (description="null", quantity="none")
	<i>DoubleId</i>	bT1Error (description="null", quantity="none")
	<i>BoolId</i>	abT1Flag (description="null", quantity="none")
	<i>DoubleId</i>	aT2 (description="null", quantity="none")
	<i>DoubleId</i>	aT2Error (description="null", quantity="none")
	<i>DoubleId</i>	bT2 (description="null", quantity="none")
	<i>DoubleId</i>	bT2Error (description="null", quantity="none")
	<i>BoolId</i>	abT2Flag (description="null", quantity="none")

12.3.17. SCalSpecSmecZpd

<i>product</i> (type="SCalSpecSmecZpd", description="Spectrometer Optical Encoder at ZPD Table")		
	<i>Metadata</i>	
	StringParameter	type (description="Product Type Identification")
	StringParameter	creator (description="Generator of this product")
	DateParameter	creationDate (description="Creation date of this product")
	StringParameter	description (description="Name of this product")

StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	dependency (description="Keywords on which product depends")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="Table for SSW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	optEnc (description="Optical Encoder at ZPD", quantity="cm [0.01 m]")
<i>DoubleId</i>	optEncError (description="Error on Optical Encoder at ZPD", quantity="cm [0.01 m]")
<i>DoubleId</i>	lvdt (description="LVDT DC Signal at ZPD", quantity="")
<i>DoubleId</i>	lvdtError (description="Error on LVDT DC Signal at ZPD", quantity="")
<i>table dataset</i>	(description="Table for SLW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	optEnc (description="Optical Encoder at ZPD", quantity="cm [0.01 m]")
<i>DoubleId</i>	optEncError (description="Error on Optical Encoder at ZPD", quantity="cm [0.01 m]")
<i>DoubleId</i>	lvdt (description="LVDT DC Signal at ZPD", quantity="")
<i>DoubleId</i>	lvdtError (description="Error on LVDT DC Signal at ZPD", quantity="")

12.3.18. SCalSpecSmecStepFactor

<i>product (type="SCalSpecSmecStepFactor", description="Spectrometer Step Factor Table")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
<i>table dataset</i>	(description="Table for SSW array")

<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	stepFactor (description="Step Factor", quantity="none")
<i>table dataset</i>	(description="Table for SLW array")
<i>Metadata</i>	
<i>StringId</i>	names (description="Channel names", quantity="")
<i>DoubleId</i>	stepFactor (description="Step Factor", quantity="none")

12.3.19. SCalSpecInterRef

<i>product (type="SCalSpecInterRef", description="Spectrometer Reference Interferogram")</i>	
<i>Meta- da- ta</i>	
<i>String- Pa- ram- eter</i>	type (description="Product Type Identification")
<i>String- Pa- ram- eter</i>	creator (description="Generator of this product")
<i>DatePa- ram- eter</i>	creationDate (description="Creation date of this product")
<i>String- Pa- ram- eter</i>	description (description="Name of this product")
<i>String- Pa- ram- eter</i>	instrument (description="Instrument attached to this product")
<i>String- Pa- ram- eter</i>	modelName (description="Model name attached to this product")
<i>DatePa- ram- eter</i>	startDate (description="Start date of this product")
<i>DatePa- ram- eter</i>	endDate (description="End date of this product")
<i>String- Pa- ram- eter</i>	formatVersion (description="Version of product format")
<i>Dou- blePa-</i>	dec (description="Actual Declination of pointing")

parameter	
DoubleParameter	decNominal (description="Requested Declination of pointing")
DoubleParameter	equinox (description="Equinox of celestial coordinate system")
LongParameter	obsid (description="Observation identifier")
DoubleParameter	posAngle (description="Position Angle of pointing")
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	numScans (description="Number of scans")
StringParameter	commandedResolution (description="Commanded Spectral Resolution")
StringParameter	version (description="null")
StringParameter	dependency (description="Keywords on which product depends")

parameter	
String-Parameter	biasMode (description="Nominal/bright source mode")
String-Parameter	fileName (description="null")
com-posite	(description="null")
Meta-data	
Long-Parameter	count (description="Interferogram Number")
Long-Parameter	scanNumber (description="Scan Number")
String-Parameter	scanDir (description="Scan Direction")
ta-ble dataset	(description="null")
Meta-data	
DoubleParameter	dec (description="Dec pointing for this channel")
DoubleParameter	ra (description="Ra pointing for this channel")
String-Parameter	channelName (description="Channel name")
String-Parameter	pixelName (description="null")
DoubleId	opd (description="null", quantity="cm [0.01 m]")
DoubleId	errorOpd (description="null", quantity="cm [0.01 m]")
DoubleId	signal (description="null", quantity="V")
DoubleId	errorSig (description="null", quantity="V")

<i>DoubleId</i>	mask (description="null", quantity="none")
<i>table dataset</i>	(description="null")
<i>Meta-data</i>	
<i>DoubleParameter</i>	dec (description="Dec pointing for this channel")
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<i>String-Parameter</i>	channelName (description="Channel name")
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<i>DoubleId</i>	errorOpd (description="null", quantity="cm [0.01 m]")
<i>DoubleId</i>	signal (description="null", quantity="V")
<i>DoubleId</i>	errorSig (description="null", quantity="V")
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<i>DoubleParameter</i>	ra (description="Ra pointing for this channel")
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<i>DoubleId</i>	errorOpd (description="null", quantity="cm [0.01 m]")
<i>DoubleId</i>	signal (description="null", quantity="V")
<i>DoubleId</i>	errorSig (description="null", quantity="V")
<i>DoubleId</i>	mask (description="null", quantity="none")

