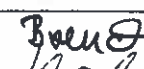
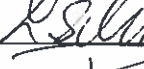


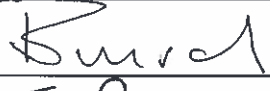



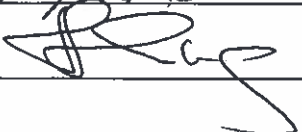


Title: **Satellite Ancillary Data ICD**

CI - No: 000000

DRL Refs :

	Name	Date	Signature
Prepared by:	E.Breuckmann, G.Lautenschläger W. Gockel, L. Schmieder	12.02.2013	   
Checked by:	S. Bursch	12.2.13	
Product Assurance:	 M. Degenhardt	12.02.13	
Configuration Mgmt:	U. Bardua	13.02.13	
Project Management:	H. Sontag	12.2.13	

## Change Record

Issue	Date	Sheet	Description of Change
1	30.09.2009	all	First formal issue of this Document to respond to System PDR RID SEO-495.
2	24.06.2010	all	Update based on: <ul style="list-style-type: none"> <li>Clarification Meeting during System Progress Meeting PM#12 as per GS2.MN.ASD.SY.00293 and on e-mail 05.01.2010 by Claudia Isola.</li> </ul>
		§3.2	<ul style="list-style-type: none"> <li>Introduced MSI Mission Data ICD updates as per GS2.ICD.ASF.MSI.00008 issue 4.</li> </ul>
		§3.3.1 §3.3.3.1 §3.3	<ul style="list-style-type: none"> <li>ESA S2-CR-ESA-SY-00010:               <ul style="list-style-type: none"> <li>Additional 12 GPSR TM packets enabled</li> <li>One additional GPSR TM packets extraction by CSW</li> <li>MMFU System Ancillary Data Store routing for PCAT 6 +12 in TM Data Flow figure 3.4-1</li> </ul> </li> </ul>
		§1.2.1	<ul style="list-style-type: none"> <li>Added Reference to Startracker PUS ICD</li> </ul>
		§3.3.2	<ul style="list-style-type: none"> <li>Added TM_TDB "Tracker Data Block"</li> </ul>
3	30.03.2011	All §3.3 §3.3.1 §3.3.2 §3.3.3  §3.3.3.1 §3.3.3.2 §3.3.3.3 §3.3.3.4 §3.3.3.5	Update after System CDR. <ul style="list-style-type: none"> <li>Removed TBC as per Editorial RID</li> <li>Updated Figure 3.3-1: added PCAT 11+13</li> <li>Updated list of GPSR Ancillary Data as per <b>SEO-ORV-57</b></li> <li>Updated list of STR Ancillary Data</li> <li>Detailed CSW AOCS Ancillary Data as per <b>SEO-ORV-76</b></li> <li>Removed comments as per <b>SEO-SW-50</b></li> <li>Removed diagnostic GPSR packets:               <ul style="list-style-type: none"> <li>Noise Histogram</li> <li>Channel Status</li> <li>Tracking State</li> <li>AGC status</li> </ul> </li> <li>CSW AOCS-TM1 Attitude Data</li> <li>CSW AOCS-TM2 Propagator Data</li> <li>CSW AOCS-GPSR Data</li> <li>CSW AOCS-STR Data</li> <li>CSW AOCS-IMU Data</li> </ul>

4	15.07.2011	All §1.2.2 §2 §3 §3.1 §3.3 §3.3ff §3.3.1	Updates after ESA comments and clarification during System PM#19: <ul style="list-style-type: none"> <li>▪ Added RD-02</li> <li>▪ Deleted last sentence</li> <li>▪ Reworded and added PCAT 11 and 13 to Sat.Ancillary Data.</li> <li>▪ Reworded and added RD-02</li> <li>▪ Updated Figure 3.3-1 " TM Data Flow"</li> <li>▪ Added chapter references for SAD-TM packet structure</li> <li>▪ The following packet have been added, but only in diagnostics mode:             <ul style="list-style-type: none"> <li>• GPS Channel Status</li> <li>• GPS Tracking State</li> <li>• GPS Noise Histogram</li> <li>• GPS AGC Status</li> </ul> </li> <li>▪ The following packet have been added for completeness, but not for use:             <ul style="list-style-type: none"> <li>• GPS <b>S1</b> Navigation Solution</li> <li>• GPS <b>S1</b> IMT/GPST Correlation</li> </ul> </li> </ul>
		§3.3.3.1	Implementation of AI2 + AI3 from S2.MN.ESA.SY.261: <ul style="list-style-type: none"> <li>▪ AOCS mode and sub-mode information in AOCS-TM1</li> <li>▪ indication of equipment used by AOCS algorithm for position / attitude estimation and control task</li> <li>▪ Introduction of gyro stellar estimator innovation estimates in AOCS-TM1 according PM#19 agreements</li> <li>▪ AOCS-TM1 packet frequency changed from 1 Hz to 2 Hz corresponding to AOCS algorithm execution</li> <li>▪ AOCS-TM1 and AOCS-TM2 data format clarified</li> </ul>
		§3.3.3.2	<ul style="list-style-type: none"> <li>▪ Orbit angle description changed to proposed definition according ESA presentation during PM#19.</li> </ul>
		§3.3.3.4	<ul style="list-style-type: none"> <li>▪ Removed the AOCS-STR TM_ADB packets for STR1,2 and 3.</li> </ul>
		§3.3.3.5	<ul style="list-style-type: none"> <li>▪ Re-assigned SIDs for AOCS-IMU packets.</li> <li>▪ Added additional IMU parameters.</li> </ul>
		§3.3.3.6	<ul style="list-style-type: none"> <li>▪ Re-named "AOCS-THERM-Data" into "MSI-SAD Packet".</li> <li>▪ Added MSI related parameters as agreed during PM#19.</li> </ul>
5	21.11.2011	§3.3.1 §3.3.2 §3.3.3.5 §3.3.3.6	Updates based on ESA e-mail 26-07-2011: <ul style="list-style-type: none"> <li>▪ Added explanation for GPSR A+B</li> <li>▪ Added explanation for STR 1+2+3</li> <li>▪ Added <b>AOCS-IMU1234HK</b> packet</li> <li>▪ Corrected S2 Thermal ICD reference</li> </ul>

		§3.3 §3.3.3.4 §3.3.1 §3.3.2 §3.3.3.1 §3.3.3.2 §3.3.3.3 §3.3.3.4 §3.3.3.5 §3.3.3.6 §3.4 See change bar	Other changes: <ul style="list-style-type: none"> <li>▪ Updated Figure 3.3-1</li> <li>▪ Declared <b>AOCS-STR1_TM_SDB</b>, <b>AOCS-STR2_TM_SDB</b> and <b>AOCS-STR3_TM_SDB</b> as disabled, since covered by <b>AOCS-TM1</b></li> <li>▪ Added reference to SRDB.</li> <li>▪ Added reference to SRDB.</li> <li>▪ Removed parameters and added reference to SRDB.</li> <li>▪ Removed parameters and added reference to SRDB.</li> <li>▪ Added reference to SRDB.</li> <li>▪ Added reference to SRDB.</li> <li>▪ Removed parameters and added reference to SRDB.</li> <li>▪ Removed parameters and added reference to SRDB.</li> <li>▪ Added chapter representing the SRDB extract of the Satellite Ancillary Data packet structure.</li> <li>▪ Editorial changes</li> </ul>
6	13.03.2012	Annex	Updates based on ESA comments GS2.MN.ASD.SY.00786: <ul style="list-style-type: none"> <li>▪ Added Legend of SRDB Export</li> <li>▪ Added CSM switch status to MSI-SAD packet</li> <li>▪ Added long description</li> <li>▪ Updated calibration curves</li> <li>▪ Replaced SRDB extract</li> </ul>
7	31.07.2012	§ 3.2 §3.3.3.4 §3.4 § 3.3.3.6 §3.4.2	Editorial change in figure Reworded text and enabled packets: <ul style="list-style-type: none"> <li>• AOCS-STR1_TM-SDB</li> <li>• AOCS-STR2_TM-SDB</li> <li>• AOCS-STR3_TM-SDB</li> </ul> Harmonisation of nomenclature in table with SRDB export Inclusion of additional information w.r.t. CSM position switch status New paragraph with comparison of SRDB export issue 6 to issue 7



8	12.02.2013	§3.2.3	Figure page 15 updated in line with [AD 10] iss 8, figure 3.3-1
		§3.3.3.6	Description updated for CSMDE
		§3.4	<ul style="list-style-type: none"> <li>- CJY_ANC17123 updated in line with telecom GS2-ASD-00224/12. CSMDE_SCV and CSMDE_B position switch telemetry parameters added</li> <li>- MSI mode ID rank 4 name and format added</li> <li>- Update of table of Satellite Ancillary Data Packets in line with telecom GS2.MN.ASD.SY.00995, explanation of packet status</li> </ul>
		§3.4.2	Comparison of SRDB Export of issue 8 with issue 7
		§4.4.3	Update of SRDB Export according to GS2.MN.ASD.SY.000995

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# 1. INTRODUCTION

## 1.1 Scope of the Document

In addition to the observation data, the S2 satellite provides **Ancillary Data** to support the on-ground image data processing. The following ancillary data are acquired on-board and transmitted by Sentinel-2:

- X-Band Ancillary data with
  - System Ancillary data
  - Compression Status
  - Image Ancillary data
- Satellite Ancillary data

This documents defines the content of each type of ancillary data.

## 1.2 References

### 1.2.1 Applicable Documents

#### Satellite

[AD-01]	Satellite to Ground Segment ICD	GS2.ICD.ASD.SY.00006
[AD-02]	Sentinel-2 Packet Utilization Standard	GS2.STD.ASD.SY.00001
[AD-03]	Satellite Assumptions for the Ground Segment	GS2.TN.ASD.SY.00032

#### MSI

[AD-10]	MSI Mission Data ICD	GS2.ICD.ASF.MSI.00008
[AD-11]	MSI Assumptions for the Ground Segment	GS2.TN.ASF.MSI.00074

#### GPSR

[AD-12]	Command and Housekeeping Interface Specification	S1-IF-AAE-SC-0001
[AD-13]	Measurement Data Interface Specification	S1-IF-AAE-SC-0002

#### Startracker

[AD-14]	Startracker PUS ICD	GS2.ICD.JOP.STR.02402
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#### Inertial Measurement Unit

[AD-15]	IMU ASTRIX TM/TC ICD	FOG.0.ICD.177.T.ASTR
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### 1.2.2 Reference Documents

#### Satellite

[RD-01]	Abbreviation List	GS2.LI.ASD.SY.00001
[RD-02]	Sentinel-2 On-Board Time Synchronization	GS2.TN.ASD.SY.00020

#### MSI

[RD-10]	MSI Software ICD	GS2.ICD.ASF.MSI.00004
[RD-11]	CSM operations synthesis	GS2.TN.ASF.MSI.00126

## 2. TERMS AND DEFINITION

In line with [AD 02], the following definitions apply:

### **Observation data**

All scientific data generated by the payload.

### **System Ancillary data**

Data generated on-board by the payload and the platform in support of the observation data, such as

- Scene start time
- Time correction value and the MSI On Board Time synchronization status
- System operation information, i.e.
  - o Observation Mode (Nominal or extended)
  - o Calibration Mode (Dark signal, absolute radiometry, vicarious)
  - o Raw Measurement Mode
  - o Test Mode.

### **Image Ancillary data**

Data generated on-board by the payload in support of the observation data, such as calibration, timing for each line acquisition, compression ratio, data validity flag (e.g. nominal SWIR detector temperature), needed to process the measurement data on ground.

### **Satellite Ancillary data**

Data acquired on-board by the satellite in support of the observation data, such as orbit position, velocity and time (generated by GPSR), attitude (generated by the AOCS sensors) needed to process measurement data on ground.

### 3. ANCILLARY DATA

The System- and Image-Ancillary Data are provided in the Data Field Header of the science X-Band TM Source Packets. All Satellite HK-TM is collected by the Central Software (CSW) and routed to the MMFU. The MMFU stores those data in the "HK-TM Data Store". The Satellite Ancillary Data, which is a sub-set of the Satellite HK-TM, are marked by PCAT = 6, 11, 12 and 13. They are stored additionally in the MMFU "Satellite Ancillary Data Store", which are down-linked by X-Band.

#### 3.1 Time Stamping of TM Source Packets

The On-Board time format is CUC (CCSDS Unsegmented Time Code) with Coarse Time (32 bits) representing the seconds and Fine Time (24 bits) representing the sub-seconds. It is maintained in the Central OBT (COBT) inside the OBC. The CSW synchronizes the COBT to GPS time within 1  $\mu$ s accuracy and distributes it to the units/instrument by MIL-Bus message and a correlation PPS-Signal.

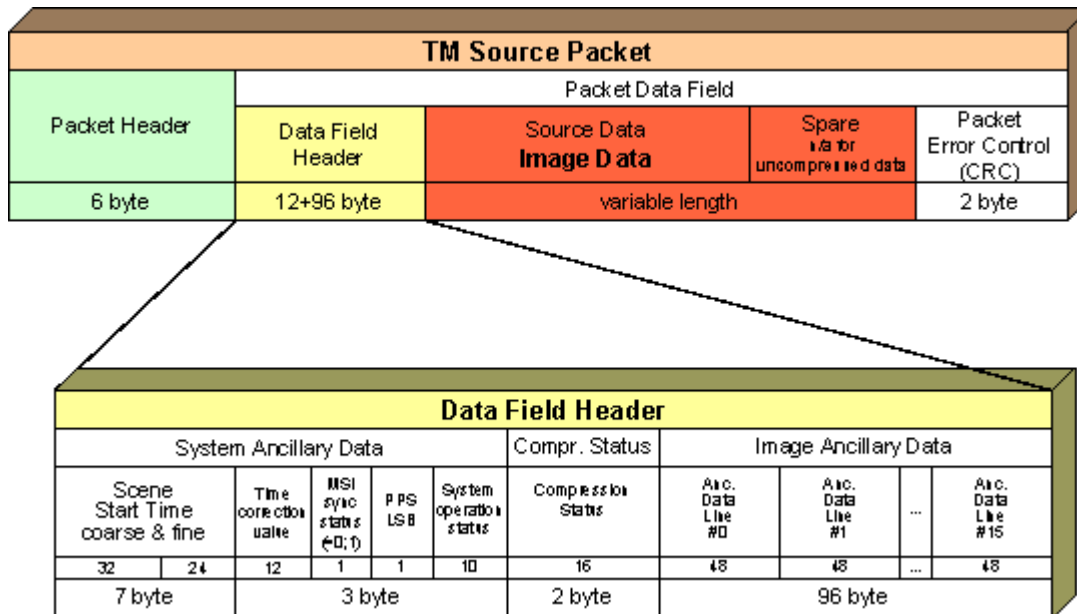
The PPS issued by the GPS receiver is synchronized to within 1  $\mu$ s of GPS time.

Each TM Packet is time stamped with the COBT:

- Science TM packets contain the time stamp as defined in the System Ancillary Data §3.2. All TM packets belonging to one scene are time stamped with the same time i.e. with the scene start time.
- Satellite HK-TM packets are time-stamped with the current time at packet generation. Details on time synchronization can be found in [RD-02].  
In general two type of time stamping exist:
  - directly by the Central Software (CSW) inside the OBC  
i.e. applicable to all TM packets generated from the CSW Datapool.
  - indirectly by the unit/instrument Local On-Board Time (LOBT), which is synchronized with the COBT.

## 3.2 X-Band Ancillary Data

The X-Band Ancillary Data are provided in the Data Field Header of the science X-Band TM Source Packets as shown below:



### 3.2.1 System Ancillary Data

The System Ancillary Data consists of the following elements.

- Scene Start Time coarse and fine:
- Time correction value:
- MSI synchronization status:
- PPS LSB:
- System operation status

Bits	Name	Remarks																																															
System Ancillary Data (SAD) 80 bit																																																	
0...55	Scene Start Time	CCSDS Unsegmented Time Code Coarse Time (seconds) ( 32 bits) CCSDS Unsegmented Time Code Fine Time (subseconds) ( 24 bits)																																															
0...31	CUC coarse time																																																
32...55	CUC fine time																																																
	Bit Position																																																
	Seconds																																																
		<table><tr><th colspan="10">Course Time</th><th colspan="5">Fine Time</th></tr><tr><th>0</th><th>1</th><th>2</th><th>3</th><th colspan="2">4...27</th><th>28</th><th>29</th><th>30</th><th>31</th><th>32</th><th>33</th><th colspan="2">34...53</th><th>54</th><th>55</th></tr><tr><td>2<sup>31</sup></td><td>2<sup>30</sup></td><td>2<sup>29</sup></td><td>2<sup>28</sup></td><td colspan="2">2<sup>27</sup> ... 2<sup>28</sup></td><td>2<sup>3</sup></td><td>2<sup>2</sup></td><td>2<sup>1</sup></td><td>2<sup>0</sup></td><td>2<sup>-1</sup></td><td>2<sup>-2</sup></td><td colspan="2">2<sup>-3</sup> ... 2<sup>-22</sup></td><td>2<sup>-23</sup></td><td>2<sup>-24</sup></td></tr></table>	Course Time										Fine Time					0	1	2	3	4...27		28	29	30	31	32	33	34...53		54	55	2 <sup>31</sup>	2 <sup>30</sup>	2 <sup>29</sup>	2 <sup>28</sup>	2 <sup>27</sup> ... 2 <sup>28</sup>		2 <sup>3</sup>	2 <sup>2</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>-1</sup>	2 <sup>-2</sup>	2 <sup>-3</sup> ... 2 <sup>-22</sup>		2 <sup>-23</sup>	2 <sup>-24</sup>
Course Time										Fine Time																																							
0	1	2	3	4...27		28	29	30	31	32	33	34...53		54	55																																		
2 <sup>31</sup>	2 <sup>30</sup>	2 <sup>29</sup>	2 <sup>28</sup>	2 <sup>27</sup> ... 2 <sup>28</sup>		2 <sup>3</sup>	2 <sup>2</sup>	2 <sup>1</sup>	2 <sup>0</sup>	2 <sup>-1</sup>	2 <sup>-2</sup>	2 <sup>-3</sup> ... 2 <sup>-22</sup>		2 <sup>-23</sup>	2 <sup>-24</sup>																																		
		Smallest time period: 0x0000.001 = 2 <sup>-24</sup> seconds ≈ 59.6 ns																																															
		Largest time: 0xFFFF.FFF = 2 <sup>32</sup> – 2 <sup>-24</sup> seconds ≈ 136 years																																															
56...67	Time Correction Value	It represents the MSI time deviation relating to PPS interval (12 bits) The Time Correction Value is defined as the difference between the clock count between two PPS pulses measured on VCU side and the nominal clock count between two PPS pulses. The resolution is 1 / 8.37 MHz = 119 ns. Number representation is done in two's complement.																																															
68...69	MSI Synchronization Status	Indicates the validity of the time data. 1 : VCU clock is synchronised 0 : VCU clock is not synchronised																																															
68	Time status flag (CLK_ASYNC)																																																
69	Time status flag PPS																																																
		Isb of coarse time of last time synchronisation message																																															
70...79	System Operation	Content defined by the system prime (10 bits) It will be commanded by TC and will be forwarded by the VCU without any modifications.																																															

### Scene Start Time coarse (32 bit) and fine (24 bit)

Consists of CCSDS Unsegmented Time Code Course Time (32 bits) representing the seconds and Fine Time (24 bits) representing the sub-seconds. This time is provided by the MSI-clock, which is synchronized to the Central OBT by the PPS. The Central OBT is synchronized to GPS system time with about 1  $\mu$ s accuracy.



### **System operation status (10 bit)**

The system operation status reports the following MSI stati:

<b>Mnemonic</b>	<b>Value [hex]</b>	<b>MSI Mode (10 bit)</b>
INS-NOBS	0x001	Nominal Observation Mode
INS-EOBS	0x002	Extended Observation Mode
INS-DASC	0x011	Dark Signal Calibration Mode
INS-ABSR	0x012	Absolute Radiometry Calibration Mode
INS-VIC	0x013	Vicarious Calibration Mode
INS-RAW	0x021	Raw Measurement Mode
INS-TST	0x022	Test Mode
<i>INS-DEC</i>	<i>-</i>	<i>Decontamination will not be reflected as a Mode The related MIS-Mode is INS-SBY</i>

Table 3.2-1: System Operation Status

### 3.2.2 Compression Status

The Compression Status in the Data Field Header of the X-Band TM Data Field Header consists of the following elements. The Compression Status as per [AD-10] Table3.4-6 is detailed as follows:

Bits	Name	Remarks
<b>Compression Status 16 bit</b>		
0...2	MODOP	Status of the current compression (3 bits) Compress and Output Image Data: "000"
3...5	reserved	"110"
6	BYPNUC	Non-Uniformity Correction Active: "0" Bypass: "1"
7...8	reserved	"10"
9	SSE	Strip Sequence Error No error: "0" Error: "1" Error detected during a strip. It indicates that the MCI ASIC was not able to finish all the operations to be performed during this strip. This error occurs when the operating frequency is too low according to the input data rate or the output data rate.
10	GPI(1)	Status General Purpose Input (1) The MCI ASIC has two General Purpose Input pins. The GPI(1) signal is available for any function. The detailed meaning of this status is described in [tbd].
11	Reserved	"0"
12...13	Reserved	"00"
14...15	WMODE	WICOM Mode (2 bits) Compression Mode: "11" Remark: The WICOM modes "OFF", "INIT", and "IDLE" are never seen during data transfer.

### 3.2.3 Image Ancillary Data (IAD)

Image Ancillary Data are generated on-board by the payload in support of the observation data, such as calibration, timing for each line acquisition, data validity flag (e.g. nominal SWIR detector temperature), needed to process the measurement data on ground.

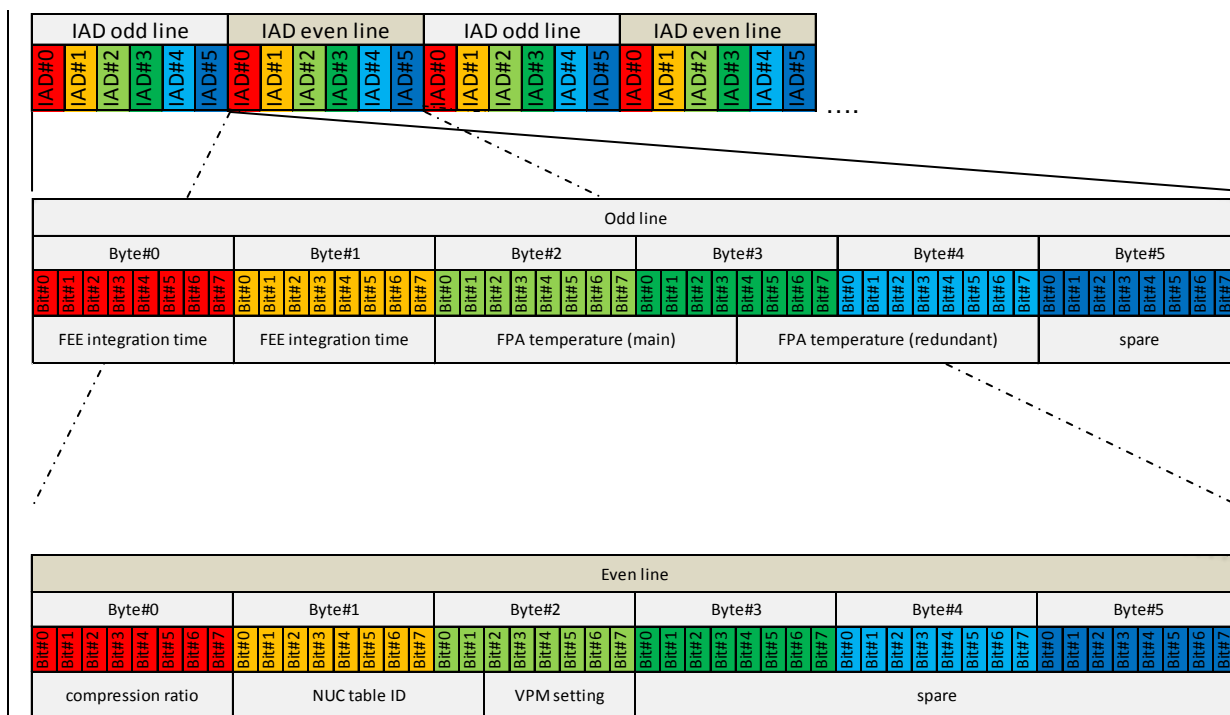
The IAD are transmitted in the Data Field Header of the science X-Band TM Source Packets. They are detailed as follows (as per [AD-10] Table3.4-7):

The IAD field is limited to 6 bytes per line and then to 96 bytes per strip transmission. The IAD implementation is described over 12 bytes. These data are repeated 8 times within the same strip.

The detailed definition of the 12 bytes is the following:

- Band integration time ( 8 bits )
- FEEM status ( 8 bits )
  - Error words coming from relevant FEEM by serial link
- FPA temperature ( 12 bits ), thermal control, relevant to the detector transmission VNIR or SWIR
- FPA temperature ( 12 bits ), monitoring, relevant to the detector transmission VNIR or SWIR
- Spare ( 8 bits )
- Band compression ratio ( 8 bits )
- NUC table ID ( 10 bits ) : it identifies the correction coefficient table used in-flight. This ID figure will be loaded by the platform
- VPM control ( 6 bits )
  - TDI mode
  - Test generator status
- Spare ( 24 bits )

IAD transmission principle for Compressed mode: IAD are transmitted within IAD field over 96 bytes. IAD data are scattered over a 12 bytes brick. This elementary brick is repeated 8 times over the strip.



Bits	Name	Remarks																																										
Instrument Ancillary Data (IAD, ODD lines) 8 x 48 bit																																												
0...7	INTTIME	<p>FEE Integration Time (8 bit)</p> <p>There are 13 different Integration Time values INTTIME0...INTTIME12. The values are unique for each band and correspond with the transmitted band number.</p> <p>The allowed range is</p> <table><tr><th>Integration Times</th><th>Band</th><th>8 bit coding</th></tr><tr><td>INTTIME0</td><td>B1</td><td>Ti min = 0,0496 msec / Ti max = 1,5158 msec</td></tr><tr><td>INTTIME1</td><td>B2</td><td>Ti min = 0,0496 msec / Ti max = 1,5158 msec</td></tr><tr><td>INTTIME2</td><td>B3</td><td>Ti min = 0,0496 msec / Ti max = 1,5158 msec</td></tr><tr><td>INTTIME3</td><td>B4</td><td>Ti min = 0,0496 msec / Ti max = 1,5158 msec</td></tr><tr><td>INTTIME4</td><td>B5</td><td>Ti min = 0,0496 msec / Ti max = 3,0819 msec</td></tr><tr><td>INTTIME5</td><td>B6</td><td>Ti min = 0,0496 msec / Ti max = 3,0819 msec</td></tr><tr><td>INTTIME6</td><td>B7</td><td>Ti min = 0,0496 msec / Ti max = 3,0819 msec</td></tr><tr><td>INTTIME7</td><td>B8</td><td>Ti min = 0,0496 msec / Ti max = 3,0819 msec</td></tr><tr><td>INTTIME8</td><td>B8a</td><td>Ti min = 0,0363 msec / Ti max = 9,3458 msec</td></tr><tr><td>INTTIME9</td><td>B9</td><td>Ti min = 0,0363 msec / Ti max = 9,3458 msec</td></tr><tr><td>INTTIME10</td><td>B10</td><td>Ti min = 0,19568 msec / Ti max = 9,3456 msec</td></tr><tr><td>INTTIME11</td><td>B11</td><td>Ti min = 0,0496 msec / Ti max = 2,9315 msec</td></tr><tr><td>INTTIME12</td><td>B12</td><td>Ti min = 0,0496 msec / Ti max = 2,9315 msec</td></tr></table>	Integration Times	Band	8 bit coding	INTTIME0	B1	Ti min = 0,0496 msec / Ti max = 1,5158 msec	INTTIME1	B2	Ti min = 0,0496 msec / Ti max = 1,5158 msec	INTTIME2	B3	Ti min = 0,0496 msec / Ti max = 1,5158 msec	INTTIME3	B4	Ti min = 0,0496 msec / Ti max = 1,5158 msec	INTTIME4	B5	Ti min = 0,0496 msec / Ti max = 3,0819 msec	INTTIME5	B6	Ti min = 0,0496 msec / Ti max = 3,0819 msec	INTTIME6	B7	Ti min = 0,0496 msec / Ti max = 3,0819 msec	INTTIME7	B8	Ti min = 0,0496 msec / Ti max = 3,0819 msec	INTTIME8	B8a	Ti min = 0,0363 msec / Ti max = 9,3458 msec	INTTIME9	B9	Ti min = 0,0363 msec / Ti max = 9,3458 msec	INTTIME10	B10	Ti min = 0,19568 msec / Ti max = 9,3456 msec	INTTIME11	B11	Ti min = 0,0496 msec / Ti max = 2,9315 msec	INTTIME12	B12	Ti min = 0,0496 msec / Ti max = 2,9315 msec
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INTTIME12	B12	Ti min = 0,0496 msec / Ti max = 2,9315 msec																																										
8...15	FEE health status	<p>FEEM health status (8 bit)</p> <p>There are 8 unique status values ( 1 per FEEM ). The value corresponds to the FEEM concerned by the detector number and the SWIR or VNIR type.</p> <p>Bit 15 : Parity Error bit</p> <p>Bit 14 : Stop bit Error bit</p> <p>Bit 13 : Time Out Error Bit</p> <p>Bit 11 : Latchup on the VDA voltage error bit (SWIR only)</p> <p>Bit 12 : Latchup on the VDD voltage error bit (SWIR only)</p> <p>Bit 10 : Latchup on the VDD0 voltage error bit</p> <p>Bit 9 : Tbd</p> <p>Bit 8 : Tbd</p>																																										
16...27	FPAT	<p>FPA Temperature (12 bit) / Thermal control</p> <p>There are 2 unique FPA Temperature values FPATM0, FPATM1 ( 1 for VNIR FPA, 1 for SWIR FPA ).</p> <p>The values corresponds to the FPA temperature provided by the thermistor used for the thermal control of the current detector type ( VNIR or SWIR )</p> <p>The allowed range is</p> <table><tr><th>Temperature</th><th>12 bit coding</th></tr><tr><td>VNIR</td><td>0 = 50°C up to 4095 = 0°C Temperature evolution over the range will be characterised by several linear parts.</td></tr><tr><td>SWIR</td><td>0 = -95°C up to 4095 = -70°C Temperature evolution over the range will be characterised by several linear parts.</td></tr></table>	Temperature	12 bit coding	VNIR	0 = 50°C up to 4095 = 0°C Temperature evolution over the range will be characterised by several linear parts.	SWIR	0 = -95°C up to 4095 = -70°C Temperature evolution over the range will be characterised by several linear parts.																																				
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28...39	FPAT	<p>FPA Temperature (12 bit) / Monitoring</p> <p>There are 2 unique FPA Temperature values FPATR0, FPATR1 ( 1 for VNIR FPA, 1 for SWIR FPA ).</p> <p>The values corresponds to the FPA temperature provided by the thermistor used for the monitoring of the current detector type ( VNIR or SWIR )</p> <p>The allowed range is</p> <table><tr><th>Temperature</th><th>12 bit coding</th></tr><tr><td>VNIR</td><td>0 = 50°C up to 4095 = 0°C Temperature evolution over the range will be characterised by several linear parts.</td></tr><tr><td>SWIR</td><td>0 = -95°C up to 4095 = -70°C Temperature evolution over the range will be characterised by several linear parts.</td></tr></table>	Temperature	12 bit coding	VNIR	0 = 50°C up to 4095 = 0°C Temperature evolution over the range will be characterised by several linear parts.	SWIR	0 = -95°C up to 4095 = -70°C Temperature evolution over the range will be characterised by several linear parts.																																				
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40...47	Spares	8 bit spares																																										

Bits	Name	Remarks												
<b>Instrument Ancillary Data (IAD, EVEN lines) 8 x 48 bit</b>														
0...7	CRATIO	Compression Ratio WICOM (8 bit) The values represent the programmed output rate defined in number of bits per pixel (BPP) of the corresponded band. The following formula are valid: $CRATIO = 25 \times BPP$ The allowed range is <table border="1"> <thead> <tr> <th>CRATIO</th><th>BPP</th><th>Remark</th></tr> </thead> <tbody> <tr> <td>0 to 7</td><td>Reserved</td><td>Reserved</td></tr> <tr> <td>8 to 150</td><td>0.32 to 6.00</td><td></td></tr> <tr> <td>151 to 255</td><td>Reserved</td><td>Reserved</td></tr> </tbody> </table> The value corresponds to the transmitted band number.	CRATIO	BPP	Remark	0 to 7	Reserved	Reserved	8 to 150	0.32 to 6.00		151 to 255	Reserved	Reserved
CRATIO	BPP	Remark												
0 to 7	Reserved	Reserved												
8 to 150	0.32 to 6.00													
151 to 255	Reserved	Reserved												
8...17	NUCTID	NUC Table ID ( 10 bit) This ID is uniform for all transmitted bands												
18...23	VPMSET	VPM settings (6 bits, 5 used)												
	18 : TMODE	Video Channel Source Select (1 bit) Channel connected to ADC: "0" Channel connected to Test Generator: "1"  Configurable for each Video Channel ( 48 unique values), value corresponds with transmitted band & detector												
	19 : SYNC	Test clock synchronisation to the sync of the 10m band (1bit) Free running : "0" Synchronized: "1"  Configurable for each VPM, value corresponds with transmitted band & detector												
	20 : NOISE	Noise Insertion in Test Mode (1 bit) Noise OFF: "0" PSR Noise ON: "1" Configurable for each VPM, value corresponds with transmitted band												
	21-22 : TDI/A/B	TDI mode (2 bits) TDI applied: "00" TDI not applied, Line A transmitted "01" TDI not applied, Line B transmitted "10" No TDI band "11"  There are 48 unique values : 1 per detector (12) and per TDI band (4)												
	23 : Spare	Spare bit												
24...47	Spares	24 bit spares												

### 3.3 Satellite Ancillary Data

Data acquired on-board by the satellite in support of the observation data, such as orbit position, velocity and time (generated by GNSS), attitude (generated by the AOCS sensors) needed to process measurement data on ground. Depending on timing constraints (NRT product or not), these data will be post-processed on-ground to improve the accuracy of orbit and attitude restitution.

The Satellite Ancillary Data are provided within the non-Science TM Source Packets via X-band. These data are collected from all units/instruments by the On-Board Computer (OBC) and routed to a dedicated Satellite Ancillary Data Store. All Satellite Ancillary are marked in the packet header by PCAT = 6, 11, 12 or 13.

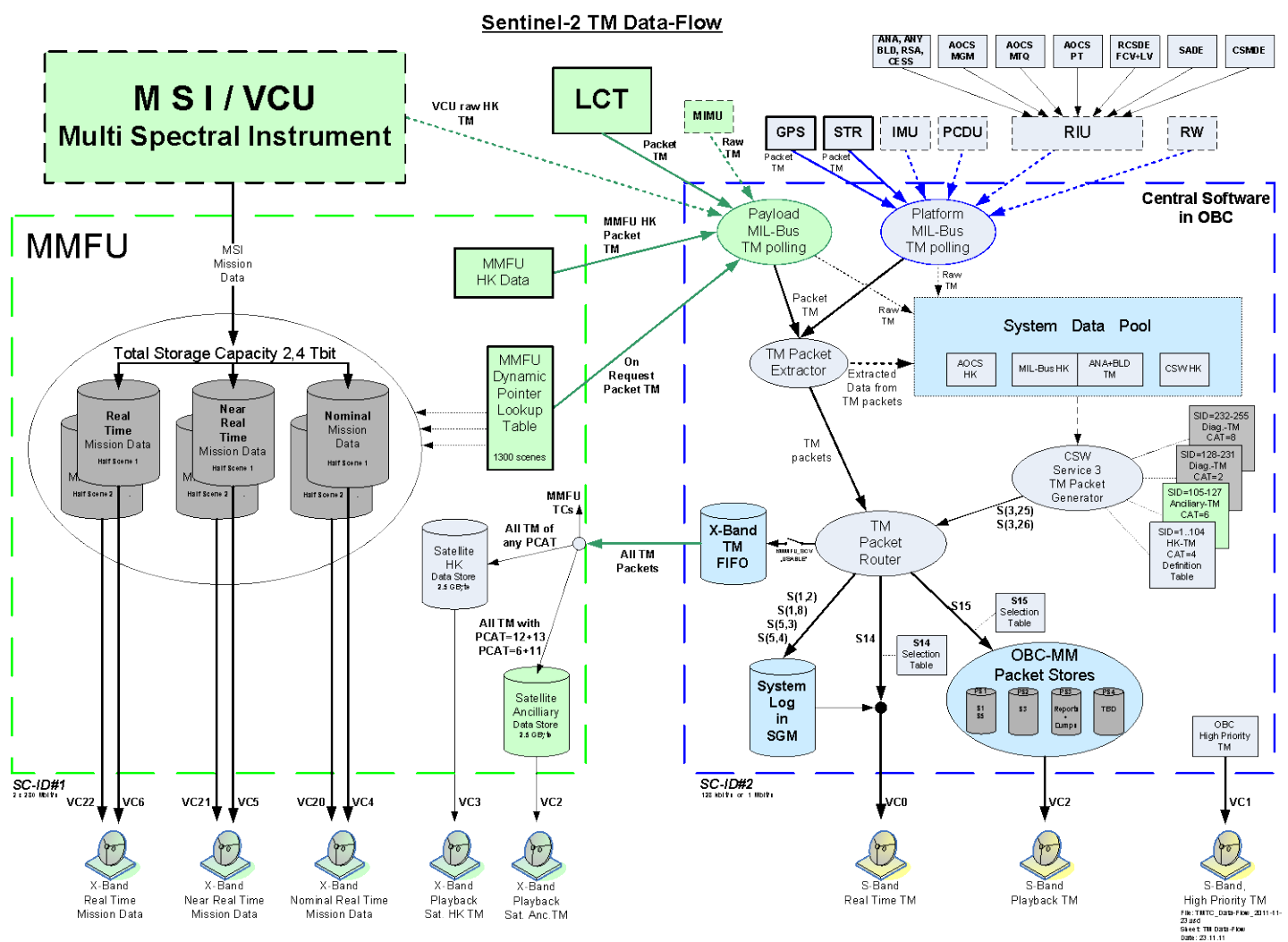


Figure 3.3-1 Sentinel-2 TM Data Flow with Satellite Ancillary Data Store

The Satellite Ancillary Data are composed by TM packets from the following units:

- GPS-Receiver
- Startracker
- Central Software with extracted data from the following sources:
  - AOCS Software attitude data (AOCS-TM1)
  - AOCS Software propagator data (AOCS-TM2)
  - Navigation Solution data from GPSR (AOCS-GPSR)
  - Time Correlation Parameter data from GPSR (AOCS-GPSR)
  - Inertial Measurement Unit data (AOCS-IMU)
  - Thermal Subsystem data (AOCS-THERM)

### 3.3.1 TM Packets from GPS-Receiver

The GPS-Receiver is redundant i.e. GPSR-A and GPSR-B. Both GPSRs generate the same packets, but with a different PRID. The following Satellite Ancillary Data packets are provided by the GPS-Receiver (GPSR). Details can be found in [AD-12] §4.2 Table 4-2 "PCAT Values Definition", [AD-13] , §5 "MEASUREMENT DATA" and in the SRDB.

GPSR TM Packets at **1 Hz** with the following parameters:

- Sentinel Auxiliary Data by Service(212, 1, **PRID=GPSR, SID=218, PCAT=6**)

GPSR TM Packets at **0.1 Hz** with the following parameters:

- Satellites in view status by Service(212, 1, **PRID=GPSR, SID=223, PCAT=6**)
- Carrier Phase measurements by Service(212, 1, **PRID=GPSR, SID 225, PCAT=6**)
- Carrier Amplitude by Service(212,1, **PRID=GPSR, SID 226, PCAT=6**)
- Code Phase measurements by Service(212, 1, **PRID=GPSR, SID 227, PCAT=6**)

GPSR TM Packets **event driven** with the following parameters:

- GPS NAV Almanac by Service(212, 1, **PRID=GPSR, SID 230, PCAT=13**)
- GPS NAV Ephemeris by Service(212, 1, **PRID=GPSR, SID 231, PCAT=13**)
- GPS NAV UTC and Ionosphere by Service(212, 1, **PRID=GPSR, SID 232, PCAT=13**)
- Constellation status by Service(212, 1, **PRID=GPSR, SID 229, PCAT=13**)

The following GPSR TM Packets are marked as Satellite Ancillary Data. They are only used for diagnostic purpose and therefore they are DISABLED:

- GPS Channel Status by Service(212, 1, **PRID=GPSR, SID 224, PCAT=12**)
- GPS Tracking State by Service(212, 1, **PRID=GPSR, SID 215, PCAT=12**)
- GPS Noise Histogram by Service(212, 1, **PRID=GPSR, SID 235, PCAT=12**)
- GPS AGC Status by Service(212, 1, **PRID=GPSR, SID 234, PCAT=13**)

Note: When enabling additional GPS packets, the overall bit rate needs to be respected to avoid delay or loss of GPS packets.

The following GPSR TM Packets have been added for completeness, but not for use. Since they are not applicable for Sentinel-2, they are always DISABLED:

- GPS **S1** Navigation Solution by Service(212, 1, **PRID=GPSR, SID 216, PCAT=11**)
- GPS **S1** IMT/GPST Correlation by Service(212, 1, **PRID=GPSR, SID 217, PCAT=11**)

Please refer to §3.4.3 "SRDB Export of Satellite Ancillary Data" for the structure and calibration of the Satellite Ancillary Data TM packets.



### 3.3.2 TM Packets from Startracker

3 Startrackers are mounted for Sentinel-2 i.e. STR-1, STR-2 and STR-3. They generate the same packets, but with a different PRID. The following Satellite Ancillary Data packets are provided by each of the three Startracker (STR), which are switched ON and in Tracking Mode. The STR TM packets are time stamped by STR itself, which is synchronized with the Central OBT. The content is according to STR PUS ICD [AD-14] §7.2.1, §7.2.3.

- TM\_ADB "Attitude Data Block" TM packet(3, 25, **PRID=STR, SID 105, PCAT=6**) at **10 Hz**
- TM\_TDB "Tracker Data Block" TM packet(3, 25, **PRID=STR, SID 106, PCAT=6**) **disabled, only available for diagnostic purposes**

Please refer to §3.4.3 "SRDB Export of Satellite Ancillary Data" for the structure and calibration of the Satellite Ancillary Data TM packets.

### 3.3.3 TM Packets from Central Software

The Central Software (CSW) stores its Satellite Housekeeping data in the System Datapool including the Satellite Ancillary Data.

Dedicated telemetry parameter are collected from the System Datapool and provided as Satellite Ancillary Data TM(3,25, PRID=AOCS, PCAT=6+12) on S-Band and X-Band. All those TM packet are time-stamped directly by the Central Software.

The ancillary data include the raw equipment measurement data and processed measurement data, namely estimated position, velocity, attitude, and rate. Measurement processing is part of the CSW-AOCS algorithm software.

The CSW-AOCS Software runs twice per second inside the OBC. The CSW-AOCS software includes an orbit propagator, which updates its states with the GPSR measurements whenever a new and valid solution is available. Position and velocity are transformed from WGS84 to geocentric J2000 considering precession, nutation, and Earth rotation (using UT1). Similarly a gyro stellar estimator processes STR and IMU measurements to determine the attitude of the satellite reference frame with respect to J2000.

The following chapters describe the designated Ancillary Data TM packet types.

### 3.3.3.1 CSW AOCS-TM1 Attitude Data

The following Satellite Ancillary Data "**Attitude Data**" packet is generated by the CSW-AOCS PRID:

- **AOCS-TM1(3,25,PRID=AOCS; SID=121; PCAT=6)**

This packet is generated at **2 Hz** by the CSW. It contains 5 attitude samples of the 10 Hz readout of the IMU. Please refer to §3.4.3 "SRDB Export of Satellite Ancillary Data" for the structure and calibration of the Satellite Ancillary Data TM packets.