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DoubleParameter	ra (description="Ra pointing for this channel")
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<i>DoubleId</i>	errorOpd (description="null", quantity="cm [0.01 m]")
<i>DoubleId</i>	signal (description="null", quantity="V")
<i>DoubleId</i>	errorSig (description="null", quantity="V")
<i>DoubleId</i>	mask (description="null", quantity="none")
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<i>Meta-data</i>	
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DoubleParameter	ra (description="Ra pointing for this channel")
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<i>DoubleId</i>	errorOpd (description="null", quantity="cm [0.01 m]")
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DoubleParameter	ra (description="Ra pointing for this channel")
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<i>DoubleId</i>	errorOpd (description="null", quantity="cm [0.01 m]")
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<i>DoubleId</i>	errorSig (description="null", quantity="V")
<i>DoubleId</i>	mask (description="null", quantity="none")
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<i>Meta-data</i>	
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DoubleParameter	ra (description="Ra pointing for this channel")
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String-Parameter	pixelName (description="null")
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<i>DoubleId</i>	errorOpd (description="null", quantity="cm [0.01 m]")
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<i>DoubleId</i>	mask (description="null", quantity="none")

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DoubleParameter	ra (description="Ra pointing for this channel")
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<i>DoubleId</i>	errorOpd (description="null", quantity="cm [0.01 m]")
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<i>Meta-data</i>	
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DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
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<i>DoubleId</i>	errorOpd (description="null", quantity="cm [0.01 m]")
<i>DoubleId</i>	signal (description="null", quantity="V")
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<i>DoubleId</i>	mask (description="null", quantity="none")