### 3.3.3.2 CSW AOCS-TM2 Propagator Data

The following Satellite Ancillary Data "**Propagator Data**" packet is generated by AOCS-AOCS PRID:

- **AOCS-TM2(3,25,PRID=AOCS; SID=122; PCAT=6)**

This packet is generated at **1 Hz** by the CSW.

Please refer to §3.4.3 "SRDB Export of Satellite Ancillary Data" for the structure and calibration of the Satellite Ancillary Data TM packets.

### 3.3.3.3 CSW AOCS-GPSR Data

The CSW extracts for internal processing from the GPSR the packet data field source data of the following TM packets and stores them in the System Datapool:

- Navigation Solution Data Record TM(3,25; **PRID=GPSR; SID =213, PCAT=4**)
- Time Correlation Data Record TM(3,25; **PRID=GPSR; SID =214, PCAT=4**)

GPSR Navigation Solution and Time Correlation data are newly packed by the CSW and marked as Ancillary data as follows:

- **AOCS-GPSR A Navigation Solution** (3,25,PRID=AOCS; SID=105; PCAT=6) at 1 Hz
- **AOCS-GPSR A Time Correlation** (3,25,PRID=AOCS; SID=106; PCAT=6) at 1 Hz
- **AOCS-GPSR B Navigation Solution** (3,25,PRID=AOCS; SID=108; PCAT=6) at 1 Hz
- **AOCS-GPSR B Time Correlation** (3,25,PRID=AOCS; SID=109; PCAT=6) at 1 Hz

The **AOCS-GPSR Navigation Solution** and **Time Correlation** packets contain the data fields inline with the layout as described in [AD-12] §4.2 Table 4-2 "PCAT Values Definition", [AD-13] §5 "MEASUREMENT DATA".

Please refer to §3.4.3 "SRDB Export of Satellite Ancillary Data" for the structure and calibration of the Satellite Ancillary Data TM packets.

### 3.3.3.4 CSW AOCS-STR Data

The CSW extracts for internal processing from the STRs the packet data field source data of the following TM packets and stores them in the System Datapool:

- Attitude Data Block TM\_ADB TM(3,25; **PRID=STR; SID =105, PCAT=6**)
- Status and Health Data Block TM\_SDB TM(3,25; **PRID=STR; SID =1, PCAT=4**)

The original STR TM\_ADB packet is already marked as Ancillary data and therefore not repeated here. The related STR data are extracted by the CSW and processed by the AOCS-ALGO. The related result is presented in the **AOCS-TM1**.

The STR SDB packet is marked as PCAT=4 (HK) therefore not visible in the Ancillary data. The CSW extracts the data of this packet and generates a related ancillary data packet with PCAT=6. This packet is enabled by default at 1 Hz.

- **AOCS-STR1\_TM\_SDB(3,25, PRID=AOCS; SID=124; PCAT=6)** Enabled.
- **AOCS-STR2\_TM\_SDB(3,25, PRID=AOCS; SID=125; PCAT=6)** Enabled.
- **AOCS-STR3\_TM\_SDB(3,25, PRID=AOCS; SID=126; PCAT=6)** Enabled.

The **AOCS STR** data are inline with the layout as described in STR ICD [AD-14] §7.2.1, §7.2.3.

Please refer to §3.4.3 "SRDB Export of Satellite Ancillary Data" for the structure and calibration of the Satellite Ancillary Data TM packets.

### 3.3.3.5 CSW AOCS-IMU Data

The following Satellite Ancillary Data packets are collected from the 4 Inertial Measurement Unit Channels (IMU) and stored in the System Datapool. They are time stamped by the Central OBT with the 10PPS.

The **10 Hz IMU 1+2+3+4** data are packetized by the CSW and marked as Ancillary Data. The 10 different **AOCS-IMU** packets are generated at 1 Hz. They report the data of the 4 IMUs at each different 10PPS pulse i.e. at each 100 msec slot within one second:

- **AOCS-IMU1234S1**(3,25,PRID=AOCS; SID=111; PCAT=6) acquisition 1 @ PPS
- **AOCS-IMU1234S2**(3,25,PRID=AOCS; SID=112; PCAT=6) acquisition 2 @ PPS + 100 msec
- **AOCS-IMU1234S3**(3,25,PRID=AOCS; SID=113; PCAT=6) acquisition 3 @ PPS + 200 msec
- **AOCS-IMU1234S4**(3,25,PRID=AOCS; SID=114; PCAT=6) acquisition 4 @ PPS + 300 msec
- **AOCS-IMU1234S5**(3,25,PRID=AOCS; SID=115; PCAT=6) acquisition 5 @ PPS + 400 msec
- **AOCS-IMU1234S6**(3,25,PRID=AOCS; SID=116; PCAT=6) acquisition 6 @ PPS + 500 msec
- **AOCS-IMU1234S7**(3,25,PRID=AOCS; SID=117; PCAT=6) acquisition 7 @ PPS + 600 msec
- **AOCS-IMU1234S8**(3,25,PRID=AOCS; SID=118; PCAT=6) acquisition 8 @ PPS + 700 msec
- **AOCS-IMU1234S9**(3,25,PRID=AOCS; SID=119; PCAT=6) acquisition 9 @ PPS + 800 msec
- **AOCS-IMU1234S10**(3,25,PRID=AOCS; SID=120; PCAT=6) acquisition 10 @ PPS + 900 msec

The AOCS-IMU packets are only enabled if the IMU is ON. The **10 Hz** Data per IMU channel are defined by the so called Inertial Data as specified in [AD-15] §8.6.8 and are defined by the SRDB.

The AOCS-IMU1234 HK packet is only enabled if the IMUs are ON. The 1 Hz Data from each IMU channel are combined in one IMU HK packet as specified in [AD-15] §8.6.10 and are defined by the SRDB:

- **AOCS-IMU1234HK**(3,25,PRID=AOCS; SID=110; PCAT=6) acquisition @ 1Hz

The IMU TM data encoding is described in [AD-15] §6.1.2 related to ASTRIX 200.

Please refer to §3.4.3 "SRDB Export of Satellite Ancillary Data" for the structure and calibration of the Satellite Ancillary Data TM packets.

### 3.3.3.6 CSW MSI-SAD Packet

The following MSI Subsystem Satellite Ancillary Data packet is generated by the CSW. It is generated at 0.1 Hz and time stamped by the Central OBT.

- **MSI-SAD(3,25,PRID=MSIC; SID=123; PCAT=6)** is generated at **0.1 Hz** by the CSW

The **MSI-SAD** packet contains data with focus on the MSI temperatures derived from the MSI Thermal ICD GS2.ICD.ASF.MSI.00003 §11.5.1 and from the Sentinel-2 Thermal ICD GS2.ICD.ASD.SY.00017 Table 6.5-2 and the CSM position switch information.

The following two tables show the calibrated position switch telemetry acquired by the RIU for the four CSM position switches, i.e. external OPEN (SW\_OPEN), CAL (SW\_CAL) and CLOSE (SW\_CLS) reference switches as well as the internal switch on the CSM motor shaft (SW\_ACT\_CAL).

Table 3.3-1 presents the evaluated position switch readings and Table 3.3-2 the individual position switch readings. The latter allow to identify, if the CAL position has been achieved by nominal internal CAL position switch (nominal case) or the redundant switch (in case the nominal switches are inhibited). The tables also contain calibration information from the SRDB (please note that "HIGH" used in MSI documentation is translated to "0" (Rely\_SW\_Closed) for the actual RIU acquisition. Please note that the MSI SAD packet contains the CSM position switch telemetry parameters for acquisition by CSMDE A (rank 31) and CSMDE B (rank 32). The active CSMDE can be derived from the CSM\_SCV\_OP information included on rank 5 and 6.

Note: Focal Plane Assembly temperature information is provided twice i.e. in this packet and within the Image Ancillary Data as described in [AD-10] §3.2.3.

Please refer to §3.4.3 "SRDB Export of Satellite Ancillary Data" for the structure and calibration of the Satellite Ancillary Data TM packets.

Table 3.3-1: CSM evaluated position switch telemetry (SRDB parameters, calibrated) for all CSM door positions

Evaluated Position Switch Telemetry				
Switch Name	SW_OPN	SW_CLS	SW_CAL (external)	SW_ACT_CAL (internal on shaft)
HK-TM Parameter (CSMDE A)	JHTD6025	JHTD6024	JHTD6023	JHTD6022
HK-TM Parameter (CSMDE B)	JHTD6125	JHTD6124	JHTD6123	JHTD6122
CSM door position	Resulting Evaluated Position Switch Value			
<b>OPEN</b>	= 0 (Relay_SW_Closed)	= 1 (Relay_SW_OPEN)	= 1 (Relay_SW_OPEN)	No monitoring
<b>CLOSED</b>	= 1 (Relay_SW_OPEN)	= 0 (Relay_SW_Closed)	= 1 (Relay_SW_OPEN)	No monitoring
<b>CALIBRATION</b>	= 1 (Relay_SW_OPEN)	= 1 (Relay_SW_OPEN)	= 0 (Relay_SW_Closed)	= 0 (Relay_SW_Closed)



Table 3.3-2:CSM individual (nom+red) position switch telemetry (SRDB parameters, calibrated) for all CSM door positions (adapted from [RD 11])

		Individual Position Switch Telemetry								Motion stop
	CSM door position	SW_OPN_N	SW_OPN_R	SW_CLS_N	SW_CLS_R	SW_CAL_N	SW_CAL_R	SW_ACT_CAL_N	SW_ACT_CAL_R	
No switch failure	OPEN	JHTD6035 0	JHTD6034 1	JHTD6033 1	JHTD6032 1	JHTD6031 1	JHTD6030 1	JHTD6029 Undefined	JHTD6028 Undefined	SW_OPN_N triggered
	CLOSED	JHTD6135 1	JHTD6134 1	JHTD6133 1	JHTD6132 0	JHTD6131 1	JHTD6130 1	JHTD6129 Undefined	JHTD6128 Undefined	SW_CLS_R triggered
	CALIBRATION	1	1	1	1	0	0	0	1	SW_ACT_CAL_N triggered
All nominal switches inhibited	OPEN	N.A.	0	N.A.	1	N.A.	1	N.A.	Undefined	SW_OPN_R triggered
	CLOSED	N.A.	1	N.A.	0	N.A.	1	N.A.	Undefined	SW_CLS_R triggered
	CALIBRATION	N.A.	1	N.A.	1	N.A.	0	N.A.	0	SW_ACT_CAL_R triggered
All redundant switches inhibited	OPEN	0	N.A.	1	N.A.	1	N.A.	Undefined	N.A.	SW_OPN_N triggered
	CLOSED	1	N.A.	0	N.A.	1	N.A.	Undefined	N.A.	SW_CLS_N CW triggered
	CALIBRATION	1	N.A.	1	N.A.	0	N.A.	0	N.A.	SW_ACT_CAL_N triggered

SRDB-Calibration: 0: Relay\_SW\_Closed  
1: Relay\_SW\_OPEN

### 3.4 SRDB Export of Satellite Ancillary Data

In this chapter you find a Satellite Reference Database (SRDB) export of all Satellite Ancillary Data packets as listed below.

	PUS-Service	Generation Freq. [Hz]	Implemented in SRDB
<b>GPS-Receiver A</b>			
Sentinel Auxiliary Data	(212, 1, PRID=GPSR A, SID=218, PCAT=6)	1	GSY_SCI37120
Satellites in view status	(212, 1, PRID=GPSR A, SID=223, PCAT=6)	0.1	GSY_SCI37088
Carrier Phase measurements	(212, 1, PRID=GPSR A, SID 225, PCAT=6)	0.1	GSY_SCI37089
Carrier Amplitude	(212,1, PRID=GPSR A, SID 226, PCAT=6)	0.1	GSY_SCI37114
Code Phase measurements	(212, 1, PRID=GPSR A, SID 227, PCAT=6)	0.1	GSY_SCI37090
<b>- GPSR A TM Packets event driven:</b>			
GPS NAV Almanac	(212, 1, PRID=GPSR A, SID 230, PCAT=13)	event	GSY_SCI37117
GPS NAV Ephemeris	(212, 1, PRID=GPSR A, SID 231, PCAT=13)	event	GSY_SCI37118
GPS NAV UTC and Ionosphere	(212, 1, PRID=GPSR A, SID 232, PCAT=13)	event	GSY_SCI37119
Constellation status	(212, 1, PRID=GPSR A, SID 229, PCAT=13)	event	GSY_SCI37111
<b>- GPSR A Diagnostic TM DISABLED:</b>			
GPS Channel Status	(212, 1, PRID=GPSR A, SID 224, PCAT=12)	disabled	GSY_SCI37113
GPS Tracking State	(212, 1, PRID=GPSR A, SID 215, PCAT=12)	disabled	GSY_SCI37112
GPS Noise Histogram	(212, 1, PRID=GPSR A, SID 235, PCAT=12)	disabled	GSY_SCI37115
GPS AGC Status	(212, 1, PRID=GPSR A, SID 234, PCAT=13)	disabled	GSY_SCI37116
<b>GPS-Receiver B</b>			
Sentinel Auxiliary Data	(212, 1, PRID=GPSR B, SID=218, PCAT=6)	1	GSY_SCI37241
Satellites in view status	(212, 1, PRID=GPSR B, SID=223, PCAT=6)	0.1	GSY_SCI37209
Carrier Phase measurements	(212, 1, PRID=GPSR B, SID 225, PCAT=6)	0.1	GSY_SCI37210
Carrier Amplitude	(212,1, PRID=GPSR B, SID 226, PCAT=6)	0.1	GSY_SCI37235
Code Phase measurements	(212, 1, PRID=GPSR B, SID 227, PCAT=6)	0.1	GSY_SCI37211
<b>- GPSR B TM Packets event driven:</b>			
GPS NAV Almanac	(212, 1, PRID=GPSR B, SID 230, PCAT=13)	event	GSY_SCI37238
GPS NAV Ephemeris	(212, 1, PRID=GPSR B, SID 231, PCAT=13)	event	GSY_SCI37239
GPS NAV UTC and Ionosphere	(212, 1, PRID=GPSR B, SID 232, PCAT=13)	event	GSY_SCI37240
Constellation status	(212, 1, PRID=GPSR B, SID 229, PCAT=13)	event	GSY_SCI37237
<b>- GPSR B Diagnostic TM DISABLED:</b>			
GPS Channel Status	(212, 1, PRID=GPSR B, SID 224, PCAT=12)	disabled	GSY_SCI37234
GPS Tracking State	(212, 1, PRID=GPSR B, SID 215, PCAT=12)	disabled	GSY_SCI37233
GPS Noise Histogram	(212, 1, PRID=GPSR B, SID 235, PCAT=12)	disabled	GSY_SCI37236
GPS AGC Status	(212, 1, PRID=GPSR B, SID 234, PCAT=13)	disabled	GSY_SCI37237
<b>Startracker 1</b>			
TM_ADB "Attitude Data Block" TM packet	(3, 25, PRID=STR 1, SID 105, PCAT=6)	10	SSY_HK_35501
TM_TDB "Tracker Data Block" TM packet	(3, 25, PRID=STR 1, SID 106, PCAT=6)	disabled	SSY_HK_35503
<b>Startracker 2</b>			
TM_ADB "Attitude Data Block" TM packet	(3, 25, PRID=STR 2, SID 105, PCAT=6)	10	SSY_HK_35651
TM_TDB "Tracker Data Block" TM packet	(3, 25, PRID=STR 2, SID 106, PCAT=6)	disabled	SSY_HK_35653
<b>Startracker 3</b>			
TM_ADB "Attitude Data Block" TM packet	(3, 25, PRID=STR 3, SID 105, PCAT=6)	10	SSY_HK_35801
TM_TDB "Tracker Data Block" TM packet	(3, 25, PRID=STR 3, SID 106, PCAT=6)	disabled	SSY_HK_35803
<b>CSW AOCS TM Data</b>			

	PUS-Service	Generation Freq. [Hz]	Implemented in SRDB
CSW AOCS-TM1 Attitude Data	(3,25,PRID=AOCS; SID=121; PCAT=6)	2	ASY_ANC32121
CSW AOCS-TM2 Propagator Data	(3,25,PRID=AOCS; SID=122; PCAT=6)	1	ASY_ANC32122
<b>CSW AOCS-GPSR Data</b>			
AOCS-GPSR A Navigation Solution	(3,25,PRID=AOCS; SID=105; PCAT=6)	1	ASY_ANC32105
AOCS-GPSR A Time Correlation	(3,25,PRID=AOCS; SID=106; PCAT=6)	1	ASY_ANC32106
AOCS-GPSR B Navigation Solution	(3,25,PRID=AOCS; SID=108; PCAT=6)	1	ASY_ANC32108
AOCS-GPSR B Time Correlation	(3,25,PRID=AOCS; SID=109; PCAT=6)	1	ASY_ANC32109
<b>CSW AOCS-STR Data</b>			
AOCS-STR1_TM_SDB	(3,25, PRID=AOCS; SID=124; PCAT=6)	1	ASY_ANC32124
AOCS-STR2_TM_SDB	(3,25, PRID=AOCS; SID=125; PCAT=6)	1	ASY_ANC32125
AOCS-STR3_TM_SDB	(3,25, PRID=AOCS; SID=126; PCAT=6)	1	ASY_ANC32126
<b>CSW AOCS-IMU Data</b>			
AOCS-IMU1234HK	(3,25,PRID=AOCS; SID=110; PCAT=6)	1	ASY_ANC32110
AOCS-IMU1234S1	(3,25,PRID=AOCS; SID=111; PCAT=6)	1	ASY_ANC32111
AOCS-IMU1234S2	(3,25,PRID=AOCS; SID=112; PCAT=6)	1	ASY_ANC32112
AOCS-IMU1234S3	(3,25,PRID=AOCS; SID=113; PCAT=6)	1	ASY_ANC32113
AOCS-IMU1234S4	(3,25,PRID=AOCS; SID=114; PCAT=6)	1	ASY_ANC32114
AOCS-IMU1234S5	(3,25,PRID=AOCS; SID=115; PCAT=6)	1	ASY_ANC32115
AOCS-IMU1234S6	(3,25,PRID=AOCS; SID=116; PCAT=6)	1	ASY_ANC32116
AOCS-IMU1234S7	(3,25,PRID=AOCS; SID=117; PCAT=6)	1	ASY_ANC32117
AOCS-IMU1234S8	(3,25,PRID=AOCS; SID=118; PCAT=6)	1	ASY_ANC32118
AOCS-IMU1234S9	(3,25,PRID=AOCS; SID=119; PCAT=6)	1	ASY_ANC32119
AOCS-IMU1234S10	(3,25,PRID=AOCS; SID=120; PCAT=6)	1	ASY_ANC32120
<b>CSW MSI-SAD Packet</b>			
MSI-SAD (Mode and temperatures)	(3,25,PRID=MSIC; SID=123; PCAT=6)	0.1	CJY_ANC17123

**Note:**

The status of the packets (enabled or disabled) in above table refers to the status during nominal operational mode. It should be noted that the status given in the SRDB extract refers to the status during SW start up, where some of the packets are enabled by default and others are disabled because the related units (e.g. VCU and GPSR) are switched off. The packets disabled at start up (AOCS-GPSR A and B and the MSI SAD packet) will be enabled when the unit is switched on. Therefore the status given in above table and in the related SRDB extract are not always identical.

### 3.4.1 Legend of SRDB Export

This is the legend of the Satellite Reference Database (SRDB) export of all Satellite Ancillary Data packets.

Short Name	Definition
PID	Process ID
Rank	Sequential Number
DataIn	Datation: has the TM Packet a Datation
PCAT	PUS Packet Category
APID	Application Process Identifier (=16*PID + PCAT)
Serv	PUS Service Number
Subserv	PUS Subservice Number
Len[By]	Length of Packet in Bytes
Variab	Variability (set to "fixed" for TM(3,25))
Discim 1	Discriminant 1 Parameter
SID	PUS Structure Identifier
PID_Inter	Packet Generation Interval in [ms]
PID_Valid	Packet Validity
SPID	SCOS-2000 TM Packet Number
Gen_Stat	Packet Generation Status
Pos	Start Position of TM Parameter in Byte or Bit
Len[bit]	Length of Parameter in Bit
Code	Coding of Parameter
Type	Physical Type of Parameter
Cal.	Calibration Curve Reference

### **3.4.2 Comparison of SRDB Export of issue 8 with issue 7**

This annex contains a PDF comparison between the present issue w.r.t. issue7.

Summary  
11.02.2013 16:25:25

Differences exist between documents.

**New Document:**

[ASY\\_ANC32105](#)

2 pages (33 KB)

11.02.2013 16:25:23

Used to display results.

**Old Document:**

[ASY\\_ANC32105](#)

3 pages (36 KB)

11.02.2013 16:25:23

[Get started: first change is on page 1.](#)

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2\_77  
Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32105	GPSRA Navigation Solution (GPSR-SID=213)	3	25	11	6	182	Y	121	FIXED	AST00032	105	10000	Y	32105	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	AST08004	GPSA_NAVSOL_ACQ	GPSA_NAVIGATION_SOL_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	AST08005	GPSA_NAVSOL_VAL	GPSA_NAVIGATION_SOL_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	AST08093	GPSA_NS_TS_COAR	GPSA_NAV_SOL_TS_COARSE	UINT	INTEGER	Z_IDS
5	7	32	ASTG8091	GPSA_NS_TS_FINE	GPSA_NAV_SOL_TS_FINE			
	0	24	ASTD8092	GPSA_NS_TSF_SSEC	Fine_Time	UINT	INTEGER	Z_IDSM24
	27	1	ASTD8093	GPSA_NS_TSF_TYPE	Time_Type	UINT	STRING	CSKT0120TM
	28	1	ASTD8094	GPSA_NS_TSF_SSRC	Sync_Source	UINT	STRING	CSKT0121TM
	29	1	ASTD8095	GPSA_NS_TSF_SMET	Sync_Method	UINT	STRING	CSKT0122TM
	30	1	ASTD8096	GPSA_NS_TSF_SSTS	Sync_Status	UINT	STRING	CSKT0123TM
	31	1	ASTD8097	GPSA_NS_TSF_SYNC	Sync_Enable_Disable	UINT	STRING	CSKT0124TM
6	11	32	GST01640	GPST_SEC	seconds	UINT	INTEGER	Z_IDS
7	15	32	GST01641	GPST_SUBSEC	fractions_of_a_second	UINT	INTEGER	GSKP0048TM
8	19	16	AST08011	NU3_NSM_QUALIN	NU3_NSM_QUALIN / GPSA_NAVIGATION_SOL_WORD_04			
	0	1	ASTD1642	N_U_3	not_used** Duplicated from GST01642 **	UINT	INTEGER	Z_IDENTITY
	1	3	ASTD1643	NSM	Navigation_solution_method** Duplicated from GST01643 **	UINT	STRING	GSKT0204TM
	4	12	ASTD1644	QUAL_INDEX	Quality_index - related to GPS position accuracy	UINT	INTEGER	Z_IDM
9	21	16	GST01645	GDOP	Geometrical_dilution_of_precision	UINT	INTEGER	GSKP0205TM
10	23	16	AST08013	MAXURA_MAXFIT_NU	MAXURA_MAXFIT_NU4_NOFSV / GPSA_NAVIGATION_SOL_WORD_06			
	0	5	ASTD1646	MAX_URA	maximum_user_range_accuracy** Duplicated from GST01646 **	SINT	INTEGER	Z_IDENTITY
	5	4	ASTD1647	MAX_FIT	maximum_curve_fit_interval_taken_from_all_SV_B4_s_use d_in_current_navigation_solution** Duplicated from GST01647 **	UINT	STRING	GSKT0206TM
	9	3	ASTD1648	N_U_4	not_used** Duplicated from GST01648 **	UINT	INTEGER	Z_IDENTITY
	12	4	ASTD1649	NOF_SV	Nof_SVs_contributing_to_the_nav_solution** Duplicated from GST01649 **	UINT	INTEGER	Z_IDENTITY
11	25	32	GST0164A	POS_X_MSB	X_2D_coordinate_MSB_part	SINT	INTEGER	GSKP0207TM
12	29	16	GST0164B	POS_X_LSB	X_2D_coordinate_LSB_part	UINT	INTEGER	Z_IDMM
13	31	32	GST0164C	POS_Y_MSB	Y_2D_coordinate_MSB_part	SINT	INTEGER	GSKP0207TM
14	35	16	GST0164D	POS_Y_LSB	Y_2D_coordinate_LSB_part	UINT	INTEGER	Z_IDMM



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 2 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32105	GPSRA Navigation Solution (GPSR-SID=213)	3	25	11	6	182	Y	121	FIXED	AST00032	105	10000	Y	32105	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
15	37	32	GST0164E	POS_Z_MSB	Z_2D_coordinate_MSB_part	SINT	INTEGER	GSKP0207TM
16	41	16	GST0164F	POS_Z_LSB	Z_2D_coordinate_LSB_part	UINT	INTEGER	Z_IDMM
17	43	32	GST01650	VEL_X	X_2D_velocity	SINT	INTEGER	GSKP0049TM
18	47	32	GST01651	VEL_Y	Y_2D_velocity	SINT	INTEGER	GSKP0049TM
19	51	32	GST01652	VEL_Z	Z_2D_velocity	SINT	INTEGER	GSKP0049TM
20	55	16	GST01653	PDOP	position_dilution_of_precision	UINT	INTEGER	GSKP0205TM
21	57	16	GST01654	TDOP	time_dilution_of_precision	UINT	INTEGER	GSKP0205TM
22	59	32	GST01655	delta_x	position_error_in_x_direction	SINT	INTEGER	GSKP0207TM
23	63	32	GST01656	delta_y	position_error_in_y_direction	SINT	INTEGER	GSKP0207TM
24	67	32	GST01657	delta_z	position_error_in_z_direction	SINT	INTEGER	GSKP0207TM
25	71	32	GST01658	delta_t	GNSS_system_time_error	SINT	INTEGER	Z_IDNS
26	75	32	GST01659	delta_v_x	velocity_error_in_x_direction	SINT	INTEGER	GSKP0049TM
27	79	32	GST0165A	delta_v_y	velocity_error_in_y_direction	SINT	INTEGER	GSKP0049TM
28	83	32	GST0165B	delta_v_z	velocity_error_in_z_direction	SINT	INTEGER	GSKP0049TM
29	87	32	GST0165C	delta_f	receiver_clock_frequency_error	SINT	INTEGER	GSKP0208TM
30	91	32	GST0165D	HEIGHT	height_above_ellipsoid	UINT	INTEGER	GSKP0346TM
31	95	32	GST0165E	VERTSPEED	vertical_speed	SINT	INTEGER	GSKP0209TM
32	99	32	GST0165F	LONGITUDE	longitude	SINT	INTEGER	GSKP0210TM
33	103	32	GST01660	LATITUDE	latitude	SINT	INTEGER	GSKP0211TM



Summary  
11.02.2013 15:57:21

Differences exist between documents.

**New Document:**

[ASY\\_ANC32105\\_TextualCalibration](#)

2 pages (18 KB)

11.02.2013 15:57:19

Used to display results.

**Old Document:**

[ASY\\_ANC32105\\_TextualCalibration](#)

1 pages (16 KB)

11.02.2013 15:57:19


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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 1 of 2

Name: ASKT2101TM Descr: ACQ\_STATUS Referenced by: AST08004 GPSA\_NAVSOL\_ACQ

From	To	Text
0		NOT_ACQUIRED
1		ACQ_FAILED
2		ACQUIRED

Name: ASKT2102TM Descr: ACQ\_VALID\_FLAG Referenced by: AST08005 GPSA\_NAVSOL\_VAL

From	To	Text
0		INVALID
1		VALID

Name: CSKT0120TM Descr: DMS SCET\_OBT Referenced by: ASTD8093 GPSA\_NS\_TSF\_TYPE

From	To	Text
0		SCET
1		OBT

Name: CSKT0121TM Descr: DMS Internal\_External Referenced by: ASTD8094 GPSA\_NS\_TSF\_SSRC

From	To	Text
0		INTERNAL
1		EXTERNAL

Name: CSKT0122TM Descr: DMS MajFrame\_PPS Referenced by: ASTD8095 GPSA\_NS\_TSF\_SMET

From	To	Text
0		MIL
1		PPS

Name: CSKT0123TM Descr: DMS NoSync\_InSync Referenced by: ASTD8096 GPSA\_NS\_TSF\_SSTS

From	To	Text
0		NO_SYNC
1		IN_SYNC

Name: CSKT0124TM Descr: DMS Disabled\_Enabled Referenced by: ASTD8097 GPSA\_NS\_TSF\_SYNC

From	To	Text
0		DISABLED
1		ENABLED



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 2 of 2

Name: GSKT0204TM Descr: NSM

Referenced by:  
ASTD1643 NSM

From	To	Text
1		PROPAGATED
2		FIRST_FIX
3		COLD_FIRST_FIX
4		LEAST_SQUARE
5		KALMAN_FILTER
7		INVALID

Name: GSKT0206TM Descr: MAX\_FIT

Referenced by:  
ASTD1647 MAX\_FIT

From	To	Text
0		4_H
1		6_H
2		8_H
3		14_H
4		26_H
5		50_H
6		74_H
7		98_H
8		122_H
9		146_H
15		PROPAGATED_PVT

Summary  
11.02.2013 16:26:52

Differences exist between documents.

**New Document:**

[ASY\\_ANC32106](#)

2 pages (32 KB)

11.02.2013 16:26:50

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**Old Document:**

[ASY\\_ANC32106](#)

2 pages (32 KB)

11.02.2013 16:26:50


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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32106	GPSRA Time Correlation (GPSR-SID=214)	3	25	11	6	182	Y	53	FIXED	AST00032	106	10000	Y	32106	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	AST08057	GPSA_TCORR_ACQ	GPSA_TIME_CORRELATION_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	AST08058	GPSA_TCORR_VAL	GPSA_TIME_CORRELATION_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	AST08100	GPSA_TC_TS_COAR	GPSA_TIME_CORR_TS_COARSE	UINT	INTEGER	Z_IDS
5	7	32	ASTG8101	GPSA_TC_TS_FINE	GPSA_TIME_CORR_TS_FINE			
	0	24	ASTD8102	GPSA_TC_TSF_SSEC	Fine_Time	UINT	INTEGER	Z_IDSM24
	27	1	ASTD8103	GPSA_TC_TSF_TYPE	Time_Type	UINT	STRING	CSKT0120TM
	28	1	ASTD8104	GPSA_TC_TSF_SSRC	Sync_Source	UINT	STRING	CSKT0121TM
	29	1	ASTD8105	GPSA_TC_TSF_SMET	Sync_Method	UINT	STRING	CSKT0122TM
	30	1	ASTD8106	GPSA_TC_TSF_SSTS	Sync_Status	UINT	STRING	CSKT0123TM
	31	1	ASTD8107	GPSA_TC_TSF_SYNC	Sync_Enable_Disable	UINT	STRING	CSKT0124TM
6	11	16	AST08060	NU2_NSM_QUALID	NU2_NSM_QUALID / GPSA_TIME_CORRELATION_WORD_00			
	0	1	ASTD167C	N_U_2	not_used** Duplicated from GST0167C **	UINT	INTEGER	Z_IDENTITY
	1	3	ASTD167D	NSM	navigation_solution_method** Duplicated from GST0167D **	UINT	STRING	GSKT0212TM
	4	12	ASTD167E	QUAL_IDX	Quality_index** Duplicated from GST0167E **	UINT	INTEGER	Z_IDNSOM
7	13	16	AST08061	TDOP	Time_dilution_of_precision / GPSA_TIME_CORRELATION_WORD_01	UINT	INTEGER	Z_IDENTITY
8	15	16	AST08062	IMT_MSB_1	Instrument_Measurement_Time_tag_MSB_part_1 / GPSA_TIME_CORRELATION_WORD_02	UINT	INTEGER	Z_IDENTITY
9	17	16	AST08063	IMT_MSB_2	Instrument_Measurement_Time_tag_MSB_part_2 / GPSA_TIME_CORRELATION_WORD_03	UINT	INTEGER	Z_IDENTITY
10	19	16	AST08064	IMT_LSB_1	Instrument_Measurement_Time_tag_LSB_part_1 / GPSA_TIME_CORRELATION_WORD_04	UINT	INTEGER	Z_IDENTITY
11	21	16	AST08065	IMT_LSB_2	Instrument_Measurement_Time_tag_LSB_part_2 / GPSA_TIME_CORRELATION_WORD_05	UINT	INTEGER	Z_IDENTITY
12	23	16	AST08066	GPST_SEC_1	seconds_1 / GPSA_TIME_CORRELATION_WORD_06	UINT	INTEGER	Z_IDENTITY
13	25	16	AST08067	GPST_SEC_2	seconds_2 / GPSA_TIME_CORRELATION_WORD_07	UINT	INTEGER	Z_IDENTITY
14	27	16	AST08068	GPST_SUBSEC_1	fractions_of_a_second_1 / GPSA_TIME_CORRELATION_WORD_08	UINT	INTEGER	Z_IDENTITY
15	29	16	AST08069	GPST_SUBSEC_2	fractions_of_a_second_2 / GPSA_TIME_CORRELATION_WORD_09	UINT	INTEGER	Z_IDENTITY
16	31	16	AST08070	UTC_DAYS	UTC_Time_Days_part / GPSA_TIME_CORRELATION_WORD_10	UINT	INTEGER	Z_IDENTITY
17	33	16	AST08071	UTC_MSEC_1	UTC_Time_MSEC_part_1 /	UINT	INTEGER	Z_IDENTITY



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2, 77  
Page: 2 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32106	GPSRA Time Correlation (GPSR-SID=214)	3	25	11	6	182	Y	53	FIXED	AST00032	106	10000	Y	32106	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
18	35	16	AST08072	UTC_MSEC_2	GPSA_TIME_CORRELATION_WORD_11 UTC_Time_MSEC_part_2 / GPSA_TIME_CORRELATION_WORD_12	UINT	INTEGER	Z_IDENTITY
19	37	16	AST08073	UTC_USEC	UTC_Time_USEC_part / GPSA_TIME_CORRELATION_WORD_13	UINT	INTEGER	Z_IDENTITY

Summary  
11.02.2013 15:59:53

Differences exist between documents.

**New Document:**

[ASY\\_ANC32106\\_TextualCalibration](#)

2 pages (17 KB)

11.02.2013 15:59:51

Used to display results.

**Old Document:**

[ASY\\_ANC32106\\_TextualCalibration](#)

1 pages (16 KB)

11.02.2013 15:59:51


[Get started: first change is on page 1.](#)

No pages were deleted

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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2, 77  
Page: 1 of 2

Name: ASKT2101TM Descr: ACQ\_STATUS

Referenced by:

AST08057 GPSA\_TCORR\_ACQ

From	To	Text
0		NOT_ACQUIRED
1		ACQ_FAILED
2		ACQUIRED

Name: ASKT2102TM Descr: ACQ\_VALID\_FLAG

Referenced by:

AST08058 GPSA\_TCORR\_VAL

From	To	Text
0		INVALID
1		VALID

Name: CSKT0120TM Descr: DMS SCET\_OBT

Referenced by:

ASTD8103 GPSA\_TC\_TSF\_TYPE

From	To	Text
0		SCET
1		OBT

Name: CSKT0121TM Descr: DMS Internal\_External

Referenced by:

ASTD8104 GPSA\_TC\_TSF\_SSRC

From	To	Text
0		INTERNAL
1		EXTERNAL

Name: CSKT0122TM Descr: DMS MajFrame\_PPS

Referenced by:

ASTD8105 GPSA\_TC\_TSF\_SMET

From	To	Text
0		MIL
1		PPS

Name: CSKT0123TM Descr: DMS NoSync\_InSync

Referenced by:

ASTD8106 GPSA\_TC\_TSF\_SSTS

From	To	Text
0		NO_SYNC
1		IN_SYNC

Name: CSKT0124TM Descr: DMS Disabled\_Enabled

Referenced by:

ASTD8107 GPSA\_TC\_TSF\_SYNC

From	To	Text
0		DISABLED
1		ENABLED





Sentinel-2  
SRDB Database Extract  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 2 of 2

Name: GSKT0212TM Descr: NSM

Referenced by:  
ASTD167D NSM

From To Text

1 PROPAGATED

2 FIRST\_FIX

3 COLD\_FIRST\_FIX

4 LEAST\_SQUARE

5 KALMAN\_FILTER

7 INVALID

Summary  
11.02.2013 16:27:31

Differences exist between documents.

**New Document:**

[ASY\\_ANC32108](#)

2 pages (33 KB)

11.02.2013 16:27:29

Used to display results.

**Old Document:**

[ASY\\_ANC32108](#)

3 pages (36 KB)

11.02.2013 16:27:28


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No pages were deleted

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2\_77  
Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32108	GPSRB Navigation Solution (GPSR-SID=213)	3	25	11	6	182	Y	121	FIXED	AST00032	108	10000	Y	32108	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	AST18004	GPB_NAVSOL_ACQ	GPB_NAVIGATION_SOL_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	AST18005	GPB_NAVSOL_VAL	GPB_NAVIGATION_SOL_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	AST18093	GPB_NS_TS_COAR	GPB_NAV_SOL_TS_COARSE	UINT	INTEGER	Z_IDS
5	7	32	ASTK8091	GPB_NS_TS_FINE	GPB_NAV_SOL_TS_FINE			
	0	24	ASTT8092	GPB_NS_TSF_SSEC	Fine_Time	UINT	INTEGER	Z_IDSM24
	27	1	ASTT8093	GPB_NS_TSF_TYPE	Time_Type	UINT	STRING	CSKT0120TM
	28	1	ASTT8094	GPB_NS_TSF_SSRC	Sync_Source	UINT	STRING	CSKT0121TM
	29	1	ASTT8095	GPB_NS_TSF_SMET	Sync_Method	UINT	STRING	CSKT0122TM
	30	1	ASTT8096	GPB_NS_TSF_SSTS	Sync_Status	UINT	STRING	CSKT0123TM
	31	1	ASTT8097	GPB_NS_TSF_SYNC	Sync_Enable_Disable	UINT	STRING	CSKT0124TM
6	11	32	GST0B5CF	GPST_SEC	seconds	UINT	INTEGER	Z_IDS
7	15	32	GST0B5D0	GPST_SUBSEC	fractions_of_a_second	UINT	INTEGER	GSKP0048TM
8	19	16	AST18011	NU3_NSM_QUALIN	NU3_NSM_QUALIN / GPB_NAVIGATION_SOL_WORD_04			
	0	1	ASTDB5D1	N_U_3	not_used** Duplicated from GST0B5D1 **	UINT	INTEGER	Z_IDENTITY
	1	3	ASTDB5D2	NSM	Navigation_solution_method** Duplicated from GST0B5D2 **	UINT	STRING	GSKT0204TM
	4	12	ASTDB5D3	QUAL_INDEX	Quality_index - related to GPS position accuracy	UINT	INTEGER	Z_IDM
9	21	16	GST0B5D4	GDOP	Geometrical_dilution_of_precision	UINT	INTEGER	GSKP0205TM
10	23	16	AST18013	MAXURA_MAXFIT_NU	MAXURA_MAXFIT_NU4_NOFSV / GPB_NAVIGATION_SOL_WORD_06			
	0	5	ASTDB5D5	MAX_URA	maximum_user_range_accuracy** Duplicated from GST0B5D5 **	SINT	INTEGER	Z_IDENTITY
	5	4	ASTDB5D6	MAX_FIT	maximum_curve_fit_interval_taken_from_all_SV_B4_s_use d_in_current_navigation_solution** Duplicated from GST0B5D6 **	UINT	STRING	GSKT0206TM
	9	3	ASTDB5D7	N_U_4	not_used** Duplicated from GST0B5D7 **	UINT	INTEGER	Z_IDENTITY
	12	4	ASTDB5D8	NOF_SV	Nof_SVs_contributing_to_the_nav_solution** Duplicated from GST0B5D8 **	UINT	INTEGER	Z_IDENTITY
11	25	32	GST0B5D9	POS_X_MSB	X_2D_coordinate_MSB_part	SINT	INTEGER	GSKP0207TM
12	29	16	GST0B5DA	POS_X_LSB	X_2D_coordinate_LSB_part	UINT	INTEGER	Z_IDMM
13	31	32	GST0B5DB	POS_Y_MSB	Y_2D_coordinate_MSB_part	SINT	INTEGER	GSKP0207TM
14	35	16	GST0B5DC	POS_Y_LSB	Y_2D_coordinate_LSB_part	UINT	INTEGER	Z_IDMM



# Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 2 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32108	GPSRB Navigation Solution (GPSR-SID=213)	3	25	11	6	182	Y	121	FIXED	AST00032	108	10000	Y	32108	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
15	37	32	GST0B5DD	POS_Z_MSB	Z_2D_coordinate_MSB_part	SINT	INTEGER	GSKP0207TM
16	41	16	GST0B5DE	POS_Z_LSB	Z_2D_coordinate_LSB_part	UINT	INTEGER	Z_IDMM
17	43	32	GST0B5DF	VEL_X	X_2D_velocity	SINT	INTEGER	GSKP0049TM
18	47	32	GST0B5E0	VEL_Y	Y_2D_velocity	SINT	INTEGER	GSKP0049TM
19	51	32	GST0B5E1	VEL_Z	Z_2D_velocity	SINT	INTEGER	GSKP0049TM
20	55	16	GST0B5E2	PDOP	position_dilution_of_precision	UINT	INTEGER	GSKP0205TM
21	57	16	GST0B5E3	TDOP	time_dilution_of_precision	UINT	INTEGER	GSKP0205TM
22	59	32	GST0B5E4	delta_x	position_error_in_x_direction	SINT	INTEGER	GSKP0207TM
23	63	32	GST0B5E5	delta_y	position_error_in_y_direction	SINT	INTEGER	GSKP0207TM
24	67	32	GST0B5E6	delta_z	position_error_in_z_direction	SINT	INTEGER	GSKP0207TM
25	71	32	GST0B5E7	delta_t	GNSS_system_time_error	SINT	INTEGER	Z_IDNS
26	75	32	GST0B5E8	delta_v_x	velocity_error_in_x_direction	SINT	INTEGER	GSKP0049TM
27	79	32	GST0B5E9	delta_v_y	velocity_error_in_y_direction	SINT	INTEGER	GSKP0049TM
28	83	32	GST0B5EA	delta_v_z	velocity_error_in_z_direction	SINT	INTEGER	GSKP0049TM
29	87	32	GST0B5EB	delta_f	receiver_clock_frequency_error	SINT	INTEGER	GSKP0208TM
30	91	32	GST0B5EC	HEIGHT	height_above_ellipsoid	UINT	INTEGER	GSKP0346TM
31	95	32	GST0B5ED	VERTSPEED	vertical_speed	SINT	INTEGER	GSKP0209TM
32	99	32	GST0B5EE	LONGITUDE	longitude	SINT	INTEGER	GSKP0210TM
33	103	32	GST0B5EF	LATITUDE	latitude	SINT	INTEGER	GSKP0211TM

Summary  
11.02.2013 16:00:59

Differences exist between documents.

**New Document:**

[ASY\\_ANC32108\\_TextualCalibration](#)

2 pages (17 KB)

11.02.2013 16:00:58

Used to display results.

**Old Document:**

[ASY\\_ANC32108\\_TextualCalibration](#)

1 pages (16 KB)

11.02.2013 16:00:57


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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2, 77  
Page: 1 of 2

Name: ASKT2101TM Descr: ACQ\_STATUS Referenced by: AST18004 GPSB\_NAVSOL\_ACQ

From	To	Text
0		NOT_ACQUIRED
1		ACQ_FAILED
2		ACQUIRED

Name: ASKT2102TM Descr: ACQ\_VALID\_FLAG Referenced by: AST18005 GPSB\_NAVSOL\_VAL

From	To	Text
0		INVALID
1		VALID

Name: CSKT0120TM Descr: DMS SCET\_OBT Referenced by: ASTT8093 GPSB\_NS\_TSF\_TYPE

From	To	Text
0		SCET
1		OBT

Name: CSKT0121TM Descr: DMS Internal\_External Referenced by: ASTT8094 GPSB\_NS\_TSF\_SSRC

From	To	Text
0		INTERNAL
1		EXTERNAL

Name: CSKT0122TM Descr: DMS MajFrame\_PPS Referenced by: ASTT8095 GPSB\_NS\_TSF\_SMET

From	To	Text
0		MIL
1		PPS

Name: CSKT0123TM Descr: DMS NoSync\_InSync Referenced by: ASTT8096 GPSB\_NS\_TSF\_SSTS

From	To	Text
0		NO_SYNC
1		IN_SYNC

Name: CSKT0124TM Descr: DMS Disabled\_Enabled Referenced by: ASTT8097 GPSB\_NS\_TSF\_SYNC

From	To	Text
0		DISABLED
1		ENABLED



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 , 77  
Page: 2 of 2

Name: GSKT0204TM Descr: NSM

Referenced by:  
ASTDB5D2 NSM

From	To	Text
1		PROPAGATED
2		FIRST_FIX
3		COLD_FIRST_FIX
4		LEAST_SQUARE
5		KALMAN_FILTER
7		INVALID

Name: GSKT0206TM Descr: MAX\_FIT

Referenced by:  
ASTDB5D6 MAX\_FIT

From	To	Text
0		4_H
1		6_H
2		8_H
3		14_H
4		26_H
5		50_H
6		74_H
7		98_H
8		122_H
9		146_H
15		PROPAGATED_PVT

Summary  
11.02.2013 16:28:06

Differences exist between documents.

**New Document:**

[ASY\\_ANC32109](#)

2 pages (32 KB)

11.02.2013 16:28:04

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**Old Document:**

[ASY\\_ANC32109](#)

2 pages (32 KB)

11.02.2013 16:28:04


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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32109	GPSRB Time Correlation (GPSR-SID=214)	3	25	11	6	182	Y	53	FIXED	AST00032	109	10000	Y	32109	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	AST18057	GPSB_TCORR_ACQ	GPSB_TIME_CORRELATION_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	AST18058	GPSB_TCORR_VAL	GPSB_TIME_CORRELATION_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	AST18100	GPSB_TC_TS_COAR	GPSB_TIME_CORR_TS_COARSE	UINT	INTEGER	Z_IDS
5	7	32	ASTK8101	GPSB_TC_TS_FINE	GPSB_TIME_CORR_TS_FINE			
	0	24	ASTT8102	GPSB_TC_TSF_SSEC	Fine_Time	UINT	INTEGER	Z_IDSM24
	27	1	ASTT8103	GPSB_TC_TSF_TYPE	Time_Type	UINT	STRING	CSKT0120TM
	28	1	ASTT8104	GPSB_TC_TSF_SSRC	Sync_Source	UINT	STRING	CSKT0121TM
	29	1	ASTT8105	GPSB_TC_TSF_SMET	Sync_Method	UINT	STRING	CSKT0122TM
	30	1	ASTT8106	GPSB_TC_TSF_SSTS	Sync_Status	UINT	STRING	CSKT0123TM
	31	1	ASTT8107	GPSB_TC_TSF_SYNC	Sync_Enable_Disable	UINT	STRING	CSKT0124TM
6	11	16	AST18060	NU2_NSM_QUALID	NU2_NSM_QUALID / GPSB_TIME_CORRELATION_WORD_00			
	0	1	ASTDB60B	N_U_2	not_used** Duplicated from GST0B60B **	UINT	INTEGER	Z_IDENTITY
	1	3	ASTDB60C	NSM	navigation_solution_method** Duplicated from GST0B60C **	UINT	STRING	GSKT0212TM
	4	12	ASTDB60D	QUAL_IDX	Quality_index** Duplicated from GST0B60D **	UINT	INTEGER	Z_IDNSOM
7	13	16	AST18061	TDOP	Time_dilution_of_precision / GPSB_TIME_CORRELATION_WORD_01	UINT	INTEGER	Z_IDENTITY
8	15	16	AST18062	IMT_MSB_1	Instrument_Measurement_Time_tag_MSB_part_1 / GPSB_TIME_CORRELATION_WORD_02	UINT	INTEGER	Z_IDENTITY
9	17	16	AST18063	IMT_MSB_2	Instrument_Measurement_Time_tag_MSB_part_2 / GPSB_TIME_CORRELATION_WORD_03	UINT	INTEGER	Z_IDENTITY
10	19	16	AST18064	IMT_LSB_1	Instrument_Measurement_Time_tag_LSB_part_1 / GPSB_TIME_CORRELATION_WORD_04	UINT	INTEGER	Z_IDENTITY
11	21	16	AST18065	IMT_LSB_2	Instrument_Measurement_Time_tag_LSB_part_2 / GPSB_TIME_CORRELATION_WORD_05	UINT	INTEGER	Z_IDENTITY
12	23	16	AST18066	GPST_SEC_1	seconds_1 / GPSB_TIME_CORRELATION_WORD_06	UINT	INTEGER	Z_IDENTITY
13	25	16	AST18067	GPST_SEC_2	seconds_2 / GPSB_TIME_CORRELATION_WORD_07	UINT	INTEGER	Z_IDENTITY
14	27	16	AST18068	GPST_SUBSEC_1	fractions_of_a_second_1 / GPSB_TIME_CORRELATION_WORD_08	UINT	INTEGER	Z_IDENTITY
15	29	16	AST18069	GPST_SUBSEC_2	fractions_of_a_second_2 / GPSB_TIME_CORRELATION_WORD_09	UINT	INTEGER	Z_IDENTITY
16	31	16	AST18070	UTC_DAYS	UTC_Time_Days_part / GPSB_TIME_CORRELATION_WORD_10	UINT	INTEGER	Z_IDENTITY
17	33	16	AST18071	UTC_MSEC_1	UTC_Time_MSEC_part_1 /	UINT	INTEGER	Z_IDENTITY



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2, 77  
Page: 2 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32109	GPSRB Time Correlation (GPSR-SID=214)	3	25	11	6	182	Y	53	FIXED	AST00032	109	10000	Y	32109	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
18	35	16	AST18072	UTC_MSEC_2	GPSB_TIME_CORRELATION_WORD_11 UTC_Time_MSEC_part_2 / GPSB_TIME_CORRELATION_WORD_12	UINT	INTEGER	Z_IDENTITY
19	37	16	AST18073	UTC_USEC	UTC_Time_USEC_part / GPSB_TIME_CORRELATION_WORD_13	UINT	INTEGER	Z_IDENTITY

Summary  
11.02.2013 16:28:35

Differences exist between documents.

**New Document:**

[ASY\\_ANC32109\\_TextualCalibration](#)

2 pages (17 KB)

11.02.2013 16:28:34

Used to display results.

**Old Document:**

[ASY\\_ANC32109\\_TextualCalibration](#)

1 pages (16 KB)

11.02.2013 16:28:34


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No pages were deleted

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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2, 77  
Page: 1 of 2

Name: ASKT2101TM Descr: ACQ\_STATUS

Referenced by:

AST18057 GPSB\_TCORR\_ACQ

From	To	Text
0		NOT_ACQUIRED
1		ACQ_FAILED
2		ACQUIRED

Name: ASKT2102TM Descr: ACQ\_VALID\_FLAG

Referenced by:

AST18058 GPSB\_TCORR\_VAL

From	To	Text
0		INVALID
1		VALID

Name: CSKT0120TM Descr: DMS SCET\_OBT

Referenced by:

ASTT8103 GPSB\_TC\_TSF\_TYPE

From	To	Text
0		SCET
1		OBT

Name: CSKT0121TM Descr: DMS Internal\_External

Referenced by:

ASTT8104 GPSB\_TC\_TSF\_SSRC

From	To	Text
0		INTERNAL
1		EXTERNAL

Name: CSKT0122TM Descr: DMS MajFrame\_PPS

Referenced by:

ASTT8105 GPSB\_TC\_TSF\_SMET

From	To	Text
0		MIL
1		PPS

Name: CSKT0123TM Descr: DMS NoSync\_InSync

Referenced by:

ASTT8106 GPSB\_TC\_TSF\_SSTS

From	To	Text
0		NO_SYNC
1		IN_SYNC

Name: CSKT0124TM Descr: DMS Disabled\_Enabled

Referenced by:

ASTT8107 GPSB\_TC\_TSF\_SYNC

From	To	Text
0		DISABLED
1		ENABLED



Sentinel-2  
SRDB Database Extract  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 2 of 2

Name: GSKT0212TM Descr: NSM

Referenced by:  
ASTDB60C NSM

From To Text

1 PROPAGATED

2 FIRST\_FIX

3 COLD\_FIRST\_FIX

4 LEAST\_SQUARE

5 KALMAN\_FILTER

7 INVALID

Summary  
11.02.2013 16:29:03

Differences exist between documents.

**New Document:**

[ASY\\_ANC32110](#)

2 pages (24 KB)

11.02.2013 16:29:00

Used to display results.

**Old Document:**

[ASY\\_ANC32110](#)

2 pages (24 KB)

11.02.2013 16:29:00


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No pages were deleted

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32110	IMU1234_HK	3	25	11	6	182	Y	103	FIXED	AST00032	110	10000	Y	32110	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	32	AST82112	IMU1_1HZ_HK_S	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU1_1HZ_HK_DATA_ATTR_SEC	UINT	INTEGER	Z_IDS
3	5	16	AST82113	IMU1_1HZ_HK_SS	COBT Time Stamp at Data Acquisition (Fine Time) / IMU1_1HZ_HK_DATA_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
4	7	32	AST82114	IMU1_1HZ_HK_ACQ	IMU1_1HZ_HK_DATA_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
5	11	32	AST82115	IMU1_1HZ_HK_VAL	IMU1_1HZ_HK_DATA_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
6	15	16	AST82153	Opt_Sce_Temp	Optical_Source_temperature for IMU_1			
	4	12	AJTD0360	Opt_Sce_temper	Opt_Source_Temp for IMU_1	UINT	INTEGER	AJKP0050TM
7	17	16	AST82154	Board_Temp	Board_temperature for IMU_1			
	4	12	AJTD0370	Board_temper	Board_Temp for IMU_1	UINT	INTEGER	AJKP0050TM
8	19	16	AST82155	Temp_Ref_V_Of	Temp_Ref_Volt_Offset for IMU_1			
	4	12	AJTD0380	Temp_Ref_Of	Temp_Ref_Offset for IMU_1	UINT	INTEGER	Z_IDENTITY
9	21	16	AST82156	Temp_Ref_Volt	Temp_Ref_Volt for IMU_1			
	4	12	AJTD0390	Temp_Ref	Temp_Ref for IMU_1	UINT	INTEGER	AJKP0080TM
10	23	32	AST82167	IMU2_1HZ_HK_S	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU2_1HZ_HK_DATA_ATTR_SEC	UINT	INTEGER	Z_IDS
11	27	16	AST82168	IMU2_1HZ_HK_SS	COBT Time Stamp at Data Acquisition (Fine Time) / IMU2_1HZ_HK_DATA_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
12	29	32	AST82169	IMU2_1HZ_HK_ACQ	IMU2_1HZ_HK_DATA_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
13	33	32	AST82170	IMU2_1HZ_HK_VAL	IMU2_1HZ_HK_DATA_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
14	37	16	AST82208	Opt_Sce_Temp	Optical_Source_temperature for IMU_2			
	4	12	AJTD0860	Opt_Sce_temper	Opt_Source_Temp for IMU_2	UINT	INTEGER	AJKP0050TM
15	39	16	AST82209	Board_Temp	Board_temperature for IMU_2			
	4	12	AJTD0870	Board_temper	Board_Temp for IMU_2	UINT	INTEGER	AJKP0050TM
16	41	16	AST82210	Temp_Ref_V_Of	Temp_Ref_Volt_Offset for IMU_2			
	4	12	AJTD0880	Temp_Ref_Of	Temp_Ref_Offset for IMU_2	UINT	INTEGER	Z_IDENTITY
17	43	16	AST82211	Temp_Ref_Volt	Temp_Ref_Volt for IMU_2			
	4	12	AJTD0890	Temp_Ref	Temp_Ref for IMU_2	UINT	INTEGER	AJKP0080TM
18	45	32	AST82222	IMU3_1HZ_HK_S	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU3_1HZ_HK_DATA_ATTR_SEC	UINT	INTEGER	Z_IDS
19	49	16	AST82223	IMU3_1HZ_HK_SS	COBT Time Stamp at Data Acquisition (Fine Time) / IMU3_1HZ_HK_DATA_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
20	51	32	AST82224	IMU3_1HZ_HK_ACQ	IMU3_1HZ_HK_DATA_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 2 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32110	IMU1234_HK	3	25	11	6	182	Y	103	FIXED	AST00032	110	10000	Y	32110	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
21	55	32	AST82225	IMU3_1HZ_HK_VAL	IMU3_1HZ_HK_DATA_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
22	59	16	AST82263	Opt_Sce_Temp	Optical_Source_temperature for IMU_3			
	4	12	AJTD1360	Opt_Sce_temper	Opt_Source_Temp for IMU_3	UINT	INTEGER	AJKP0050TM
23	61	16	AST82264	Board_Temp	Board_temperature for IMU_3			
	4	12	AJTD1370	Board_temper	Board_Temp for IMU_3	UINT	INTEGER	AJKP0050TM
24	63	16	AST82265	Temp_Ref_V_Of	Temp_Ref_Volt_Offset for IMU_3			
	4	12	AJTD1380	Temp_Ref_Of	Temp_Ref_Offset for IMU_3	UINT	INTEGER	Z_IDENTITY
25	65	16	AST82266	Temp_Ref_Volt	Temp_Ref_Volt for IMU_3			
	4	12	AJTD1390	Temp_Ref	Temp_Ref for IMU_3	UINT	INTEGER	AJKP0080TM
26	67	32	AST82277	IMU4_1HZ_HK_S	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU4_1HZ_HK_DATA_ATTR_SEC	UINT	INTEGER	Z_IDS
27	71	16	AST82278	IMU4_1HZ_HK_SS	COBT Time Stamp at Data Acquisition (Fine Time) / IMU4_1HZ_HK_DATA_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
28	73	32	AST82279	IMU4_1HZ_HK_ACQ	IMU4_1HZ_HK_DATA_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
29	77	32	AST82280	IMU4_1HZ_HK_VAL	IMU4_1HZ_HK_DATA_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
30	81	16	AST82318	Opt_Sce_Temp	Optical_Source_temperature for IMU_4			
	4	12	AJTD1860	Opt_Sce_temper	Opt_Source_Temp for IMU_4	UINT	INTEGER	AJKP0050TM
31	83	16	AST82319	Board_Temp	Board_temperature for IMU_4			
	4	12	AJTD1870	Board_temper	Board_Temp for IMU_4	UINT	INTEGER	AJKP0050TM
32	85	16	AST82320	Temp_Ref_V_Of	Temp_Ref_Volt_Offset for IMU_4			
	4	12	AJTD1880	Temp_Ref_Of	Temp_Ref_Offset for IMU_4	UINT	INTEGER	Z_IDENTITY
33	87	16	AST82321	Temp_Ref_Volt	Temp_Ref_Volt for IMU_4			
	4	12	AJTD1890	Temp_Ref	Temp_Ref for IMU_4	UINT	INTEGER	AJKP0080TM



Summary  
11.02.2013 16:30:43

Differences exist between documents.

**New Document:**

[ASY\\_ANC32110\\_NumericalCalibration](#)

1 pages (16 KB)

11.02.2013 16:30:42

Used to display results.

**Old Document:**

[ASY\\_ANC32110\\_NumericalCalibration](#)

1 pages (16 KB)

11.02.2013 16:30:42

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# Sentinel-2 SRDB Database Extract

TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2 . 77  
Page: 1 of 1

Name: AJKP0050TM Descr: Temperature\_degC

Unit: degC

X Y

Referenced by:

AJTD0360 Opt\_Sce\_temper  
AJTD0370 Board\_temper  
AJTD0860 Opt\_Sce\_temper  
AJTD0870 Board\_temper  
AJTD1360 Opt\_Sce\_temper  
AJTD1370 Board\_temper  
AJTD1860 Opt\_Sce\_temper  
AJTD1870 Board\_temper

Modelname: GENERIC

0	103.735831356912
250	103.735831356912
650	66.6016391307052
1050	47.9209427123329
1450	34.3274834223256
1850	22.6843391226263
2250	11.4863202321349
2650	-0.634461319172942
3050	-16.3587040738443
3450	-55.5216909428595
4095	-55.5216909428595

Name: AJKP0080TM Descr: Temp\_voltage

Unit: V

X Y

Referenced by:

AJTD0390 Temp\_Ref  
AJTD0890 Temp\_Ref  
AJTD1390 Temp\_Ref  
AJTD1890 Temp\_Ref

Modelname: GENERIC

0	0
4095	2.94021

Name: Z\_IDS Descr: Identity [s]

Unit: s

X Y

Referenced by:

AST82112 IMU1\_1HZ\_HK\_S  
AST82167 IMU2\_1HZ\_HK\_S  
AST82222 IMU3\_1HZ\_HK\_S  
AST82277 IMU4\_1HZ\_HK\_S

Modelname: GENERIC

Name: Z\_IDSM16 Descr: Identity [(2^16)s]

Unit: s

X Y

Referenced by:

AST82113 IMU1\_1HZ\_HK\_SS  
AST82168 IMU2\_1HZ\_HK\_SS  
AST82223 IMU3\_1HZ\_HK\_SS  
AST82278 IMU4\_1HZ\_HK\_SS

Modelname: GENERIC

Summary  
11.02.2013 16:31:37

Differences exist between documents.

**New Document:**

[ASY\\_ANC32110\\_TextualCalibration](#)

1 pages (15 KB)

11.02.2013 16:31:36

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**Old Document:**

[ASY\\_ANC32110\\_TextualCalibration](#)

1 pages (15 KB)

11.02.2013 16:31:36


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# Sentinel-2

## SRDB Database Extract

TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 1

Name: ASKT2101TM Descr: ACQ\_STATUS

### Referenced by:

From	To	Text
------	----	------

AST82114	IMU1_1HZ_HK_ACQ
AST82169	IMU2_1HZ_HK_ACQ
AST82224	IMU3_1HZ_HK_ACQ
AST82279	IMU4_1HZ_HK_ACQ

0	NOT_ACQUIRED
1	ACQ_FAILED
2	ACQUIRED

Name: ASKT2102TM Descr: ACQ\_VALID\_FLAG

### Referenced by:

From	To	Text
------	----	------

AST82115	IMU1_1HZ_HK_VAL
AST82170	IMU2_1HZ_HK_VAL
AST82225	IMU3_1HZ_HK_VAL
AST82280	IMU4_1HZ_HK_VAL

0	INVALID
1	VALID

Summary  
11.02.2013 16:32:41

Differences exist between documents.

**New Document:**

[ASY\\_ANC32111](#)

3 pages (30 KB)

11.02.2013 16:32:39

Used to display results.

**Old Document:**

[ASY\\_ANC32111](#)

3 pages (29 KB)

11.02.2013 16:32:39


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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2\_77  
Page: 1 of 3

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32111	IMU1234 Datasample1	3	25	11	6	182	Y	119	FIXED	AST00032	111	10000	Y	32111	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	ASTA7011	IMU1S1_ACQ_FLAG	IMU1_INERTIAL_D_SAMP_1_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	ASTA7012	IMU1S1_VALID_FLG	IMU1_INERTIAL_D_SAMP_1_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	ASTA7009	IMU1S1_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU1_INERTIAL_D_SAMP_1_ATTR_SEC	UINT	INTEGER	Z_IDS
5	7	16	ASTA7010	IMU1S1_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU1_INERTIAL_D_SAMP_1_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
6	9	32	ASTA7002	Filtered_angle	Filtered angle for IMU_1			
	0	16	AJTD0100	Filt_angle_MS_wd	Filtered angle MS word for IMU_1	UINT	INTEGER	Z_IDENTITY
	16	16	AJTD0101	Filt_angle_LS_wd	Filtered angle LS word for IMU_1	UINT	INTEGER	Z_IDENTITY
7	13	16	ASTA7003	Gy_ch_Hth_Stus	Gyro Channel Health Status for IMU_1			
	5	10	AJTD0111	Det_Hth_Stus	Health status for IMU_1	UINT	INTEGER	Z_IDENTITY
	15	1	AJTD0110	Validity_bit	Validity bit for IMU_1	UINT	INTEGER	Z_IDENTITY
8	15	16	ASTA7004	Orga_Temp	Organiser temperature for IMU_1			
	4	12	AJTD0120	Orga_temper	Org temperature for IMU_1	UINT	INTEGER	AJKP0050TM
9	17	16	ASTA7005	SIA_Temp	SIA temperature for IMU_1			
	4	12	AJTD0130	SIA_temper	SIA temperature for IMU_1	UINT	INTEGER	AJKP0050TM
10	19	32	ASTA7006	Time_tag	Time tag for IMU_1			
	0	16	AJTD0140	Time_Tag_MS_wd	Time Tag MS word for IMU_1	UINT	INTEGER	Z_IDENTITY
	16	16	AJTD0141	Time_Tag_LS_wd	Time Tag LS word for IMU_1	UINT	INTEGER	Z_IDENTITY
11	23	32	ASTA7007	Raw_angle	Raw angle for IMU_1			
	0	16	AJTD0150	Raw_angle_MS_wd	Raw angle MS word for IMU_1	UINT	INTEGER	Z_IDENTITY
	16	16	AJTD0151	Raw_angle_LS_wd	Raw angle LS word for IMU_1	UINT	INTEGER	Z_IDENTITY
12	27	8	ASTB7131	IMU2S1_ACQ_FLAG	IMU2_INERTIAL_D_SAMP_1_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
13	28	8	ASTB7132	IMU2S1_VALID_FLG	IMU2_INERTIAL_D_SAMP_1_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
14	29	32	ASTB7129	IMU2S1_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU2_INERTIAL_D_SAMP_1_ATTR_SEC	UINT	INTEGER	Z_IDS
15	33	16	ASTB7130	IMU2S1_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU2_INERTIAL_D_SAMP_1_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
16	35	32	ASTB7122	Filtered_angle	Filtered angle for IMU_2			
	0	16	AJTD0600	Filt_angle_MS_wd	Filtered angle MS word for IMU_2	UINT	INTEGER	Z_IDENTITY
	16	16	AJTD0601	Filt_angle_LS_wd	Filtered angle LS word for IMU_2	UINT	INTEGER	Z_IDENTITY
17	39	16	ASTB7123	Gy_ch_Hth_Stus	Gyro Channel Health Status for IMU_2			
	5	10	AJTD0611	Det_Hth_Stus	Health status for IMU_2	UINT	INTEGER	Z_IDENTITY



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 2 of 3

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32111	IMU1234 Datasample1	3	25	11	6	182	Y	119	FIXED	AST00032	111	10000	Y	32111	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	15	1	AJTD0610	Validity_bit	Validity bit for IMU_2	UINT	INTEGER	Z_IDENTITY
18	41	16	ASTB7124	Orga_Temp	Organiser temperature for IMU_2			
	4	12	AJTD0620	Orga_temper	Org temperature for IMU_2	UINT	INTEGER	AJKP0050TM
19	43	16	ASTB7125	SIA_Temp	SIA temperature for IMU_2			
	4	12	AJTD0630	SIA_temper	SIA temperature for IMU_2	UINT	INTEGER	AJKP0050TM
20	45	32	ASTB7126	Time_tag	Time tag for IMU_2			
	0	16	AJTD0640	Time_Tag_MS_wd	Time Tag MS word for IMU_2	UINT	INTEGER	Z_IDENTITY
	16	16	AJTD0641	Time_Tag_LS_wd	Time Tag LS word for IMU_2	UINT	INTEGER	Z_IDENTITY
21	49	32	ASTB7127	Raw_angle	Raw angle for IMU_2			
	0	16	AJTD0650	Raw_angle_MS_wd	Raw angle MS word for IMU_2	UINT	INTEGER	Z_IDENTITY
	16	16	AJTD0651	Raw_angle_LS_wd	Raw angle LS word for IMU_2	UINT	INTEGER	Z_IDENTITY
22	53	8	ASTC7251	IMU3S1_ACQ_FLAG	IMU3_INERTIAL_D_SAMP_1_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
23	54	8	ASTC7252	IMU3S1_VALID_FLG	IMU3_INERTIAL_D_SAMP_1_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
24	55	32	ASTC7249	IMU3S1_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU3_INERTIAL_D_SAMP_1_ATTR_SEC	UINT	INTEGER	Z_IDS
25	59	16	ASTC7250	IMU3S1_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU3_INERTIAL_D_SAMP_1_ATTR_SUBSEC	UINT	INTEGER	Z_IDS16
26	61	32	ASTC7242	Filtered_angle	Filtered angle for IMU_3			
	0	16	AJTD1100	Filt_angle_MS_wd	Filtered angle MS word for IMU_3	UINT	INTEGER	Z_IDENTITY
	16	16	AJTD1101	Filt_angle_LS_wd	Filtered angle LS word for IMU_3	UINT	INTEGER	Z_IDENTITY
27	65	16	ASTC7243	Gy_ch_Hth_Stus	Gyro Channel Health Status for IMU_3			
	5	10	AJTD1111	Det_Hth_Stus	Health status for IMU_3	UINT	INTEGER	Z_IDENTITY
	15	1	AJTD1110	Validity_bit	Validity bit for IMU_3	UINT	INTEGER	Z_IDENTITY
28	67	16	ASTC7244	Orga_Temp	Organiser temperature for IMU_3			
	4	12	AJTD1120	Orga_temper	Org temperature for IMU_3	UINT	INTEGER	AJKP0050TM
29	69	16	ASTC7245	SIA_Temp	SIA temperature for IMU_3			
	4	12	AJTD1130	SIA_temper	SIA temperature for IMU_3	UINT	INTEGER	AJKP0050TM
30	71	32	ASTC7246	Time_tag	Time tag for IMU_3			
	0	16	AJTD1140	Time_Tag_MS_wd	Time Tag MS word for IMU_3	UINT	INTEGER	Z_IDENTITY
	16	16	AJTD1141	Time_Tag_LS_wd	Time Tag LS word for IMU_3	UINT	INTEGER	Z_IDENTITY
31	75	32	ASTC7247	Raw_angle	Raw angle for IMU_3			
	0	16	AJTD1150	Raw_angle_MS_wd	Raw angle MS word for IMU_3	UINT	INTEGER	Z_IDENTITY
	16	16	AJTD1151	Raw_angle_LS_wd	Raw angle LS word for IMU_3	UINT	INTEGER	Z_IDENTITY



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 3 of 3

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32111	IMU1234 Datasample1	3	25	11	6	182	Y	119	FIXED	AST00032	111	10000	Y	32111	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
32	79	8	ASTD7371	IMU4S1_ACQ_FLAG	IMU4_INERTIAL_D_SAMP_1_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
33	80	8	ASTD7372	IMU4S1_VALID_FLG	IMU4_INERTIAL_D_SAMP_1_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
34	81	32	ASTD7369	IMU4S1_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU4_INERTIAL_D_SAMP_1_ATTR_SEC	UINT	INTEGER	Z_IDS
35	85	16	ASTD7370	IMU4S1_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU4_INERTIAL_D_SAMP_1_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
36	87	32	ASTD7362	Filtered_angle	Filtered angle for IMU_4			
	0	16	AJTD1600	Filt_angle_MS_wd	Filtered angle MS word for IMU_4	UINT	INTEGER	Z_IDENTITY
	16	16	AJTD1601	Filt_angle_LS_wd	Filtered angle LS word for IMU_4	UINT	INTEGER	Z_IDENTITY
37	91	16	ASTD7363	Gy_ch_Hth_Stus	Gyro Channel Health Status for IMU_4			
	5	10	AJTD1611	Det_Hth_Stus	Health status for IMU_4	UINT	INTEGER	Z_IDENTITY
	15	1	AJTD1610	Validity_bit	Validity bit for IMU_4	UINT	INTEGER	Z_IDENTITY
38	93	16	ASTD7364	Orga_Temp	Organiser temperature for IMU_4			
	4	12	AJTD1620	Orga_temper	Org temperature for IMU_4	UINT	INTEGER	AJKP0050TM
39	95	16	ASTD7365	SIA_Temp	SIA temperature for IMU_4			
	4	12	AJTD1630	SIA_temper	SIA temperature for IMU_4	UINT	INTEGER	AJKP0050TM
40	97	32	ASTD7366	Time_tag	Time tag for IMU_4			
	0	16	AJTD1640	Time_Tag_MS_wd	Time Tag MS word for IMU_4	UINT	INTEGER	Z_IDENTITY
	16	16	AJTD1641	Time_Tag_LS_wd	Time Tag LS word for IMU_4	UINT	INTEGER	Z_IDENTITY
41	101	32	ASTD7367	Raw_angle	Raw angle for IMU_4			
	0	16	AJTD1650	Raw_angle_MS_wd	Raw angle MS word for IMU_4	UINT	INTEGER	Z_IDENTITY
	16	16	AJTD1651	Raw_angle_LS_wd	Raw angle LS word for IMU_4	UINT	INTEGER	Z_IDENTITY



Summary  
11.02.2013 16:33:08

Differences exist between documents.

**New Document:**

[ASY\\_ANC32111\\_NumericalCalibration](#)

1 pages (16 KB)

11.02.2013 16:33:07

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**Old Document:**

[ASY\\_ANC32111\\_NumericalCalibration](#)

1 pages (15 KB)

11.02.2013 16:33:07


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**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2, 77  
Page: 1 of 1

Name: AJKP0050TM Descr: Temperature\_degC

Unit: degC

X Y

Referenced by:

AJTD0120 Orga\_temper  
AJTD0130 SIA\_temper  
AJTD0620 Orga\_temper  
AJTD0630 SIA\_temper  
AJTD1120 Orga\_temper  
AJTD1130 SIA\_temper  
AJTD1620 Orga\_temper  
AJTD1630 SIA\_temper

Modelname: GENERIC

0 103.735831356912  
250 103.735831356912  
650 66.6016391307052  
1050 47.9209427123329  
1450 34.3274834223256  
1850 22.6843391226263  
2250 11.4863202321349  
2650 -0.634461319172942  
3050 -16.3587040738443  
3450 -55.5216909428595  
4095 -55.5216909428595

Name: Z\_IDS Descr: Identity [s]

Unit: s

X Y

Referenced by:

ASTA7009 IMU1S1\_SEC  
ASTB7129 IMU2S1\_SEC  
ASTC7249 IMU3S1\_SEC  
ASTD7369 IMU4S1\_SEC

Modelname: GENERIC

Name: Z\_IDS16 Descr: Identity [(2^16)s]

Unit: s

X Y

Referenced by:

ASTA7010 IMU1S1\_SUBSEC  
ASTB7130 IMU2S1\_SUBSEC  
ASTC7250 IMU3S1\_SUBSEC  
ASTD7370 IMU4S1\_SUBSEC

Modelname: GENERIC

Summary  
11.02.2013 16:33:28

Differences exist between documents.

**New Document:**

[ASY\\_ANC32111\\_TextualCalibration](#)

1 pages (15 KB)

11.02.2013 16:33:27

Used to display results.

**Old Document:**

[ASY\\_ANC32111\\_TextualCalibration](#)

1 pages (15 KB)

11.02.2013 16:33:26


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# Sentinel-2

## SRDB Database Extract

TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 1

Name: ASKT2101TM Descr: ACQ\_STATUS

### Referenced by:

From	To	Text
------	----	------

ASTA7011	IMU1S1_ACQ_FLAG
ASTB7131	IMU2S1_ACQ_FLAG
ASTC7251	IMU3S1_ACQ_FLAG
ASTD7371	IMU4S1_ACQ_FLAG

0	NOT_ACQUIRED
1	ACQ_FAILED
2	ACQUIRED

Name: ASKT2102TM Descr: ACQ\_VALID\_FLAG

### Referenced by:

From	To	Text
------	----	------

ASTA7012	IMU1S1_VALID_FLG
ASTB7132	IMU2S1_VALID_FLG
ASTC7252	IMU3S1_VALID_FLG
ASTD7372	IMU4S1_VALID_FLG

0	INVALID
1	VALID

Summary  
11.02.2013 16:33:51

Differences exist between documents.

**New Document:**

[ASY\\_ANC32112](#)

2 pages (24 KB)

11.02.2013 16:33:49

Used to display results.

**Old Document:**

[ASY\\_ANC32112](#)

2 pages (23 KB)

11.02.2013 16:33:49


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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32112	IMU1234 Datasample2	3	25	11	6	182	Y	125	FIXED	AST00032	112	10000	Y	32112	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	ASTA7023	IMU1S2_ACQ_FLAG	IMU1_INERTIAL_D_SAMP_2_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	ASTA7024	IMU1S2_VALID_FLG	IMU1_INERTIAL_D_SAMP_2_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	ASTA7021	IMU1S2_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU1_INERTIAL_D_SAMP_2_ATTR_SEC	UINT	INTEGER	Z_IDS
5	7	16	ASTA7022	IMU1S2_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU1_INERTIAL_D_SAMP_2_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
6	9	32	ASTA7014	IMU1S2_FIL_ANG	IMU1_INERTIAL_D_SAMP_2_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
7	13	16	ASTA7015	IMU1S2_HLTH_STS	IMU1_INERTIAL_D_SAMP_2_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
8	15	16	ASTA7016	IMU1S2_ORGA_TEMP	IMU1_INERTIAL_D_SAMP_2_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
9	17	16	ASTA7017	IMU1S2_SIA_TEMP	IMU1_INERTIAL_D_SAMP_2_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
10	19	32	ASTA7018	IMU1S2_TIMETAG	IMU1_INERTIAL_D_SAMP_2_TIMETAG	UINT	INTEGER	Z_IDENTITY
11	23	32	ASTA7019	IMU1S2_RAW_ANGLE	IMU1_INERTIAL_D_SAMP_2_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
12	27	8	ASTB7143	IMU2S2_ACQ_FLAG	IMU2_INERTIAL_D_SAMP_2_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
13	28	8	ASTB7144	IMU2S2_VALID_FLG	IMU2_INERTIAL_D_SAMP_2_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
14	29	32	ASTB7141	IMU2S2_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU2_INERTIAL_D_SAMP_2_ATTR_SEC	UINT	INTEGER	Z_IDS
15	33	16	ASTB7142	IMU2S2_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU2_INERTIAL_D_SAMP_2_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
16	35	32	ASTB7134	IMU2S2_FIL_ANG	IMU2_INERTIAL_D_SAMP_2_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
17	39	16	ASTB7135	IMU2S2_HLTH_STS	IMU2_INERTIAL_D_SAMP_2_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
18	41	16	ASTB7136	IMU2S2_ORGA_TEMP	IMU2_INERTIAL_D_SAMP_2_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
19	43	16	ASTB7137	IMU2S2_SIA_TEMP	IMU2_INERTIAL_D_SAMP_2_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
20	45	32	ASTB7138	IMU2S2_TIMETAG	IMU2_INERTIAL_D_SAMP_2_TIMETAG	UINT	INTEGER	Z_IDENTITY
21	49	32	ASTB7139	IMU2S2_RAW_ANGLE	IMU2_INERTIAL_D_SAMP_2_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
22	53	8	ASTC7263	IMU3S2_ACQ_FLAG	IMU3_INERTIAL_D_SAMP_2_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
23	54	8	ASTC7264	IMU3S2_VALID_FLG	IMU3_INERTIAL_D_SAMP_2_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
24	55	32	ASTC7261	IMU3S2_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU3_INERTIAL_D_SAMP_2_ATTR_SEC	UINT	INTEGER	Z_IDS
25	59	16	ASTC7262	IMU3S2_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU3_INERTIAL_D_SAMP_2_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
26	61	32	ASTC7254	IMU3S2_FIL_ANG	IMU3_INERTIAL_D_SAMP_2_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 2 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32112	IMU1234 Datasample2	3	25	11	6	182	Y	125	FIXED	AST00032	112	10000	Y	32112	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
27	65	16	ASTC7255	IMU3S2_HLTH_STS	IMU3_INERTIAL_D_SAMP_2_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
28	67	16	ASTC7256	IMU3S2_ORGA_TEMP	IMU3_INERTIAL_D_SAMP_2_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
29	69	16	ASTC7257	IMU3S2_SIA_TEMP	IMU3_INERTIAL_D_SAMP_2_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
30	71	32	ASTC7258	IMU3S2_TIMETAG	IMU3_INERTIAL_D_SAMP_2_TIMETAG	UINT	INTEGER	Z_IDENTITY
31	75	32	ASTC7259	IMU3S2_RAW_ANGLE	IMU3_INERTIAL_D_SAMP_2_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
32	79	32	ASTD7383	IMU4S2_ACQ_FLAG	IMU4_INERTIAL_D_SAMP_2_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
33	83	32	ASTD7384	IMU4S2_VALID_FLG	IMU4_INERTIAL_D_SAMP_2_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
34	87	32	ASTD7381	IMU4S2_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU4_INERTIAL_D_SAMP_2_ATTR_SEC	UINT	INTEGER	Z_IDS
35	91	16	ASTD7382	IMU4S2_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU4_INERTIAL_D_SAMP_2_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
36	93	32	ASTD7374	IMU4S2_FIL_ANG	IMU4_INERTIAL_D_SAMP_2_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
37	97	16	ASTD7375	IMU4S2_HLTH_STS	IMU4_INERTIAL_D_SAMP_2_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
38	99	16	ASTD7376	IMU4S2_ORGA_TEMP	IMU4_INERTIAL_D_SAMP_2_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
39	101	16	ASTD7377	IMU4S2_SIA_TEMP	IMU4_INERTIAL_D_SAMP_2_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
40	103	32	ASTD7378	IMU4S2_TIMETAG	IMU4_INERTIAL_D_SAMP_2_TIMETAG	UINT	INTEGER	Z_IDENTITY
41	107	32	ASTD7379	IMU4S2_RAW_ANGLE	IMU4_INERTIAL_D_SAMP_2_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY

Summary  
11.02.2013 16:34:17

Differences exist between documents.

**New Document:**

[ASY\\_ANC32112\\_TextualCalibration](#)

1 pages (15 KB)

11.02.2013 16:34:16

Used to display results.

**Old Document:**

[ASY\\_ANC32112\\_TextualCalibration](#)

1 pages (15 KB)

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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 1

**Name:** ASKT2101TM **Descr:** ACQ\_STATUS

**Referenced by:**

From	To	Text
------	----	------

ASTA7023	IMU1S2_ACQ_FLAG
ASTB7143	IMU2S2_ACQ_FLAG
ASTC7263	IMU3S2_ACQ_FLAG
ASTD7383	IMU4S2_ACQ_FLAG

0	NOT_ACQUIRED
1	ACQ_FAILED
2	ACQUIRED

**Name:** ASKT2102TM **Descr:** ACQ\_VALID\_FLAG

**Referenced by:**

From	To	Text
------	----	------

ASTA7024	IMU1S2_VALID_FLG
ASTB7144	IMU2S2_VALID_FLG
ASTC7264	IMU3S2_VALID_FLG
ASTD7384	IMU4S2_VALID_FLG

0	INVALID
1	VALID

Summary  
11.02.2013 16:34:40

Differences exist between documents.

**New Document:**

[ASY\\_ANC32113](#)

2 pages (24 KB)

11.02.2013 16:34:38

Used to display results.

**Old Document:**

[ASY\\_ANC32113](#)

2 pages (23 KB)

11.02.2013 16:34:38

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32113	IMU1234 Datasample3	3	25	11	6	182	Y	119	FIXED	AST00032	113	10000	Y	32113	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	ASTA7035	IMU1S3_ACQ_FLAG	IMU1_INERTIAL_D_SAMP_3_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	ASTA7036	IMU1S3_VALID_FLG	IMU1_INERTIAL_D_SAMP_3_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	ASTA7033	IMU1S3_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU1_INERTIAL_D_SAMP_3_ATTR_SEC	UINT	INTEGER	Z_IDS
5	7	16	ASTA7034	IMU1S3_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU1_INERTIAL_D_SAMP_3_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
6	9	32	ASTA7026	IMU1S3_FIL_ANG	IMU1_INERTIAL_D_SAMP_3_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
7	13	16	ASTA7027	IMU1S3_HLTH_STS	IMU1_INERTIAL_D_SAMP_3_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
8	15	16	ASTA7028	IMU1S3_ORGA_TEMP	IMU1_INERTIAL_D_SAMP_3_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
9	17	16	ASTA7029	IMU1S3_SIA_TEMP	IMU1_INERTIAL_D_SAMP_3_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
10	19	32	ASTA7030	IMU1S3_TIMETAG	IMU1_INERTIAL_D_SAMP_3_TIMETAG	UINT	INTEGER	Z_IDENTITY
11	23	32	ASTA7031	IMU1S3_RAW_ANGLE	IMU1_INERTIAL_D_SAMP_3_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
12	27	8	ASTB7155	IMU2S3_ACQ_FLAG	IMU2_INERTIAL_D_SAMP_3_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
13	28	8	ASTB7156	IMU2S3_VALID_FLG	IMU2_INERTIAL_D_SAMP_3_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
14	29	32	ASTB7153	IMU2S3_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU2_INERTIAL_D_SAMP_3_ATTR_SEC	UINT	INTEGER	Z_IDS
15	33	16	ASTB7154	IMU2S3_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU2_INERTIAL_D_SAMP_3_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
16	35	32	ASTB7146	IMU2S3_FIL_ANG	IMU2_INERTIAL_D_SAMP_3_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
17	39	16	ASTB7147	IMU2S3_HLTH_STS	IMU2_INERTIAL_D_SAMP_3_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
18	41	16	ASTB7148	IMU2S3_ORGA_TEMP	IMU2_INERTIAL_D_SAMP_3_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
19	43	16	ASTB7149	IMU2S3_SIA_TEMP	IMU2_INERTIAL_D_SAMP_3_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
20	45	32	ASTB7150	IMU2S3_TIMETAG	IMU2_INERTIAL_D_SAMP_3_TIMETAG	UINT	INTEGER	Z_IDENTITY
21	49	32	ASTB7151	IMU2S3_RAW_ANGLE	IMU2_INERTIAL_D_SAMP_3_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
22	53	8	ASTC7275	IMU3S3_ACQ_FLAG	IMU3_INERTIAL_D_SAMP_3_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
23	54	8	ASTC7276	IMU3S3_VALID_FLG	IMU3_INERTIAL_D_SAMP_3_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
24	55	32	ASTC7273	IMU3S3_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU3_INERTIAL_D_SAMP_3_ATTR_SEC	UINT	INTEGER	Z_IDS
25	59	16	ASTC7274	IMU3S3_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU3_INERTIAL_D_SAMP_3_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
26	61	32	ASTC7266	IMU3S3_FIL_ANG	IMU3_INERTIAL_D_SAMP_3_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 2 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32113	IMU1234 Datasample3	3	25	11	6	182	Y	119	FIXED	AST00032	113	10000	Y	32113	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
27	65	16	ASTC7267	IMU3S3_HLTH_STS	IMU3_INERTIAL_D_SAMP_3_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
28	67	16	ASTC7268	IMU3S3_ORGA_TEMP	IMU3_INERTIAL_D_SAMP_3_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
29	69	16	ASTC7269	IMU3S3_SIA_TEMP	IMU3_INERTIAL_D_SAMP_3_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
30	71	32	ASTC7270	IMU3S3_TIMETAG	IMU3_INERTIAL_D_SAMP_3_TIMETAG	UINT	INTEGER	Z_IDENTITY
31	75	32	ASTC7271	IMU3S3_RAW_ANGLE	IMU3_INERTIAL_D_SAMP_3_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
32	79	8	ASTD7395	IMU4S3_ACQ_FLAG	IMU4_INERTIAL_D_SAMP_3_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
33	80	8	ASTD7396	IMU4S3_VALID_FLG	IMU4_INERTIAL_D_SAMP_3_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
34	81	32	ASTD7393	IMU4S3_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU4_INERTIAL_D_SAMP_3_ATTR_SEC	UINT	INTEGER	Z_IDS
35	85	16	ASTD7394	IMU4S3_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU4_INERTIAL_D_SAMP_3_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
36	87	32	ASTD7386	IMU4S3_FIL_ANG	IMU4_INERTIAL_D_SAMP_3_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
37	91	16	ASTD7387	IMU4S3_HLTH_STS	IMU4_INERTIAL_D_SAMP_3_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
38	93	16	ASTD7388	IMU4S3_ORGA_TEMP	IMU4_INERTIAL_D_SAMP_3_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
39	95	16	ASTD7389	IMU4S3_SIA_TEMP	IMU4_INERTIAL_D_SAMP_3_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
40	97	32	ASTD7390	IMU4S3_TIMETAG	IMU4_INERTIAL_D_SAMP_3_TIMETAG	UINT	INTEGER	Z_IDENTITY
41	101	32	ASTD7391	IMU4S3_RAW_ANGLE	IMU4_INERTIAL_D_SAMP_3_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY

Summary  
11.02.2013 16:35:02

Differences exist between documents.