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<i>DoubleId</i>	errorOpd (description="null", quantity="cm [0.01 m]")
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<i>DoubleId</i>	mask (description="null", quantity="none")
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<i>Meta-data</i>	
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DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
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<i>DoubleId</i>	errorOpd (description="null", quantity="cm [0.01 m]")
<i>DoubleId</i>	signal (description="null", quantity="V")
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DoubleParameter	ra (description="Ra pointing for this channel")
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<i>DoubleId</i>	mask (description="null", quantity="none")
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<i>Meta-data</i>	
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DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
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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")
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DoubleParameter	ra (description="Ra pointing for this channel")
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DoubleParameter	ra (description="Ra pointing for this channel")
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StringParameter	pixelName (description="null")
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DoubleParameter	ra (description="Ra pointing for this channel")
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StringParameter	pixelName (description="null")
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DoubleParameter	ra (description="Ra pointing for this channel")
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StringParameter	pixelName (description="null")
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<i>DoubleId</i>	errorOpd (description="null", quantity="cm [0.01 m]")
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<i>Meta-data</i>	
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DoubleParameter	ra (description="Ra pointing for this channel")
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StringParameter	pixelName (description="null")
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<i>DoubleId</i>	errorOpd (description="null", quantity="cm [0.01 m]")
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<i>DoubleId</i>	errorOpd (description="null", quantity="cm [0.01 m]")
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<i>DoubleId</i>	errorSig (description="null", quantity="V")
<i>DoubleId</i>	mask (description="null", quantity="none")
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<i>Meta-data</i>	
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DoubleParameter	ra (description="Ra pointing for this channel")
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StringParameter	pixelName (description="null")
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<i>DoubleId</i>	errorOpd (description="null", quantity="cm [0.01 m]")
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DoubleParameter	ra (description="Ra pointing for this channel")
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<i>DoubleId</i>	errorOpd (description="null", quantity="cm [0.01 m]")
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<i>Meta-data</i>	
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DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
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<i>DoubleId</i>	errorOpd (description="null", quantity="cm [0.01 m]")
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<i>table</i>	(description="null")
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DoubleParameter	ra (description="Ra pointing for this channel")
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<i>Meta-data</i>	
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DoubleParameter	ra (description="Ra pointing for this channel")
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StringParameter	pixelName (description="null")
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<i>DoubleId</i>	errorOpd (description="null", quantity="cm [0.01 m]")
<i>DoubleId</i>	signal (description="null", quantity="V")
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<i>table</i>	(description="null")
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<i>Meta-data</i>	
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DoubleParameter	ra (description="Ra pointing for this channel")
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StringParameter	pixelName (description="null")
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<i>DoubleId</i>	errorOpd (description="null", quantity="cm [0.01 m]")
<i>DoubleId</i>	signal (description="null", quantity="V")
<i>DoubleId</i>	errorSig (description="null", quantity="V")
<i>DoubleId</i>	mask (description="null", quantity="none")
<i>table</i>	(description="null")
<i>dataset</i>	
<i>Meta-data</i>	
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")
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<i>DoubleId</i>	errorOpd (description="null", quantity="cm [0.01 m]")
<i>DoubleId</i>	signal (description="null", quantity="V")
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<i>table</i>	(description="null")
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DoubleParameter	ra (description="Ra pointing for this channel")
StringParameter	channelName (description="Channel name")
StringParameter	pixelName (description="null")
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<i>DoubleId</i>	errorOpd (description="null", quantity="cm [0.01 m]")
<i>DoubleId</i>	signal (description="null", quantity="V")
<i>DoubleId</i>	errorSig (description="null", quantity="V")
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<i>Meta-data</i>	
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")
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<i>DoubleId</i>	errorOpd (description="null", quantity="cm [0.01 m]")
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DoubleParameter	ra (description="Ra pointing for this channel")
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<i>DoubleId</i>	errorOpd (description="null", quantity="cm [0.01 m]")
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<i>DoubleId</i>	errorSig (description="null", quantity="V")
<i>DoubleId</i>	mask (description="null", quantity="none")
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DoubleParameter	ra (description="Ra pointing for this channel")
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<i>DoubleId</i>	errorOpd (description="null", quantity="cm [0.01 m]")
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LongParameter	scanNumber (description="Scan Number")
StringParameter	scanDir (description="Scan Direction")
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<i>DoubleId</i>		errorSig (description="null", quantity="V")
<i>DoubleId</i>		mask (description="null", quantity="none")
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	DoubleParameter	ra (description="Ra pointing for this channel")
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	StringParameter	pixelName (description="null")
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<i>DoubleId</i>		errorOpd (description="null", quantity="cm [0.01 m]")
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<i>DoubleId</i>		mask (description="null", quantity="none")
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	DoubleParameter	ra (description="Ra pointing for this channel")
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<i>DoubleId</i>		mask (description="null", quantity="none")
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	DoubleParameter	ra (description="Ra pointing for this channel")
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<i>DoubleId</i>		signal (description="null", quantity="V")
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DoubleParameter	ra (description="Ra pointing for this channel")
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<i>DoubleId</i>	signal (description="null", quantity="V")
<i>DoubleId</i>	errorSig (description="null", quantity="V")
<i>DoubleId</i>	mask (description="null", quantity="none")
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DoubleParameter	ra (description="Ra pointing for this channel")
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<i>DoubleId</i>	errorSig (description="null", quantity="V")
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DoubleParameter	ra (description="Ra pointing for this channel")
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<i>DoubleId</i>	errorOpd (description="null", quantity="cm [0.01 m]")
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<i>DoubleId</i>	errorOpd (description="null", quantity="cm [0.01 m]")
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	DoubleParameter	ra (description="Ra pointing for this channel")
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	DoubleParameter	ra (description="Ra pointing for this channel")
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	StringParameter	pixelName (description="null")
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<i>DoubleId</i>		errorOpd (description="null", quantity="cm [0.01 m]")
<i>DoubleId</i>		signal (description="null", quantity="V")
<i>DoubleId</i>		errorSig (description="null", quantity="V")
<i>DoubleId</i>		mask (description="null", quantity="none")
<i>table dataset</i>		(description="null")
<i>Meta-data</i>		
	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")
<i>DoubleId</i>	opd (description="null", quantity="cm [0.01 m]")
<i>DoubleId</i>	errorOpd (description="null", quantity="cm [0.01 m]")
<i>DoubleId</i>	signal (description="null", quantity="V")
<i>DoubleId</i>	errorSig (description="null", quantity="V")
<i>DoubleId</i>	mask (description="null", quantity="none")
<i>table dataset</i>	(description="null")
<i>Meta-data</i>	
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")
<i>DoubleId</i>	opd (description="null", quantity="cm [0.01 m]")
<i>DoubleId</i>	errorOpd (description="null", quantity="cm [0.01 m]")
<i>DoubleId</i>	signal (description="null", quantity="V")
<i>DoubleId</i>	errorSig (description="null", quantity="V")
<i>DoubleId</i>	mask (description="null", quantity="none")
<i>table dataset</i>	(description="null")
<i>Meta-data</i>	
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")
<i>DoubleId</i>		opd (description="null", quantity="cm [0.01 m]")
<i>DoubleId</i>		errorOpd (description="null", quantity="cm [0.01 m]")
<i>DoubleId</i>		signal (description="null", quantity="V")
<i>DoubleId</i>		errorSig (description="null", quantity="V")
<i>DoubleId</i>		mask (description="null", quantity="none")
<i>table dataset</i>		(description="null")
	<i>Meta-data</i>	
	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")
<i>DoubleId</i>		opd (description="null", quantity="cm [0.01 m]")
<i>DoubleId</i>		errorOpd (description="null", quantity="cm [0.01 m]")
<i>DoubleId</i>		signal (description="null", quantity="V")
<i>DoubleId</i>		errorSig (description="null", quantity="V")
<i>DoubleId</i>		mask (description="null", quantity="none")
<i>table dataset</i>		(description="null")
	<i>Meta-data</i>	
	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")
DoubleId	opd (description="null", quantity="cm [0.01 m]")
DoubleId	errorOpd (description="null", quantity="cm [0.01 m]")
DoubleId	signal (description="null", quantity="V")
DoubleId	errorSig (description="null", quantity="V")
DoubleId	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")
DoubleId	opd (description="null", quantity="cm [0.01 m]")
DoubleId	errorOpd (description="null", quantity="cm [0.01 m]")
DoubleId	signal (description="null", quantity="V")
DoubleId	errorSig (description="null", quantity="V")
DoubleId	mask (description="null", quantity="none")