**New Document:**

[ASY\\_ANC32113\\_TextualCalibration](#)

1 pages (15 KB)

11.02.2013 16:35:01

Used to display results.

**Old Document:**

[ASY\\_ANC32113\\_TextualCalibration](#)

1 pages (15 KB)

11.02.2013 16:35:00


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# Sentinel-2

## SRDB Database Extract

TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 1

Name: ASKT2101TM Descr: ACQ\_STATUS

### Referenced by:

From	To	Text
------	----	------

ASTA7035	IMU1S3_ACQ_FLAG
ASTB7155	IMU2S3_ACQ_FLAG
ASTC7275	IMU3S3_ACQ_FLAG
ASTD7395	IMU4S3_ACQ_FLAG

0	NOT_ACQUIRED
1	ACQ_FAILED
2	ACQUIRED

Name: ASKT2102TM Descr: ACQ\_VALID\_FLAG

### Referenced by:

From	To	Text
------	----	------

ASTA7036	IMU1S3_VALID_FLG
ASTB7156	IMU2S3_VALID_FLG
ASTC7276	IMU3S3_VALID_FLG
ASTD7396	IMU4S3_VALID_FLG

0	INVALID
1	VALID

Summary  
11.02.2013 16:35:20

Differences exist between documents.

**New Document:**

[ASY\\_ANC32114](#)

2 pages (24 KB)

11.02.2013 16:35:18

Used to display results.

**Old Document:**

[ASY\\_ANC32114](#)

2 pages (23 KB)

11.02.2013 16:35:18


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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32114	IMU1234 Datasample4	3	25	11	6	182	Y	119	FIXED	AST00032	114	10000	Y	32114	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	ASTA7047	IMU1S4_ACQ_FLAG	IMU1_INERTIAL_D_SAMP_4_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	ASTA7048	IMU1S4_VALID_FLG	IMU1_INERTIAL_D_SAMP_4_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	ASTA7045	IMU1S4_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU1_INERTIAL_D_SAMP_4_ATTR_SEC	UINT	INTEGER	Z_IDS
5	7	16	ASTA7046	IMU1S4_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU1_INERTIAL_D_SAMP_4_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
6	9	32	ASTA7038	IMU1S4_FIL_ANG	IMU1_INERTIAL_D_SAMP_4_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
7	13	16	ASTA7039	IMU1S4_HLTH_STS	IMU1_INERTIAL_D_SAMP_4_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
8	15	16	ASTA7040	IMU1S4_ORGA_TEMP	IMU1_INERTIAL_D_SAMP_4_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
9	17	16	ASTA7041	IMU1S4_SIA_TEMP	IMU1_INERTIAL_D_SAMP_4_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
10	19	32	ASTA7042	IMU1S4_TIMETAG	IMU1_INERTIAL_D_SAMP_4_TIMETAG	UINT	INTEGER	Z_IDENTITY
11	23	32	ASTA7043	IMU1S4_RAW_ANGLE	IMU1_INERTIAL_D_SAMP_4_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
12	27	8	ASTB7167	IMU2S4_ACQ_FLAG	IMU2_INERTIAL_D_SAMP_4_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
13	28	8	ASTB7168	IMU2S4_VALID_FLG	IMU2_INERTIAL_D_SAMP_4_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
14	29	32	ASTB7165	IMU2S4_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU2_INERTIAL_D_SAMP_4_ATTR_SEC	UINT	INTEGER	Z_IDS
15	33	16	ASTB7166	IMU2S4_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU2_INERTIAL_D_SAMP_4_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
16	35	32	ASTB7158	IMU2S4_FIL_ANG	IMU2_INERTIAL_D_SAMP_4_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
17	39	16	ASTB7159	IMU2S4_HLTH_STS	IMU2_INERTIAL_D_SAMP_4_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
18	41	16	ASTB7160	IMU2S4_ORGA_TEMP	IMU2_INERTIAL_D_SAMP_4_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
19	43	16	ASTB7161	IMU2S4_SIA_TEMP	IMU2_INERTIAL_D_SAMP_4_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
20	45	32	ASTB7162	IMU2S4_TIMETAG	IMU2_INERTIAL_D_SAMP_4_TIMETAG	UINT	INTEGER	Z_IDENTITY
21	49	32	ASTB7163	IMU2S4_RAW_ANGLE	IMU2_INERTIAL_D_SAMP_4_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
22	53	8	ASTC7287	IMU3S4_ACQ_FLAG	IMU3_INERTIAL_D_SAMP_4_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
23	54	8	ASTC7288	IMU3S4_VALID_FLG	IMU3_INERTIAL_D_SAMP_4_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
24	55	32	ASTC7285	IMU3S4_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU3_INERTIAL_D_SAMP_4_ATTR_SEC	UINT	INTEGER	Z_IDS
25	59	16	ASTC7286	IMU3S4_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU3_INERTIAL_D_SAMP_4_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
26	61	32	ASTC7278	IMU3S4_FIL_ANG	IMU3_INERTIAL_D_SAMP_4_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY





## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 2 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32114	IMU1234 Datasample4	3	25	11	6	182	Y	119	FIXED	AST00032	114	10000	Y	32114	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
27	65	16	ASTC7279	IMU3S4_HLTH_STS	IMU3_INERTIAL_D_SAMP_4_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
28	67	16	ASTC7280	IMU3S4_ORGA_TEMP	IMU3_INERTIAL_D_SAMP_4_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
29	69	16	ASTC7281	IMU3S4_SIA_TEMP	IMU3_INERTIAL_D_SAMP_4_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
30	71	32	ASTC7282	IMU3S4_TIMETAG	IMU3_INERTIAL_D_SAMP_4_TIMETAG	UINT	INTEGER	Z_IDENTITY
31	75	32	ASTC7283	IMU3S4_RAW_ANGLE	IMU3_INERTIAL_D_SAMP_4_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
32	79	8	ASTD7407	IMU4S4_ACQ_FLAG	IMU4_INERTIAL_D_SAMP_4_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
33	80	8	ASTD7408	IMU4S4_VALID_FLG	IMU4_INERTIAL_D_SAMP_4_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
34	81	32	ASTD7405	IMU4S4_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU4_INERTIAL_D_SAMP_4_ATTR_SEC	UINT	INTEGER	Z_IDS
35	85	16	ASTD7406	IMU4S4_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU4_INERTIAL_D_SAMP_4_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
36	87	32	ASTD7398	IMU4S4_FIL_ANG	IMU4_INERTIAL_D_SAMP_4_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
37	91	16	ASTD7399	IMU4S4_HLTH_STS	IMU4_INERTIAL_D_SAMP_4_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
38	93	16	ASTD7400	IMU4S4_ORGA_TEMP	IMU4_INERTIAL_D_SAMP_4_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
39	95	16	ASTD7401	IMU4S4_SIA_TEMP	IMU4_INERTIAL_D_SAMP_4_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
40	97	32	ASTD7402	IMU4S4_TIMETAG	IMU4_INERTIAL_D_SAMP_4_TIMETAG	UINT	INTEGER	Z_IDENTITY
41	101	32	ASTD7403	IMU4S4_RAW_ANGLE	IMU4_INERTIAL_D_SAMP_4_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY

Summary  
11.02.2013 16:35:48

Differences exist between documents.

**New Document:**

[ASY\\_ANC32114\\_TextualCalibration](#)

1 pages (15 KB)

11.02.2013 16:35:47

Used to display results.

**Old Document:**

[ASY\\_ANC32114\\_TextualCalibration](#)

1 pages (15 KB)

11.02.2013 16:35:47


[Get started: first change is on page 1.](#)


No pages were deleted

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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 1

**Name:** ASKT2101TM **Descr:** ACQ\_STATUS

**Referenced by:**

**From To Text**

ASTA7047 IMU1S4\_ACQ\_FLAG  
ASTB7167 IMU2S4\_ACQ\_FLAG  
ASTC7287 IMU3S4\_ACQ\_FLAG  
ASTD7407 IMU4S4\_ACQ\_FLAG

0 NOT\_ACQUIRED  
1 ACQ\_FAILED  
2 ACQUIRED

**Name:** ASKT2102TM **Descr:** ACQ\_VALID\_FLAG

**Referenced by:**

**From To Text**

ASTA7048 IMU1S4\_VALID\_FLG  
ASTB7168 IMU2S4\_VALID\_FLG  
ASTC7288 IMU3S4\_VALID\_FLG  
ASTD7408 IMU4S4\_VALID\_FLG

0 INVALID  
1 VALID

Summary  
11.02.2013 16:36:08

Differences exist between documents.

**New Document:**

[ASY\\_ANC32115](#)

2 pages (24 KB)

11.02.2013 16:36:06

Used to display results.

**Old Document:**

[ASY\\_ANC32115](#)

2 pages (23 KB)

11.02.2013 16:36:06


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No pages were deleted

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32115	IMU1234 Datasample5	3	25	11	6	182	Y	119	FIXED	AST00032	115	10000	Y	32115	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	ASTA7059	IMU1S5_ACQ_FLAG	IMU1_INERTIAL_D_SAMP_5_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	ASTA7060	IMU1S5_VALID_FLG	IMU1_INERTIAL_D_SAMP_5_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	ASTA7057	IMU1S5_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU1_INERTIAL_D_SAMP_5_ATTR_SEC	UINT	INTEGER	Z_IDS
5	7	16	ASTA7058	IMU1S5_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU1_INERTIAL_D_SAMP_5_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
6	9	32	ASTA7050	IMU1S5_FIL_ANG	IMU1_INERTIAL_D_SAMP_5_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
7	13	16	ASTA7051	IMU1S5_HLTH_STS	IMU1_INERTIAL_D_SAMP_5_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
8	15	16	ASTA7052	IMU1S5_ORGA_TEMP	IMU1_INERTIAL_D_SAMP_5_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
9	17	16	ASTA7053	IMU1S5_SIA_TEMP	IMU1_INERTIAL_D_SAMP_5_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
10	19	32	ASTA7054	IMU1S5_TIMETAG	IMU1_INERTIAL_D_SAMP_5_TIMETAG	UINT	INTEGER	Z_IDENTITY
11	23	32	ASTA7055	IMU1S5_RAW_ANGLE	IMU1_INERTIAL_D_SAMP_5_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
12	27	8	ASTB7179	IMU2S5_ACQ_FLAG	IMU2_INERTIAL_D_SAMP_5_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
13	28	8	ASTB7180	IMU2S5_VALID_FLG	IMU2_INERTIAL_D_SAMP_5_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
14	29	32	ASTB7177	IMU2S5_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU2_INERTIAL_D_SAMP_5_ATTR_SEC	UINT	INTEGER	Z_IDS
15	33	16	ASTB7178	IMU2S5_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU2_INERTIAL_D_SAMP_5_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
16	35	32	ASTB7170	IMU2S5_FIL_ANG	IMU2_INERTIAL_D_SAMP_5_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
17	39	16	ASTB7171	IMU2S5_HLTH_STS	IMU2_INERTIAL_D_SAMP_5_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
18	41	16	ASTB7172	IMU2S5_ORGA_TEMP	IMU2_INERTIAL_D_SAMP_5_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
19	43	16	ASTB7173	IMU2S5_SIA_TEMP	IMU2_INERTIAL_D_SAMP_5_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
20	45	32	ASTB7174	IMU2S5_TIMETAG	IMU2_INERTIAL_D_SAMP_5_TIMETAG	UINT	INTEGER	Z_IDENTITY
21	49	32	ASTB7175	IMU2S5_RAW_ANGLE	IMU2_INERTIAL_D_SAMP_5_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
22	53	8	ASTC7299	IMU3S5_ACQ_FLAG	IMU3_INERTIAL_D_SAMP_5_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
23	54	8	ASTC7300	IMU3S5_VALID_FLG	IMU3_INERTIAL_D_SAMP_5_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
24	55	32	ASTC7297	IMU3S5_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU3_INERTIAL_D_SAMP_5_ATTR_SEC	UINT	INTEGER	Z_IDS
25	59	16	ASTC7298	IMU3S5_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU3_INERTIAL_D_SAMP_5_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
26	61	32	ASTC7290	IMU3S5_FIL_ANG	IMU3_INERTIAL_D_SAMP_5_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 2 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32115	IMU1234 Datasample5	3	25	11	6	182	Y	119	FIXED	AST00032	115	10000	Y	32115	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
27	65	16	ASTC7291	IMU3S5_HLTH_STS	IMU3_INERTIAL_D_SAMP_5_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
28	67	16	ASTC7292	IMU3S5_ORGA_TEMP	IMU3_INERTIAL_D_SAMP_5_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
29	69	16	ASTC7293	IMU3S5_SIA_TEMP	IMU3_INERTIAL_D_SAMP_5_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
30	71	32	ASTC7294	IMU3S5_TIMETAG	IMU3_INERTIAL_D_SAMP_5_TIMETAG	UINT	INTEGER	Z_IDENTITY
31	75	32	ASTC7295	IMU3S5_RAW_ANGLE	IMU3_INERTIAL_D_SAMP_5_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
32	79	8	ASTD7419	IMU4S5_ACQ_FLAG	IMU4_INERTIAL_D_SAMP_5_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
33	80	8	ASTD7420	IMU4S5_VALID_FLG	IMU4_INERTIAL_D_SAMP_5_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
34	81	32	ASTD7417	IMU4S5_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU4_INERTIAL_D_SAMP_5_ATTR_SEC	UINT	INTEGER	Z_IDS
35	85	16	ASTD7418	IMU4S5_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU4_INERTIAL_D_SAMP_5_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
36	87	32	ASTD7410	IMU4S5_FIL_ANG	IMU4_INERTIAL_D_SAMP_5_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
37	91	16	ASTD7411	IMU4S5_HLTH_STS	IMU4_INERTIAL_D_SAMP_5_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
38	93	16	ASTD7412	IMU4S5_ORGA_TEMP	IMU4_INERTIAL_D_SAMP_5_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
39	95	16	ASTD7413	IMU4S5_SIA_TEMP	IMU4_INERTIAL_D_SAMP_5_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
40	97	32	ASTD7414	IMU4S5_TIMETAG	IMU4_INERTIAL_D_SAMP_5_TIMETAG	UINT	INTEGER	Z_IDENTITY
41	101	32	ASTD7415	IMU4S5_RAW_ANGLE	IMU4_INERTIAL_D_SAMP_5_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY

Summary  
11.02.2013 16:36:26

Differences exist between documents.

**New Document:**

[ASY\\_ANC32115\\_TextualCalibration](#)

1 pages (15 KB)

11.02.2013 16:36:25

Used to display results.

**Old Document:**

[ASY\\_ANC32115\\_TextualCalibration](#)

1 pages (15 KB)

11.02.2013 16:36:25


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No pages were deleted

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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 1

**Name:** ASKT2101TM **Descr:** ACQ\_STATUS

**Referenced by:**

From	To	Text
------	----	------

ASTA7059	IMU1S5_ACQ_FLAG
ASTB7179	IMU2S5_ACQ_FLAG
ASTC7299	IMU3S5_ACQ_FLAG
ASTD7419	IMU4S5_ACQ_FLAG

0	NOT_ACQUIRED
1	ACQ_FAILED
2	ACQUIRED

**Name:** ASKT2102TM **Descr:** ACQ\_VALID\_FLAG

**Referenced by:**

From	To	Text
------	----	------

ASTA7060	IMU1S5_VALID_FLG
ASTB7180	IMU2S5_VALID_FLG
ASTC7300	IMU3S5_VALID_FLG
ASTD7420	IMU4S5_VALID_FLG

0	INVALID
1	VALID



Summary  
11.02.2013 16:37:56

Differences exist between documents.

**New Document:**

[ASY\\_ANC32116](#)

2 pages (24 KB)

11.02.2013 16:37:54

Used to display results.

**Old Document:**

[ASY\\_ANC32116](#)

2 pages (23 KB)

11.02.2013 16:37:54


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No pages were deleted

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32116	IMU1234 Datasample6	3	25	11	6	182	Y	119	FIXED	AST00032	116	10000	Y	32116	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	ASTA7071	IMU1S6_ACQ_FLAG	IMU1_INERTIAL_D_SAMP_6_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	ASTA7072	IMU1S6_VALID_FLG	IMU1_INERTIAL_D_SAMP_6_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	ASTA7069	IMU1S6_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU1_INERTIAL_D_SAMP_6_ATTR_SEC	UINT	INTEGER	Z_IDS
5	7	16	ASTA7070	IMU1S6_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU1_INERTIAL_D_SAMP_6_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
6	9	32	ASTA7062	IMU1S6_FIL_ANG	IMU1_INERTIAL_D_SAMP_6_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
7	13	16	ASTA7063	IMU1S6_HLTH_STS	IMU1_INERTIAL_D_SAMP_6_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
8	15	16	ASTA7064	IMU1S6_ORGA_TEMP	IMU1_INERTIAL_D_SAMP_6_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
9	17	16	ASTA7065	IMU1S6_SIA_TEMP	IMU1_INERTIAL_D_SAMP_6_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
10	19	32	ASTA7066	IMU1S6_TIMETAG	IMU1_INERTIAL_D_SAMP_6_TIMETAG	UINT	INTEGER	Z_IDENTITY
11	23	32	ASTA7067	IMU1S6_RAW_ANGLE	IMU1_INERTIAL_D_SAMP_6_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
12	27	8	ASTB7191	IMU2S6_ACQ_FLAG	IMU2_INERTIAL_D_SAMP_6_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
13	28	8	ASTB7192	IMU2S6_VALID_FLG	IMU2_INERTIAL_D_SAMP_6_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
14	29	32	ASTB7189	IMU2S6_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU2_INERTIAL_D_SAMP_6_ATTR_SEC	UINT	INTEGER	Z_IDS
15	33	16	ASTB7190	IMU2S6_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU2_INERTIAL_D_SAMP_6_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
16	35	32	ASTB7182	IMU2S6_FIL_ANG	IMU2_INERTIAL_D_SAMP_6_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
17	39	16	ASTB7183	IMU2S6_HLTH_STS	IMU2_INERTIAL_D_SAMP_6_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
18	41	16	ASTB7184	IMU2S6_ORGA_TEMP	IMU2_INERTIAL_D_SAMP_6_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
19	43	16	ASTB7185	IMU2S6_SIA_TEMP	IMU2_INERTIAL_D_SAMP_6_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
20	45	32	ASTB7186	IMU2S6_TIMETAG	IMU2_INERTIAL_D_SAMP_6_TIMETAG	UINT	INTEGER	Z_IDENTITY
21	49	32	ASTB7187	IMU2S6_RAW_ANGLE	IMU2_INERTIAL_D_SAMP_6_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
22	53	8	ASTC7311	IMU3S6_ACQ_FLAG	IMU3_INERTIAL_D_SAMP_6_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
23	54	8	ASTC7312	IMU3S6_VALID_FLG	IMU3_INERTIAL_D_SAMP_6_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
24	55	32	ASTC7309	IMU3S6_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU3_INERTIAL_D_SAMP_6_ATTR_SEC	UINT	INTEGER	Z_IDS
25	59	16	ASTC7310	IMU3S6_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU3_INERTIAL_D_SAMP_6_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
26	61	32	ASTC7302	IMU3S6_FIL_ANG	IMU3_INERTIAL_D_SAMP_6_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 2 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32116	IMU1234 Datasample6	3	25	11	6	182	Y	119	FIXED	AST00032	116	10000	Y	32116	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
27	65	16	ASTC7303	IMU3S6_HLTH_STS	IMU3_INERTIAL_D_SAMP_6_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
28	67	16	ASTC7304	IMU3S6_ORGA_TEMP	IMU3_INERTIAL_D_SAMP_6_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
29	69	16	ASTC7305	IMU3S6_SIA_TEMP	IMU3_INERTIAL_D_SAMP_6_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
30	71	32	ASTC7306	IMU3S6_TIMETAG	IMU3_INERTIAL_D_SAMP_6_TIMETAG	UINT	INTEGER	Z_IDENTITY
31	75	32	ASTC7307	IMU3S6_RAW_ANGLE	IMU3_INERTIAL_D_SAMP_6_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
32	79	8	ASTD7431	IMU4S6_ACQ_FLAG	IMU4_INERTIAL_D_SAMP_6_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
33	80	8	ASTD7432	IMU4S6_VALID_FLG	IMU4_INERTIAL_D_SAMP_6_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
34	81	32	ASTD7429	IMU4S6_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU4_INERTIAL_D_SAMP_6_ATTR_SEC	UINT	INTEGER	Z_IDS
35	85	16	ASTD7430	IMU4S6_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU4_INERTIAL_D_SAMP_6_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
36	87	32	ASTD7422	IMU4S6_FIL_ANG	IMU4_INERTIAL_D_SAMP_6_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
37	91	16	ASTD7423	IMU4S6_HLTH_STS	IMU4_INERTIAL_D_SAMP_6_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
38	93	16	ASTD7424	IMU4S6_ORGA_TEMP	IMU4_INERTIAL_D_SAMP_6_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
39	95	16	ASTD7425	IMU4S6_SIA_TEMP	IMU4_INERTIAL_D_SAMP_6_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
40	97	32	ASTD7426	IMU4S6_TIMETAG	IMU4_INERTIAL_D_SAMP_6_TIMETAG	UINT	INTEGER	Z_IDENTITY
41	101	32	ASTD7427	IMU4S6_RAW_ANGLE	IMU4_INERTIAL_D_SAMP_6_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY

Summary  
11.02.2013 16:38:18

Differences exist between documents.

**New Document:**

[ASY\\_ANC32116\\_TextualCalibration](#)

1 pages (15 KB)

11.02.2013 16:38:17

Used to display results.

**Old Document:**

[ASY\\_ANC32116\\_TextualCalibration](#)

1 pages (15 KB)

11.02.2013 16:38:17


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No pages were deleted

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# Sentinel-2

## SRDB Database Extract

TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 1

Name: ASKT2101TM Descr: ACQ\_STATUS

### Referenced by:

From	To	Text
------	----	------

ASTA7071	IMU1S6_ACQ_FLAG
ASTB7191	IMU2S6_ACQ_FLAG
ASTC7311	IMU3S6_ACQ_FLAG
ASTD7431	IMU4S6_ACQ_FLAG

0	NOT_ACQUIRED
1	ACQ_FAILED
2	ACQUIRED

Name: ASKT2102TM Descr: ACQ\_VALID\_FLAG

### Referenced by:

From	To	Text
------	----	------

ASTA7072	IMU1S6_VALID_FLG
ASTB7192	IMU2S6_VALID_FLG
ASTC7312	IMU3S6_VALID_FLG
ASTD7432	IMU4S6_VALID_FLG

0	INVALID
1	VALID

Summary  
11.02.2013 16:38:41

Differences exist between documents.

**New Document:**

[ASY\\_ANC32117](#)

2 pages (24 KB)

11.02.2013 16:38:39

Used to display results.

**Old Document:**

[ASY\\_ANC32117](#)

2 pages (23 KB)

11.02.2013 16:38:39

[Get started: first change is on page 1.](#)

No pages were deleted

## How to read this report

**Highlight** indicates a change.

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 indicates pages were moved.



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32117	IMU1234 Datasample7	3	25	11	6	182	Y	119	FIXED	AST00032	117	10000	Y	32117	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	ASTA7083	IMU1S7_ACQ_FLAG	IMU1_INERTIAL_D_SAMP_7_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	ASTA7084	IMU1S7_VALID_FLG	IMU1_INERTIAL_D_SAMP_7_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	ASTA7081	IMU1S7_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU1_INERTIAL_D_SAMP_7_ATTR_SEC	UINT	INTEGER	Z_IDS
5	7	16	ASTA7082	IMU1S7_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU1_INERTIAL_D_SAMP_7_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
6	9	32	ASTA7074	IMU1S7_FIL_ANG	IMU1_INERTIAL_D_SAMP_7_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
7	13	16	ASTA7075	IMU1S7_HLTH_STS	IMU1_INERTIAL_D_SAMP_7_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
8	15	16	ASTA7076	IMU1S7_ORGA_TEMP	IMU1_INERTIAL_D_SAMP_7_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
9	17	16	ASTA7077	IMU1S7_SIA_TEMP	IMU1_INERTIAL_D_SAMP_7_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
10	19	32	ASTA7078	IMU1S7_TIMETAG	IMU1_INERTIAL_D_SAMP_7_TIMETAG	UINT	INTEGER	Z_IDENTITY
11	23	32	ASTA7079	IMU1S7_RAW_ANGLE	IMU1_INERTIAL_D_SAMP_7_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
12	27	8	ASTB7203	IMU2S7_ACQ_FLAG	IMU2_INERTIAL_D_SAMP_7_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
13	28	8	ASTB7204	IMU2S7_VALID_FLG	IMU2_INERTIAL_D_SAMP_7_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
14	29	32	ASTB7201	IMU2S7_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU2_INERTIAL_D_SAMP_7_ATTR_SEC	UINT	INTEGER	Z_IDS
15	33	16	ASTB7202	IMU2S7_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU2_INERTIAL_D_SAMP_7_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
16	35	32	ASTB7194	IMU2S7_FIL_ANG	IMU2_INERTIAL_D_SAMP_7_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
17	39	16	ASTB7195	IMU2S7_HLTH_STS	IMU2_INERTIAL_D_SAMP_7_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
18	41	16	ASTB7196	IMU2S7_ORGA_TEMP	IMU2_INERTIAL_D_SAMP_7_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
19	43	16	ASTB7197	IMU2S7_SIA_TEMP	IMU2_INERTIAL_D_SAMP_7_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
20	45	32	ASTB7198	IMU2S7_TIMETAG	IMU2_INERTIAL_D_SAMP_7_TIMETAG	UINT	INTEGER	Z_IDENTITY
21	49	32	ASTB7199	IMU2S7_RAW_ANGLE	IMU2_INERTIAL_D_SAMP_7_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
22	53	8	ASTC7323	IMU3S7_ACQ_FLAG	IMU3_INERTIAL_D_SAMP_7_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
23	54	8	ASTC7324	IMU3S7_VALID_FLG	IMU3_INERTIAL_D_SAMP_7_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
24	55	32	ASTC7321	IMU3S7_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU3_INERTIAL_D_SAMP_7_ATTR_SEC	UINT	INTEGER	Z_IDS
25	59	16	ASTC7322	IMU3S7_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU3_INERTIAL_D_SAMP_7_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
26	61	32	ASTC7314	IMU3S7_FIL_ANG	IMU3_INERTIAL_D_SAMP_7_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 2 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32117	IMU1234 Datasample7	3	25	11	6	182	Y	119	FIXED	AST00032	117	10000	Y	32117	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
27	65	16	ASTC7315	IMU3S7_HLTH_STS	IMU3_INERTIAL_D_SAMP_7_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
28	67	16	ASTC7316	IMU3S7_ORGA_TEMP	IMU3_INERTIAL_D_SAMP_7_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
29	69	16	ASTC7317	IMU3S7_SIA_TEMP	IMU3_INERTIAL_D_SAMP_7_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
30	71	32	ASTC7318	IMU3S7_TIMETAG	IMU3_INERTIAL_D_SAMP_7_TIMETAG	UINT	INTEGER	Z_IDENTITY
31	75	32	ASTC7319	IMU3S7_RAW_ANGLE	IMU3_INERTIAL_D_SAMP_7_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
32	79	8	ASTD7443	IMU4S7_ACQ_FLAG	IMU4_INERTIAL_D_SAMP_7_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
33	80	8	ASTD7444	IMU4S7_VALID_FLG	IMU4_INERTIAL_D_SAMP_7_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
34	81	32	ASTD7441	IMU4S7_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU4_INERTIAL_D_SAMP_7_ATTR_SEC	UINT	INTEGER	Z_IDS
35	85	16	ASTD7442	IMU4S7_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU4_INERTIAL_D_SAMP_7_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
36	87	32	ASTD7434	IMU4S7_FIL_ANG	IMU4_INERTIAL_D_SAMP_7_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
37	91	16	ASTD7435	IMU4S7_HLTH_STS	IMU4_INERTIAL_D_SAMP_7_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
38	93	16	ASTD7436	IMU4S7_ORGA_TEMP	IMU4_INERTIAL_D_SAMP_7_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
39	95	16	ASTD7437	IMU4S7_SIA_TEMP	IMU4_INERTIAL_D_SAMP_7_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
40	97	32	ASTD7438	IMU4S7_TIMETAG	IMU4_INERTIAL_D_SAMP_7_TIMETAG	UINT	INTEGER	Z_IDENTITY
41	101	32	ASTD7439	IMU4S7_RAW_ANGLE	IMU4_INERTIAL_D_SAMP_7_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY



Summary  
11.02.2013 16:39:08

Differences exist between documents.

**New Document:**

[ASY\\_ANC32117\\_TextualCalibration](#)

1 pages (15 KB)

11.02.2013 16:39:07

Used to display results.

**Old Document:**

[ASY\\_ANC32117\\_TextualCalibration](#)

1 pages (15 KB)

11.02.2013 16:39:07


[Get started: first change is on page 1.](#)


No pages were deleted

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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 1

**Name:** ASKT2101TM **Descr:** ACQ\_STATUS

**Referenced by:**

From	To	Text
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ASTA7083	IMU1S7_ACQ_FLAG
ASTB7203	IMU2S7_ACQ_FLAG
ASTC7323	IMU3S7_ACQ_FLAG
ASTD7443	IMU4S7_ACQ_FLAG

0	NOT_ACQUIRED
1	ACQ_FAILED
2	ACQUIRED

**Name:** ASKT2102TM **Descr:** ACQ\_VALID\_FLAG

**Referenced by:**

From	To	Text
------	----	------

ASTA7084	IMU1S7_VALID_FLG
ASTB7204	IMU2S7_VALID_FLG
ASTC7324	IMU3S7_VALID_FLG
ASTD7444	IMU4S7_VALID_FLG

0	INVALID
1	VALID

Summary  
11.02.2013 16:39:29

Differences exist between documents.

**New Document:**

[ASY\\_ANC32118](#)

2 pages (24 KB)

11.02.2013 16:39:26

Used to display results.

**Old Document:**

[ASY\\_ANC32118](#)

2 pages (23 KB)

11.02.2013 16:39:26

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No pages were deleted

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32118	IMU1234 Datasample8	3	25	11	6	182	Y	119	FIXED	AST00032	118	10000	Y	32118	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	ASTA7095	IMU1S8_ACQ_FLAG	IMU1_INERTIAL_D_SAMP_8_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	ASTA7096	IMU1S8_VALID_FLG	IMU1_INERTIAL_D_SAMP_8_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	ASTA7093	IMU1S8_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU1_INERTIAL_D_SAMP_8_ATTR_SEC	UINT	INTEGER	Z_IDS
5	7	16	ASTA7094	IMU1S8_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU1_INERTIAL_D_SAMP_8_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
6	9	32	ASTA7086	IMU1S8_FIL_ANG	IMU1_INERTIAL_D_SAMP_8_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
7	13	16	ASTA7087	IMU1S8_HLTH_STS	IMU1_INERTIAL_D_SAMP_8_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
8	15	16	ASTA7088	IMU1S8_ORGA_TEMP	IMU1_INERTIAL_D_SAMP_8_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
9	17	16	ASTA7089	IMU1S8_SIA_TEMP	IMU1_INERTIAL_D_SAMP_8_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
10	19	32	ASTA7090	IMU1S8_TIMETAG	IMU1_INERTIAL_D_SAMP_8_TIMETAG	UINT	INTEGER	Z_IDENTITY
11	23	32	ASTA7091	IMU1S8_RAW_ANGLE	IMU1_INERTIAL_D_SAMP_8_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
12	27	8	ASTB7215	IMU2S8_ACQ_FLAG	IMU2_INERTIAL_D_SAMP_8_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
13	28	8	ASTB7216	IMU2S8_VALID_FLG	IMU2_INERTIAL_D_SAMP_8_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
14	29	32	ASTB7213	IMU2S8_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU2_INERTIAL_D_SAMP_8_ATTR_SEC	UINT	INTEGER	Z_IDS
15	33	16	ASTB7214	IMU2S8_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU2_INERTIAL_D_SAMP_8_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
16	35	32	ASTB7206	IMU2S8_FIL_ANG	IMU2_INERTIAL_D_SAMP_8_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
17	39	16	ASTB7207	IMU2S8_HLTH_STS	IMU2_INERTIAL_D_SAMP_8_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
18	41	16	ASTB7208	IMU2S8_ORGA_TEMP	IMU2_INERTIAL_D_SAMP_8_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
19	43	16	ASTB7209	IMU2S8_SIA_TEMP	IMU2_INERTIAL_D_SAMP_8_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
20	45	32	ASTB7210	IMU2S8_TIMETAG	IMU2_INERTIAL_D_SAMP_8_TIMETAG	UINT	INTEGER	Z_IDENTITY
21	49	32	ASTB7211	IMU2S8_RAW_ANGLE	IMU2_INERTIAL_D_SAMP_8_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
22	53	8	ASTC7335	IMU3S8_ACQ_FLAG	IMU3_INERTIAL_D_SAMP_8_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
23	54	8	ASTC7336	IMU3S8_VALID_FLG	IMU3_INERTIAL_D_SAMP_8_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
24	55	32	ASTC7333	IMU3S8_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU3_INERTIAL_D_SAMP_8_ATTR_SEC	UINT	INTEGER	Z_IDS
25	59	16	ASTC7334	IMU3S8_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU3_INERTIAL_D_SAMP_8_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
26	61	32	ASTC7326	IMU3S8_FIL_ANG	IMU3_INERTIAL_D_SAMP_8_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 2 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32118	IMU1234 Datasample8	3	25	11	6	182	Y	119	FIXED	AST00032	118	10000	Y	32118	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
27	65	16	ASTC7327	IMU3S8_HLTH_STS	IMU3_INERTIAL_D_SAMP_8_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
28	67	16	ASTC7328	IMU3S8_ORGA_TEMP	IMU3_INERTIAL_D_SAMP_8_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
29	69	16	ASTC7329	IMU3S8_SIA_TEMP	IMU3_INERTIAL_D_SAMP_8_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
30	71	32	ASTC7330	IMU3S8_TIMETAG	IMU3_INERTIAL_D_SAMP_8_TIMETAG	UINT	INTEGER	Z_IDENTITY
31	75	32	ASTC7331	IMU3S8_RAW_ANGLE	IMU3_INERTIAL_D_SAMP_8_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
32	79	8	ASTD7455	IMU4S8_ACQ_FLAG	IMU4_INERTIAL_D_SAMP_8_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
33	80	8	ASTD7456	IMU4S8_VALID_FLG	IMU4_INERTIAL_D_SAMP_8_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
34	81	32	ASTD7453	IMU4S8_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU4_INERTIAL_D_SAMP_8_ATTR_SEC	UINT	INTEGER	Z_IDS
35	85	16	ASTD7454	IMU4S8_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU4_INERTIAL_D_SAMP_8_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
36	87	32	ASTD7446	IMU4S8_FIL_ANG	IMU4_INERTIAL_D_SAMP_8_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
37	91	16	ASTD7447	IMU4S8_HLTH_STS	IMU4_INERTIAL_D_SAMP_8_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
38	93	16	ASTD7448	IMU4S8_ORGA_TEMP	IMU4_INERTIAL_D_SAMP_8_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
39	95	16	ASTD7449	IMU4S8_SIA_TEMP	IMU4_INERTIAL_D_SAMP_8_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
40	97	32	ASTD7450	IMU4S8_TIMETAG	IMU4_INERTIAL_D_SAMP_8_TIMETAG	UINT	INTEGER	Z_IDENTITY
41	101	32	ASTD7451	IMU4S8_RAW_ANGLE	IMU4_INERTIAL_D_SAMP_8_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY

Summary  
11.02.2013 16:39:47

Differences exist between documents.

**New Document:**

[ASY\\_ANC32118\\_TextualCalibration](#)

1 pages (15 KB)

11.02.2013 16:39:46

Used to display results.

**Old Document:**

[ASY\\_ANC32118\\_TextualCalibration](#)

1 pages (15 KB)

11.02.2013 16:39:46


[Get started: first change is on page 1.](#)


No pages were deleted

**How to read this report**

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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 1

**Name:** ASKT2101TM **Descr:** ACQ\_STATUS

**Referenced by:**

**From To Text**

ASTA7095 IMU1S8\_ACQ\_FLAG  
ASTB7215 IMU2S8\_ACQ\_FLAG  
ASTC7335 IMU3S8\_ACQ\_FLAG  
ASTD7455 IMU4S8\_ACQ\_FLAG

0 NOT\_ACQUIRED  
1 ACQ\_FAILED  
2 ACQUIRED

**Name:** ASKT2102TM **Descr:** ACQ\_VALID\_FLAG

**Referenced by:**

**From To Text**

ASTA7096 IMU1S8\_VALID\_FLG  
ASTB7216 IMU2S8\_VALID\_FLG  
ASTC7336 IMU3S8\_VALID\_FLG  
ASTD7456 IMU4S8\_VALID\_FLG

0 INVALID  
1 VALID

Summary  
11.02.2013 16:42:30

Differences exist between documents.

**New Document:**

[ASY\\_ANC32119](#)

2 pages (24 KB)

11.02.2013 16:42:28

Used to display results.

**Old Document:**

[ASY\\_ANC32119](#)

2 pages (23 KB)

11.02.2013 16:42:27

[Get started: first change is on page 1.](#)

No pages were deleted

## How to read this report

**Highlight** indicates a change.

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2\_77  
Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32119	IMU1234 Datasample9	3	25	11	6	182	Y	119	FIXED	AST00032	119	10000	Y	32119	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	ASTA7107	IMU1S9_ACQ_FLAG	IMU1_INERTIAL_D_SAMP_9_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	ASTA7108	IMU1S9_VALID_FLG	IMU1_INERTIAL_D_SAMP_9_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	ASTA7105	IMU1S9_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU1_INERTIAL_D_SAMP_9_ATTR_SEC	UINT	INTEGER	Z_IDS
5	7	16	ASTA7106	IMU1S9_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU1_INERTIAL_D_SAMP_9_ATTR_SUBSEC	UINT	INTEGER	Z_IDS16
6	9	32	ASTA7098	IMU1S9_FIL_ANG	IMU1_INERTIAL_D_SAMP_9_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
7	13	16	ASTA7099	IMU1S9_HLTH_STS	IMU1_INERTIAL_D_SAMP_9_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
8	15	16	ASTA7100	IMU1S9_ORGA_TEMP	IMU1_INERTIAL_D_SAMP_9_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
9	17	16	ASTA7101	IMU1S9_SIA_TEMP	IMU1_INERTIAL_D_SAMP_9_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
10	19	32	ASTA7102	IMU1S9_TIMETAG	IMU1_INERTIAL_D_SAMP_9_TIMETAG	UINT	INTEGER	Z_IDENTITY
11	23	32	ASTA7103	IMU1S9_RAW_ANGLE	IMU1_INERTIAL_D_SAMP_9_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
12	27	8	ASTB7227	IMU2S9_ACQ_FLAG	IMU2_INERTIAL_D_SAMP_9_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
13	28	8	ASTB7228	IMU2S9_VALID_FLG	IMU2_INERTIAL_D_SAMP_9_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
14	29	32	ASTB7225	IMU2S9_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU2_INERTIAL_D_SAMP_9_ATTR_SEC	UINT	INTEGER	Z_IDS
15	33	16	ASTB7226	IMU2S9_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU2_INERTIAL_D_SAMP_9_ATTR_SUBSEC	UINT	INTEGER	Z_IDS16
16	35	32	ASTB7218	IMU2S9_FIL_ANG	IMU2_INERTIAL_D_SAMP_9_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
17	39	16	ASTB7219	IMU2S9_HLTH_STS	IMU2_INERTIAL_D_SAMP_9_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
18	41	16	ASTB7220	IMU2S9_ORGA_TEMP	IMU2_INERTIAL_D_SAMP_9_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
19	43	16	ASTB7221	IMU2S9_SIA_TEMP	IMU2_INERTIAL_D_SAMP_9_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
20	45	32	ASTB7222	IMU2S9_TIMETAG	IMU2_INERTIAL_D_SAMP_9_TIMETAG	UINT	INTEGER	Z_IDENTITY
21	49	32	ASTB7223	IMU2S9_RAW_ANGLE	IMU2_INERTIAL_D_SAMP_9_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
22	53	8	ASTC7347	IMU3S9_ACQ_FLAG	IMU3_INERTIAL_D_SAMP_9_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
23	54	8	ASTC7348	IMU3S9_VALID_FLG	IMU3_INERTIAL_D_SAMP_9_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
24	55	32	ASTC7345	IMU3S9_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU3_INERTIAL_D_SAMP_9_ATTR_SEC	UINT	INTEGER	Z_IDS
25	59	16	ASTC7346	IMU3S9_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU3_INERTIAL_D_SAMP_9_ATTR_SUBSEC	UINT	INTEGER	Z_IDS16
26	61	32	ASTC7338	IMU3S9_FIL_ANG	IMU3_INERTIAL_D_SAMP_9_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 2 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32119	IMU1234 Datasample9	3	25	11	6	182	Y	119	FIXED	AST00032	119	10000	Y	32119	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
27	65	16	ASTC7339	IMU3S9_HLTH_STS	IMU3_INERTIAL_D_SAMP_9_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
28	67	16	ASTC7340	IMU3S9_ORGA_TEMP	IMU3_INERTIAL_D_SAMP_9_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
29	69	16	ASTC7341	IMU3S9_SIA_TEMP	IMU3_INERTIAL_D_SAMP_9_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
30	71	32	ASTC7342	IMU3S9_TIMETAG	IMU3_INERTIAL_D_SAMP_9_TIMETAG	UINT	INTEGER	Z_IDENTITY
31	75	32	ASTC7343	IMU3S9_RAW_ANGLE	IMU3_INERTIAL_D_SAMP_9_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
32	79	8	ASTD7467	IMU4S9_ACQ_FLAG	IMU4_INERTIAL_D_SAMP_9_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
33	80	8	ASTD7468	IMU4S9_VALID_FLG	IMU4_INERTIAL_D_SAMP_9_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
34	81	32	ASTD7465	IMU4S9_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU4_INERTIAL_D_SAMP_9_ATTR_SEC	UINT	INTEGER	Z_IDS
35	85	16	ASTD7466	IMU4S9_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU4_INERTIAL_D_SAMP_9_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
36	87	32	ASTD7458	IMU4S9_FIL_ANG	IMU4_INERTIAL_D_SAMP_9_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
37	91	16	ASTD7459	IMU4S9_HLTH_STS	IMU4_INERTIAL_D_SAMP_9_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
38	93	16	ASTD7460	IMU4S9_ORGA_TEMP	IMU4_INERTIAL_D_SAMP_9_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
39	95	16	ASTD7461	IMU4S9_SIA_TEMP	IMU4_INERTIAL_D_SAMP_9_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
40	97	32	ASTD7462	IMU4S9_TIMETAG	IMU4_INERTIAL_D_SAMP_9_TIMETAG	UINT	INTEGER	Z_IDENTITY
41	101	32	ASTD7463	IMU4S9_RAW_ANGLE	IMU4_INERTIAL_D_SAMP_9_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY

Summary  
11.02.2013 16:42:48

Differences exist between documents.

**New Document:**

[ASY\\_ANC32119\\_TextualCalibration](#)

1 pages (15 KB)

11.02.2013 16:42:47

Used to display results.