12.3.20. SCalSpecPhaseCorrLim

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

StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
table dataset	(description="Table for SSW array")
Metadata	
StringId	names (description="Channel names", quantity="")
DoubleId	low (description="Low wavenumber edge", quantity="cm-1 [100.0 m-1]")
DoubleId	high (description="High wavenumber edge", quantity="cm-1 [100.0 m-1]")
table dataset	(description="Table for SLW array")
Metadata	
StringId	names (description="Channel names", quantity="")
DoubleId	low (description="Low wavenumber edge", quantity="cm-1 [100.0 m-1]")
DoubleId	high (description="High wavenumber edge", quantity="cm-1 [100.0 m-1]")

12.3.21. SCalSpecBandEdge

<i>product (type="SCalSpecBandEdge", description="Spectrometer Band Edges")</i>	
Metadata	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	fileName (description="null")
table dataset	(description="Table for SSW array")
Metadata	
StringId	names (description="Channel names", quantity="")
DoubleId	low (description="Low wavenumber edge", quantity="cm-1 [100.0 m-1]")

	<i>DoubleId</i>	high (description="High wavenumber edge", quantity="cm-1 [100.0 m-1]")
<i>table dataset</i>	(description="Table for SLW array")	
<i>Metadata</i>		
	<i>StringId</i>	names (description="Channel names", quantity="")
	<i>DoubleId</i>	low (description="Low wavenumber edge", quantity="cm-1 [100.0 m-1]")
	<i>DoubleId</i>	high (description="High wavenumber edge", quantity="cm-1 [100.0 m-1]")

12.3.22. SCalSpecNlp

<i>product (type="SCalSpecNlp", description="Spectrometer Non-linear (Optical) Phase Correction Table")</i>		
<i>Metadata</i>		
StringParameter	type (description="Product Type Identification")	
StringParameter	creator (description="null")	
DateParameter	creationDate (description="Creation date of this product")	
StringParameter	description (description="Name of this product")	
StringParameter	instrument (description="Instrument attached to this product")	
StringParameter	modelName (description="null")	
DateParameter	startDate (description="null")	
DateParameter	endDate (description="null")	
StringParameter	formatVersion (description="Version of product format")	
StringParameter	version (description="null")	
DoubleParameter	resolutionSsw (description="null")	
DoubleParameter	resolutionSlw (description="null")	
StringParameter	fileName (description="null")	
<i>table dataset</i>	(description="SSW non-linear phase")	
<i>Metadata</i>		
	<i>DoubleId</i>	wavenumber (description="Wavenumber", quantity="cm-1 [100.0 m-1]")
	<i>DoubleId</i>	telePhase (description="Telescope phase", quantity="rad")
	<i>DoubleId</i>	teleError (description="Error on telescope phase", quantity="rad")
	<i>DoubleId</i>	scalPhase (description="SCAL phase", quantity="rad")
	<i>DoubleId</i>	scalError (description="Error on SCAL phase", quantity="rad")
<i>table dataset</i>	(description="SLW non-linear phase")	
<i>Metadata</i>		
	<i>DoubleId</i>	wavenumber (description="Wavenumber", quantity="cm-1 [100.0 m-1]")
	<i>DoubleId</i>	telePhase (description="Telescope phase", quantity="rad")
	<i>DoubleId</i>	teleError (description="Error on telescope phase", quantity="rad")

<i>DoubleId</i>	scalPhase (description="SCAL phase", quantity="rad")
<i>DoubleId</i>	scalError (description="Error on SCAL phase", quantity="rad")

12.3.23. SCalSpecSmecStepFactor

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

12.3.24. SCalSpecSmecZpd

<i>product</i> (type="SCalSpecSmecZpd", description="Spectrometer Optical Encoder at ZPD Table")	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	version (description="null")
StringParameter	dependency (description="Keywords on which product depends")

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

12.3.25. SCalSpecBeamProf

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

<i>Metadata</i>	
DoubleParameter	crval1 (description="WCS: First coordinate of reference pixel")
DoubleParameter	crval2 (description="WCS: Second coordinate of reference pixel")
DoubleParameter	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")
<i>Double2d</i>	(description="Image", quantity="")

Chapter 13. Auxiliary and Quality Products

13.1. auxEvLog: Events Log

<i>product (type="auxEvLog", description="Herschel Events log Product")</i>	
<i>Metadata</i>	
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")
<i>table dataset (description="null")</i>	
<i>Metadata</i>	
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")
<i>LongId</i>	obt (description="TAI Time key index", quantity="TAI")
<i>ShortId</i>	eventId (description="Identifier for the event", quantity="none")
<i>ShortId</i>	packetSubType (description="Identifier for the event", quantity="none")
<i>ShortId</i>	sid (description="Packet structure ID", quantity="none")
<i>StringId</i>	evtDesc (description="Event description as in APID table in MIB", quantity="none")
<i>IntId</i>	evtSeqCount (description="Event sequence counter", quantity="none")
<i>StringId</i>	evtParamsA (description="Fixed length parameters field with complementary information on event", quantity="none")
<i>StringId</i>	evtParamsB (description="Variable length parameters field with complementary information on event", quantity="none")