**Old Document:**

[ASY\\_ANC32119\\_TextualCalibration](#)

1 pages (15 KB)

11.02.2013 16:42:47


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# Sentinel-2

## SRDB Database Extract

TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 1

Name: ASKT2101TM Descr: ACQ\_STATUS

### Referenced by:

From	To	Text
------	----	------

ASTA7107	IMU1S9_ACQ_FLAG
ASTB7227	IMU2S9_ACQ_FLAG
ASTC7347	IMU3S9_ACQ_FLAG
ASTD7467	IMU4S9_ACQ_FLAG

0	NOT_ACQUIRED
1	ACQ_FAILED
2	ACQUIRED

Name: ASKT2102TM Descr: ACQ\_VALID\_FLAG

### Referenced by:

From	To	Text
------	----	------

ASTA7108	IMU1S9_VALID_FLG
ASTB7228	IMU2S9_VALID_FLG
ASTC7348	IMU3S9_VALID_FLG
ASTD7468	IMU4S9_VALID_FLG

0	INVALID
1	VALID

Summary  
11.02.2013 16:43:12

Differences exist between documents.

**New Document:**

[ASY\\_ANC32120](#)

2 pages (24 KB)

11.02.2013 16:43:10

Used to display results.

**Old Document:**

[ASY\\_ANC32120](#)

2 pages (23 KB)

11.02.2013 16:43:10

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No pages were deleted

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32120	IMU1234 Datasample10	3	25	11	6	182	Y	119	FIXED	AST00032	120	10000	Y	32120	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	ASTA7119	IMU1S10_ACQ_FLAG	IMU1_INERTIAL_D_SAMP_10_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	ASTA7120	IMU1S10_VLID_FLG	IMU1_INERTIAL_D_SAMP_10_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	ASTA7117	IMU1S10_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU1_INERTIAL_D_SAMP_10_ATTR_SEC	UINT	INTEGER	Z_IDS
5	7	16	ASTA7118	IMU1S10_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU1_INERTIAL_D_SAMP_10_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
6	9	32	ASTA7110	IMU1S10_FIL_ANG	IMU1_INERTIAL_D_SAMP_10_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
7	13	16	ASTA7111	IMU1S10_HLTH_STS	IMU1_INERTIAL_D_SAMP_10_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
8	15	16	ASTA7112	IMU1S10_ORG_TEMP	IMU1_INERTIAL_D_SAMP_10_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
9	17	16	ASTA7113	IMU1S10_SIA_TEMP	IMU1_INERTIAL_D_SAMP_10_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
10	19	32	ASTA7114	IMU1S10_TIMETAG	IMU1_INERTIAL_D_SAMP_10_TIMETAG	UINT	INTEGER	Z_IDENTITY
11	23	32	ASTA7115	IMU1S10_RAW_ANG	IMU1_INERTIAL_D_SAMP_10_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
12	27	8	ASTB7239	IMU2S10_ACQ_FLAG	IMU2_INERTIAL_D_SAMP_10_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
13	28	8	ASTB7240	IMU2S10_VLID_FLG	IMU2_INERTIAL_D_SAMP_10_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
14	29	32	ASTB7237	IMU2S10_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU2_INERTIAL_D_SAMP_10_ATTR_SEC	UINT	INTEGER	Z_IDS
15	33	16	ASTB7238	IMU2S10_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU2_INERTIAL_D_SAMP_10_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
16	35	32	ASTB7230	IMU2S10_FIL_ANG	IMU2_INERTIAL_D_SAMP_10_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
17	39	16	ASTB7231	IMU2S10_HLTH_STS	IMU2_INERTIAL_D_SAMP_10_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
18	41	16	ASTB7232	IMU2S10_ORG_TEMP	IMU2_INERTIAL_D_SAMP_10_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
19	43	16	ASTB7233	IMU2S10_SIA_TEMP	IMU2_INERTIAL_D_SAMP_10_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
20	45	32	ASTB7234	IMU2S10_TIMETAG	IMU2_INERTIAL_D_SAMP_10_TIMETAG	UINT	INTEGER	Z_IDENTITY
21	49	32	ASTB7235	IMU2S10_RAW_ANG	IMU2_INERTIAL_D_SAMP_10_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
22	53	8	ASTC7359	IMU3S10_ACQ_FLAG	IMU3_INERTIAL_D_SAMP_10_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
23	54	8	ASTC7360	IMU3S10_VLID_FLG	IMU3_INERTIAL_D_SAMP_10_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
24	55	32	ASTC7357	IMU3S10_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU3_INERTIAL_D_SAMP_10_ATTR_SEC	UINT	INTEGER	Z_IDS
25	59	16	ASTC7358	IMU3S10_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU3_INERTIAL_D_SAMP_10_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
26	61	32	ASTC7350	IMU3S10_FIL_ANG	IMU3_INERTIAL_D_SAMP_10_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 2 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32120	IMU1234 Datasample10	3	25	11	6	182	Y	119	FIXED	AST00032	120	10000	Y	32120	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
27	65	16	ASTC7351	IMU3S10_HLTH_STS	IMU3_INERTIAL_D_SAMP_10_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
28	67	16	ASTC7352	IMU3S10_ORG_TEMP	IMU3_INERTIAL_D_SAMP_10_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
29	69	16	ASTC7353	IMU3S10_SIA_TEMP	IMU3_INERTIAL_D_SAMP_10_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
30	71	32	ASTC7354	IMU3S10_TIMETAG	IMU3_INERTIAL_D_SAMP_10_TIMETAG	UINT	INTEGER	Z_IDENTITY
31	75	32	ASTC7355	IMU3S10_RAW_ANG	IMU3_INERTIAL_D_SAMP_10_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
32	79	8	ASTD7479	IMU4S10_ACQ_FLAG	IMU4_INERTIAL_D_SAMP_10_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
33	80	8	ASTD7480	IMU4S10_VLID_FLG	IMU4_INERTIAL_D_SAMP_10_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
34	81	32	ASTD7477	IMU4S10_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU4_INERTIAL_D_SAMP_10_ATTR_SEC	UINT	INTEGER	Z_IDS
35	85	16	ASTD7478	IMU4S10_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU4_INERTIAL_D_SAMP_10_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
36	87	32	ASTD7470	IMU4S10_FIL_ANG	IMU4_INERTIAL_D_SAMP_10_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
37	91	16	ASTD7471	IMU4S10_HLTH_STS	IMU4_INERTIAL_D_SAMP_10_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
38	93	16	ASTD7472	IMU4S10_ORG_TEMP	IMU4_INERTIAL_D_SAMP_10_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
39	95	16	ASTD7473	IMU4S10_SIA_TEMP	IMU4_INERTIAL_D_SAMP_10_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
40	97	32	ASTD7474	IMU4S10_TIMETAG	IMU4_INERTIAL_D_SAMP_10_TIMETAG	UINT	INTEGER	Z_IDENTITY
41	101	32	ASTD7475	IMU4S10_RAW_ANG	IMU4_INERTIAL_D_SAMP_10_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY

Summary  
11.02.2013 16:43:38

Differences exist between documents.

**New Document:**

[ASY\\_ANC32120\\_TextualCalibration](#)

1 pages (15 KB)

11.02.2013 16:43:36

Used to display results.

**Old Document:**

[ASY\\_ANC32120\\_TextualCalibration](#)

1 pages (15 KB)

11.02.2013 16:43:36


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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 1

**Name:** ASKT2101TM **Descr:** ACQ\_STATUS

**Referenced by:**

**From To Text**

ASTA7119 IMU1S10\_ACQ\_FLAG  
ASTB7239 IMU2S10\_ACQ\_FLAG  
ASTC7359 IMU3S10\_ACQ\_FLAG  
ASTD7479 IMU4S10\_ACQ\_FLAG

0 NOT\_ACQUIRED  
1 ACQ\_FAILED  
2 ACQUIRED

**Name:** ASKT2102TM **Descr:** ACQ\_VALID\_FLAG

**Referenced by:**

**From To Text**

ASTA7120 IMU1S10\_VLID\_FLG  
ASTB7240 IMU2S10\_VLID\_FLG  
ASTC7360 IMU3S10\_VLID\_FLG  
ASTD7480 IMU4S10\_VLID\_FLG

0 INVALID  
1 VALID

Summary  
11.02.2013 16:43:59

Differences exist between documents.

**New Document:**

[ASY\\_ANC32121](#)

3 pages (25 KB)

11.02.2013 16:43:56

Used to display results.

**Old Document:**

[ASY\\_ANC32121](#)

2 pages (23 KB)

11.02.2013 16:43:56


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No pages were deleted

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 3

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32121	AOCS-TM1	3	25	11	6	182	Y	300	FIXED	AST00032	121	10000	Y	32121	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	AST0A003	STR_1_SCV_OP	SCV STR_1 Operational Status	UINT	STRING	XXKT0019TM
3	2	8	AST0B003	STR_2_SCV_OP	SCV STR_2 Operational Status	UINT	STRING	XXKT0019TM
4	3	8	AST0C003	STR_3_SCV_OP	SCV STR_3 Operational Status	UINT	STRING	XXKT0019TM
5	4	8	AST08089	GPS_A_SCV_OP	SCV GPS_A Operational Status	UINT	STRING	XXKT0019TM
6	5	8	AST18089	GPS_B_SCV_OP	SCV GPS_B Operational Status	UINT	STRING	XXKT0019TM
7	6	8	ASTA7483	IMU_1_SCV_OP	SCV IMU_1 Operational Status	UINT	STRING	XXKT0019TM
8	7	8	ASTB7489	IMU_2_SCV_OP	SCV IMU_2 Operational Status	UINT	STRING	XXKT0019TM
9	8	8	ASTC7495	IMU_3_SCV_OP	SCV IMU_3 Operational Status	UINT	STRING	XXKT0019TM
10	9	8	ASTD7501	IMU_4_SCV_OP	SCV IMU_4 Operational Status	UINT	STRING	XXKT0019TM
11	10	8	AST82350	mode	Manager.MAN.Output: Current mode number	UINT	STRING	ASKT0022TM
12	11	8	AST82351	subMode	Manager.MAN.Output: Current sub-mode number	UINT	INTEGER	Cond. Calibr.
13	12	8	AST82352	gselsValid	Determinator.GSE.Output: GSE validity	UINT	INTEGER	Z_IDENTITY
14	13	8	AST82353	gseAttQualId	Determinator.GSE.Output: GSE attitude quality	UINT	INTEGER	Z_IDENTITY
15	14	32	AST82354	gseTimeCucRawVec_0_0	Determinator.GSE.GainLocal: Time of estimates in cuc format [0][0]	UINT	INTEGER	Z_IDENTITY
16	18	32	AST82355	gseTimeCucRawVec_0_1	Determinator.GSE.GainLocal: Time of estimates in cuc format [0][1]	UINT	INTEGER	Z_IDENTITY
17	22	32	AST82356	gseTimeCucRawVec_0_2	Determinator.GSE.GainLocal: Time of estimates in cuc format [0][2]	UINT	INTEGER	Z_IDENTITY
18	26	32	AST82357	gseTimeCucRawVec_0_3	Determinator.GSE.GainLocal: Time of estimates in cuc format [0][3]	UINT	INTEGER	Z_IDENTITY
19	30	32	AST82358	gseTimeCucRawVec_0_4	Determinator.GSE.GainLocal: Time of estimates in cuc format [0][4]	UINT	INTEGER	Z_IDENTITY
20	34	32	AST82359	gseTimeCucRawVec_1_0	Determinator.GSE.GainLocal: Time of estimates in cuc format [1][0]	UINT	INTEGER	Z_IDENTITY
21	38	32	AST82360	gseTimeCucRawVec_1_1	Determinator.GSE.GainLocal: Time of estimates in cuc format [1][1]	UINT	INTEGER	Z_IDENTITY
22	42	32	AST82361	gseTimeCucRawVec_1_2	Determinator.GSE.GainLocal: Time of estimates in cuc format [1][2]	UINT	INTEGER	Z_IDENTITY
23	46	32	AST82362	gseTimeCucRawVec_1_3	Determinator.GSE.GainLocal: Time of estimates in cuc format [1][3]	UINT	INTEGER	Z_IDENTITY
24	50	32	AST82363	gseTimeCucRawVec_1_4	Determinator.GSE.GainLocal: Time of estimates in cuc format [1][4]	UINT	INTEGER	Z_IDENTITY



# Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 2 of 3

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32121	AOCS-TM1	3	25	11	6	182	Y	300	FIXED	AST00032	121	10000	Y	32121	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
25	54	64	AST82364	gseAttEstVec_qVec_CJ_0_0	Determinator.GSE.Output: Attitude quaternion estimate vector part [0][0]	DOUI3	REAL	Z_IDENTITY
26	62	64	AST82365	gseAttEstVec_qVec_CJ_0_1	Determinator.GSE.Output: Attitude quaternion estimate vector part [0][1]	DOUI3	REAL	Z_IDENTITY
27	70	64	AST82366	gseAttEstVec_qVec_CJ_0_2	Determinator.GSE.Output: Attitude quaternion estimate vector part [0][2]	DOUI3	REAL	Z_IDENTITY
28	78	64	AST82367	gseAttEstVec_qVec_CJ_0_3	Determinator.GSE.Output: Attitude quaternion estimate vector part [0][3]	DOUI3	REAL	Z_IDENTITY
29	86	64	AST82368	gseAttEstVec_qVec_CJ_0_4	Determinator.GSE.Output: Attitude quaternion estimate vector part [0][4]	DOUI3	REAL	Z_IDENTITY
30	94	64	AST82369	gseAttEstVec_qVec_CJ_1_0	Determinator.GSE.Output: Attitude quaternion estimate vector part [1][0]	DOUI3	REAL	Z_IDENTITY
31	102	64	AST82370	gseAttEstVec_qVec_CJ_1_1	Determinator.GSE.Output: Attitude quaternion estimate vector part [1][1]	DOUI3	REAL	Z_IDENTITY
32	110	64	AST82371	gseAttEstVec_qVec_CJ_1_2	Determinator.GSE.Output: Attitude quaternion estimate vector part [1][2]	DOUI3	REAL	Z_IDENTITY
33	118	64	AST82372	gseAttEstVec_qVec_CJ_1_3	Determinator.GSE.Output: Attitude quaternion estimate vector part [1][3]	DOUI3	REAL	Z_IDENTITY
34	126	64	AST82373	gseAttEstVec_qVec_CJ_1_4	Determinator.GSE.Output: Attitude quaternion estimate vector part [1][4]	DOUI3	REAL	Z_IDENTITY
35	134	64	AST82374	gseAttEstVec_qVec_CJ_2_0	Determinator.GSE.Output: Attitude quaternion estimate vector part [2][0]	DOUI3	REAL	Z_IDENTITY
36	142	64	AST82375	gseAttEstVec_qVec_CJ_2_1	Determinator.GSE.Output: Attitude quaternion estimate vector part [2][1]	DOUI3	REAL	Z_IDENTITY
37	150	64	AST82376	gseAttEstVec_qVec_CJ_2_2	Determinator.GSE.Output: Attitude quaternion estimate vector part [2][2]	DOUI3	REAL	Z_IDENTITY
38	158	64	AST82377	gseAttEstVec_qVec_CJ_2_3	Determinator.GSE.Output: Attitude quaternion estimate vector part [2][3]	DOUI3	REAL	Z_IDENTITY
39	166	64	AST82378	gseAttEstVec_qVec_CJ_2_4	Determinator.GSE.Output: Attitude quaternion estimate vector part [2][4]	DOUI3	REAL	Z_IDENTITY
40	174	64	AST82379	gseAtEstVec_qSca_CJ_0_0	Determinator.GSE.Output: Attitude quaternion estimate scalar part [0][0]	DOUI3	REAL	Z_IDENTITY
41	182	64	AST82380	gseAtEstVec_qSca_CJ_0_1	Determinator.GSE.Output: Attitude quaternion estimate scalar part [0][1]	DOUI3	REAL	Z_IDENTITY
42	190	64	AST82381	gseAtEstVec_qSca_CJ_0_2	Determinator.GSE.Output: Attitude quaternion estimate scalar part [0][2]	DOUI3	REAL	Z_IDENTITY
43	198	64	AST82382	gseAtEstVec_qSca_CJ_0_3	Determinator.GSE.Output: Attitude quaternion estimate	DOUI3	REAL	Z_IDENTITY

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32121	AOCS-TM1		3_25	11	6	182	Y	300	FIXED	AST00032	121	10000	Y	32121	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
44	206	64	AST82383	gseAtEstVec_qSca_CJ_0_4	scalar part [0][3] Determinator.GSE.Output: Attitude quaternion estimate scalar part [0][4]	DOUI3	REAL	Z_IDENTITY
45	214	64	AST82384	gseImuRateEst_C_0	Determinator.GSE.Output: Estimate at latest IMU rate input [0]	DOUI3	REAL	Z_IDENTITY
46	222	64	AST82385	gseImuRateEst_C_1	Determinator.GSE.Output: Estimate at latest IMU rate input [1]	DOUI3	REAL	Z_IDENTITY
47	230	64	AST82386	gseImuRateEst_C_2	Determinator.GSE.Output: Estimate at latest IMU rate input [2]	DOUI3	REAL	Z_IDENTITY
48	238	64	AST82387	gseInnovStrA_U_0	Determinator.GSE.GainLocal: Innovation for str1 [0]	DOUI3	REAL	Z_IDENTITY
49	246	64	AST82388	gseInnovStrA_U_1	Determinator.GSE.GainLocal: Innovation for str1 [1]	DOUI3	REAL	Z_IDENTITY
50	254	64	AST82389	gseInnovStrA_U_2	Determinator.GSE.GainLocal: Innovation for str1 [2]	DOUI3	REAL	Z_IDENTITY
51	262	64	AST82390	gseInnovStrB_U_0	Determinator.GSE.GainLocal: Innovation for str2 [0]	DOUI3	REAL	Z_IDENTITY
52	270	64	AST82391	gseInnovStrB_U_1	Determinator.GSE.GainLocal: Innovation for str2 [1]	DOUI3	REAL	Z_IDENTITY
53	278	64	AST82392	gseInnovStrB_U_2	Determinator.GSE.GainLocal: Innovation for str2 [2]	DOUI3	REAL	Z_IDENTITY

Summary  
11.02.2013 16:44:53

Differences exist between documents.

**New Document:**

[ASY\\_ANC32121\\_TextualCalibration](#)

1 pages (15 KB)

11.02.2013 16:44:52

Used to display results.

**Old Document:**

[ASY\\_ANC32121\\_TextualCalibration](#)

1 pages (16 KB)

11.02.2013 16:44:52

[Get started: first change is on page 1.](#)

No pages were deleted

**How to read this report**

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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 1

Name: ASKT0022TM Descr: AOCS\_Mode

Referenced by:  
AST82350 mode

From	To	Text
0		SBM
1		IAM
2		NOM
3		OCM
4		SFM

Name: XXKT0019TM Descr: Unused\_Used

Referenced by:  
AST08089 GPS\_A\_SCV\_OP  
AST0A003 STR\_1\_SCV\_OP  
AST0B003 STR\_2\_SCV\_OP  
AST0C003 STR\_3\_SCV\_OP  
AST18089 GPS\_B\_SCV\_OP  
ASTA7483 IMU\_1\_SCV\_OP  
ASTB7489 IMU\_2\_SCV\_OP  
ASTC7495 IMU\_3\_SCV\_OP  
ASTD7501 IMU\_4\_SCV\_OP

From	To	Text
0		NOT_USEABLE
1		USEABLE

Summary  
11.02.2013 16:45:41

Differences exist between documents.

**New Document:**

[ASY\\_ANC32122](#)

1 pages (19 KB)

11.02.2013 16:45:39

Used to display results.

**Old Document:**

[ASY\\_ANC32122](#)

1 pages (19 KB)

11.02.2013 16:45:39


[Get started: first change is on page 1.](#)


No pages were deleted

## How to read this report

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 1

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32122	AOCS-TM2	3	25	11	6	182	Y	101	FIXED	AST00032	122	10000	Y	32122	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	AST82393	oopsValid	Determinator.OOP.Output: Flag indicating valid output	UINT	INTEGER	Z_IDENTITY
3	2	8	AST82394	oopQualId	Determinator.OOP.Output: Oop solution quality index	UINT	INTEGER	Z_IDENTITY
4	3	64	AST82395	oopPos_J_0	Determinator.OOP.Output: Propagated position in inertial frame [0]	DOUI3	REAL	Z_IDM
5	11	64	AST82396	oopPos_J_1	Determinator.OOP.Output: Propagated position in inertial frame [1]	DOUI3	REAL	Z_IDM
6	19	64	AST82397	oopPos_J_2	Determinator.OOP.Output: Propagated position in inertial frame [2]	DOUI3	REAL	Z_IDM
7	27	64	AST82398	oopVel_J_0	Determinator.OOP.Output: Propagated velocity in inertial frame [0]	DOUI3	REAL	Z_IDMPS
8	35	64	AST82399	oopVel_J_1	Determinator.OOP.Output: Propagated velocity in inertial frame [1]	DOUI3	REAL	Z_IDMPS
9	43	64	AST82400	oopVel_J_2	Determinator.OOP.Output: Propagated velocity in inertial frame [2]	DOUI3	REAL	Z_IDMPS
10	51	64	AST82401	oopOrbitAng	Determinator.OOP.Output: Orbit angle (argument of latitude, range 0,2pi)	DOUI3	REAL	Z_IDRAD
11	59	32	AST82402	oopOrbitNum	Determinator.OOP.Output: Orbit number	UINT	INTEGER	Z_IDENTITY
12	63	64	AST82403	oopTimeSec	Determinator.OOP.Output: Time stamp of propagated output data	DOUI3	REAL	Z_IDENTITY
13	71	64	AST82404	AO_oopGpsMjdUT1d	AOCS OOP UT1 as modified julian date (day)	DOUI3	REAL	Z_IDD
14	79	64	AST82405	AO_oopGpsMjdUT1f	AOCS OOP UT1 as modified julian date (fraction)	DOUI3	REAL	Z_IDD

Summary  
11.02.2013 16:46:01

Differences exist between documents.

**New Document:**

[ASY\\_ANC32124](#)

3 pages (38 KB)

11.02.2013 16:45:58

Used to display results.

**Old Document:**

[ASY\\_ANC32124](#)

4 pages (40 KB)

11.02.2013 16:45:58


[Get started: first change is on page 1.](#)


No pages were deleted

## How to read this report

**Highlight** indicates a change.

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 3

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32124	STR1 SDB Status Data Block	3	25	11	6	182	Y	66	FIXED	AST00032	124	10000	Y	32124	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	AST0A476	STR1_ST_D_ACQ	STR1_STATUS_DATA_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	AST0A477	STR1_ST_D_VAL	STR1_STATUS_DATA_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	AST0A480	STR1_SD_TSC	STR1_STATUS_DATA_TS_COARSE	UINT	INTEGER	Z_IDS
5	7	8	AST0A429	SID_1	ID of the structure / STR1_STATUS_DATA_BYTE_01	UINT	INTEGER	Z_IDENTITY
6	8	8	AST0A430	cycle_1	STR internal cycle number_1 / STR1_STATUS_DATA_BYTE_02	UINT	INTEGER	Z_IDENTITY
7	9	8	AST0A431	cycle_1	STR internal cycle number_2 / STR1_STATUS_DATA_BYTE_03	UINT	INTEGER	Z_IDENTITY
8	10	8	AST0A432	cycStartTimSt_1_1	Time stamp for cycle start_1 / STR1_STATUS_DATA_BYTE_04	UINT	INTEGER	Z_IDENTITY
9	11	8	AST0A433	cycStartTimSt_1_2	Time stamp for cycle start_2 / STR1_STATUS_DATA_BYTE_05	UINT	INTEGER	Z_IDENTITY
10	12	8	AST0A434	cycStartTimSt_1_3	Time stamp for cycle start_3 / STR1_STATUS_DATA_BYTE_06	UINT	INTEGER	Z_IDENTITY
11	13	8	AST0A435	cycStartTimSt_1_4	Time stamp for cycle start_4 / STR1_STATUS_DATA_BYTE_07	UINT	INTEGER	Z_IDENTITY
12	14	8	AST0A436	cycStartTimSt_1_5	Time stamp for cycle start_5 / STR1_STATUS_DATA_BYTE_08	UINT	INTEGER	Z_IDENTITY
13	15	8	AST0A437	cycStartTimSt_1_6	Time stamp for cycle start_6 / STR1_STATUS_DATA_BYTE_09	UINT	INTEGER	Z_IDENTITY
14	16	8	AST0A438	GloPar1SDB_1	Global Parameter 1 SDB / STR1_STATUS_DATA_BYTE_10			
	0	2	ASTD1020	cycleTriggerS_1	0: timer; 1: preprocessor; 2: external** Duplicated from SSTD0020 **	UINT	STRING	SSKT0008TM
	2	3	ASTD1021	opMode_1	STR operating mode** Duplicated from SSTD0021 **	UINT	STRING	SSKT0009TM
	5	1	ASTD1022	isStreakMode_1	1: streak processing mode is active** Duplicated from SSTD0022 **	UINT	STRING	XXKT0027TM
	6	2	ASTD1023	tecMode_1	Thermo electric cooler mode** Duplicated from SSTD0023 **	UINT	STRING	SSKT0010TM
15	17	8	AST0A439	GloPar2SDB_1	Global Parameter 2 SDB / STR1_STATUS_DATA_BYTE_11			
	0	1	ASTD1024	EepromErrApp_1	1: error in application part on EEPROM** Duplicated from SSTD0024 **	UINT	STRING	SSKT0011TM
	1	1	ASTD1025	EepromErrCal_1	1: error in calibration data part on EEPROM** Duplicated from SSTD0025 **	UINT	STRING	SSKT0011TM
	2	1	ASTD1026	ramError_1	1:RAM failure** Duplicated from SSTD0026 **	UINT	STRING	SSKT0011TM



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 2 of 3

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32124	STR1 SDB Status Data Block	3	25	11	6	182	Y	66	FIXED	AST00032	124	10000	Y	32124	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	3	1	ASTD1027	interfaceError_1	1:failure during interface initialisation** Duplicated from SSTD0027 **	UINT	STRING	SSKT0011TM
	4	1	ASTD1028	watchdogError_1	1:Reboot cause by watchdog timer** Duplicated from SSTD0028 **	UINT	STRING	SSKT0011TM
	5	1	ASTD1029	synchError_1	1:External synchronisation failed** Duplicated from SSTD0029 **	UINT	STRING	SSKT0011TM
	6	1	ASTD1030	timingError_1	1:processing exceeded timing constraints** Duplicated from SSTD0030 **	UINT	STRING	SSKT0011TM
	7	1	ASTD1031	fifoError_1	1:FIFO capacity exceeded** Duplicated from SSTD0031 **	UINT	STRING	SSKT0011TM
16	18	16	SST00032	targetTemp_1	target temperature	SINT	REAL	SSKP0012TM
17	20	16	SST00033	tempDetector_1	detector temperature	SINT	REAL	SSKP0012TM
18	22	16	SST00034	tempOptics_1	optics temperature	SINT	REAL	SSKP0012TM
19	24	16	SST00035	tempHousing_1	housing temperature	SINT	REAL	SSKP0012TM
20	26	8	AST0A448	numEdacErrors_1	number of errors detected by RAM EDAC / STR1_STATUS_DATA_BYTE_20	UINT	INTEGER	Z_IDENTITY
21	27	8	AST0A449	GloPar3SDB_1	Global Parameter 3 SDB / STR1_STATUS_DATA_BYTE_21			
	0	2	ASTD1037	syncSource_1	source selected for external synchronization** Duplicated from SSTD0037 **	UINT	STRING	SSKT0013TM
	2	6	ASTD1038	secSinTimSync_1	number of seconds since latest sychron.** Duplicated from SSTD0038 **	UINT	INTEGER	Z_IDS
22	28	8	AST0A450	meanBackgr_1_1	mean background_1 / STR1_STATUS_DATA_BYTE_22	UINT	INTEGER	Z_IDENTITY
23	29	8	AST0A451	meanBackgr_1_2	mean background_2 / STR1_STATUS_DATA_BYTE_23	UINT	INTEGER	Z_IDENTITY
24	30	8	AST0A452	numObjDetected_1_1	number of detected objects_1 / STR1_STATUS_DATA_BYTE_24	UINT	INTEGER	Z_IDENTITY
25	31	8	AST0A453	numObjDetected_1_2	number of detected objects_2 / STR1_STATUS_DATA_BYTE_25	UINT	INTEGER	Z_IDENTITY
26	32	8	AST0A454	numObjAcquired_1_1	number of acquired objects_1 / STR1_STATUS_DATA_BYTE_26	UINT	INTEGER	Z_IDENTITY
27	33	8	AST0A455	numObjAcquired_1_2	number of acquired objects_2 / STR1_STATUS_DATA_BYTE_27	UINT	INTEGER	Z_IDENTITY
28	34	8	AST0A456	numSinglePixR_1_1	number of single pixels removed by h/w_1 / STR1_STATUS_DATA_BYTE_28	UINT	INTEGER	Z_IDENTITY
29	35	8	AST0A457	numSinglePixR_1_2	number of single pixels removed by h/w_2 / STR1_STATUS_DATA_BYTE_29	UINT	INTEGER	Z_IDENTITY



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2\_77  
Page: 3 of 3

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32124	STR1 SDB Status Data Block	3	25	11	6	182	Y	66	FIXED	AST00032	124	10000	Y	32124	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
30	36	8	AST0A458	numEoDetected_1_1	number of extended objects detected by h/w_1 / STR1_STATUS_DATA_BYTE_30	UINT	INTEGER	Z_IDENTITY
31	37	8	AST0A459	numEoDetected_1_2	number of extended objects detected by h/w_2 / STR1_STATUS_DATA_BYTE_31	UINT	INTEGER	Z_IDENTITY
32	38	8	AST0A460	numStarsTracka_1	number of trackable stars / STR1_STATUS_DATA_BYTE_32	UINT	INTEGER	Z_IDENTITY
33	39	8	AST0A461	numStarsTrack_1	number of stars tracked /	UINT	INTEGER	Z_IDENTITY
34	40	8	AST0A462	numStarsForRa_1	number of stars used for rate determination / STR1_STATUS_DATA_BYTE_34	UINT	INTEGER	Z_IDENTITY
35	41	8	AST0A463	numStarsIdent_1	number of identified stars / STR1_STATUS_DATA_BYTE_35	UINT	INTEGER	Z_IDENTITY
36	42	8	AST0A464	numStarsUsedA_1	number of stars used for altit. Determinisation / STR1_STATUS_DATA_BYTE_36	UINT	INTEGER	Z_IDENTITY
37	43	8	AST0A465	numLostTrack_1	number of fall-backs from NAT to AAD / STR1_STATUS_DATA_BYTE_37	UINT	INTEGER	Z_IDENTITY
38	44	8	AST0A466	latestCommId_1_1	ID of latest recieved command_1 / STR1_STATUS_DATA_BYTE_38	UINT	INTEGER	Z_IDENTITY
39	45	8	AST0A467	latestCommId_1_2	ID of latest recieved command_2 / STR1_STATUS_DATA_BYTE_39	UINT	INTEGER	Z_IDENTITY
40	46	8	AST0A468	latestCmdRes_1	result of execution of the latest recieved command / STR1_STATUS_DATA_BYTE_40	UINT	INTEGER	Z_IDENTITY
41	47	8	AST0A469	numTcErrors_1	number of telecommand errors / STR1_STATUS_DATA_BYTE_41	UINT	INTEGER	Z_IDENTITY
42	48	8	AST0A470	GloPar4SDB_1	Global Parameter 4 SDB / STR1_STATUS_DATA_BYTE_42			
	0	4	ASTD1053	AttResult_1	last result of altitude determination** Duplicated from SSTD0053 **	SINT	STRING	SSKT0014TM
	4	4	ASTD1054	IdResult_1	last result of star identification error** Duplicated from SSTD0054 **	SINT	STRING	SSKT0015TM
43	49	8	AST0A471	!Int_1	integration time / STR1_STATUS_DATA_BYTE_43	UINT	INTEGER	Z_IDENTITY
44	50	8	AST0A472	offset_1_1	binarisation time_1 / STR1_STATUS_DATA_BYTE_44	UINT	INTEGER	Z_IDENTITY
45	51	8	AST0AA01	offset_1_2	binarisation time_2 / STR1_STATUS_DATA_BYTE_45	UINT	INTEGER	Z_IDENTITY

Summary  
11.02.2013 16:46:24

Differences exist between documents.

**New Document:**

[ASY\\_ANC32124\\_TextualCalibration](#)

2 pages (18 KB)

11.02.2013 16:46:23

Used to display results.

**Old Document:**

[ASY\\_ANC32124\\_TextualCalibration](#)

2 pages (18 KB)

11.02.2013 16:46:23


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# Sentinel-2

## SRDB Database Extract

TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 2

Name: ASKT2101TM Descr: ACQ\_STATUS

Referenced by:  
AST0A476 STR1\_ST\_D\_ACQ

From	To	Text
0		NOT_ACQUIRED
1		ACQ_FAILED
2		ACQUIRED

Name: ASKT2102TM Descr: ACQ\_VALID\_FLAG

Referenced by:  
AST0A477 STR1\_ST\_D\_VAL

From	To	Text
0		INVALID
1		VALID

Name: SSKT0008TM Descr: trigger source

Referenced by:  
ASTD1020 cycleTriggerS\_1

From	To	Text
0		TIMER
1		PREPROCESSOR
2		EXTERNAL

Name: SSKT0009TM Descr: operation mode

Referenced by:  
ASTD1021 opMode\_1

From	To	Text
0		MODEBOOT
2		MODESTANDBY
3		MODEPHOTO
4		MODEAADF
5		MODEAADW
7		MODENAT

Name: SSKT0010TM Descr: tech mode

Referenced by:  
ASTD1023 tecMode\_1

From	To	Text
0		COOLEROFF
1		COOLERCONTR
2		COOLERMAX

Name: SSKT0011TM Descr: error N/Y

Referenced by:  
ASTD1024 EepromErrApp\_1  
ASTD1025 EepromErrCal\_1  
ASTD1026 ramError\_1  
ASTD1027 interfaceError\_1  
ASTD1028 watchdogError\_1  
ASTD1029 synchError\_1  
ASTD1030 timingError\_1  
ASTD1031 fifoError\_1

From	To	Text
0		NOERROR
1		ERROR



# Sentinel-2

## SRDB Database Extract

### TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 2 of 2

Name: SSKT0013TM Descr: synch source

Referenced by:  
ASTD1037 syncSource\_1

From	To	Text
0		SYNCSOURCENONE
1		SYNCSOURCEPRIM
2		SYNCSOURCESEC
3		SYNCSOURCEANY

Name: SSKT0014TM Descr: attitude result

Referenced by:  
ASTD1053 AttResult\_1

From	To	Text
-7	-1	ATTFAILED
0	0	ATTNOTENOSTARS
1	1	ATTSUCCESS
2	2	ATTREFINED

Name: SSKT0015TM Descr: last star ident

Referenced by:  
ASTD1054 IdResult\_1

From	To	Text
-7	-2	STARIDFAILED
-1	-1	NOTENSTARS
0	0	STIDDLE
1	1	STIDSUCCESS
2	2	STIDRUNNING

Name: XXKT0027TM Descr: Inactive\_Active

Referenced by:  
ASTD1022 isStreakMode\_1

From	To	Text
0		INACTIVE
1		ACTIVE





Summary  
11.02.2013 16:46:46

Differences exist between documents.

**New Document:**

[ASY\\_ANC32125](#)

3 pages (38 KB)

11.02.2013 16:46:43

Used to display results.

**Old Document:**

[ASY\\_ANC32125](#)

4 pages (40 KB)

11.02.2013 16:46:43


[Get started: first change is on page 1.](#)

No pages were deleted

## How to read this report

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 3

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32125	STR2 SDB Status Data Block	3	25	11	6	182	Y	66	FIXED	AST00032	125	10000	Y	32125	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	AST0B476	STR2_ST_D_ACQ	STR2_STATUS_DATA_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	AST0B477	STR2_ST_D_VAL	STR2_STATUS_DATA_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	AST0B480	STR2_SD_TSC	STR2_STATUS_DATA_TS_COARSE	UINT	INTEGER	Z_IDS
5	7	8	AST0B429	SID_2	ID of the structure / STR2_STATUS_DATA_BYTE_01	UINT	INTEGER	Z_IDENTITY
6	8	8	AST0B430	cycle_2_1	STR internal cycle number_1 / STR2_STATUS_DATA_BYTE_02	UINT	INTEGER	Z_IDENTITY
7	9	8	AST0B431	cycle_2_2	STR internal cycle number_2 / STR2_STATUS_DATA_BYTE_03	UINT	INTEGER	Z_IDENTITY
8	10	8	AST0B432	cycStartTimSt_2_1	Time stamp for cycle start_1 / STR2_STATUS_DATA_BYTE_04	UINT	INTEGER	Z_IDENTITY
9	11	8	AST0B433	cycStartTimSt_2_2	Time stamp for cycle start_2 / STR2_STATUS_DATA_BYTE_05	UINT	INTEGER	Z_IDENTITY
10	12	8	AST0B434	cycStartTimSt_2_3	Time stamp for cycle start_3 / STR2_STATUS_DATA_BYTE_06	UINT	INTEGER	Z_IDENTITY
11	13	8	AST0B435	cycStartTimSt_2_4	Time stamp for cycle start_4 / STR2_STATUS_DATA_BYTE_07	UINT	INTEGER	Z_IDENTITY
12	14	8	AST0B436	cycStartTimSt_2_5	Time stamp for cycle start_5 / STR2_STATUS_DATA_BYTE_08	UINT	INTEGER	Z_IDENTITY
13	15	8	AST0B437	cycStartTimSt_2_6	Time stamp for cycle start_6 / STR2_STATUS_DATA_BYTE_09	UINT	INTEGER	Z_IDENTITY
14	16	8	AST0B438	GloPar1SDB_2	Global Parameter 1 SDB / STR2_STATUS_DATA_BYTE_10			
	0	2	ASTD3020	cycleTriggerS_2	0: timer; 1: preprocessor; 2: external** Duplicated from SSTD3020 **	UINT	STRING	SSKT0008TM
	2	3	ASTD3021	opMode_2	STR operating mode** Duplicated from SSTD3021 **	UINT	STRING	SSKT0009TM
	5	1	ASTD3022	isStreakMode_2	1: streak processing mode is active** Duplicated from SSTD3022 **	UINT	STRING	XXKT0027TM
	6	2	ASTD3023	tecMode_2	Thermo electric cooler mode** Duplicated from SSTD3023 **	UINT	STRING	SSKT0010TM
15	17	8	AST0B439	GloPar2SDB_2	Global Parameter 2 SDB / STR2_STATUS_DATA_BYTE_11			
	0	1	ASTD3024	EepromErrApp_2	1: error in application part on EEPROM** Duplicated from SSTD3024 **	UINT	STRING	SSKT0011TM
	1	1	ASTD3025	EepromErrCal_2	1: error in calibration data part on EEPROM** Duplicated from SSTD3025 **	UINT	STRING	SSKT0011TM
	2	1	ASTD3026	ramError_2	1:RAM failure** Duplicated from SSTD3026 **	UINT	STRING	SSKT0011TM



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2\_77  
Page: 2 of 3

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32125	STR2 SDB Status Data Block	3	25	11	6	182	Y	66	FIXED	AST00032	125	10000	Y	32125	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	3	1	ASTD3027	interfaceError_2	1:failure during interface initialisation** Duplicated from SSTD3027 **	UINT	STRING	SSKT0011TM
	4	1	ASTD3028	watchdogError_2	1:Reboot cause by watchdog timer** Duplicated from SSTD3028 **	UINT	STRING	SSKT0011TM
	5	1	ASTD3029	synchError_2	1:External synchronisation failed** Duplicated from SSTD3029 **	UINT	STRING	SSKT0011TM
	6	1	ASTD3030	timingError_2	1:processing exceeded timing constraints** Duplicated from SSTD3030 **	UINT	STRING	SSKT0011TM
	7	1	ASTD3031	fifoError_2	1:FIFO capacity exceeded** Duplicated from SSTD3031 **	UINT	STRING	SSKT0011TM
16	18	16	SST03032	targetTemp_2	target temperature	SINT	REAL	SSKP0012TM
17	20	16	SST03033	tempDetector_2	detector temperature	SINT	REAL	SSKP0012TM
18	22	16	SST03034	tempOptics_2	optics temperature	SINT	REAL	SSKP0012TM
19	24	16	SST03035	tempHousing_2	housing temperature	SINT	REAL	SSKP0012TM
20	26	8	AST0B448	numEdacErrors_2	number of errors detected by RAM EDAC / STR2_STATUS_DATA_BYTE_20	UINT	INTEGER	Z_IDENTITY
21	27	8	AST0B449	GloPar3SDB_2	Global Parameter 3 SDB / STR2_STATUS_DATA_BYTE_21			
	0	2	ASTD3037	syncSource_2	source selected for external synchronization** Duplicated from SSTD3037 **	UINT	STRING	SSKT0013TM
	2	6	ASTD3038	secSinTimSync_2	number of seconds since latest sychron.** Duplicated from SSTD3038 **	UINT	INTEGER	Z_IDS
22	28	8	AST0B450	meanBackgr_2_1	mean background_1 / STR2_STATUS_DATA_BYTE_22	UINT	INTEGER	Z_IDENTITY
23	29	8	AST0B451	meanBackgr_2_2	mean background_2 / STR2_STATUS_DATA_BYTE_23	UINT	INTEGER	Z_IDENTITY
24	30	8	AST0B452	numObjDetected_2_1	number of detected objects_1 / STR2_STATUS_DATA_BYTE_24	UINT	INTEGER	Z_IDENTITY
25	31	8	AST0B453	numObjDetected_2_2	number of detected objects_2 / STR2_STATUS_DATA_BYTE_25	UINT	INTEGER	Z_IDENTITY
26	32	8	AST0B454	numObjAcquired_2_1	number of acquired objects_1 / STR2_STATUS_DATA_BYTE_26	UINT	INTEGER	Z_IDENTITY
27	33	8	AST0B455	numObjAcquired_2_2	number of acquired objects_2 / STR2_STATUS_DATA_BYTE_27	UINT	INTEGER	Z_IDENTITY
28	34	8	AST0B456	numSinglePixR_2_1	number of single pixels removed by h/w_1 / STR2_STATUS_DATA_BYTE_28	UINT	INTEGER	Z_IDENTITY
29	35	8	AST0B457	numSinglePixR_2_2	number of single pixels removed by h/w_2 / STR2_STATUS_DATA_BYTE_29	UINT	INTEGER	Z_IDENTITY



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2\_77  
Page: 3 of 3

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32125	STR2 SDB Status Data Block	3	25	11	6	182	Y	66	FIXED	AST00032	125	10000	Y	32125	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
30	36	8	AST0B458	numEoDetected_2_1	number of extended objects detected by h/w_1 / STR2_STATUS_DATA_BYTE_30	UINT	INTEGER	Z_IDENTITY
31	37	8	AST0B459	numEoDetected_2_2	number of extended objects detected by h/w_2 / STR2_STATUS_DATA_BYTE_31	UINT	INTEGER	Z_IDENTITY
32	38	8	AST0B460	numStarsTracka_2	number of trackable stars / STR2_STATUS_DATA_BYTE_32	UINT	INTEGER	Z_IDENTITY
33	39	8	AST0B461	numStarsTrack_2	number of stars tracked /	UINT	INTEGER	Z_IDENTITY
34	40	8	AST0B462	numStarsForRa_2	number of stars used for rate determination / STR2_STATUS_DATA_BYTE_34	UINT	INTEGER	Z_IDENTITY
35	41	8	AST0B463	numStarsIdent_2	number of identified stars / STR2_STATUS_DATA_BYTE_35	UINT	INTEGER	Z_IDENTITY
36	42	8	AST0B464	numStarsUsedA_2	number of stars used for altit. Determinisation / STR2_STATUS_DATA_BYTE_36	UINT	INTEGER	Z_IDENTITY
37	43	8	AST0B465	numLostTrack_2	number of fall-backs from NAT to AAD / STR2_STATUS_DATA_BYTE_37	UINT	INTEGER	Z_IDENTITY
38	44	8	AST0B466	latestCommId_2_1	ID of latest recieved command_1 / STR2_STATUS_DATA_BYTE_38	UINT	INTEGER	Z_IDENTITY
39	45	8	AST0B467	latestCommId_2_2	ID of latest recieved command_2 / STR2_STATUS_DATA_BYTE_39	UINT	INTEGER	Z_IDENTITY
40	46	8	AST0B468	latestCmdRes_2	result of execution of the latest recieved command / STR2_STATUS_DATA_BYTE_40	UINT	INTEGER	Z_IDENTITY
41	47	8	AST0B469	numTcErrors_2	number of telecommand errors / STR2_STATUS_DATA_BYTE_41	UINT	INTEGER	Z_IDENTITY
42	48	8	AST0B470	GloPar4SDB_2	Global Parameter 4 SDB / STR2_STATUS_DATA_BYTE_42			
	0	4	ASTD3053	AttResult_2	last result of altitude determination** Duplicated from SSTD3053 **	SINT	STRING	SSKT0014TM
	4	4	ASTD3054	IdResult_2	last result of star identification error** Duplicated from SSTD3054 **	SINT	STRING	SSKT0015TM
43	49	8	AST0B471	Int_2	integration time / STR2_STATUS_DATA_BYTE_43	UINT	INTEGER	Z_IDENTITY
44	50	8	AST0B472	offset_2_1	binarisation time_1 / STR2_STATUS_DATA_BYTE_44	UINT	INTEGER	Z_IDENTITY
45	51	8	AST0BA01	offset_2_2	binarisation time_2 / STR2_STATUS_DATA_BYTE_45	UINT	INTEGER	Z_IDENTITY

Summary  
11.02.2013 16:47:17

Differences exist between documents.