13.2. auxMissTM: Missing Telemetry

<i>product (type="auxMissTM", description="Herschel Missing TM Product")</i>	
<i>Metadata</i>	
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")
<i>table dataset</i>	<i>(description="MissingTmTable")</i>
<i>Metadata</i>	
<i>IntId</i>	apid (description="Missing packet's APID", quantity="none")
<i>LongId</i>	lastTime (description="Last valid packet time (OBT, TAI)", quantity="TAI")
<i>LongId</i>	nextTime (description="Next valid packet time - set to 0 if none available (OBT, TAI)", quantity="TAI")
<i>ShortId</i>	lastSsc (description="Last valid source sequence counter", quantity="none")
<i>ShortId</i>	nextSsc (description="Next valid source sequence counter (-1 if none", quantity="none")

13.3. auxOol: Out of limits Product

<i>product (type="auxOol", description="Herschel Out of Limits Product")</i>	
<i>Meta-data</i>	
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")
<i>table</i> <i>dataset</i>	(description="null")
<i>Metadata</i>	
DateParameter	startDate (description="First product time key in dataset")
DateParameter	endDate (description="Last product key within dataset")
DateParameter	DATE_OBS (description="First product time key in dataset")
<i>LongId</i>	oolTime (description="Time when the parameter was found to be OOL (as", quantity="TAI")
<i>LongId</i>	valTime (description="Time of the parameter value (assumed TAI", quantity="TAI")
<i>StringId</i>	parName (description="Parameter name as in the MIB", quantity="none")
<i>IntId</i>	oolCheckPos (description="OOL check position", quantity="none")
<i>ByteId</i>	paramState (description="Parameter state in BEHV subsystem", quantity="none")
<i>ByteId</i>	oolCheckStatus (description="OOL condition status", quantity="none")
<i>IntId</i>	numViolations (description="Number of times OOL check has been violated", quantity="none")
<i>BoolId</i>	signedParameterFlag (description="Signed parameter flag", quantity="none")
<i>LongId</i>	parVal (description="Parameter value", quantity="none")
<i>LongId</i>	parLowLimit (description="Parameter low limit", quantity="none")
<i>LongId</i>	parHighLimit (description="Parameter high limit", quantity="none")

13.4. auxOrbitp: Predicted Orbit Ephemeris

<i>product</i> (type="auxOrbitp", description="Herschel Predicted Orbit Ephemeris Product")	
<i>Meta-data</i>	
String-Parameter	type (description="Herschel Predicted Orbit Ephemeris Product")
String-Parameter	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")
<i>table dataset</i>	(description="null")
<i>Meta- data</i>	
DateParameter	startDate (description="First product time key in dataset")
DateParameter	endDate (description="Last product key within dataset")
StringParameter	interpMethod (description="null")
StringParameter	interpDegree (description="null")
DateParameter	DATE_OBS (description="First product time key in dataset")

<i>Long1d</i>	recordTime (description="Time key index (TAI)", quantity="TAI")
<i>Long1d</i>	onBoardTime (description="OnboardTime (TAI ?)", quantity="TAI")
<i>Double2d</i>	orbitPos (description="Cartesian components of S/C position", quantity="km [1000.0 m]")
<i>Double2d</i>	orbitVel (description="Cartesian components of S/C velocity", quantity="km/s [1000.0 m/s]")

13.5. HPP: Herschel Pointing Product

<i>product (type="HPP", description="Herschel Pointing Product")</i>	
<i>Meta-data</i>	
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")
<i>table dataset</i>	(description="Pointing table")
<i>Meta-data</i>	
LongParameter	obsid (description="Observation ID")
LongParameter	bbid (description="Building Block ID")
LongParameter	rasterLineNum (description="Raster line number")
LongParameter	rasterColumnNum (description="Raster Column number")
LongParameter	scanLineNum (description="Scan line number")
LongParameter	nodCycleNum (description="Switching/nodding cycle number")
BooleanParameter	abPosId (description="A/B position identifier")
StringParameter	pointModeId (description="Point mode ID")
StringParameter	apertureId (description="Instrument aperture")
BooleanParameter	serendipityFlag (description="SPIRE serendipity mode flag")
StringParameter	acmsMode (description="ACMS mode")
LongParameter	startDate (description="First product time key")
LongParameter	DATE_OBS (description="First product time key")
LongParameter	endDate (description="Last product time key")
<i>Long1d</i>	obt (description="On board time", quantity="none")
<i>Double2d</i>	commandQuat (description="Commanded Pointing quaternion", quantity="none")
<i>Double2d</i>	filterQuat (description="Filtered attitude quaternion", quantity="none")
<i>Double2d</i>	gyroPropQuat (description="Gyro-propagated attitude quaternion", quantity="none")
<i>Double1d</i>	strQuality (description="STR quality index (arcsec)", quantity="none")
<i>Double1d</i>	gyroQuality (description="Gyro-propagated quality index (arcsec)", quantity="none")
<i>Double2d</i>	angVelocity (description="S/C angular velocity (arcsec/sec)", quantity="none")
<i>Double2d</i>	angVelocityError (description="S/C angular velocity error (arcsec/sec)", quantity="none")
<i>Bool1d</i>	isConstantVelocity (description="Constant velocity flag", quantity="none")