**New Document:**

[ASY\\_ANC32125\\_TextualCalibration](#)

2 pages (18 KB)

11.02.2013 16:47:16

Used to display results.

**Old Document:**

[ASY\\_ANC32125\\_TextualCalibration](#)

2 pages (18 KB)

11.02.2013 16:47:16

[Get started: first change is on page 1.](#)

No pages were deleted

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# Sentinel-2

## SRDB Database Extract

TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 2

Name: ASKT2101TM Descr: ACQ\_STATUS

Referenced by:  
AST0B476 STR2\_ST\_D\_ACQ

From	To	Text
0		NOT_ACQUIRED
1		ACQ_FAILED
2		ACQUIRED

Name: ASKT2102TM Descr: ACQ\_VALID\_FLAG

Referenced by:  
AST0B477 STR2\_ST\_D\_VAL

From	To	Text
0		INVALID
1		VALID

Name: SSKT0008TM Descr: trigger source

Referenced by:  
ASTD3020 cycleTriggerS\_2

From	To	Text
0		TIMER
1		PREPROCESSOR
2		EXTERNAL

Name: SSKT0009TM Descr: operation mode

Referenced by:  
ASTD3021 opMode\_2

From	To	Text
0		MODEBOOT
2		MODESTANDBY
3		MODEPHOTO
4		MODEAADF
5		MODEAADW
7		MODENAT

Name: SSKT0010TM Descr: tech mode

Referenced by:  
ASTD3023 tecMode\_2

From	To	Text
0		COOLEROFF
1		COOLERCONTR
2		COOLERMAX

Name: SSKT0011TM Descr: error N/Y

Referenced by:  
ASTD3024 EepromErrApp\_2  
ASTD3025 EepromErrCal\_2  
ASTD3026 ramError\_2  
ASTD3027 interfaceError\_2  
ASTD3028 watchdogError\_2  
ASTD3029 synchError\_2  
ASTD3030 timingError\_2  
ASTD3031 fifoError\_2

From	To	Text
0		NOERROR
1		ERROR



# Sentinel-2

## SRDB Database Extract

TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 2 of 2

Name: SSKT0013TM Descr: synch source

Referenced by:  
ASTD3037 syncSource\_2

From	To	Text
0		SYNCSOURCENONE
1		SYNCSOURCEPRIM
2		SYNCSOURCESEC
3		SYNCSOURCEANY

Name: SSKT0014TM Descr: attitude result

Referenced by:  
ASTD3053 AttResult\_2

From	To	Text
-7	-1	ATTFAILED
0	0	ATTNOTENOSTARS
1	1	ATTSUCCESS
2	2	ATTREFINED

Name: SSKT0015TM Descr: last star ident

Referenced by:  
ASTD3054 IdResult\_2

From	To	Text
-7	-2	STARIDFAILED
-1	-1	NOTENSTARS
0	0	STIDDLE
1	1	STIDSUCCESS
2	2	STIDRUNNING

Name: XXKT0027TM Descr: Inactive\_Active

Referenced by:  
ASTD3022 isStreakMode\_2

From	To	Text
0		INACTIVE
1		ACTIVE



Summary  
11.02.2013 16:47:41

Differences exist between documents.

**New Document:**

[ASY\\_ANC32126](#)

3 pages (38 KB)

11.02.2013 16:47:38

Used to display results.

**Old Document:**

[ASY\\_ANC32126](#)

3 pages (38 KB)

11.02.2013 16:47:38


[Get started: first change is on page 1.](#)


No pages were deleted

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 3

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32126	STR3 SDB Status Data Block	3	25	11	6	182	Y	66	FIXED	AST00032	126	10000	Y	32126	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	AST0C476	STR3_ST_D_ACQ	STR3_STATUS_DATA_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	AST0C477	STR3_ST_D_VAL	STR3_STATUS_DATA_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	AST0C480	STR3_SD_TSC	STR3_STATUS_DATA_TS_COARSE	UINT	INTEGER	Z_IDS
5	7	8	AST0C429	SID_3	ID of the structure / STR3_STATUS_DATA_BYTE_01	UINT	INTEGER	Z_IDENTITY
6	8	8	AST0C430	cycle_3_1	STR internal cycle number_1 / STR3_STATUS_DATA_BYTE_02	UINT	INTEGER	Z_IDENTITY
7	9	8	AST0C431	cycle_3_2	STR internal cycle number_2 / STR3_STATUS_DATA_BYTE_03	UINT	INTEGER	Z_IDENTITY
8	10	8	AST0C432	cycStartTimSt_3_1	Time stamp for cycle start_1 / STR3_STATUS_DATA_BYTE_04	UINT	INTEGER	Z_IDENTITY
9	11	8	AST0C433	cycStartTimSt_3_2	Time stamp for cycle start_2 / STR3_STATUS_DATA_BYTE_05	UINT	INTEGER	Z_IDENTITY
10	12	8	AST0C434	cycStartTimSt_3_3	Time stamp for cycle start_3 / STR3_STATUS_DATA_BYTE_06	UINT	INTEGER	Z_IDENTITY
11	13	8	AST0C435	cycStartTimSt_3_4	Time stamp for cycle start_4 / STR3_STATUS_DATA_BYTE_07	UINT	INTEGER	Z_IDENTITY
12	14	8	AST0C436	cycStartTimSt_3_5	Time stamp for cycle start_5 / STR3_STATUS_DATA_BYTE_08	UINT	INTEGER	Z_IDENTITY
13	15	8	AST0C437	cycStartTimSt_3_6	Time stamp for cycle start_6 / STR3_STATUS_DATA_BYTE_09	UINT	INTEGER	Z_IDENTITY
14	16	8	AST0C438	GloPar1SDB_3	Global Parameter 1 SDB / STR3_STATUS_DATA_BYTE_10			
	0	2	ASTD6020	cycleTriggerS_3	0: timer; 1: preprocessor; 2: external** Duplicated from SSTD6020 **	UINT	STRING	SSKT0008TM
	2	3	ASTD6021	opMode_3	STR operating mode** Duplicated from SSTD6021 **	UINT	STRING	SSKT0009TM
	5	1	ASTD6022	isStreakMode_3	1: streak processing mode is active** Duplicated from SSTD6022 **	UINT	STRING	XXKT0027TM
	6	2	ASTD6023	tecMode_3	Thermo electric cooler mode** Duplicated from SSTD6023 **	UINT	STRING	SSKT0010TM
15	17	8	AST0C439	GloPar2SDB_3	Global Parameter 2 SDB / STR3_STATUS_DATA_BYTE_11			
	0	1	ASTD6024	EepromErrApp_3	1: error in application part on EEPROM** Duplicated from SSTD6024 **	UINT	STRING	SSKT0011TM
	1	1	ASTD6025	EepromErrCal_3	1: error in calibration data part on EEPROM** Duplicated from SSTD6025 **	UINT	STRING	SSKT0011TM
	2	1	ASTD6026	ramError_3	1:RAM failure** Duplicated from SSTD6026 **	UINT	STRING	SSKT0011TM



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2\_77  
Page: 2 of 3

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32126	STR3 SDB Status Data Block	3	25	11	6	182	Y	66	FIXED	AST00032	126	10000	Y	32126	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	3	1	ASTD6027	interfaceError_3	1:failure during interface initialisation** Duplicated from SSTD6027 **	UINT	STRING	SSKT0011TM
	5	1	ASTD6029	synchError_3	1:External synchronisation failed** Duplicated from SSTD6029 **	UINT	STRING	SSKT0011TM
	6	1	ASTD6030	timingError_3	1:processing exceeded timing constraints** Duplicated from SSTD6030 **	UINT	STRING	SSKT0011TM
	7	1	ASTD6031	fifoError_3	1:FIFO capacity exceeded** Duplicated from SSTD6031 **	UINT	STRING	SSKT0011TM
16	18	16	SST06032	targetTemp_3	target temperature	SINT	REAL	SSKP0012TM
17	20	16	SST06033	tempDetector_3	detector temperature	SINT	REAL	SSKP0012TM
18	22	16	SST06034	tempOptics_3	optics temperature	SINT	REAL	SSKP0012TM
19	24	16	SST06035	tempHousing_3	housing temperature	SINT	REAL	SSKP0012TM
20	26	8	AST0C448	numEdacErrors_3	number of errors detected by RAM EDAC / STR3_STATUS_DATA_BYTE_20	UINT	INTEGER	Z_IDENTITY
21	27	8	AST0C449	GloPar3SDB_3	Global Parameter 3 SDB / STR3_STATUS_DATA_BYTE_21			
	0	2	ASTD6037	syncSource_3	source selected for external synchronization** Duplicated from SSTD6037 **	UINT	STRING	SSKT0013TM
	2	6	ASTD6038	secSinTimSync_3	number of seconds since latest synchron.** Duplicated from SSTD6038 **	UINT	INTEGER	Z_IDS
22	28	8	AST0C450	meanBackgr_3_1	mean background_1 / STR3_STATUS_DATA_BYTE_22	UINT	INTEGER	Z_IDENTITY
23	29	8	AST0C451	meanBackgr_3_2	mean background_2 / STR3_STATUS_DATA_BYTE_23	UINT	INTEGER	Z_IDENTITY
24	30	8	AST0C452	numObjDetected_3_1	number of detected objects_1 / STR3_STATUS_DATA_BYTE_24	UINT	INTEGER	Z_IDENTITY
25	31	8	AST0C453	numObjDetected_3_2	number of detected objects_2 / STR3_STATUS_DATA_BYTE_25	UINT	INTEGER	Z_IDENTITY
26	32	8	AST0C454	numObjAcquired_3_1	number of acquired objects_1 / STR3_STATUS_DATA_BYTE_26	UINT	INTEGER	Z_IDENTITY
27	33	8	AST0C455	numObjAcquired_3_2	number of acquired objects_2 / STR3_STATUS_DATA_BYTE_27	UINT	INTEGER	Z_IDENTITY
28	34	8	AST0C456	numSinglePixR_3_1	number of single pixels removed by h/w_1 / STR3_STATUS_DATA_BYTE_28	UINT	INTEGER	Z_IDENTITY
29	35	8	AST0C457	numSinglePixR_3_2	number of single pixels removed by h/w_2 / STR3_STATUS_DATA_BYTE_29	UINT	INTEGER	Z_IDENTITY
30	36	8	AST0C458	numEoDetected_3_1	number of extended objects detected by h/w_1 / STR3_STATUS_DATA_BYTE_30	UINT	INTEGER	Z_IDENTITY



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2\_77  
Page: 3 of 3

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32126	STR3 SDB Status Data Block	3	25	11	6	182	Y	66	FIXED	AST00032	126	10000	Y	32126	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
31	37	8	AST0C459	numEoDetected_3_2	number of extended objects detected by h/w_2 / STR3_STATUS_DATA_BYTE_31	UINT	INTEGER	Z_IDENTITY
32	38	8	AST0C460	numStarsTracka_3	number of trackable stars / STR3_STATUS_DATA_BYTE_32	UINT	INTEGER	Z_IDENTITY
33	39	8	AST0C461	numStarsTrack_3	number of stars tracked /	UINT	INTEGER	Z_IDENTITY
34	40	8	AST0C462	numStarsForRa_3	number of stars used for rate determination / STR3_STATUS_DATA_BYTE_34	UINT	INTEGER	Z_IDENTITY
35	41	8	AST0C463	numStarsIdent_3	number of identified stars / STR3_STATUS_DATA_BYTE_35	UINT	INTEGER	Z_IDENTITY
36	42	8	AST0C464	numStarsUsedA_3	number of stars used for altit. Determinisation / STR3_STATUS_DATA_BYTE_36	UINT	INTEGER	Z_IDENTITY
37	43	8	AST0C465	numLostTrack_3	number of fall-backs from NAT to AAD / STR3_STATUS_DATA_BYTE_37	UINT	INTEGER	Z_IDENTITY
38	44	8	AST0C466	latestCommdId_3_1	ID of latest recieved command_1 / STR3_STATUS_DATA_BYTE_38	UINT	INTEGER	Z_IDENTITY
39	45	8	AST0C467	latestCommdId_3_2	ID of latest recieved command_2 / STR3_STATUS_DATA_BYTE_39	UINT	INTEGER	Z_IDENTITY
40	46	8	AST0C468	latestCmdRes_3	result of execution of the latest recieved command / STR3_STATUS_DATA_BYTE_40	UINT	INTEGER	Z_IDENTITY
41	47	8	AST0C469	numTcErrors_3	number of telecommand errors / STR3_STATUS_DATA_BYTE_41	UINT	INTEGER	Z_IDENTITY
42	48	8	AST0C470	GloPar4SDB_3	Global Parameter 4 SDB / STR3_STATUS_DATA_BYTE_42			
	0	4	ASTD6053	AttResult_3	last result of altitude determination** Duplicated from SSTD6053 **	SINT	STRING	SSKT0014TM
	4	4	ASTD6054	IdResult_3	last result of star identification error** Duplicated from SSTD6054 **	SINT	STRING	SSKT0015TM
43	49	8	AST0C471	tlnt_3	integration time / STR3_STATUS_DATA_BYTE_43	UINT	INTEGER	Z_IDENTITY
44	50	8	AST0C472	offset_3_1	binarisation time_1 / STR3_STATUS_DATA_BYTE_44	UINT	INTEGER	Z_IDENTITY
45	51	8	AST0CA01	offset_3_2	binarisation time_2 / STR3_STATUS_DATA_BYTE_45	UINT	INTEGER	Z_IDENTITY

Summary  
11.02.2013 16:48:03

Differences exist between documents.

**New Document:**

[ASY\\_ANC32126\\_TextualCalibration](#)

2 pages (18 KB)

11.02.2013 16:48:02

Used to display results.

**Old Document:**

[ASY\\_ANC32126\\_TextualCalibration](#)

2 pages (18 KB)

11.02.2013 16:48:01


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# Sentinel-2

## SRDB Database Extract

TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 2

Name: ASKT2101TM Descr: ACQ\_STATUS

Referenced by:  
AST0C476 STR3\_ST\_D\_ACQ

From	To	Text
0		NOT_ACQUIRED
1		ACQ_FAILED
2		ACQUIRED

Name: ASKT2102TM Descr: ACQ\_VALID\_FLAG

Referenced by:  
AST0C477 STR3\_ST\_D\_VAL

From	To	Text
0		INVALID
1		VALID

Name: SSKT0008TM Descr: trigger source

Referenced by:  
ASTD6020 cycleTriggerS\_3

From	To	Text
0		TIMER
1		PREPROCESSOR
2		EXTERNAL

Name: SSKT0009TM Descr: operation mode

Referenced by:  
ASTD6021 opMode\_3

From	To	Text
0		MODEBOOT
2		MODESTANDBY
3		MODEPHOTO
4		MODEAADF
5		MODEAADW
7		MODENAT

Name: SSKT0010TM Descr: tech mode

Referenced by:  
ASTD6023 tecMode\_3

From	To	Text
0		COOLEROFF
1		COOLERCONTR
2		COOLERMAX

Name: SSKT0011TM Descr: error N/Y

Referenced by:  
ASTD6024 EepromErrApp\_3  
ASTD6025 EepromErrCal\_3  
ASTD6026 ramError\_3  
ASTD6027 interfaceError\_3  
ASTD6029 synchError\_3  
ASTD6030 timingError\_3  
ASTD6031 fifoError\_3

From	To	Text
0		NOERROR
1		ERROR



# Sentinel-2

## SRDB Database Extract

TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 2 of 2

Name: SSKT0013TM Descr: synch source

Referenced by:  
ASTD6037 syncSource\_3

From	To	Text
0		SYNCSOURCENONE
1		SYNCSOURCEPRIM
2		SYNCSOURCESEC
3		SYNCSOURCEANY

Name: SSKT0014TM Descr: attitude result

Referenced by:  
ASTD6053 AttResult\_3

From	To	Text
-7	-1	ATTFAILED
0	0	ATTNOTENOSTARS
1	1	ATTSUCCESS
2	2	ATTREFINED

Name: SSKT0015TM Descr: last star ident

Referenced by:  
ASTD6054 IdResult\_3

From	To	Text
-7	-2	STARIDFAILED
-1	-1	NOTENSTARS
0	0	STIDDLE
1	1	STIDSUCCESS
2	2	STIDRUNNING

Name: XXKT0027TM Descr: Inactive\_Active

Referenced by:  
ASTD6022 isStreakMode\_3

From	To	Text
0		INACTIVE
1		ACTIVE



Summary  
11.02.2013 16:48:33

Differences exist between documents.

**New Document:**

[CJY\\_ANC17123](#)

3 pages (27 KB)

11.02.2013 16:48:30

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**Old Document:**

[CJY\\_ANC17123](#)

3 pages (26 KB)

11.02.2013 16:48:30


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No pages were deleted

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 3

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
CJY_ANC17123	FLI_MSI SAD Data	3	25	9	6	150	Y	87	FIXED	CJT00032	123	10000	Y	17123	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	32	CJT00602	MSI_A_SCV_OP	SCV MSI_A Operational Status	UINT	STRING	XXKT0019TM
3	5	32	CJT10602	MSI_B_SCV_OP	SCV MSI_B Operational Status	UINT	STRING	XXKT0019TM
4	9	16	CJT61000	MSI_MODE_ID_VCU_SA6	MSI VCU Mode Message (Data Word 0)	UINT	STRING	JHKT0073TM
5	11	32	CJT00611	RIUA_CSM_SCV_OP	SCV RIU_CSMDE_A Operational Status	UINT	STRING	XXKT0019TM
6	15	32	CJT10611	RIUB_CSM_SCV_OP	SCV RIU_CSMDE_B Operational Status	UINT	STRING	XXKT0019TM
7	19	32	CJT60071	MSI_INS_MODE_ID	Current MSI High Level mode Identifier	UINT	STRING	CJKT2010TM
8	23	16	CJT28020	THCT_1N_M1	Selected VCU unit Thermal HK 6 data word 20 containing ADC value of control thermistor thermal zone #1 DW_16 [SA14]	UINT	REAL	JHKP0121TM
9	25	16	CJT28029	THCT_10N_TELE	Selected VCU unit Thermal HK 6 data word 29 containing ADC value of control thermistor thermal zone #10 DW_25 [SA14]	UINT	REAL	JHKP0130TM
10	27	16	CJT28022	THCT_3N_ARM	Selected VCU unit Thermal HK 6 data word 22 containing ADC value of control thermistor thermal zone #3 DW_18 [SA14]	UINT	REAL	JHKP0123TM
11	29	16	CJT28021	THCT_2N_ARM	Selected VCU unit Thermal HK 6 data word 21 containing ADC value of control thermistor thermal zone #2 DW_17 [SA14]	UINT	REAL	JHKP0122TM
12	31	16	CJT28023	THCT_4N_TELE	Selected VCU unit Thermal HK 6 data word 23 containing ADC value of control thermistor thermal zone #4 DW_19 [SA14]	UINT	REAL	JHKP0124TM
13	33	16	CJT29005	THCT_14N_M1_SC	Selected VCU unit Thermal HK 7 data word 5 containing ADC value of control thermistor thermal zone #14 DW_1 [SA15]	UINT	REAL	JHKP0134TM
14	35	16	CJT29004	THCT_13N_M3_SC	Selected VCU unit Thermal HK 7 data word 4 containing ADC value of control thermistor thermal zone #13 DW_0 [SA15]	UINT	REAL	JHKP0133TM
15	37	16	CJT28031	THCT_12N_M2	Selected VCU unit Thermal HK 6 data word 31 containing ADC value of control thermistor thermal zone #12 DW_27 [SA14]	UINT	REAL	JHKP0132TM
16	39	16	CJT28026	THCT_7N_VFPA	Selected VCU unit Thermal HK 6 data word 26 containing ADC value of control thermistor thermal zone #7 DW_22 [SA14]	UINT	REAL	JHKP0127TM
17	41	16	CJT28028	THCT_9N_VFEE	Selected VCU unit Thermal HK 6 data word 28 containing ADC value of control thermistor thermal zone #9 DW_24 [SA14]	UINT	REAL	JHKP0129TM
18	43	16	CJT28025	THCT_6N_SFPA	Selected VCU unit Thermal HK 6 data word 25 containing	UINT	REAL	JHKP0126TM





## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 2 of 3

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
CJY_ANC17123	FLI_MSI SAD Data	3	25	9	6	150	Y	87	FIXED	CJT00032	123	10000	Y	17123	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
19	45	16	CJT28027	THCT_8N_SFEE	ADC value of control thermistor thermal zone #6 DW_21 [SA14] Selected VCU unit Thermal HK 6 data word 27 containing ADC value of control thermistor thermal zone #8 DW_23 [SA14]	UINT	REAL	JHKP0128TM
20	47	16	CJT28024	THCT_5N_SPLITBOT	Selected VCU unit Thermal HK 6 data word 24 containing ADC value of control thermistor thermal zone #5 DW_20 [SA14]	UINT	REAL	JHKP0125TM
21	49	16	CJT28030	THCT_11N_SPLITOP	Selected VCU unit Thermal HK 6 data word 30 containing ADC value of control thermistor thermal zone #11 DW_26 [SA14]	UINT	REAL	JHKP0131TM
22	51	16	TST00422	CSM_A1_Temp	MSI CSM Door - #1 Temp / ANY_2_1_1	UINT	REAL	TSKP0030TM
23	53	16	TST00423	CSM_A2_Temp	MSI CSM Frame - #1 Temp / ANY_2_1_2	UINT	REAL	TSKP0030TM
24	55	16	TST00424	CSM_A3_Temp	MSI CSM Thermal Shield - #1 Temp / ANY_2_1_3	UINT	REAL	TSKP0030TM
25	57	16	TST00344	GFA_BP-1_Temp	GFU Assembly Baseplate - #1 Temp / ANY_1_3_3	UINT	REAL	TSKP0030TM
26	59	16	TST00512	STA_ZM-1_Temp	STR Assembly Support Dome -Z - #1 Temp / ANY_2_5_11	UINT	REAL	TSKP0030TM
27	61	16	TST00349	STA_XP-1_Temp	STR Assembly Support Dome +X - #1 Temp / ANY_1_3_8	UINT	REAL	TSKP0030TM
28	63	16	TST00329	STA_XM-1_Temp	STR Assembly Support Dome -X - #1 Temp / ANY_1_2_8	UINT	REAL	TSKP0030TM
29	65	16	TST00313	STA_BP-1_Temp	STR Assembly Baseplate - #1 Temp / ANY_1_1_12	UINT	REAL	TSKP0030TM
30	67	16	TST00370	STA_YM-1_Temp	STR Assembly Support Dome -Y - #1 Temp / ANY_1_4_9	UINT	REAL	TSKP0030TM
31	69	16	JHTG6001	CSM_sw_flgA_nom	RIU_ACQUISITION_TABLE92_WORD2			
	0	1	JHTD6020	CSMDE_A_RD_ev_A	Evaluated RD switch status	UINT	STRING	XXKT0008TM
	1	1	JHTD6021	CSM_A_Dom_ev_A	Evaluated CSM domain status	UINT	STRING	CRKT1994TM
	2	1	JHTD6022	CSM_A_SM_ev_A	Evaluated SM position switch status	UINT	STRING	XXKT0008TM
	3	1	JHTD6023	CSM_A_CA_ev_A	Evaluated Calibration position switch status	UINT	STRING	XXKT0008TM
	4	1	JHTD6024	CSM_A_CL_ev_A	Evaluated Closed position switch status	UINT	STRING	XXKT0008TM
	5	1	JHTD6025	CSM_A_OP_ev_A	Evaluated Open position switch status	UINT	STRING	XXKT0008TM
	6	1	JHTD6026	CSM_A_RD_rd_A	Actual redunt RD switch status	UINT	STRING	XXKT0008TM
	7	1	JHTD6027	CSM_A_RD_nm_A	Actual nomin RD switch status	UINT	STRING	XXKT0008TM
	8	1	JHTD6028	CSM_A_SMpos_rd_A	Actual redunt SM position switch status	UINT	STRING	XXKT0008TM
	9	1	JHTD6029	CSM_A_SMpos_nm_A	Actual nomin SM position switch status	UINT	STRING	XXKT0008TM
	10	1	JHTD6030	CSM_A_CAprd_A	Actual redunt Calibration position switch status	UINT	STRING	XXKT0008TM
	11	1	JHTD6031	CSM_A_CAprd_nm_A	Actual nomin Calibration position switch status	UINT	STRING	XXKT0008TM
	12	1	JHTD6032	CSM_A_CLpos_rd_A	Actual redunt Closed position switch status	UINT	STRING	XXKT0008TM



# Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 3 of 3

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
CJY_ANC17123	FLI_MSI SAD Data	3	25	9	6	150	Y	87	FIXED	CJT00032	123	10000	Y	17123	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
32	13	1	JHTD6033	CSM_A_CLpos_nm_A	Actual nomin Closed position switch status	UINT	STRING	XXKT0008TM
	14	1	JHTD6034	CSM_A_OPpos_rd_A	Actual redunt Open position switch status	UINT	STRING	XXKT0008TM
	15	1	JHTD6035	CSM_A_OPpos_nm_A	Actual nomin Open position switch status	UINT	STRING	XXKT0008TM
	71	16	JHTG6101	CSM_sw_flgB_nom	RIU_ACQUISITION_TABLE94_WORD2			
	0	1	JHTD6120	CSMDE_A_RD_ev_B		UINT	STRING	XXKT0008TM
	1	1	JHTD6121	CSM_A_Dom_ev_B		UINT	STRING	CRKT1994TM
	2	1	JHTD6122	CSM_A_SM_ev_B		UINT	STRING	XXKT0008TM
	3	1	JHTD6123	CSM_A_CA_ev_B		UINT	STRING	XXKT0008TM
	4	1	JHTD6124	CSM_A_CL_ev_B		UINT	STRING	XXKT0008TM
	5	1	JHTD6125	CSM_A_OP_ev_B		UINT	STRING	XXKT0008TM
	6	1	JHTD6126	CSM_A_RD_rd_B		UINT	STRING	XXKT0008TM
	7	1	JHTD6127	CSM_A_RD_nm_B		UINT	STRING	XXKT0008TM
	8	1	JHTD6128	CSM_A_SMpos_rd_B		UINT	STRING	XXKT0008TM
	9	1	JHTD6129	CSM_A_SMpos_nm_B		UINT	STRING	XXKT0008TM
	10	1	JHTD6130	CSM_A_CApos_rd_B		UINT	STRING	XXKT0008TM
	11	1	JHTD6131	CSM_A_CApos_nm_B		UINT	STRING	XXKT0008TM
	12	1	JHTD6132	CSM_A_CLpos_rd_B		UINT	STRING	XXKT0008TM
	13	1	JHTD6133	CSM_A_CLpos_nm_B		UINT	STRING	XXKT0008TM
	14	1	JHTD6134	CSM_A_OPpos_rd_B		UINT	STRING	XXKT0008TM
	15	1	JHTD6135	CSM_A_OPpos_nm_B		UINT	STRING	XXKT0008TM

Summary  
11.02.2013 16:51:54

Differences exist between documents.

**New Document:**

[CJY\\_ANC17123\\_NumericalCalibration](#)

4 pages (24 KB)

11.02.2013 16:51:52

Used to display results.

**Old Document:**

[CJY\\_ANC17123\\_NumericalCalibration](#)

4 pages (24 KB)

11.02.2013 16:51:51


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**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2, 77  
Page: 1 of 4

Name: JHKP0121TM Descr: TEMP\_A\_THCT\_01N  
Unit: degC X Y  
Modelname: GENERIC

Referenced by:  
CJT28020 THCT\_1N\_M1

0 -1  
16383 51

Name: JHKP0122TM Descr: TEMP\_A\_THCT\_02N  
Unit: degC X Y  
Modelname: GENERIC

Referenced by:  
CJT28021 THCT\_2N\_ARM

0 -1  
16383 51

Name: JHKP0123TM Descr: TEMP\_A\_THCT\_03N  
Unit: degC X Y  
Modelname: GENERIC

Referenced by:  
CJT28022 THCT\_3N\_ARM

0 -1  
16383 51

Name: JHKP0124TM Descr: TEMP\_A\_THCT\_04N  
Unit: degC X Y  
Modelname: GENERIC

Referenced by:  
CJT28023 THCT\_4N\_TELE

0 -1  
16383 51

Name: JHKP0125TM Descr: TEMP\_A\_THCT\_05N  
Unit: degC X Y  
Modelname: GENERIC

Referenced by:  
CJT28024 THCT\_5N\_SPLITBOT

0 -1  
16383 51

Name: JHKP0126TM Descr: TEMP\_A\_M90\_M65\_THCT\_06N  
Unit: degC X Y  
Modelname: GENERIC

Referenced by:  
CJT28025 THCT\_6N\_SFPA

0 -101  
197 -100  
1453 -98  
3327 -95  
5197 -92  
6439 -90  
8304 -87  
10171 -84  
12032 -81  
13882 -78  
15727 -75  
16383 -74



**Sentinel-2**  
**SRDB Database Extract**  
**TM Numerical Calibration Curves**

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2, 77  
Page: 2 of 4

Name: JHKP0127TM Descr: TEMP\_A\_THCT\_07N  
Unit: degC X Y  
Modelname: GENERIC

Referenced by:  
CJT28026 THCT\_7N\_VFPA

0 -1  
16383 51

Name: JHKP0128TM Descr: TEMP\_A\_THCT\_08N  
Unit: degC X Y  
Modelname: GENERIC

Referenced by:  
CJT28027 THCT\_8N\_SFEE

0 -1  
16383 51

Name: JHKP0129TM Descr: TEMP\_A\_THCT\_09N  
Unit: degC X Y  
Modelname: GENERIC

Referenced by:  
CJT28028 THCT\_9N\_VFEE

0 -1  
16383 51

Name: JHKP0130TM Descr: TEMP\_A\_THCT\_10N  
Unit: degC X Y  
Modelname: GENERIC

Referenced by:  
CJT28029 THCT\_10N\_TELE

0 -1  
16383 51

Name: JHKP0131TM Descr: TEMP\_A\_THCT\_11N  
Unit: degC X Y  
Modelname: GENERIC

Referenced by:  
CJT28030 THCT\_11N\_SPLITOP

0 -1  
16383 51

Name: JHKP0132TM Descr: TEMP\_A\_THCT\_12N  
Unit: degC X Y  
Modelname: GENERIC

Referenced by:  
CJT28031 THCT\_12N\_M2

0 -1  
16383 51

Name: JHKP0133TM Descr: TEMP\_A\_THCT\_13N  
Unit: degC X Y  
Modelname: GENERIC

Referenced by:  
CJT29004 THCT\_13N\_M3\_SC

0 -1  
16383 51

Name: JHKP0134TM Descr: TEMP\_A\_THCT\_14N  
Unit: degC X Y  
Modelname: GENERIC

Referenced by:  
CJT29005 THCT\_14N\_M1\_SC

0 -1  
16383 51



# Sentinel-2

## SRDB Database Extract

### TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2 . 77  
Page: 3 of 4

Name: TSKP0030TM Descr: ANY\_BetaTherm\_generic

Unit: degC X Y

Referenced by:

TST00313 STA\_BP-1\_Temp  
TST00329 STA\_XM-1\_Temp  
TST00344 GFA\_BP-1\_Temp  
TST00349 STA\_XP-1\_Temp  
TST00370 STA\_YM-1\_Temp  
TST00422 CSM\_A1\_Temp  
TST00423 CSM\_A2\_Temp  
TST00424 CSM\_A3\_Temp  
TST00512 STA\_ZM-1\_Temp

Modelname: GENERIC

347	125
506	110
659	100
869	90
1158	80
1560	70
2124	60
2917	50
3112	48
3319	46
3541	44
3779	42
4033	40
4304	38
4594	36
4904	34
5233	32
5584	30
5958	28
6356	26
6564	25
6778	24
7225	22
7698	20
8197	18
8723	16
9276	14
9856	12
10463	10
11096	8
11754	6
12435	4
13140	2
13864	0
15749	-5
17701	-10
19664	-15
21577	-20



**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2 . 77  
Page: 4 of 4

23384	-25
25036	-30
26500	-35
27757	-40
28807	-45
29661	-50
30340	-55
30866	-60

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Summary  
11.02.2013 16:52:15

Differences exist between documents.

**New Document:**

[CJY\\_ANC17123\\_TextualCalibration](#)

2 pages (18 KB)

11.02.2013 16:52:13

Used to display results.

**Old Document:**

[CJY\\_ANC17123\\_TextualCalibration](#)

2 pages (18 KB)

11.02.2013 16:52:13


[Get started: first change is on page 1.](#)


No pages were deleted

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# Sentinel-2 SRDB Database Extract

TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 2

Name: CJKT2010TM Descr: MSI\_INS\_MODE\_ID

Referenced by:  
CJT60071 MSI\_INS\_MODE\_ID

From	To	Text
0		INS_SRV
1		INS_STB
2		INS_IDL
3		INS_IMG
4		INS_NOBS
5		INS_EOBS
6		INS_DASC
7		INS_ABSR
8		INS_VIC
9		INS_RAW
10		INS_TST
11		INS_DEC
12		INS_SBY_R
13		INS_SVR_R

Name: CRKT1994TM Descr: CSM\_domain

Referenced by:  
JHTD6021 CSM\_A\_Dom\_ev\_A  
JHTD6121 CSM\_A\_Dom\_ev\_B

From	To	Text
0		CALIB_DOMAIN
1		OPEN_DOMAIN

Name: JHKT0073TM Descr: MSI\_Mode\_Identifier

Referenced by:  
CJT61000 MSI\_MODE\_ID\_VCU\_SA

From	To	Text
1		STAND_BY_MODE
16		IDLE_MODE
256		IMAGE_MODE
1024		DECON_MODE
4369		TRANSITION_MOD



# Sentinel-2 SRDB Database Extract TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 2 of 2

Name: XXKT0008TM Descr: RelaySwClosed\_Open

## Referenced by:

From To Text

JHTD6020 CSMDE\_A\_RD\_ev\_A  
JHTD6022 CSM\_A\_SM\_ev\_A  
JHTD6023 CSM\_A\_CA\_ev\_A  
JHTD6024 CSM\_A\_CL\_ev\_A  
JHTD6025 CSM\_A\_OP\_ev\_A  
JHTD6026 CSM\_A\_RD\_rd\_A  
JHTD6027 CSM\_A\_RD\_nm\_A  
JHTD6028 CSM\_A\_SMpos\_rd\_A  
JHTD6029 CSM\_A\_SMpos\_nm\_A  
JHTD6030 CSM\_A\_CApos\_rd\_A  
JHTD6031 CSM\_A\_CApos\_nm\_A  
JHTD6032 CSM\_A\_CLpos\_rd\_A  
JHTD6033 CSM\_A\_CLpos\_nm\_A  
JHTD6034 CSM\_A\_OPpos\_rd\_A  
JHTD6035 CSM\_A\_OPpos\_nm\_A  
JHTD6120 CSMDE\_A\_RD\_ev\_B  
JHTD6122 CSM\_A\_SM\_ev\_B  
JHTD6123 CSM\_A\_CA\_ev\_B  
JHTD6124 CSM\_A\_CL\_ev\_B  
JHTD6125 CSM\_A\_OP\_ev\_B  
JHTD6126 CSM\_A\_RD\_rd\_B  
JHTD6127 CSM\_A\_RD\_nm\_B  
JHTD6128 CSM\_A\_SMpos\_rd\_B  
JHTD6129 CSM\_A\_SMpos\_nm\_B  
JHTD6130 CSM\_A\_CApos\_rd\_B  
JHTD6131 CSM\_A\_CApos\_nm\_B  
JHTD6132 CSM\_A\_CLpos\_rd\_B  
JHTD6133 CSM\_A\_CLpos\_nm\_B  
JHTD6134 CSM\_A\_OPpos\_rd\_B  
JHTD6135 CSM\_A\_OPpos\_nm\_B

0 RELAYSWCLOSED  
1 RELAY\_SW\_OPEN

Name: XXKT0019TM Descr: Unused\_Used

## Referenced by:

From To Text

CJT00602 MSI\_A\_SCV\_OP  
CJT00611 RIUA\_CSM\_SCV\_OP  
CJT10602 MSI\_B\_SCV\_OP  
CJT10611 RIUB\_CSM\_SCV\_OP

0 NOT\_USEABLE  
1 USEABLE

Summary  
11.02.2013 16:52:34

Differences exist between documents.

**New Document:**

[GSY\\_SCI37088](#)

2 pages (23 KB)

11.02.2013 16:52:32

Used to display results.

**Old Document:**

[GSY\\_SCI37088](#)

2 pages (23 KB)

11.02.2013 16:52:32

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37088	N_ScienceDataReport__SatellitesInView	212	1	48	6	774	Y	50	VAR_W	GST01688	SAT_IN_VIEW		Y	37088	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST01688	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST01689	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0168A	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0168B	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG02F7	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0168C	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST0168D	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0168E	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0168F	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG02F8	CONS_SVID_BLOCK__	CONS_SVID_BLOCK_E_B			
	0	3	GST01690	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01691	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	3	GST01692	BLOCK	GPS_SV_Block_type	UINT	STRING	GSKT0214TM
	14	1	GST01693	E	Ephemeris_data_available	UINT	STRING	GSKT0215TM
	15	1	GST01694	B	SV_temporarily_banned_flag	UINT	STRING	GSKT0216TM
8	10	8	GSTG02F9	ANT_X_N_M_S	ANT_X_N_M_S			
	0	4	GST01695	ANT	antenna_identifier	UINT	STRING	GSKT0217TM
	4	1	GST01696	X	SV_is_excluded_by_user	UINT	STRING	GSKT0218TM
	5	1	GST01697	N	SV_is_used_for_navigation_solution	UINT	STRING	GSKT0219TM
	6	1	GST01698	M	multipath_mitigation_masking	UINT	STRING	GSKT0220TM
	7	1	GST01699	S	GNSS_SV_antenna_masking	UINT	STRING	GSKT0221TM
9	11	8	GST0169A	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0222TM
10	12	8	GSTG02FA	URA_AL_FP_NU2	URA_AL_FP_NU2			
	0	5	GST0169B	URA	User_range_accuracy_index	UINT	INTEGER	Z_IDENTITY
	5	1	GST0169C	AL	alert_flag	UINT	INTEGER	Z_IDENTITY
	6	1	GST0169D	FP	Force_P_Y_tracking_flag	UINT	STRING	GSKT0223TM
	7	1	GST0169E	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
11	13	8	GSTG02FB	H1_H2_NU3	H1_H2_NU3			
	0	1	GST0169F	H1	Signal_and_data_health_for_1st_band	UINT	STRING	GSKT0224TM
	1	1	GST016A0	H2	Signal_and_data_health_for_2nd_band	UINT	STRING	GSKT0225TM
	2	6	GST016A1	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
12	14	32	GST016A2	PSEUDO_R_MSB	measured_pseudo_range_MSB_part	UINT	INTEGER	GSKP0347TM



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2, 77  
Page: 2 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37088	N_ScienceDataReport__SatellitesInView	212	1	48	6	774	Y	50	VAR_W	GST01688	SAT_IN_VIEW		Y	37088	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
13	18	16	GST016A3	PSEUDO_R_LSB	measured_pseudo_range_LSB_part	UINT	INTEGER	Z_IDMM
14	20	32	GST016A4	DELTA_R	measured_delta_range	SINT	INTEGER	GSKP0226TM
15	24	16	GST016A5	ZENITH_t0	zenith_angle_at_time_t0	UINT	INTEGER	GSKP0227TM
16	26	16	GST016A6	AZ_t0	azimuth_angle_at_time_t0	SINT	INTEGER	GSKP0228TM
17	28	16	GST016A7	ZENITH_t1	zenith_angle_at_time_t1	UINT	INTEGER	GSKP0227TM
18	30	16	GST016A8	AZ_t1	azimuth_angle_at_time_t1	SINT	INTEGER	GSKP0228TM
19	32	16	GST016A9	ATT_UNC	Attitude_uncertainty	UINT	INTEGER	GSKP0229TM
20	34	16	GST016AA	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY

Summary  
11.02.2013 16:53:04

Differences exist between documents.

**New Document:**

[GSY\\_SCI37088\\_NumericalCalibration](#)

1 pages (19 KB)

11.02.2013 16:53:03

Used to display results.

**Old Document:**

[GSY\\_SCI37088\\_NumericalCalibration](#)

1 pages (16 KB)

11.02.2013 16:53:03


[Get started: first change is on page 1.](#)


No pages were deleted

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# Sentinel-2 SRDB Database Extract TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2 . 77  
Page: 1 of 1

Name: GSKP0226TM Descr: DELTA\_RNG  
Unit: m/s X Y  
Referenced by: GST016A4 DELTA\_R

Modelname: GENERIC

-2147483648 -21474.83648  
2147483647 21474.83647

Name: GSKP0227TM Descr: ZENITH\_t0  
Unit: deg X Y  
Referenced by: GST016A5 ZENITH\_t0  
GST016A7 ZENITH\_t1

Modelname: GENERIC

0 0  
65535 655.35

Name: GSKP0228TM Descr: AZ\_t0  
Unit: deg X Y  
Referenced by: GST016A6 AZ\_t0  
GST016A8 AZ\_t1

Modelname: GENERIC

-32768 -327.68  
32767 327.67

Name: GSKP0229TM Descr: ATT\_UNC  
Unit: deg X Y  
Referenced by: GST016A9 ATT\_UNC

Modelname: GENERIC

0 0  
65535 65.535

Name: GSKP0347TM Descr: MaxPosErrAlm  
Unit: m X Y  
Referenced by: GST016A2 PSEUDO\_R\_MSB

Modelname: GENERIC

0 0  
4294967295 4294967.295

Name: Z\_IDMM Descr: Identity millimetre [mm]  
Unit: mm X Y  
Referenced by: GST016A3 PSEUDO\_R\_LSB

Modelname: GENERIC

Summary  
11.02.2013 16:53:23

Differences exist between documents.

**New Document:**

[GSY\\_SCI37088\\_TextualCalibration](#)

8 pages (27 KB)

11.02.2013 16:53:22

Used to display results.