<i>BoolId</i>	isStrInterlacing (description="STR interlacing flag. 1 if active, 0 otherwise", quantity="none")
<i>IntId</i>	qualityFlag (description="Quality flag", quantity="none")
<i>BoolId</i>	isSlew (description="Slew flag", quantity="none")
<i>BoolId</i>	isOutOfField (description="Out of field flag", quantity="none")
<i>BoolId</i>	isOffPosition (description="Off-position flag", quantity="none")
<i>BoolId</i>	isOnTarget (description="On-target flag", quantity="none")

13.6. SIAM: Spacecraft/Instrument Alignment Matrices

	<i>product</i> (type="SIAM", description="Unknown")
Meta- data	
String- Pa- ram- e- ter	type (description="Product Type")
String- Pa- ram- e- ter	creator (description="Generator of this product")
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="Instrument attached to this product")
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-	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")

String-Parameter	apertureId (description="null")
DateParameter	validityStart (description="null")
DoubleParameter	SAA (description="null")
Double2d	(description="null", quantity="none")

13.7. auxCalSREM: Calibrated SREM Product

<i>product</i> (type="auxCalSREM", description="Herschel Calibrated SREM Product")	
<i>Metadata</i>	
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")
<i>table dataset</i>	(description="null")
<i>Metadata</i>	
DateParameter	startDate (description="First product time key in dataset")
DateParameter	endDate (description="Last product key within dataset")
DoubleParameter	protonE1 (description="Proton energy E1, MeV")
DoubleParameter	protonE2 (description="Proton energy E2, MeV")
DoubleParameter	protonE3 (description="Proton energy E3, MeV")
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")

<i>Metadata</i>	
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")
<i>table</i> <i>dataset</i>	(description="null")
<i>Metadata</i>	
DateParameter	startDate (description="First product time key in dataset")
DateParameter	endDate (description="Last product key within dataset")
DateParameter	DATE_OBS (description="First product time key in dataset")
<i>LongId</i>	startAccumTime (description="Start accumulation time (assumed TAI", quantity="TAI")
<i>LongId</i>	endAccumTime (description="End accumulation time (assumed TAI", quantity="TAI")
<i>LongId</i>	tc1Raw (description="Total counts in D1 (protons tc1 row)", quantity="none")
<i>LongId</i>	s12Raw (description="Proton alarm (s12 row)", quantity="none")
<i>LongId</i>	s13Raw (description="Single protons (s13 row)", quantity="none")
<i>LongId</i>	s14Raw (description="Single protons (s14 row)", quantity="none")
<i>LongId</i>	s15Raw (description="Single protons (s15 row)", quantity="none")
<i>LongId</i>	tc2Raw (description="Total counts in D2 (protons tc2 row)", quantity="none")
<i>LongId</i>	s25Raw (description="Heavy ions (s25 row)", quantity="none")
<i>LongId</i>	c1Raw (description="Coincidence, protons (c1 row)", quantity="none")
<i>LongId</i>	c2Raw (description="Coincidence, protons (c2 row)", quantity="none")
<i>LongId</i>	c3Raw (description="Coincidence, protons (c3 row)", quantity="none")
<i>LongId</i>	c4Raw (description="Coincidence, protons (c4 row)", quantity="none")
<i>LongId</i>	tc3Raw (description="Total counts in D3 (electrons)", quantity="none")
<i>LongId</i>	s32Raw (description="Electron alarm (s32 row)", quantity="none")
<i>LongId</i>	s33Raw (description="Proton count (s33 row)", quantity="none")
<i>LongId</i>	s34Raw (description="Proton count (s34 row)", quantity="none")
<i>LongId</i>	pl1 (description="Dead time correction count D1", quantity="none")
<i>LongId</i>	pl2 (description="Dead time correction count D2", quantity="none")
<i>LongId</i>	pl3 (description="Dead time correction count D3", quantity="none")

	<i>Int1d</i>	t8Raw (description="D1/D2 temperature sensor", quantity="none")
	<i>Int1d</i>	t9Raw (description="D3 temperature sensor", quantity="none")
<i>table dataset</i>	<i>(description="null")</i>	
<i>Metadata</i>		
	DateParameter	startDate (description="First product time key in dataset")
	DateParameter	endDate (description="Last product key within dataset")
	DateParameter	DATE_OBS (description="First product time key in dataset")
	<i>Long1d</i>	AcqTime (description="Aquisition time (assumed TAI", quantity="TAI")
	<i>Int1d</i>	t7Raw (description="Internal temperature sensor T7", quantity="none")
	<i>Int1d</i>	d7Raw (description="Total dose in internal RadFET (D7 row)", quantity="none")
	<i>Int1d</i>	vCalRef1Raw (description="Calibration reference voltage 1", quantity="none")
	<i>Int1d</i>	vCalRef2Raw (description="Calibration reference voltage 2", quantity="none")
	<i>Int1d</i>	vCalRef3Raw (description="Calibration reference voltage 3", quantity="none")
	<i>Int1d</i>	vCalRef4Raw (description="Calibration reference voltage 4", quantity="none")
	<i>Int1d</i>	cCalRef1Raw (description="Calibration temperature", quantity="none")
	<i>Int1d</i>	cCalRef2Raw (description="CALibration offset temperature", quantity="none")