**Old Document:**

[GSY\\_SCI37088\\_TextualCalibration](#)

8 pages (27 KB)

11.02.2013 16:53:21


[Get started: first change is on page 1.](#)

No pages were deleted

**How to read this report**

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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 8

Name: GSKT0214TM Descr: BLOCK

Referenced by:  
GST01692 BLOCK

From	To	Text
0		BLOCK_I
1		BLOCK_IIIIAIR
2		BLOCK_IIR-M
3		BLOCK_IIF
7		BLOCK_UNKNOWN

Name: GSKT0215TM Descr: E

Referenced by:  
GST01693 E

From	To	Text
0		NO_EPHEMERIS_A
1		EPHEMERIS_AVAI

Name: GSKT0216TM Descr: B

Referenced by:  
GST01694 B

From	To	Text
0		SV_NOT_BANNED
1		SV_TEMP_BANNED

Name: GSKT0217TM Descr: ANT

Referenced by:  
GST01695 ANT

From	To	Text
0		FIRST_ANTENNA
1		SECOND_ANTENNA

Name: GSKT0218TM Descr: X

Referenced by:  
GST01696 X

From	To	Text
0		SV_NOT_EXCLUDE
1		SV_EXCLUDED

Name: GSKT0219TM Descr: N

Referenced by:  
GST01697 N

From	To	Text
0		SV_NOT_USED_FO
1		SV_USED_FOR_NA

Name: GSKT0220TM Descr: M

Referenced by:  
GST01698 M

From	To	Text
0		SV_NOT_EXCLUDE
1		SV_EXCLUDED_DU

Name: GSKT0221TM Descr: S

Referenced by:  
GST01699 S

From	To	Text
0		SV_NOT_EXCLUDE
1		SV_EXCLUDED_DU



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 2 of 8

Name: GSKT0222TM Descr: MFC\_TS

Referenced by:  
GST0169A MFC\_TS

From	To	Text
0		NO_MEASDATA_AV
1		CODE_ACQUISITI
2		CODE_ACQUISITI
3		CODE_TRACKING_
4		CODE_AND_CARRI
5		CODE_AND_CARRI
6		FINAL_TRACKING
7		FINAL_TRACKING
8		FINAL_TRACKING
9		FINAL_TRACKING
10		FINAL_TRACKING
11		FINAL_TRACKING

Name: GSKT0223TM Descr: FP

Referenced by:  
GST0169D FP

From	To	Text
0		L2CM_USED
1		PY_USED

Name: GSKT0224TM Descr: H1

Referenced by:  
GST0169F H1

From	To	Text
0		L1_AND_DATA_HE
1		L1_OR_DATA_UNH

Name: GSKT0225TM Descr: H2

Referenced by:  
GST016A0 H2

From	To	Text
0		L2_AND_DATA_HE
1		L2_OR_DATA_UNH



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 3 of 8

Name: GSKT0293TM Descr: SID

Referenced by:  
GST01688 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST

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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 4 of 8

Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0168A FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 5 of 8

81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 6 of 8

131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 8 of 8

231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:  
GST0168D V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

Name: GSKT0300TM Descr: R\_MODE

Referenced by:  
GST0168E R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

Name: GSKT0345TM Descr: CONS

Referenced by:  
GST01690 CONS

From	To	Text
0		GPS_CONSTELLAT





Summary  
11.02.2013 16:53:44

Differences exist between documents.

**New Document:**

[GSY\\_SCI37089](#)

1 pages (19 KB)

11.02.2013 16:53:42

Used to display results.

**Old Document:**

[GSY\\_SCI37089](#)

1 pages (19 KB)

11.02.2013 16:53:42


[Get started: first change is on page 1.](#)

No pages were deleted

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 1

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37089	N_SciDa__ScienceDataReport__CarrierPhase	212	1	48	6	774	Y	38	VAR_W	GST01688	CARR_PHASE		Y	37089	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST01688	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST016BE	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST016BF	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST016C0	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG02FC	SN_V_RMODE	SN_V_RMODE			
	0	4	GST016C1	SN	Serial_Number__not_used_	UINT	INTEGER	Z_IDENTITY
	4	1	GST016C2	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST016C3	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST016C4	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG02FD	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST016C5	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST016C6	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST016C7	SIG	Signal_type	UINT	STRING	GSKT0230TM
8	10	8	GSTG02FE	ANT_D_NU2	ANT_D_NU2			
	0	4	GST016C8	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	1	GST016C9	D	Deterioration_flag	UINT	STRING	GSKT0232TM
	5	3	GST016CA	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
9	11	8	GST016CB	SF_CHN	channel_number	UINT	INTEGER	Z_IDENTITY
10	12	32	GST016CC	NCO_PHASE_MSB	Carrier_cycle_count_and_Carrier_NCO_phase_MSB_part	SINT	INTEGER	GSKP0233TM
11	16	32	GST016CD	NCO_PHASE_LSB	Carrier_cycle_count_and_Carrier_NCO_phase_LSB_part	UINT	INTEGER	GSKP0234TM
12	20	32	GST016CE	DELTA_RNG	Delta_range	SINT	INTEGER	GSKP0226TM

Summary  
11.02.2013 16:54:02

Differences exist between documents.

**New Document:**

[GSY\\_SCI37089\\_NumericalCalibration](#)

1 pages (16 KB)

11.02.2013 16:54:01

Used to display results.

**Old Document:**

[GSY\\_SCI37089\\_NumericalCalibration](#)

1 pages (16 KB)

11.02.2013 16:54:01

[Get started: first change is on page 1.](#)

No pages were deleted

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**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2 . 77  
Page: 1 of 1

**Name:** GSKP0226TM **Descr:** DELTA\_RNG **Referenced by:**  
**Unit:** m/s X Y GST016CE DELTA\_RNG

**Modelname:** GENERIC

~~-2147483648~~ ~~-21474.83648~~  
~~2147483647~~ ~~21474.83647~~

**Name:** GSKP0233TM **Descr:** NCO\_PHASE\_MSB **Referenced by:**  
**Unit:** cacy X Y GST016CC NCO\_PHASE\_MSB

**Modelname:** GENERIC

~~-2147483648~~ -524288  
~~2147483647~~ ~~524287.9997559~~

**Name:** GSKP0234TM **Descr:** NCO\_PHASE\_LSB **Referenced by:**  
**Unit:** cacy X Y GST016CD NCO\_PHASE\_LSB

**Modelname:** GENERIC

0 0  
~~4294967295~~ ~~1048575.999756~~

Summary  
11.02.2013 16:54:25

Differences exist between documents.

**New Document:**

[GSY\\_SCI37089\\_TextualCalibration](#)

6 pages (24 KB)

11.02.2013 16:54:23

Used to display results.

**Old Document:**

[GSY\\_SCI37089\\_TextualCalibration](#)

6 pages (23 KB)

11.02.2013 16:54:23


[Get started: first change is on page 1.](#)


No pages were deleted

## How to read this report

**Highlight** indicates a change.

**Deleted** indicates deleted content.

 indicates pages were changed.

 indicates pages were moved.



# Sentinel-2

## SRDB Database Extract

TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 6

Name: GSKT0230TM Descr: SIG

Referenced by:  
GST016C7 SIG

From	To	Text
0		GPS_L1_CA
1		GPS_L1_P
2		GPS_L2_CA
3		GPS_L2_P
4		GPS_L2_CM
5		GPS_L2_CL
6		NO_SIGNAL

Name: GSKT0231TM Descr: ANT

Referenced by:  
GST016C8 ANT

From	To	Text
0		FIRST_ANTENNA
1		SECOND_ANTENNA

Name: GSKT0232TM Descr: D

Referenced by:  
GST016C9 D

From	To	Text
0		STEADY_CARRIER
1		UNSTEADY_CARRI

Name: GSKT0293TM Descr: SID

Referenced by:  
GST01688 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 2 of 6

Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST016BF FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 3 of 6

81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
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100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2





**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 4 of 6

131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 5 of 6

181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 6 of 6

231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:  
GST016C2 V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

Name: GSKT0300TM Descr: R\_MODE

Referenced by:  
GST016C3 R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

Name: GSKT0345TM Descr: CONS

Referenced by:  
GST016C5 CONS

From	To	Text
0		GPS_CONSTELLAT

Summary  
11.02.2013 16:54:52

Differences exist between documents.

**New Document:**

[GSY\\_SCI37090](#)

1 pages (19 KB)

11.02.2013 16:54:50

Used to display results.

**Old Document:**

[GSY\\_SCI37090](#)

1 pages (19 KB)

11.02.2013 16:54:50


[Get started: first change is on page 1.](#)


No pages were deleted

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# Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2, 77  
Page: 1 of 1

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37090	N_SciData__ScienceDataReport__CodePhas	212	1	48	6	774	Y	34	VAR_W	GST01688	CODE_PHASE		Y	37090	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST01688	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST016E3	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST016E4	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST016E5	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG02FF	SN_V_RMODE	SN_V_RMODE			
	0	4	GST016E6	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST016E7	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST016E8	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST016E9	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG0300	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST016EA	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST016EB	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST016EC	SIG	Signal_type	UINT	STRING	GSKT0230TM
8	10	8	GSTG0301	ANT_D_S_NU2	ANT_D_S_NU2			
	0	4	GST016ED	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	1	GST016EE	D	Deterioration_flag	UINT	STRING	GSKT0232TM
	5	1	GST016EF	S	Smoothing_flag	UINT	STRING	GSKT0235TM
	6	2	GST016F0	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
9	11	8	GST016F1	SF_CHN	channel_number	UINT	INTEGER	Z_IDENTITY
10	12	32	GST016F2	CC_MSB	Chip_count_MSB_part	UINT	INTEGER	Z_IDCOCH
11	16	16	GST016F3	CC_LSB	Chip_count_LSB_part	UINT	INTEGER	Z_IDCOCH
12	18	16	GST016F4	FP	Code_phase_fractional_part	UINT	INTEGER	GSKP0123TM

Summary  
11.02.2013 16:55:21

Differences exist between documents.

**New Document:**

[GSY\\_SCI37090\\_NumericalCalibration](#)

1 pages (15 KB)

11.02.2013 16:55:20

Used to display results.

**Old Document:**

[GSY\\_SCI37090\\_NumericalCalibration](#)

1 pages (15 KB)

11.02.2013 16:55:19


[Get started: first change is on page 1.](#)


No pages were deleted

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Sentinel-2  
SRDB Database Extract  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2, 77  
Page: 1 of 1

Name: GSKP0123TM Descr: INITIAL\_CP  
Unit: coch X Y  
Modelname: GENERIC  
Referenced by: GST016F4 FP

0 0  
65535 0.999984741211

Name: Z\_IDCOCH Descr: Identity with unit coch  
Unit: coch X Y  
Modelname: GENERIC  
Referenced by: GST016F2 CC\_MSB  
GST016F3 CC\_LSB

Summary  
11.02.2013 16:55:39

Differences exist between documents.

**New Document:**

[GSY\\_SCI37090\\_TextualCalibration](#)

6 pages (24 KB)

11.02.2013 16:55:38

Used to display results.

**Old Document:**

[GSY\\_SCI37090\\_TextualCalibration](#)

6 pages (24 KB)

11.02.2013 16:55:37

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# Sentinel-2

## SRDB Database Extract

### TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 6

Name: GSKT0230TM Descr: SIG

Referenced by:  
GST016EC SIG

From	To	Text
0		GPS_L1_CA
1		GPS_L1_P
2		GPS_L2_CA
3		GPS_L2_P
4		GPS_L2_CM
5		GPS_L2_CL
6		NO_SIGNAL

Name: GSKT0231TM Descr: ANT

Referenced by:  
GST016ED ANT

From	To	Text
0		FIRST_ANTENNA
1		SECOND_ANTENNA

Name: GSKT0232TM Descr: D

Referenced by:  
GST016EE D

From	To	Text
0		STEADY_CARRIER
1		UNSTEADY_CARRI

Name: GSKT0235TM Descr: S

Referenced by:  
GST016EF S

From	To	Text
0		SMOOTHING_NOT_
1		SMOOTHING_APPL

Name: GSKT0293TM Descr: SID

Referenced by:  
GST01688 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 2 of 6

Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST016E4 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 3 of 6

81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 4 of 6

131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 5 of 6

181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 6 of 6

231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:  
GST016E7 V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

Name: GSKT0300TM Descr: R\_MODE

Referenced by:  
GST016E8 R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

Name: GSKT0345TM Descr: CONS

Referenced by:  
GST016EA CONS

From	To	Text
0		GPS_CONSTELLAT



Summary  
11.02.2013 16:55:58

Differences exist between documents.

**New Document:**

[GSY\\_SCI37091](#)

2 pages (23 KB)

11.02.2013 16:55:56

Used to display results.

**Old Document:**

[GSY\\_SCI37091](#)

2 pages (23 KB)

11.02.2013 16:55:56


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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37091	N_Sci__ScienceDataReport__S1_NavSolution	212	1	48	11	779	Y	118	FIXED	GST016F7	MIN_NAV_SOL		Y	37091	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST016F7	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST01709	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0170A	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0170B	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG0302	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0170C	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST0170D	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0170E	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0170F	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	32	GST01710	GPST_SEC	seconds	UINT	INTEGER	Z_IDS
8	12	32	GST01711	GPST_SUBSEC	fractions_of_a_second	UINT	INTEGER	GSKP0048TM
9	16	16	GSTG0303	NU3_NSM_QUALIN	NU3_NSM_QUALIN			
	0	1	GST01712	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	1	3	GST01713	NSM	Navigation_solution_method	UINT	STRING	GSKT0204TM
	4	12	GST01714	QUAL_INDEX	Quality_index	UINT	INTEGER	Z_IDM
10	18	16	GST01715	GDOP	Geometrical_dilution_of_precision	UINT	INTEGER	GSKP0205TM
11	20	16	GSTG0304	MAXURA_MAXFIT_NU	MAXURA_MAXFIT_NU4_NOFSV			
	0	5	GST01716	MAX_URA	maximum_user_range_accuracy	SINT	INTEGER	Z_IDENTITY
	5	4	GST01717	MAX_FIT	maximum_curve_fit_interval_taken_from_all_SV_B4_s_use d_in_current_navigation_solution	UINT	STRING	GSKT0206TM
	9	3	GST01718	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST01719	NOF_SV	Nof_SVs_contributing_to_the_nav_solution	UINT	INTEGER	Z_IDENTITY
12	22	32	GST0171A	POS_X_MSB	X_2D_coordinate_MSB_part	SINT	INTEGER	GSKP0207TM
13	26	16	GST0171B	POS_X_LSB	X_2D_coordinate_LSB_part	UINT	INTEGER	Z_IDMM
14	28	32	GST0171C	POS_Y_MSB	Y_2D_coordinate_MSB_part	SINT	INTEGER	GSKP0207TM
15	32	16	GST0171D	POS_Y_LSB	Y_2D_coordinate_LSB_part	UINT	INTEGER	Z_IDMM
16	34	32	GST0171E	POS_Z_MSB	Z_2D_coordinate_MSB_part	SINT	INTEGER	GSKP0207TM
17	38	16	GST0171F	POS_Z_LSB	Z_2D_coordinate_LSB_part	UINT	INTEGER	Z_IDMM
18	40	32	GST01720	VEL_X	X_2D_velocity	SINT	INTEGER	GSKP0049TM
19	44	32	GST01721	VEL_Y	Y_2D_velocity	SINT	INTEGER	GSKP0049TM
20	48	32	GST01722	VEL_Z	Z_2D_velocity	SINT	INTEGER	GSKP0049TM





## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2, 77  
Page: 2 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37091	N_Sci__ScienceDataReport__S1_NavSolution	212	1	48	11	779	Y	118	FIXED	GST016F7	MIN_NAV_SOL		Y	37091	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
21	52	16	GST01723	PDOP	position_dilution_of_precision	UINT	INTEGER	GSKP0205TM
22	54	16	GST01724	TDOP	time_dilution_of_precision	UINT	INTEGER	GSKP0205TM
23	56	32	GST01725	delta_x	position_error_in_x_direction	SINT	INTEGER	GSKP0207TM
24	60	32	GST01726	delta_y	position_error_in_y_direction	SINT	INTEGER	GSKP0207TM
25	64	32	GST01727	delta_z	position_error_in_z_direction	SINT	INTEGER	GSKP0207TM
26	68	32	GST01728	delta_t	GNSS_system_time_error	SINT	INTEGER	Z_IDNS
27	72	32	GST01729	delta_v_x	velocity_error_in_x_direction	SINT	INTEGER	GSKP0049TM
28	76	32	GST0172A	delta_v_y	velocity_error_in_y_direction	SINT	INTEGER	GSKP0049TM
29	80	32	GST0172B	delta_v_z	velocity_error_in_z_direction	SINT	INTEGER	GSKP0049TM
30	84	32	GST0172C	delta_f	receiver_clock_frequency_error	SINT	INTEGER	GSKP0208TM
31	88	32	GST0172D	HEIGHT	height_above_ellipsoid	UINT	INTEGER	GSKP0346TM
32	92	32	GST0172E	VERTSPEED	vertical_speed	SINT	INTEGER	GSKP0209TM
33	96	32	GST0172F	LONGITUDE	longitude	SINT	INTEGER	GSKP0210TM
34	100	32	GST01730	LATITUDE	latitude	SINT	INTEGER	GSKP0211TM

Summary  
11.02.2013 16:56:19

Differences exist between documents.

**New Document:**

[GSY\\_SCI37091\\_NumericalCalibration](#)

2 pages (21 KB)

11.02.2013 16:56:18

Used to display results.

**Old Document:**

[GSY\\_SCI37091\\_NumericalCalibration](#)

2 pages (21 KB)

11.02.2013 16:56:17

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No pages were deleted

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**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2, 77  
Page: 1 of 2

Name: GSKP0048TM Descr: PV\_GPST\_SUBSEC  
Unit: us X Y

Referenced by:  
GST01711 GPST\_SUBSEC

Modelname: GENERIC

0 0  
4294967295 999999.9997672

Name: GSKP0049TM Descr: VEL\_X  
Unit: m/s X Y

Referenced by:  
GST01720 VEL\_X  
GST01721 VEL\_Y  
GST01722 VEL\_Z  
GST01729 delta\_v\_x  
GST0172A delta\_v\_y  
GST0172B delta\_v\_z

Modelname: GENERIC

-2147483648 -2147483.648  
2147483647 2147483.647

Name: GSKP0205TM Descr: GDOP  
Unit: X Y

Referenced by:  
GST01715 GDOP  
GST01723 PDOP  
GST01724 TDOP

Modelname: GENERIC

0 0  
65535 655.35

Name: GSKP0207TM Descr: POS\_X\_MSB  
Unit: m X Y

Referenced by:  
GST0171A POS\_X\_MSB  
GST0171C POS\_Y\_MSB  
GST0171E POS\_Z\_MSB  
GST01725 delta\_x  
GST01726 delta\_y  
GST01727 delta\_z

Modelname: GENERIC

-2147483648 -2147483.648  
2147483647 2147483.647

Name: GSKP0208TM Descr: delta\_f  
Unit: Hz X Y

Referenced by:  
GST0172C delta\_f

Modelname: GENERIC

-2147483648 -2147483.648  
2147483647 2147483.647

Name: GSKP0209TM Descr: VERTSPEED  
Unit: mm/s X Y

Referenced by:  
GST0172E VERTSPEED

Modelname: GENERIC

-2147483648 -21474836.48  
2147483647 21474836.47



# Sentinel-2

## SRDB Database Extract

### TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 2 of 2

Name: GSKP0210TM Descr: LONGITUDE Referenced by:  
Unit: deg X Y GST0172F LONGITUDE  
Modelname: GENERIC  
-1800000000 -180  
1800000000 180

Name: GSKP0211TM Descr: LATITUDE Referenced by:  
Unit: deg X Y GST01730 LATITUDE  
Modelname: GENERIC  
-900000000 -90  
900000000 90

Name: GSKP0346TM Descr: HEIGHT Referenced by:  
Unit: m X Y GST0172D HEIGHT  
Modelname: GENERIC  
0 0  
4294967295 42949672.95

Name: Z\_IDM Descr: Identity metre [m] Referenced by:  
Unit: m X Y GST01714 QUAL\_INDEX  
Modelname: GENERIC

Name: Z\_IDMM Descr: Identity millimetre [mm] Referenced by:  
Unit: mm X Y GST0171B POS\_X\_LSB  
GST0171D POS\_Y\_LSB  
GST0171F POS\_Z\_LSB  
Modelname: GENERIC

Name: Z\_IDNS Descr: Identity [ns] Referenced by:  
Unit: ns X Y GST01728 delta\_t  
Modelname: GENERIC

Name: Z\_IDS Descr: Identity [s] Referenced by:  
Unit: s X Y GST01710 GPST\_SEC  
Modelname: GENERIC

Summary  
11.02.2013 16:56:41

Differences exist between documents.

**New Document:**

[GSY\\_SCI37091\\_TextualCalibration](#)

6 pages (23 KB)

11.02.2013 16:56:39

Used to display results.

**Old Document:**

[GSY\\_SCI37091\\_TextualCalibration](#)

7 pages (25 KB)

11.02.2013 16:56:39

[Get started: first change is on page 1.](#)

No pages were deleted

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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 6

Name: GSKT0204TM Descr: NSM

Referenced by:  
GST01713 NSM

From	To	Text
1		PROPAGATED
2		FIRST_FIX
3		COLD_FIRST_FIX
4		LEAST_SQUARE
5		KALMAN_FILTER
7		INVALID

Name: GSKT0206TM Descr: MAX\_FIT

Referenced by:  
GST01717 MAX\_FIT

From	To	Text
0		4_H
1		6_H
2		8_H
3		14_H
4		26_H
5		50_H
6		74_H
7		98_H
8		122_H
9		146_H
15		PROPAGATED_PVT

Name: GSKT0293TM Descr: SID

Referenced by:  
GST016F7 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



# Sentinel-2

## SRDB Database Extract

### TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 2 of 6

Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0170A FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 3 of 6

81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2





**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 4 of 6

131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 5 of 6

181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



Sentinel-2  
SRDB Database Extract  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 6 of 6

231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:

GST0170D

From	To	Text
------	----	------

0		NOT_ALL_DATA_V
---	--	----------------

1		ALL_DATA_VALID
---	--	----------------

Name: GSKT0300TM Descr: R\_MODE

Referenced by:

GST0170E

R\_MODE

From	To	Text
------	----	------

1		STARTUP
---	--	---------

2		STANDBY
---	--	---------

3		NAVIGATE
---	--	----------

Summary  
11.02.2013 16:56:57

Differences exist between documents.

**New Document:**

[GSY\\_SCI37092](#)

1 pages (19 KB)

11.02.2013 16:56:56

Used to display results.

**Old Document:**

[GSY\\_SCI37092](#)

1 pages (19 KB)

11.02.2013 16:56:56


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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 1

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37092	N_ScienceDataRepor__IMT_GPST_Correlatio	212	1	48	11	779	Y	42	FIXED	GST016F7	IMT_GPST_CORR		Y	37092	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST016F7	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST01745	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST01746	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST01747	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG0305	SN_V_RMODE	SN_V_RMODE			
	0	4	GST01748	SN	Serial_Number__not_used_	UINT	INTEGER	Z_IDENTITY
	4	1	GST01749	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0174A	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0174B	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG0306	NU2_NSM_QUALID	NU2_NSM_QUALID			
	0	1	GST0174C	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	1	3	GST0174D	NSM	navigation_solution_method	UINT	STRING	GSKT0212TM
	4	12	GST0174E	QUAL_IDX	Quality_index	UINT	INTEGER	Z_IDNSOM
8	10	16	GST0174F	TDOP	Time_dilution_of_precision	UINT	INTEGER	GSKP0205TM
9	12	32	GST01750	IMT_MSB	Instrument_Measurement_Time_tag_MSB_part	UINT	INTEGER	Z_IDENTITY
10	16	32	GST01751	IMT_LSB	Instrument_Measurement_Time_tag_LSB_part	UINT	INTEGER	Z_IDENTITY
11	20	32	GST01752	GPST_SEC	seconds	UINT	INTEGER	Z_IDS
12	24	32	GST01753	GPST_SUBSEC	fractions_of_a_second	UINT	INTEGER	GSKP0048TM

Summary  
11.02.2013 16:57:15

Differences exist between documents.

**New Document:**

[GSY\\_SCI37092\\_NumericalCalibration](#)

1 pages (16 KB)

11.02.2013 16:57:14

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**Old Document:**

[GSY\\_SCI37092\\_NumericalCalibration](#)

1 pages (15 KB)

11.02.2013 16:57:14


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# Sentinel-2 SRDB Database Extract

TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2 . 77  
Page: 1 of 1

Name: GSKP0048TM Descr: PV\_GPST\_SUBSEC

Unit: us X Y

Modelname: GENERIC

Referenced by:

GST01753 GPST\_SUBSEC

0

0

4294967295

999999.9997672

Name: GSKP0205TM Descr: GDOP

Unit: X Y

Modelname: GENERIC

Referenced by:

GST0174F TDOP

0

0

65535

655.35

Name: Z\_IDNSOM Descr: Identity with unit nsom

Unit: nsom X Y

Modelname: GENERIC

Referenced by:

GST0174E QUAL\_IDX

Name: Z\_IDS Descr: Identity [s]

Unit: s X Y

Modelname: GENERIC

Referenced by:

GST01752 GPST\_SEC

Summary  
11.02.2013 16:58:07

Differences exist between documents.

**New Document:**

[GSY\\_SCI37092\\_TextualCalibration](#)

6 pages (23 KB)

11.02.2013 16:58:05

Used to display results.

**Old Document:**

[GSY\\_SCI37092\\_TextualCalibration](#)

6 pages (23 KB)

11.02.2013 16:58:05


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No pages were deleted

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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 6

Name: GSKT0212TM Descr: NSM

Referenced by:  
GST0174D NSM

From	To	Text
1		PROPAGATED
2		FIRST_FIX
3		COLD_FIRST_FIX
4		LEAST_SQUARE
5		KALMAN_FILTER
7		INVALID

Name: GSKT0293TM Descr: SID

Referenced by:  
GST016F7 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 2 of 6

Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST01746 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 3 of 6

81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
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97	-1_17
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101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
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121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 4 of 6

131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 5 of 6

181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
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192	40_76
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194	41_82
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196	42_91
197	43_46
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199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
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207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



Sentinel-2  
SRDB Database Extract  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 6 of 6

231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:  
GST01749 V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

Name: GSKT0300TM Descr: R\_MODE

Referenced by:  
GST0174A R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

Differences exist between documents.

**New Document:**

[GSY\\_SCI37111](#)

1 pages (20 KB)

11.02.2013 16:58:22

Used to display results.

**Old Document:**

[GSY\\_SCI37111](#)

1 pages (20 KB)

11.02.2013 16:58:22


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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 1

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37111	N_ScienceDataReport__ConstellationStatus	212	1	48	13	781	Y	26	VAR_W	GST018DF	CONST_STAT		Y	37111	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST018DF	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST018E0	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST018E1	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST018E2	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG030E	SN_V_RMODE	SN_V_RMODE			
	0	4	GST018E3	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST018E4	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST018E5	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST018E6	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG030F	CONS_SVID_AS_X_B	CONS_SVID_AS_X_BLOCK			
	0	3	GST018E7	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST018E8	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST018E9	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
	12	1	GST018EA	X	SV_excluded_by_ground_command	UINT	STRING	GSKT0169TM
	13	3	GST018EB	BLOCK	GPS_SV_Block_type	UINT	STRING	GSKT0170TM
8	10	8	GSTG0310	AN_EN_CN_DN_AC_E	AN_EN_CN_DN_AC_EC_CC_DC			
	0	1	GST018EC	AN	almanac_data_from_NAV_message_available	UINT	STRING	GSKT0171TM
	1	1	GST018ED	EN	Ephemeris_data_from_NAV_message_available	UINT	STRING	GSKT0171TM
	2	1	GST018EE	CN	Clock_correction_data_from_NAV_message_available	UINT	STRING	GSKT0171TM
	3	1	GST018EF	DN	Differential_correction_data_from_NAV_message_availabl e	UINT	STRING	GSKT0171TM
	4	1	GST018F0	AC	almanac_data_from_CNAV_message_available	UINT	STRING	GSKT0171TM
	5	1	GST018F1	EC	Ephemeris_data_from_CNAV_message_available	UINT	STRING	GSKT0171TM
	6	1	GST018F2	CC	Clock_correction_data_from_CNAV_message_available	UINT	STRING	GSKT0171TM
	7	1	GST018F3	DC	Differential_correction_data_from_CNAV_message_availab le	UINT	STRING	GSKT0171TM
9	11	8	GSTG0311	GC_FP_HEALTH	GC_FP_HEALTH			
	0	1	GST018F4	GC	Group_delay_data_from_CNAV_message_available	UINT	STRING	GSKT0172TM
	1	1	GST018F5	FP	Force_P_Y_tracking_flag	UINT	STRING	GSKT0173TM
	2	6	GST018F6	HEALTH	SV_health	UINT	INTEGER	Z_IDENTITY



Summary  
11.02.2013 16:58:42

Differences exist between documents.

**New Document:**

[GSY\\_SCI37111\\_TextualCalibration](#)

7 pages (25 KB)

11.02.2013 16:58:40

Used to display results.

**Old Document:**

[GSY\\_SCI37111\\_TextualCalibration](#)

7 pages (25 KB)

11.02.2013 16:58:39


[Get started: first change is on page 1.](#)

No pages were deleted

**How to read this report**

**Highlight** indicates a change.

**Deleted** indicates deleted content.

 indicates pages were changed.

 indicates pages were moved.



## Sentinel-2 SRDB Database Extract

TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 1 of 7

Name: GSKT0168TM Descr: AS

Referenced by:  
GST018E9 AS

From	To	Text
0		ANTI-SPOOF_OFF
1		ANTI-SPOOF_ON

Name: GSKT0169TM Descr: X

Referenced by:  
GST018EA X

From	To	Text
0		SV_EXCLUDED
1		SV_INCLUDED

Name: GSKT0170TM Descr: BLOCK

Referenced by:  
GST018EB BLOCK

From	To	Text
0		BLOCK_I
1		BLOCK_IIIIAIR
2		BLOCK_IIR-M
3		BLOCK_IIF
7		BLOCK_UNKNOWN

Name: GSKT0171TM Descr: AN

Referenced by:  
GST018EC AN  
GST018ED EN  
GST018EE CN  
GST018EF DN  
GST018F0 AC  
GST018F1 EC  
GST018F2 CC  
GST018F3 DC

From	To	Text
0		NOT_AVAILABLE
1		AVAILABLE

Name: GSKT0172TM Descr: GC

Referenced by:  
GST018F4 GC

From	To	Text
0		NOT_AVAILABLE
1		AVAILABLE

Name: GSKT0173TM Descr: FP

Referenced by:  
GST018F5 FP

From	To	Text
0		L2CM_USED
1		PY_USED



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
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Name: GSKT0293TM Descr: SID

Referenced by:  
GST018DF SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST

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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST018E1 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
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TM Textual Calibration Curves

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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:  
GST018E4 V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

Name: GSKT0300TM Descr: R\_MODE

Referenced by:  
GST018E5 R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

Name: GSKT0345TM Descr: CONS

Referenced by:  
GST018E7 CONS

From	To	Text
0		GPS_CONSTELLAT



Summary  
11.02.2013 16:59:03

Differences exist between documents.

**New Document:**

[GSY\\_SCI37112](#)

6 pages (37 KB)

11.02.2013 16:58:57

Used to display results.

**Old Document:**

[GSY\\_SCI37112](#)

6 pages (37 KB)

11.02.2013 16:58:57


[Get started: first change is on page 1.](#)


No pages were deleted

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37112	N_ScienceDataReport__TrackingState_8_	212	1	48	12	780	Y	118	FIXED	GST01AE8	TRACKING_STATE		Y	37112	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST01AE8	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST01AFA	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST01AFB	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST01AFC	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG036F	SN_V_RMODE	SN_V_RMODE			
	0	4	GST01AFD	SN	Serial_Number__not_used_	UINT	INTEGER	Z_IDENTITY
	4	1	GST01AFE	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST01AFF	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST01B00	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG0370	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST01B01	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01B02	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST01B03	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST01B04	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
8	10	8	GST01B05	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM
9	11	8	GST01B06	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
10	12	8	GSTG0371	NU3_SIG1	NU3_SIG1			
	0	3	GST01B07	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B08	SIG1	signal_type_being_processed_on_the_first_SFC_within_the_MFC	UINT	STRING	GSKT0251TM
11	13	8	GST01B09	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
12	14	8	GSTG0372	NU4_SIG2	NU4_SIG2			
	0	3	GST01B0A	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B0B	SIG2	signal_type_being_processed_on_the_second_SFC_within_the_MFC	UINT	STRING	GSKT0252TM
13	15	8	GST01B0C	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
14	16	8	GSTG0373	NU5_SIG3	NU5_SIG3			
	0	3	GST01B0D	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B0E	SIG3	signal_type_being_processed_on_the_third_SFC_within_the_MFC	UINT	STRING	GSKT0253TM
15	17	8	GST01B0F	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
16	18	16	GST01B10	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37112	N_ScienceDataReport__TrackingState_8_	212	1	48	12	780	Y	118	FIXED	GST01AE8	TRACKING_STATE		Y	37112	
Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description					Code	Type	Cal.			
17	20	16	GSTG0374	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT										
	0	3	GST01B11	CONS	constellation_identifier					UINT	STRING	GSKT0345TM			
	3	8	GST01B12	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found					UINT	INTEGER	Z_IDENTITY			
	11	1	GST01B13	N_U_2	not_used					UINT	INTEGER	Z_IDENTITY			
	12	4	GST01B14	ANT	Antenna_identifier					UINT	STRING	GSKT0249TM			
18	22	8	GST01B15	MFC_TS	multi_frequency_channel_tracking_state					UINT	STRING	GSKT0250TM			
19	23	8	GST01B16	MF_CHN	multi_frequency_channel_number					UINT	INTEGER	Z_IDENTITY			
20	24	8	GSTG0375	NU3_SIG1	NU3_SIG1										
	0	3	GST01B17	N_U_3	not_used					UINT	INTEGER	Z_IDENTITY			
	3	5	GST01B18	SIG1	signal_type_being_processed_on_the_first_SFC_within_the_MFC					UINT	STRING	GSKT0251TM			
21	25	8	GST01B19	CHN1	channel_number_of_the_first_SFC_within_the_MFC					UINT	INTEGER	Z_IDENTITY			
22	26	8	GSTG0376	NU4_SIG2	NU4_SIG2										
	0	3	GST01B1A	N_U_4	not_used					UINT	INTEGER	Z_IDENTITY			
	3	5	GST01B1B	SIG2	signal_type_being_processed_on_the_second_SFC_within_the_MFC					UINT	STRING	GSKT0252TM			
23	27	8	GST01B1C	CHN2	channel_number_of_the_second_SFC_within_the_MFC					UINT	INTEGER	Z_IDENTITY			
24	28	8	GSTG0377	NU5_SIG3	NU5_SIG3										
	0	3	GST01B1D	N_U_5	not_used					UINT	INTEGER	Z_IDENTITY			
	3	5	GST01B1E	SIG3	signal_type_being_processed_on_the_third_SFC_within_the_MFC					UINT	STRING	GSKT0253TM			
25	29	8	GST01B1F	CHN3	channel_number_of_the_third_SFC_within_the_MFC					UINT	INTEGER	Z_IDENTITY			
26	30	16	GST01B20	N_U_6	not_used					UINT	INTEGER	Z_IDENTITY			
27	32	16	GSTG0378	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT										
	0	3	GST01B21	CONS	constellation_identifier					UINT	STRING	GSKT0345TM			
	3	8	GST01B22	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found					UINT	INTEGER	Z_IDENTITY			
	11	1	GST01B23	N_U_2	not_used					UINT	INTEGER	Z_IDENTITY			
	12	4	GST01B24	ANT	Antenna_identifier					UINT	STRING	GSKT0249TM			
28	34	8	GST01B25	MFC_TS	multi_frequency_channel_tracking_state					UINT	STRING	GSKT0250TM			
29	35	8	GST01B26	MF_CHN	multi_frequency_channel_number					UINT	INTEGER	Z_IDENTITY			
30	36	8	GSTG0379	NU3_SIG1	NU3_SIG1										
	0	3	GST01B27	N_U_3	not_used					UINT	INTEGER	Z_IDENTITY			



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37112	N_ScienceDataReport__TrackingState_8_	212	1	48	12	780	Y	118	FIXED	GST01AE8	TRACKING_STATE		Y	37112	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	3	5	GST01B28	SIG1	signal_type_being_processed_on_the_first_SFC_within_the_MFC	UINT	STRING	GSKT0251TM
31	37	8	GST01B29	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
32	38	8	GSTG037A	NU4_SIG2	NU4_SIG2			
	0	3	GST01B2A	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B2B	SIG2	signal_type_being_processed_on_the_second_SFC_within_the_MFC	UINT	STRING	GSKT0252TM
33	39	8	GST01B2C	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
34	40	8	GSTG037B	NU5_SIG3	NU5_SIG3			
	0	3	GST01B2D	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B2E	SIG3	signal_type_being_processed_on_the_third_SFC_within_the_MFC	UINT	STRING	GSKT0253TM
35	41	8	GST01B2F	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
36	42	16	GST01B30	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY
37	44	16	GSTG037C	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST01B31	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01B32	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST01B33	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST01B34	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
38	46	8	GST01B35	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM
39	47	8	GST01B36	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
40	48	8	GSTG037D	NU3_SIG1	NU3_SIG1			
	0	3	GST01B37	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B38	SIG1	signal_type_being_processed_on_the_first_SFC_within_the_MFC	UINT	STRING	GSKT0251TM
41	49	8	GST01B39	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
42	50	8	GSTG037E	NU4_SIG2	NU4_SIG2			
	0	3	GST01B3A	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B3B	SIG2	signal_type_being_processed_on_the_second_SFC_within_the_MFC	UINT	STRING	GSKT0252TM
43	51	8	GST01B3C	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
44	52	8	GSTG037F	NU5_SIG3	NU5_SIG3			
	0	3	GST01B3D	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 4 of 6

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37112	N_ScienceDataReport__TrackingState_8_	212	1	48	12	780	Y	118	FIXED	GST01AE8	TRACKING_STATE		Y	37112	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	3	5	GST01B3E	SIG3	signal_type_being_processed_on_the_third_SFC_within_the_MFC	UINT	STRING	GSKT0253TM
45	53	8	GST01B3F	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
46	54	16	GST01B40	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY
47	56	16	GSTG0380	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST01B41	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01B42	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST01B43	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST01B44	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
48	58	8	GST01B45	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM
49	59	8	GST01B46	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
50	60	8	GSTG0381	NU3_SIG1	NU3_SIG1			
	0	3	GST01B47	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B48	SIG1	signal_type_being_processed_on_the_first_SFC_within_the_MFC	UINT	STRING	GSKT0251TM
51	61	8	GST01B49	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
52	62	8	GSTG0382	NU4_SIG2	NU4_SIG2			
	0	3	GST01B4A	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B4B	SIG2	signal_type_being_processed_on_the_second_SFC_within_the_MFC	UINT	STRING	GSKT0252TM
53	63	8	GST01B4C	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
54	64	8	GSTG0383	NU5_SIG3	NU5_SIG3			
	0	3	GST01B4D	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B4E	SIG3	signal_type_being_processed_on_the_third_SFC_within_the_MFC	UINT	STRING	GSKT0253TM
55	65	8	GST01B4F	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
56	66	16	GST01B50	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY
57	68	16	GSTG0384	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST01B51	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01B52	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST01B53	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST01B54	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
58	70	8	GST01B55	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
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Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim.1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37112	N_ScienceDataReport__TrackingState_8_	212	1	48	12	780	Y	118	FIXED	GST01AE8	TRACKING_STATE		Y	37112	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
59	71	8	GST01B56	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
60	72	8	GSTG0385	NU3_SIG1	NU3_SIG1			
	0	3	GST01B57	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B58	SIG1	signal_type_being_processed_on_the_first_SFC_within_th e_MFC	UINT	STRING	GSKT0251TM
61	73	8	GST01B59	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
62	74	8	GSTG0386	NU4_SIG2	NU4_SIG2			
	0	3	GST01B5A	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B5B	SIG2	signal_type_being_processed_on_the_second_SFC_within _the_MFC	UINT	STRING	GSKT0252TM
63	75	8	GST01B5C	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
64	76	8	GSTG0387	NU5_SIG3	NU5_SIG3			
	0	3	GST01B5D	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B5E	SIG3	signal_type_being_processed_on_the_third_SFC_within_th e_MFC	UINT	STRING	GSKT0253TM
65	77	8	GST01B5F	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
66	78	16	GST01B60	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY
67	80	16	GSTG0388	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST01B61	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01B62	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST01B63	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST01B64	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
68	82	8	GST01B65	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM
69	83	8	GST01B66	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
70	84	8	GSTG0389	NU3_SIG1	NU3_SIG1			
	0	3	GST01B67	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B68	SIG1	signal_type_being_processed_on_the_first_SFC_within_th e_MFC	UINT	STRING	GSKT0251TM
71	85	8	GST01B69	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
72	86	8	GSTG038A	NU4_SIG2	NU4_SIG2			
	0	3	GST01B6A	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B6B	SIG2	signal_type_being_processed_on_the_second_SFC_within _the_MFC	UINT	STRING	GSKT0252TM



# Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
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Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37112	N_ScienceDataReport__TrackingState_8_	212	1	48	12	780	Y	118	FIXED	GST01AE8	TRACKING_STATE		Y	37112	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
73	87	8	GST01B6C	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
74	88	8	GSTG038B	NU5_SIG3	NU5_SIG3			
	0	3	GST01B6D	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B6E	SIG3	signal_type_being_processed_on_the_third_SFC_within_the_MFC	UINT	STRING	GSKT0253TM
75	89	8	GST01B6F	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
76	90	16	GST01B70	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY
77	92	16	GSTG038C	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST01B71	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01B72	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST01B73	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST01B74	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
78	94	8	GST01B75	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM
79	95	8	GST01B76	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
80	96	8	GSTG038D	NU3_SIG1	NU3_SIG1			
	0	3	GST01B77	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B78	SIG1	signal_type_being_processed_on_the_first_SFC_within_the_MFC	UINT	STRING	GSKT0251TM
81	97	8	GST01B79	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
82	98	8	GSTG038E	NU4_SIG2	NU4_SIG2			
	0	3	GST01B7A	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B7B	SIG2	signal_type_being_processed_on_the_second_SFC_within_the_MFC	UINT	STRING	GSKT0252TM
83	99	8	GST01B7C	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
84	100	8	GSTG038F	NU5_SIG3	NU5_SIG3			
	0	3	GST01B7D	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B7E	SIG3	signal_type_being_processed_on_the_third_SFC_within_the_MFC	UINT	STRING	GSKT0253TM
85	101	8	GST01B7F	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
86	102	16	GST01B80	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY

Summary  
11.02.2013 16:59:26

Differences exist between documents.

**New Document:**

[GSY\\_SCI37112\\_TextualCalibration](#)

8 pages (27 KB)

11.02.2013 16:59:24

Used to display results.

**Old Document:**

[GSY\\_SCI37112\\_TextualCalibration](#)

8 pages (27 KB)

11.02.2013 16:59:24


[Get started: first change is on page 1.](#)


No pages were deleted

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**Highlight** indicates a change.

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 indicates pages were moved.