13.9. auxTch: Telecommand History

<i>product (type="auxTch", description="Herschel Telecommand History Product")</i>		
<i>Metadata</i>		
	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")
<i>table dataset</i>	<i>(description="null")</i>	
<i>Metadata</i>		

<i>LongId</i>	tcIndex (description="Telecommand Index Key", quantity="none")
<i>LongId</i>	tcId (description="HCSS Telecommand ID", quantity="none")
<i>StringId</i>	name (description="TC name from MIB", quantity="none")
<i>StringId</i>	desc (description="TC description", quantity="none")
<i>StringId</i>	seq (description="Parent sequence name", quantity="none")
<i>LongId</i>	releaseTime (description="Release Time", quantity="TAI")
<i>LongId</i>	executionTime (description="Execution time", quantity="TAI")
<i>StringId</i>	staticPtvCheck (description="Static PTV check state", quantity="none")
<i>StringId</i>	dynamicPtvCheck (description="Dynamic PTV check state", quantity="none")
<i>StringId</i>	cevCheck (description="CEV check state", quantity="none")
<i>StringId</i>	group (description="Group flag value", quantity="none")
<i>StringId</i>	block (description="Block flag value", quantity="none")
<i>StringId</i>	interlockStatus (description="Interlock status", quantity="none")
<i>StringId</i>	sourceType (description="Source type", quantity="none")
<i>StringId</i>	source (description="Source workstation ID", quantity="none")
<i>LongId</i>	updateTime (description="Update time", quantity="TAI")
<i>StringId</i>	verificationStatus (description="Verification status", quantity="none")
<i>table dataset</i>	(description="null")
<i>Metadata</i>	
<i>LongId</i>	tcIndex (description="Telecommand Index Key", quantity="none")
<i>StringId</i>	name (description="TC name from MIB", quantity="none")
<i>StringId</i>	desc (description="TC description", quantity="none")
<i>StringId</i>	valueRepresentation (description="Parent sequence name", quantity="none")
<i>StringId</i>	radix (description="Packet type", quantity="none")
<i>StringId</i>	value (description="Execution time", quantity="none")
<i>table dataset</i>	(description="null")
<i>Metadata</i>	
<i>LongId</i>	tcIndex (description="Telecommand Index Key", quantity="none")
<i>StringId</i>	bitPattern (description="Bit pattern in hexadecimal string format", quantity="none")

13.10. auxTimec: Time Correlation

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

13.11. auxUpl: Uplink Product

<i>product (type="auxUpl", description="Herschel Uplink Product")</i>	
<i>Meta-data</i>	
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")
<i>com- posite</i>	<i>(description="null")</i>
<i>Metadata</i>	
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")
<i>table dataset</i>	<i>(description="Boolean ObservationRequest Parameter")</i>

<i>Metadata</i>	
<i>StringId</i>	paramName (description="null", quantity="none")
<i>BoolId</i>	boolParamVal (description="null", quantity="none")
<i>table dataset</i>	(description="Double ObservationRequest Parameter")
<i>Metadata</i>	
<i>StringId</i>	paramName (description="null", quantity="none")
<i>DoubleId</i>	doubleParamVal (description="null", quantity="none")
<i>table dataset</i>	(description="Integer ObservationRequest Parameter")
<i>Metadata</i>	
<i>StringId</i>	paramName (description="Parameter Name", quantity="none")
<i>IntId</i>	intParamVal (description="Integer Parameter", quantity="none")
<i>table dataset</i>	(description="Long ObservationRequest Parameter")
<i>Metadata</i>	
<i>StringId</i>	paramName (description="null", quantity="none")
<i>LongId</i>	longParamVal (description="null", quantity="none")
<i>table dataset</i>	(description="String ObservationRequest Parameter")
<i>Metadata</i>	
<i>StringId</i>	paramName (description="null", quantity="none")
<i>StringId</i>	stringParamVal (description="null", quantity="none")
<i>table dataset</i>	(description="null")
<i>Metadata</i>	
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	timeAllocPriority1 (description="Time allocated of priority 1 time")
DoubleParameter	timeAllocPriority2 (description="Time allocated of priority 2 time")
LongParameter	technivalEvaluation (description="Status of technical evaluation")

DoubleParameter	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 Col")										
<i>table</i>	(description="null")										
<i>dataset</i>											
<i>Metadata</i>											
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")										
<i>LongId</i>	bbid (description="Building Block ID", quantity="none")										
<i>StringId</i>	bbName (description="Name of the Execution Block", quantity="none")										
<i>LongId</i>	bbStart (description="Execution Block start time", quantity="microsecond [1.0E-6 s]")										
<i>LongId</i>	bbEnd (description="Execution Block end time", quantity="microsecond [1.0E-6 s]")										

13.12. QUALITY

<i>map context (type="QUALITY", description="Quality Data")</i>											
<i>Metadata</i>											
StringParameter	type (description="Product Type Identification")										
StringParameter	creator (description="Generator of this product")										
DateParameter	creationDate (description="Creation date of this product")										
StringParameter	description (description="Name of this product")										
StringParameter	instrument (description="Instrument attached to this product")										
StringParameter	modelName (description="Model name attached to this product")										
DateParameter	startDate (description="Start date of this product")										
DateParameter	endDate (description="End date of this product")										
StringParameter	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")										
<i>product</i>	<i>(type="QUALITY_LOG", description="Quality logs")</i>										
<i>Metadata</i>											
StringParameter	type (description="Product Type Identification")										
StringParameter	creator (description="Generator of this product")										

DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	formatVersion (description="Version of product format")
StringParameter	version (description="null")
LongParameter	obsid (description="null")
<i>table dataset</i>	(description="LOGS")
<i>Metadata</i>	
<i>LongId</i>	Time (description="null", quantity="none")
<i>StringId</i>	Type (description="null", quantity="none")
<i>StringId</i>	Level (description="null", quantity="none")
<i>StringId</i>	Category (description="null", quantity="none")
<i>StringId</i>	Source (description="null", quantity="none")
<i>StringId</i>	Message (description="null", quantity="none")

13.13. QUALITY_SUMMARY

<i>map context (type="QUALITY_SUMMARY", description="Quality Data")</i>	
<i>Metadata</i>	
StringParameter	type (description="Product Type Identification")
StringParameter	creator (description="Generator of this product")
DateParameter	creationDate (description="Creation date of this product")
StringParameter	description (description="Name of this product")
StringParameter	instrument (description="Instrument attached to this product")
StringParameter	modelName (description="Model name attached to this product")
DateParameter	startDate (description="Start date of this product")
DateParameter	endDate (description="End date of this product")
StringParameter	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 Name	DP	Description	FITS-Name
acmsMode		ACMS mode	ACMSMODE
activeStrId		identification of the active STR	ACTIVSTR
aorLabel		AOR label as entered in HSpot	AOR
aot		AOT Identifier	AOT
aperture		Instrument aperture in use	APERTURE
apid		Application Programme Identifier	APID
arrayName		Name of Detector Array	DETECTOR
author		Author of the data	AUTHOR
averaging		Averaging operator	AVERAGIN
band		Band	BAND
baselineModel		Baseline Model	BASEMOD
baselineParams		Parameters of Baseline model	BASEPAR
bbCount		Building Block Count	BBCOUNT
bbid		Building Block Identifier	BBID
bbType		Building Block Type	BBTYPE
bbTypeName		Building Block Type Name	BBTNAME
biasVoltage		Bias voltage factor	BIASVOLT
bitPos		Bit position of this mask	BITPOS
calFileId		Calibration file ID	CALFILE
calFileVersion		Calibration file version	
calThreshold		Specified position accuracy threshold for a plateau in calibration	THRESHOL
camera		Name Camera/ detector array	CAMERA
cameraModel		Model of the camera (CQM, FM, Sixpack,...)	CAMMODEL
cd1_1		CD1_1 element of CD matrix	CD1_1
cd1_2		CD1_2 element of CD matrix	CD1_2
cd1_3		CD1_3 element of CD matrix	CD1_3
cd2_1		CD2_1 element of CD matrix	CD2_1
cd2_2		CD2_2 element of CD matrix	CD2_2
cd2_3		CD2_3 element of CD matrix	CD2_3
cd3_1		CD3_1 element of CD matrix	CD3_1
cd3_2		CD3_2 element of CD matrix	CD3_2
cd3_3		CD3_3 element of CD matrix	CD3_3
cdelt1		pixel size in axis 1	CDELTA1

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

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

Herschel Name	DP	Description	FITS-Name
raErr		Error on Right Ascension of actual pointin	RA_ERR
raNominal		requested RA of pointing	RA_NOM
raObject		RA of target object	RA_OBJ
rasterColumnNum		Raster column number	RASTCOL
rasterLineNum		Raster line number	RASTLINE
readouts		sample readouts for one ramp	READOUTS
references		References	REFEREN
refPixel		Reference Pixel	REFPIXEL
roll		Spacecraft roll angle	ROLL
saa		Reference SAA value in the range 0-180 degrees	SAA
saturation		Fraction of saturated samples	SATURATE
satValuesSigned		Saturation values signed modes	SAT_SIGN
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 Name	DP	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
BPSUBUF	Blue photometer total number of SPUBuffer not expected
BSPUMIS	Percentage of blue photometer missing SPU above threshold
BSPUFAI	Percentage of blue photometer failed SPU above threshold
RPSUBUF	Red photometer total numbers of SPUBuffer not expected
RSPUMIS	Percentage of red photometer missing SPU above threshold
RSPUFAI	Percentage of red photometer failed SPU above threshold
BPCISAT	Percentage of blue photometer saturated pixels in science blocks above threshold
RPCISAT	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 $\pm 2\pi$
RETSPLIN	Reticulating splines failure
SCANEXTR	Ratio of measured 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