**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 8

Name: GSKT0249TM Descr: ANT

**Referenced by:**

From To Text

GST01B04 ANT  
GST01B14 ANT  
GST01B24 ANT  
GST01B34 ANT  
GST01B44 ANT  
GST01B54 ANT  
GST01B64 ANT  
GST01B74 ANT

0 FIRST\_ANTENNA  
1 SECOND\_ANTENNA

Name: GSKT0250TM Descr: MFC\_TS

**Referenced by:**

From To Text

GST01B05 MFC\_TS  
GST01B15 MFC\_TS  
GST01B25 MFC\_TS  
GST01B35 MFC\_TS  
GST01B45 MFC\_TS  
GST01B55 MFC\_TS  
GST01B65 MFC\_TS  
GST01B75 MFC\_TS

0 NO\_MEASDATA\_AV  
1 CODE\_ACQUISITI  
2 CODE\_ACQUISITI  
3 CODE\_TRACKING\_  
4 CODE\_AND\_CARRI  
5 CODE\_AND\_CARRI  
6 FINAL\_TRACKING  
7 FINAL\_TRACKING  
8 FINAL\_TRACKING  
9 FINAL\_TRACKING  
10 FINAL\_TRACKING  
11 FINAL\_TRACKING



# Sentinel-2

## SRDB Database Extract

TM Textual Calibration Curves

Date: 11.02.2013  
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Database: SISS2CSW  
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Page: 2 of 8

Name: GSKT0251TM Descr: SIG1

### Referenced by:

From To Text

GST01B08 SIG1  
GST01B18 SIG1  
GST01B28 SIG1  
GST01B38 SIG1  
GST01B48 SIG1  
GST01B58 SIG1  
GST01B68 SIG1  
GST01B78 SIG1

0 GPS\_L1\_CA  
1 GPS\_L1\_P  
2 GPS\_L2\_CA  
3 GPS\_L2\_P  
4 GPS\_L2\_CM  
5 GPS\_L2\_CL  
6 NO\_SIGNAL

Name: GSKT0252TM Descr: SIG2

### Referenced by:

From To Text

GST01B0B SIG2  
GST01B1B SIG2  
GST01B2B SIG2  
GST01B3B SIG2  
GST01B4B SIG2  
GST01B5B SIG2  
GST01B6B SIG2  
GST01B7B SIG2

0 GPS\_L1\_CA  
1 GPS\_L1\_P  
2 GPS\_L2\_CA  
3 GPS\_L2\_P  
4 GPS\_L2\_CM  
5 GPS\_L2\_CL  
6 NO\_SIGNAL



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## SRDB Database Extract

TM Textual Calibration Curves

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Name: GSKT0253TM Descr: SIG3

### Referenced by:

GST01B0E SIG3  
GST01B1E SIG3  
GST01B2E SIG3  
GST01B3E SIG3  
GST01B4E SIG3  
GST01B5E SIG3  
GST01B6E SIG3  
GST01B7E SIG3

From	To	Text
0		GPS_L1_CA
1		GPS_L1_P
2		GPS_L2_CA
3		GPS_L2_P
4		GPS_L2_CM
5		GPS_L2_CL
6		NO_SIGNAL

Name: GSKT0293TM Descr: SID

### Referenced by:

GST01AE8 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST01AFB FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
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Database: SISS2CSW  
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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:  
GST01AFE V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

Name: GSKT0300TM Descr: R\_MODE

Referenced by:  
GST01AFF R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

Name: GSKT0345TM Descr: CONS

Referenced by:  
GST01B01 CONS  
GST01B11 CONS  
GST01B21 CONS  
GST01B31 CONS  
GST01B41 CONS  
GST01B51 CONS  
GST01B61 CONS  
GST01B71 CONS

From	To	Text
0		GPS_CONSTELLAT



Summary  
11.02.2013 17:01:06

Differences exist between documents.

**New Document:**

[GSY\\_SCI37113](#)

23 pages (102 KB)

11.02.2013 16:59:44

Used to display results.

**Old Document:**

[GSY\\_SCI37113](#)

23 pages (103 KB)

11.02.2013 16:59:44


[Get started: first change is on page 1.](#)


No pages were deleted

## How to read this report

**Highlight** indicates a change.

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 23

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.	Gen_Stat
1	0	8	GST01AE8	SID	structure_identifier	UINT	STRING	GSKT0293TM	
2	1	24	GST01B95	FILLER	not_used	UINT	INTEGER	Z_IDENTITY	
3	4	8	GST01B96	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM	
4	5	8	GST01B97	ID	internal_use	UINT	INTEGER	Z_IDENTITY	
5	6	8	GSTG0390	SN_V_RMODE	SN_V_RMODE				
	0	4	GST01B98	SN	Serial_Number_not_used_	UINT	INTEGER	Z_IDENTITY	
	4	1	GST01B99	V	data_valid_flag	UINT	STRING	GSKT0299TM	
	5	3	GST01B9A	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM	
6	7	8	GST01B9B	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY	
7	8	16	GSTG0391	CONS_SVID_SIG	CONS_SVID_SIG				
	0	3	GST01B9C	CONS	constellation_identifier	UINT	STRING	GSKT0345TM	
	3	8	GST01B9D	SV_ID	Space_vehicle_identifier_2C_0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY	
	11	5	GST01B9E	SIG	Signal_type	UINT	STRING	GSKT0230TM	
8	10	8	GSTG0392	ANT_NDS	ANT_NDS				
	0	4	GST01B9F	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM	
	4	4	GST01BA0	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM	
9	11	8	GST01BA1	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY	
10	12	8	GSTG0393	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM				
	0	2	GST01BA2	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY	
	2	2	GST01BA3	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY	
	4	1	GST01BA4	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM	
	5	1	GST01BA5	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM	
	6	2	GST01BA6	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM	
11	13	8	GSTG0394	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM				
	0	2	GST01BA7	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY	
	2	2	GST01BA8	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY	
	4	1	GST01BA9	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM	
	5	1	GST01BAA	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM	
	6	2	GST01BAB	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM	
12	14	8	GST01BAC	TS	logical_tracking_state	UINT	STRING	GSKT0261TM	
13	15	8	GSTG0395	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH				
	0	1	GST01BAD	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM	



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	1	1	GST01BAE	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01BAF	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01BB0	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01BB1	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01BB2	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01BB3	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01BB4	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
14	16	16	GSTG0396	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01BB5	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01BB6	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01BB7	SIG	Signal_type	UINT	STRING	GSKT0230TM
15	18	8	GSTG0397	ANT_NDS	ANT_NDS			
	0	4	GST01BB8	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01BB9	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
16	19	8	GST01BBA	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
17	20	8	GSTG0398	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01BBB	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01BBC	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01BBD	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01BBE	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01BBF	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
18	21	8	GSTG0399	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01BC0	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01BC1	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01BC2	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01BC3	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01BC4	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
19	22	8	GST01BC5	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
20	23	8	GSTG039A	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01BC6	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01BC7	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01BC8	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01BC9	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
21	4	1	GST01BCA	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01BCB	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01BCC	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01BCD	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	24	16	GSTG039B	CONS_SVID_SIG	CONS_SVID_SIG			
22	0	3	GST01BCE	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01BCF	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01BD0	SIG	Signal_type	UINT	STRING	GSKT0230TM
	26	8	GSTG039C	ANT_NDS	ANT_NDS			
23	0	4	GST01BD1	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01BD2	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
	27	8	GST01BD3	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
24	28	8	GSTG039D	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01BD4	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01BD5	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01BD6	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01BD7	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01BD8	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
	29	8	GSTG039E	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01BD9	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
25	2	2	GST01BDA	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01BDB	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01BDC	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01BDD	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
	30	8	GST01BDE	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
	31	8	GSTG039F	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
26	0	1	GST01BDF	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01BE0	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01BE1	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01BE2	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01BE3	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01BE4	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01BE5	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
28	7	1	GST01BE6	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	32	16	GSTG03A0	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01BE7	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01BE8	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
29	11	5	GST01BE9	SIG	Signal_type	UINT	STRING	GSKT0230TM
	34	8	GSTG03A1	ANT_NDS	ANT_NDS			
	0	4	GST01BEA	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01BEB	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
30	35	8	GST01BEC	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
31	36	8	GSTG03A2	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01BED	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01BEE	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01BEF	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01BF0	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01BF1	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
	37	8	GSTG03A3	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01BF2	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
32	2	2	GST01BF3	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01BF4	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01BF5	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01BF6	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
	38	8	GST01BF7	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
	39	8	GSTG03A4	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01BF8	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01BF9	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
33	2	1	GST01BFA	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01BFB	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01BFC	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01BFD	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01BFE	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01BFF	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	40	16	GSTG03A5	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01C00	CONS	constellation_identifier	UINT	STRING	GSKT0345TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
36	3	8	GST01C01	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01C02	SIG	Signal_type	UINT	STRING	GSKT0230TM
	42	8	GSTG03A6	ANT_NDS	ANT_NDS			
	0	4	GST01C03	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
37	4	4	GST01C04	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
	43	8	GST01C05	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
38	44	8	GSTG03A7	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
39	0	2	GST01C06	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01C07	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01C08	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01C09	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01C0A	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
	45	8	GSTG03A8	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01C0B	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01C0C	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01C0D	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01C0E	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
40	6	2	GST01C0F	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
	46	8	GST01C10	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
41	47	8	GSTG03A9	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
42	0	1	GST01C11	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01C12	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01C13	FRDS	Carrier_loop_discrimminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01C14	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01C15	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01C16	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01C17	FDSP	Code_loop_discrimminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01C18	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
43	48	16	GSTG03AA	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01C19	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01C1A	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
43	11	5	GST01C1B	SIG	Signal_type	UINT	STRING	GSKT0230TM
	50	8	GSTG03AB	ANT_NDS	ANT_NDS			



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	0	4	GST01C1C	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01C1D	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
44	51	8	GST01C1E	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
45	52	8	GSTG03AC	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01C1F	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01C20	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01C21	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01C22	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01C23	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
46	53	8	GSTG03AD	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01C24	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01C25	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01C26	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01C27	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01C28	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
47	54	8	GST01C29	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
48	55	8	GSTG03AE	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01C2A	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01C2B	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01C2C	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01C2D	FRTH	Carrier_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01C2E	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01C2F	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01C30	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01C31	FDTH	Code_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
49	56	16	GSTG03AF	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01C32	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01C33	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01C34	SIG	Signal_type	UINT	STRING	GSKT0230TM
50	58	8	GSTG03B0	ANT_NDS	ANT_NDS			
	0	4	GST01C35	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01C36	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
51	59	8	GST01C37	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
52	60	8	GSTG03B1	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01C38	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01C39	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01C3A	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01C3B	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01C3C	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
53	61	8	GSTG03B2	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01C3D	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01C3E	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01C3F	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01C40	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01C41	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
54	62	8	GST01C42	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
55	63	8	GSTG03B3	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01C43	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01C44	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01C45	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01C46	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01C47	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01C48	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01C49	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01C4A	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
56	64	16	GSTG03B4	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01C4B	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01C4C	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01C4D	SIG	Signal_type	UINT	STRING	GSKT0230TM
57	66	8	GSTG03B5	ANT_NDS	ANT_NDS			
	0	4	GST01C4E	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01C4F	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
58	67	8	GST01C50	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
59	68	8	GSTG03B6	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01C51	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01C52	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY





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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
60	4	1	GST01C53	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01C54	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01C55	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
	69	8	GSTG03B7	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01C56	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01C57	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01C58	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01C59	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
61	6	2	GST01C5A	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
	70	8	GST01C5B	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
62	71	8	GSTG03B8	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01C5C	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01C5D	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01C5E	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01C5F	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01C60	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01C61	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
63	6	1	GST01C62	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01C63	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	72	16	GSTG03B9	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01C64	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01C65	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01C66	SIG	Signal_type	UINT	STRING	GSKT0230TM
64	74	8	GSTG03BA	ANT_NDS	ANT_NDS			
	0	4	GST01C67	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01C68	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
65	75	8	GST01C69	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
66	76	8	GSTG03BB	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01C6A	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01C6B	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01C6C	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01C6D	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01C6E	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
67	77	8	GSTG03BC	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01C6F	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01C70	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01C71	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01C72	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01C73	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
68	78	8	GST01C74	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
69	79	8	GSTG03BD	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01C75	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01C76	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01C77	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01C78	FRTH	Carrier_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01C79	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01C7A	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01C7B	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01C7C	FDTH	Code_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
70	80	16	GSTG03BE	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01C7D	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01C7E	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01C7F	SIG	Signal_type	UINT	STRING	GSKT0230TM
71	82	8	GSTG03BF	ANT_NDS	ANT_NDS			
	0	4	GST01C80	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01C81	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
72	83	8	GST01C82	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
73	84	8	GSTG03C0	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01C83	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01C84	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01C85	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01C86	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01C87	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
74	85	8	GSTG03C1	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01C88	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01C89	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	4	1	GST01C8A	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01C8B	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01C8C	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
75	86	8	GST01C8D	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
76	87	8	GSTG03C2	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01C8E	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01C8F	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01C90	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01C91	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01C92	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01C93	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01C94	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01C95	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
77	88	16	GSTG03C3	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01C96	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01C97	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01C98	SIG	Signal_type	UINT	STRING	GSKT0230TM
78	90	8	GSTG03C4	ANT_NDS	ANT_NDS			
	0	4	GST01C99	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01C9A	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
79	91	8	GST01C9B	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
80	92	8	GSTG03C5	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01C9C	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01C9D	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01C9E	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01C9F	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01CA0	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
81	93	8	GSTG03C6	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01CA1	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01CA2	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01CA3	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01CA4	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01CA5	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
82	94	8	GST01CA6	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
83	95	8	GSTG03C7	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01CA7	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01CA8	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01CA9	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01CAA	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01CAB	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01CAC	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01CAD	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01CAE	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
84	96	16	GSTG03C8	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01CAF	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01CB0	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01CB1	SIG	Signal_type	UINT	STRING	GSKT0230TM
85	98	8	GSTG03C9	ANT_NDS	ANT_NDS			
	0	4	GST01CB2	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01CB3	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
86	99	8	GST01CB4	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
87	100	8	GSTG03CA	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01CB5	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01CB6	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01CB7	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01CB8	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01CB9	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
88	101	8	GSTG03CB	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01CBA	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01CBB	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01CBC	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01CBD	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01CBE	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
89	102	8	GST01CBF	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
90	103	8	GSTG03CC	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01CC0	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
91	104	1	GST01CC1	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
		1	GST01CC2	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
		1	GST01CC3	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
		1	GST01CC4	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
		1	GST01CC5	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
		1	GST01CC6	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
		1	GST01CC7	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	106	16	GSTG03CD	CONS_SVID_SIG	CONS_SVID_SIG			
		0	GST01CC8	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
		3	GST01CC9	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
		11	GST01CCA	SIG	Signal_type	UINT	STRING	GSKT0230TM
92	107	8	GSTG03CE	ANT_NDS	ANT_NDS			
		0	GST01CCB	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
		4	GST01CCC	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
93	108	8	GST01CCD	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
94	108	8	GSTG03CF	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
		0	GST01CCE	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
		2	GST01CCF	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
		4	GST01CD0	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
		5	GST01CD1	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
		6	GST01CD2	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
	109	8	GSTG03D0	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
		0	GST01CD3	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
		2	GST01CD4	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
		4	GST01CD5	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
		5	GST01CD6	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
95	110	2	GST01CD7	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
		8	GST01CD8	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
96	111	8	GSTG03D1	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
		0	GST01CD9	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
		1	GST01CDA	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
		2	GST01CDB	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
		3	GST01CDC	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM



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TM Packets Structure

Date: 11.02.2013  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	4	1	GST01CDD	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01CDE	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01CDF	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01CE0	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
98	112	16	GSTG03D2	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01CE1	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01CE2	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01CE3	SIG	Signal_type	UINT	STRING	GSKT0230TM
99	114	8	GSTG03D3	ANT_NDS	ANT_NDS			
	0	4	GST01CE4	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01CE5	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
100	115	8	GST01CE6	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
101	116	8	GSTG03D4	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01CE7	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01CE8	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01CE9	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01CEA	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01CEB	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
102	117	8	GSTG03D5	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01CEC	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01CED	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01CEE	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01CEF	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01CF0	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
103	118	8	GST01CF1	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
104	119	8	GSTG03D6	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01CF2	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01CF3	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01CF4	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01CF5	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01CF6	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01CF7	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01CF8	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
105	7	1	GST01CF9	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	120	16	GSTG03D7	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01CFA	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01CFB	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
106	11	5	GST01CFC	SIG	Signal_type	UINT	STRING	GSKT0230TM
	122	8	GSTG03D8	ANT_NDS	ANT_NDS			
	0	4	GST01CFD	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01CFE	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
107	123	8	GST01CFF	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
108	124	8	GSTG03D9	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01D00	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01D01	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01D02	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
109	5	1	GST01D03	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01D04	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
	125	8	GSTG03DA	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01D05	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
110	2	2	GST01D06	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01D07	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01D08	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01D09	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
111	126	8	GST01D0A	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
112	127	8	GSTG03DB	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01D0B	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01D0C	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01D0D	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
112	3	1	GST01D0E	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01D0F	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01D10	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01D11	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
112	7	1	GST01D12	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	128	16	GSTG03DC	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01D13	CONS	constellation_identifier	UINT	STRING	GSKT0345TM





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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
113	130	3	GST01D14	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
		11	GST01D15	SIG	Signal_type	UINT	STRING	GSKT0230TM
		8	GSTG03DD	ANT_NDS	ANT_NDS			
		0	GST01D16	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
		4	GST01D17	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
114	131	8	GST01D18	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
115	132	8	GSTG03DE	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
116	133	0	GST01D19	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
		2	GST01D1A	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
		4	GST01D1B	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
		5	GST01D1C	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
		6	GST01D1D	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
		8	GSTG03DF	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
		0	GST01D1E	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
		2	GST01D1F	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
		4	GST01D20	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
		5	GST01D21	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
117	134	6	GST01D22	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
		8	GST01D23	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
		8	GSTG03E0	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
118	135	0	GST01D24	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
		1	GST01D25	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
		2	GST01D26	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
		3	GST01D27	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
		4	GST01D28	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
		5	GST01D29	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
		6	GST01D2A	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
		7	GST01D2B	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
		16	GSTG03E1	CONS_SVID_SIG	CONS_SVID_SIG			
		0	GST01D2C	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
119	136	3	GST01D2D	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
		11	GST01D2E	SIG	Signal_type	UINT	STRING	GSKT0230TM
		8	GSTG03E2	ANT_NDS	ANT_NDS			





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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	0	4	GST01D2F	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01D30	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
121	139	8	GST01D31	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
122	140	8	GSTG03E3	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01D32	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01D33	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01D34	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01D35	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01D36	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
123	141	8	GSTG03E4	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01D37	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01D38	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01D39	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01D3A	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01D3B	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
124	142	8	GST01D3C	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
125	143	8	GSTG03E5	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01D3D	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01D3E	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01D3F	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01D40	FRTH	Carrier_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01D41	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01D42	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01D43	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01D44	FDTH	Code_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
126	144	16	GSTG03E6	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01D45	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01D46	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01D47	SIG	Signal_type	UINT	STRING	GSKT0230TM
127	146	8	GSTG03E7	ANT_NDS	ANT_NDS			
	0	4	GST01D48	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01D49	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
128	147	8	GST01D4A	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
129	148	8	GSTG03E8	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01D4B	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01D4C	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01D4D	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01D4E	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01D4F	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
130	149	8	GSTG03E9	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01D50	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01D51	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01D52	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01D53	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01D54	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
131	150	8	GST01D55	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
132	151	8	GSTG03EA	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01D56	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01D57	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01D58	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01D59	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01D5A	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01D5B	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01D5C	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01D5D	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
133	152	16	GSTG03EB	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01D5E	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01D5F	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01D60	SIG	Signal_type	UINT	STRING	GSKT0230TM
134	154	8	GSTG03EC	ANT_NDS	ANT_NDS			
	0	4	GST01D61	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01D62	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
135	155	8	GST01D63	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
136	156	8	GSTG03ED	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01D64	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01D65	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
137	4	1	GST01D66	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01D67	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01D68	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
	157	8	GSTG03EE	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01D69	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01D6A	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01D6B	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01D6C	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
138	6	2	GST01D6D	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
	158	8	GST01D6E	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
139	159	8	GSTG03EF	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
140	0	1	GST01D6F	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01D70	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01D71	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01D72	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01D73	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01D74	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01D75	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01D76	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	160	16	GSTG03F0	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01D77	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01D78	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
141	11	5	GST01D79	SIG	Signal_type	UINT	STRING	GSKT0230TM
	162	8	GSTG03F1	ANT_NDS	ANT_NDS			
	0	4	GST01D7A	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
142	4	4	GST01D7B	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
	163	8	GST01D7C	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
143	164	8	GSTG03F2	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01D7D	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01D7E	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01D7F	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01D80	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01D81	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
144	165	8	GSTG03F3	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01D82	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01D83	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01D84	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01D85	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01D86	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
145	166	8	GST01D87	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
146	167	8	GSTG03F4	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01D88	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01D89	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01D8A	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01D8B	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01D8C	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01D8D	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01D8E	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01D8F	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
147	168	16	GSTG03F5	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01D90	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01D91	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01D92	SIG	Signal_type	UINT	STRING	GSKT0230TM
148	170	8	GSTG03F6	ANT_NDS	ANT_NDS			
	0	4	GST01D93	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01D94	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
149	171	8	GST01D95	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
150	172	8	GSTG03F7	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01D96	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01D97	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01D98	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01D99	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01D9A	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
151	173	8	GSTG03F8	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01D9B	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01D9C	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY



## Sentinel-2 SRDB Database Extract

TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	4	1	GST01D9D	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01D9E	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01D9F	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
152	174	8	GST01DA0	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
153	175	8	GSTG03F9	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01DA1	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01DA2	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01DA3	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01DA4	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01DA5	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01DA6	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01DA7	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01DA8	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
154	176	16	GSTG03FA	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01DA9	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01DAA	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01DAB	SIG	Signal_type	UINT	STRING	GSKT0230TM
155	178	8	GSTG03FB	ANT_NDS	ANT_NDS			
	0	4	GST01DAC	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01DAD	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
156	179	8	GST01DAE	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
157	180	8	GSTG03FC	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01DAF	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01DB0	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01DB1	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01DB2	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01DB3	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
158	181	8	GSTG03FD	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01DB4	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01DB5	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01DB6	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01DB7	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01DB8	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
159	182	8	GST01DB9	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
160	183	8	GSTG03FE	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01DBA	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01DBB	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01DBC	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01DBD	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01DBE	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01DBF	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01DC0	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01DC1	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
161	184	16	GSTG03FF	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01DC2	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01DC3	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01DC4	SIG	Signal_type	UINT	STRING	GSKT0230TM
162	186	8	GSTG0400	ANT_NDS	ANT_NDS			
	0	4	GST01DC5	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01DC6	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
163	187	8	GST01DC7	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
164	188	8	GSTG0401	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01DC8	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01DC9	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01DCA	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01DCB	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01DCC	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
165	189	8	GSTG0402	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01DCD	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01DCE	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01DCF	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01DD0	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01DD1	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
166	190	8	GST01DD2	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
167	191	8	GSTG0403	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01DD3	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	1	1	GST01DD4	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01DD5	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01DD6	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01DD7	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01DD8	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01DD9	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01DDA	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
168	192	16	GSTG0404	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01DDB	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01DDC	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01DDD	SIG	Signal_type	UINT	STRING	GSKT0230TM
169	194	8	GSTG0405	ANT_NDS	ANT_NDS			
	0	4	GST01DDE	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01DDF	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
170	195	8	GST01DE0	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
171	196	8	GSTG0406	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01DE1	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01DE2	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01DE3	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01DE4	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01DE5	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
172	197	8	GSTG0407	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01DE6	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01DE7	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01DE8	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01DE9	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01DEA	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
173	198	8	GST01DEB	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
174	199	8	GSTG0408	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01DEC	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01DED	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01DEE	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01DEF	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM





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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport__ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	4	1	GST01DF0	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01DF1	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01DF2	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01DF3	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM



Summary  
11.02.2013 17:02:03

Differences exist between documents.

**New Document:**

[GSY\\_SCI37113\\_TextualCalibration](#)

25 pages (57 KB)

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Used to display results.

**Old Document:**

[GSY\\_SCI37113\\_TextualCalibration](#)

25 pages (57 KB)

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[Get started: first change is on page 1.](#)


No pages were deleted

## How to read this report

**Highlight** indicates a change.

**Deleted** indicates deleted content.

 indicates pages were changed.

 indicates pages were moved.



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**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
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Name: GSKT0230TM Descr: SIG

**Referenced by:**

From To Text

GST01B9E SIG  
GST01BB7 SIG  
GST01BD0 SIG  
GST01BE9 SIG  
GST01C02 SIG  
GST01C1B SIG  
GST01C34 SIG  
GST01C4D SIG  
GST01C66 SIG  
GST01C7F SIG  
GST01C98 SIG  
GST01CB1 SIG  
GST01CCA SIG  
GST01CE3 SIG  
GST01CFC SIG  
GST01D15 SIG  
GST01D2E SIG  
GST01D47 SIG  
GST01D60 SIG  
GST01D79 SIG  
GST01D92 SIG  
GST01DAB SIG  
GST01DC4 SIG  
GST01DDD SIG

0 GPS\_L1\_CA  
1 GPS\_L1\_P  
2 GPS\_L2\_CA  
3 GPS\_L2\_P  
4 GPS\_L2\_CM  
5 GPS\_L2\_CL  
6 NO\_SIGNAL



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Name: GSKT0231TM Descr: ANT

**Referenced by:**

From To Text

GST01B9F ANT  
GST01BB8 ANT  
GST01BD1 ANT  
GST01BEA ANT  
GST01C03 ANT  
GST01C1C ANT  
GST01C35 ANT  
GST01C4E ANT  
GST01C67 ANT  
GST01C80 ANT  
GST01C99 ANT  
GST01CB2 ANT  
GST01CCB ANT  
GST01CE4 ANT  
GST01CFD ANT  
GST01D16 ANT  
GST01D2F ANT  
GST01D48 ANT  
GST01D61 ANT  
GST01D7A ANT  
GST01D93 ANT  
GST01DAC ANT  
GST01DC5 ANT  
GST01DDE ANT

0 FIRST\_ANTENNA  
1 SECOND\_ANTENNA



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Name: GSKT0254TM Descr: NDS

**Referenced by:**

From To Text

GST01BA0 NDS  
GST01BB9 NDS  
GST01BD2 NDS  
GST01BEB NDS  
GST01C04 NDS  
GST01C1D NDS  
GST01C36 NDS  
GST01C4F NDS  
GST01C68 NDS  
GST01C81 NDS  
GST01C9A NDS  
GST01CB3 NDS  
GST01CCC NDS  
GST01CE5 NDS  
GST01CFE NDS  
GST01D17 NDS  
GST01D30 NDS  
GST01D49 NDS  
GST01D62 NDS  
GST01D7B NDS  
GST01D94 NDS  
GST01DAD NDS  
GST01DC6 NDS  
GST01DDF NDS

0 NOT\_SYNC  
1 SYNC\_NAVDATA\_N  
2 INVALID  
3 SYNC\_NAVDATA\_I



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Name: GSKT0255TM Descr: CRD

**Referenced by:**

From To Text

GST01BA4 CRD  
GST01BBD CRD  
GST01BD6 CRD  
GST01BEF CRD  
GST01C08 CRD  
GST01C21 CRD  
GST01C3A CRD  
GST01C53 CRD  
GST01C6C CRD  
GST01C85 CRD  
GST01C9E CRD  
GST01CB7 CRD  
GST01CD0 CRD  
GST01CE9 CRD  
GST01D02 CRD  
GST01D1B CRD  
GST01D34 CRD  
GST01D4D CRD  
GST01D66 CRD  
GST01D7F CRD  
GST01D98 CRD  
GST01DB1 CRD  
GST01DCA CRD  
GST01DE3 CRD

0 NO\_DETERIORATI  
1 DETERIORATION



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Date: 11.02.2013  
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Database: SISS2CSW  
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Name: GSKT0256TM Descr: CRL

**Referenced by:**

From To Text

GST01BA5 CRL  
GST01BBE CRL  
GST01BD7 CRL  
GST01BF0 CRL  
GST01C09 CRL  
GST01C22 CRL  
GST01C3B CRL  
GST01C54 CRL  
GST01C6D CRL  
GST01C86 CRL  
GST01C9F CRL  
GST01CB8 CRL  
GST01CD1 CRL  
GST01CEA CRL  
GST01D03 CRL  
GST01D1C CRL  
GST01D35 CRL  
GST01D4E CRL  
GST01D67 CRL  
GST01D80 CRL  
GST01D99 CRL  
GST01DB2 CRL  
GST01DCB CRL  
GST01DE4 CRL

0 NOT\_LOCKED  
1 LOCKED



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Name: GSKT0257TM Descr: CRM

**Referenced by:**

From To Text

GST01BA6 CRM  
GST01BBF CRM  
GST01BD8 CRM  
GST01BF1 CRM  
GST01C0A CRM  
GST01C23 CRM  
GST01C3C CRM  
GST01C55 CRM  
GST01C6E CRM  
GST01C87 CRM  
GST01CA0 CRM  
GST01CB9 CRM  
GST01CD2 CRM  
GST01CEB CRM  
GST01D04 CRM  
GST01D1D CRM  
GST01D36 CRM  
GST01D4F CRM  
GST01D68 CRM  
GST01D81 CRM  
GST01D9A CRM  
GST01DB3 CRM  
GST01DCC CRM  
GST01DE5 CRM

0 NO\_ACTIVITIES  
1 ACQUISITION  
2 TRACKING  
3 ACQUISITION\_ER



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Date: 11.02.2013  
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Name: GSKT0258TM Descr: CDD

**Referenced by:**

From To Text

GST01BA9 CDD  
GST01BC2 CDD  
GST01BDB CDD  
GST01BF4 CDD  
GST01C0D CDD  
GST01C26 CDD  
GST01C3F CDD  
GST01C58 CDD  
GST01C71 CDD  
GST01C8A CDD  
GST01CA3 CDD  
GST01CBC CDD  
GST01CD5 CDD  
GST01CEE CDD  
GST01D07 CDD  
GST01D20 CDD  
GST01D39 CDD  
GST01D52 CDD  
GST01D6B CDD  
GST01D84 CDD  
GST01D9D CDD  
GST01DB6 CDD  
GST01DCF CDD  
GST01DE8 CDD

0 NO\_DETERIORATI  
1 DETERIORATION

---





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Name: GSKT0259TM Descr: CDL

**Referenced by:**

From To Text

GST01BAA CDL  
GST01BC3 CDL  
GST01BDC CDL  
GST01BF5 CDL  
GST01C0E CDL  
GST01C27 CDL  
GST01C40 CDL  
GST01C59 CDL  
GST01C72 CDL  
GST01C8B CDL  
GST01CA4 CDL  
GST01CBD CDL  
GST01CD6 CDL  
GST01CEF CDL  
GST01D08 CDL  
GST01D21 CDL  
GST01D3A CDL  
GST01D53 CDL  
GST01D6C CDL  
GST01D85 CDL  
GST01D9E CDL  
GST01DB7 CDL  
GST01DD0 CDL  
GST01DE9 CDL

0 NOT\_LOCKED  
1 LOCKED



**Sentinel-2**  
**SRDB Database Extract**  
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Name: GSKT0260TM Descr: CDM

**Referenced by:**

From To Text

GST01BAB CDM  
GST01BC4 CDM  
GST01BDD CDM  
GST01BF6 CDM  
GST01C0F CDM  
GST01C28 CDM  
GST01C41 CDM  
GST01C5A CDM  
GST01C73 CDM  
GST01C8C CDM  
GST01CA5 CDM  
GST01CBE CDM  
GST01CD7 CDM  
GST01CF0 CDM  
GST01D09 CDM  
GST01D22 CDM  
GST01D3B CDM  
GST01D54 CDM  
GST01D6D CDM  
GST01D86 CDM  
GST01D9F CDM  
GST01DB8 CDM  
GST01DD1 CDM  
GST01DEA CDM

0 NO\_ACTIVITIES  
1 ACQUISITION  
2 TRACKING  
3 ACQUISITION\_ER



# Sentinel-2 SRDB Database Extract

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Name: GSKT0261TM Descr: TS

## Referenced by:

From	To	Text
		GST01BAC TS
		GST01BC5 TS
		GST01BDE TS
		GST01BF7 TS
		GST01C10 TS
		GST01C29 TS
		GST01C42 TS
		GST01C5B TS
		GST01C74 TS
		GST01C8D TS
		GST01CA6 TS
		GST01CBF TS
		GST01CD8 TS
		GST01CF1 TS
		GST01D0A TS
		GST01D23 TS
		GST01D3C TS
		GST01D55 TS
		GST01D6E TS
		GST01D87 TS
		GST01DA0 TS
		GST01DB9 TS
		GST01DD2 TS
		GST01DEB TS

0	CA_INIT
1	CA_WAIT_PPS
2	CA_DISPATCH
3	CA_COLD_INIT
4	CA_COLD_WAIT_I
5	COLD_WAIT_ME_1
6	CA_COLD_MFC_SY
7	COLD_WAIT_ME_2
8	CA_COLD_START_
9	CA_COLD_1ST_DW
10	CA_FST_WARM_IN
11	CA_WARM_WAIT_I
12	CA_WARM_WAIT_M
13	CA_WARM_MFC_SY
14	CA_WARM_START_
15	CA_WARM_1ST_DW
16	2D_RUN_WAIT_ME
17	2D_RUN_WAIT_IE
18	CA_2ND_RUN_STA
19	CA_COLD_ACQ_FB
20	CA_FST_WARM_AC
21	CA_WARM_ACQ_FB
22	CA_DEFAULT_ACQ
23	CA_CODE_TRACKI



**Sentinel-2**  
**SRDB Database Extract**  
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24	CA_WARM_INIT
25	CA_DEFAULT_INI
26	CA_DEF_WAIT_IE
27	CA_DEF_WAIT_ME
28	DEF_WAIT_IE_IM
29	CA_DEF_START_S
30	DEF_1ST_DWELL
31	DEF_1_DWELL_WA
32	CA_CHANGE_DELA
33	CA_WAIT_CODE_L
34	CA_CODE_LOCK_C
35	CA_CODE_BW_RED
36	CA_PREP_FFT_SA
37	CA_COLL_FFT_SA
38	CA_WAIT_CARR_L
39	CA_CARR_LOCK_C
40	CA_CARR_BW_RED
41	COR_SPAC_6CC_4
42	COR_SPAC_4CC_2
43	CA_PREP_1ST_TI
44	CA_INIT_1ST_TI
45	CA_EXEC_1ST_TI
46	CA_TRACKING_ST
47	CA_EXEC_1ST_PA
48	CA_PREP_2ND_TI
49	CA_INIT_2ND_TI
50	CA_EXEC_2ND_TI
51	CA_EXEC_2ND_PA
52	CA_PREP_3RD_TI
53	CA_INIT_3RD_TI
54	CA_EXEC_3RD_TI
55	CA_EXEC_3RD_PA
56	CA_STEADY
57	P1_INIT
58	P1_WAIT_IE
59	P1_PREP_TINT_C
60	P1_INIT_TINT_C
61	P1_EXEC_TINT_C
62	P1_WAIT_CODE_L
63	P1_CODE_LOCK_C
64	P1_CODE_BW_RED
65	P1_TRACKING_ST
66	P1_EXEC_1ST_PA
67	P1_PREP_2ND_TI
68	P1_INIT_2ND_TI
69	P1_EXEC_2ND_TI
70	P1_EXEC_2ND_PA
71	P1_PREP_3RD_TI
72	P1_INIT_3RD_TI
73	P1_EXEC_3RD_TI



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74	P1_EXEC_3RD_PA
75	P1_STEADY
76	P2_INIT
77	P2_WAIT_IE
78	P2_PREP_TINT_C
79	P2_INIT_TINT_C
80	P2_EXEC_TINT_C
81	P2_WAIT_RETRY_
82	P2_INIT_CCC
83	P2_WRITE_P_COD
84	P2_RECOVER_P1_
85	P2_RECOVER_P2_
86	P2__START_CODE
87	P2_WRITE_CYCLE
88	P2_WAIT_ME
89	P2_START_SHIFT
90	P2_1ST_DWELL
91	P2_1ST_DWELL_W
92	P2_WAIT_CODE_L
93	P2_CODE_LOCK_C
94	P2_CODE_BW_RED
95	P2_PREP_FFT_SA
96	P2_COLL_FFT_SA
97	P2_WAIT_CARR_L
98	P2_CARR_LOCK_C
99	P2_CARR_BW_RED
100	P2_TRACKING_ST
101	P2_EXEC_1ST_PA
102	P2_PREP_2ND_TI
103	P2_INIT_2ND_TI
104	P2_EXEC_2ND_TI
105	P2_EXEC_2ND_PA
106	P2_PREP_3RD_TI
107	P2_INIT_3RD_TI
108	P2_EXEC_3RD_TI
109	P2_EXEC_3RD_PA
110	P2_STEADY
111	SLAVE_INIT
112	SL_WAIT_ME
113	SL_START_SHIFT
114	SL_WAIT_IE_IMT
115	SL_WAIT_IE
116	SL_PREP_1ST_TI
117	SL_INIT_1ST_TI
118	SL_EXEC_1ST_TI
119	SL_TIMESLOT_WA
120	SL_START_CODEG
121	SL_ACQ_FB
122	SL_CODE_TRACKI
123	SL_1ST_DWELL



**Sentinel-2**  
**SRDB Database Extract**  
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124	SL_1ST_DWELL_W
125	SL_CHANGE_DELA
126	SL_WAIT_CODE_L
127	SL_CODE_LOCK_C
128	SL_CODE_BW_RED
129	SL_PREP_FFT_SA
130	SL_COLL_FFT_SA
131	SL_WAIT_CARR_L
132	SL_CARR_LOCK_C
133	SL_CARR_BW_RED
134	S_CO_SP_6CC_4C
135	S_CO_SP_4CC_2C
136	SL_TRACKING_ST
137	SL_EXEC_1ST_PA
138	SL_PREP_2ND_TI
139	SL_INIT_2ND_TI
140	SL_EXEC_2ND_TI
141	SL_EXEC_2ND_PA
142	SL_PREP_3RD_TI
143	SL_INIT_3RD_TI
144	SL_EXEC_3RD_TI
145	SL_EXEC_3RD_PA
146	SL_STEADY
147	COD_ACQ_ERROR
148	COD_ACQ_ERR_RE
149	CAR_ACQ_ERROR
150	CAR_ACQ_ERR_RE
151	STOPPED
152	STOPPED_REPORT

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**Sentinel-2**  
**SRDB Database Extract**  
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Name: GSKT0262TM Descr: FRIT

**Referenced by:**

From To Text

GST01BAD FRIT  
GST01BC6 FRIT  
GST01BDF FRIT  
GST01BF8 FRIT  
GST01C11 FRIT  
GST01C2A FRIT  
GST01C43 FRIT  
GST01C5C FRIT  
GST01C75 FRIT  
GST01C8E FRIT  
GST01CA7 FRIT  
GST01CC0 FRIT  
GST01CD9 FRIT  
GST01CF2 FRIT  
GST01D0B FRIT  
GST01D24 FRIT  
GST01D3D FRIT  
GST01D56 FRIT  
GST01D6F FRIT  
GST01D88 FRIT  
GST01DA1 FRIT  
GST01DBA FRIT  
GST01DD3 FRIT  
GST01DEC FRIT

0 NOT\_FINAL\_INTE  
1 INTEGRATION\_TI



**Sentinel-2**  
**SRDB Database Extract**  
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Name: GSKT0263TM Descr: FRBW

**Referenced by:**

From To Text

GST01BAE FRBW  
GST01BB2 FDBW  
GST01BC7 FRBW  
GST01BCB FDBW  
GST01BE0 FRBW  
GST01BE4 FDBW  
GST01BF9 FRBW  
GST01BFD FDBW  
GST01C12 FRBW  
GST01C16 FDBW  
GST01C2B FRBW  
GST01C2F FDBW  
GST01C44 FRBW  
GST01C48 FDBW  
GST01C5D FRBW  
GST01C61 FDBW  
GST01C76 FRBW  
GST01C7A FDBW  
GST01C8F FRBW  
GST01C93 FDBW  
GST01CA8 FRBW  
GST01CAC FDBW  
GST01CC1 FRBW  
GST01CC5 FDBW  
GST01CDA FRBW  
GST01CDE FDBW  
GST01CF3 FRBW  
GST01CF7 FDBW  
GST01D0C FRBW  
GST01D10 FDBW  
GST01D25 FRBW  
GST01D29 FDBW  
GST01D3E FRBW  
GST01D42 FDBW  
GST01D57 FRBW  
GST01D5B FDBW  
GST01D70 FRBW  
GST01D74 FDBW  
GST01D89 FRBW  
GST01D8D FDBW  
GST01DA2 FRBW  
GST01DA6 FDBW  
GST01DBB FRBW  
GST01DBF FDBW  
GST01DD4 FRBW  
GST01DD8 FDBW  
GST01DED FRBW  
GST01DF1 FDBW





**Sentinel-2**  
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0 NO\_FINAL\_BANDW  
1 BANDWIDTH\_APPLI

Name: GSKT0264TM Descr: FRDS

Referenced by:

From To Text

GST01BAF FRDS  
GST01BC8 FRDS  
GST01BE1 FRDS  
GST01BFA FRDS  
GST01C13 FRDS  
GST01C2C FRDS  
GST01C45 FRDS  
GST01C5E FRDS  
GST01C77 FRDS  
GST01C90 FRDS  
GST01CA9 FRDS  
GST01CC2 FRDS  
GST01CDB FRDS  
GST01CF4 FRDS  
GST01D0D FRDS  
GST01D26 FRDS  
GST01D3F FRDS  
GST01D58 FRDS  
GST01D71 FRDS  
GST01D8A FRDS  
GST01DA3 FRDS  
GST01DBC FRDS  
GST01DD5 FRDS  
GST01DEE FRDS

0 NO\_FINAL\_DISCR  
1 DISCRIMINATOR\_



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Name: GSKT0265TM Descr: FRTH

**Referenced by:**

From To Text

GST01BB0 FRTH  
GST01BB4 FDTH  
GST01BC9 FRTH  
GST01BCD FDTH  
GST01BE2 FRTH  
GST01BE6 FDTH  
GST01BFB FRTH  
GST01BFF FDTH  
GST01C14 FRTH  
GST01C18 FDTH  
GST01C2D FRTH  
GST01C31 FDTH  
GST01C46 FRTH  
GST01C4A FDTH  
GST01C5F FRTH  
GST01C63 FDTH  
GST01C78 FRTH  
GST01C7C FDTH  
GST01C91 FRTH  
GST01C95 FDTH  
GST01CAA FRTH  
GST01CAE FDTH  
GST01CC3 FRTH  
GST01CC7 FDTH  
GST01CDC FRTH  
GST01CE0 FDTH  
GST01CF5 FRTH  
GST01CF9 FDTH  
GST01D0E FRTH  
GST01D12 FDTH  
GST01D27 FRTH  
GST01D2B FDTH  
GST01D40 FRTH  
GST01D44 FDTH  
GST01D59 FRTH  
GST01D5D FDTH  
GST01D72 FRTH  
GST01D76 FDTH  
GST01D8B FRTH  
GST01D8F FDTH  
GST01DA4 FRTH  
GST01DA8 FDTH  
GST01DBD FRTH  
GST01DC1 FDTH  
GST01DD6 FRTH  
GST01DDA FDTH  
GST01DEF FRTH  
GST01DF3 FDTH



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0 NO\_FINAL\_THRES  
1 THRESHOLD\_APPL

Name: GSKT0266TM Descr: FDIT

Referenced by:

From	To	Text
		GST01BB1 FDIT
		GST01BCA FDIT
		GST01BE3 FDIT
		GST01BFC FDIT
		GST01C15 FDIT
		GST01C2E FDIT
		GST01C47 FDIT
		GST01C60 FDIT
		GST01C79 FDIT
		GST01C92 FDIT
		GST01CAB FDIT
		GST01CC4 FDIT
		GST01CDD FDIT
		GST01CF6 FDIT
		GST01D0F FDIT
		GST01D28 FDIT
		GST01D41 FDIT
		GST01D5A FDIT
		GST01D73 FDIT
		GST01D8C FDIT
		GST01DA5 FDIT
		GST01DBE FDIT
		GST01DD7 FDIT
		GST01DF0 FDIT

0 NO\_FINAL\_INTEG  
1 APPLIED\_INTEGR



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Name: GSKT0267TM Descr: FDSP

Referenced by:

From To Text

GST01BB3 FDSP  
GST01BCC FDSP  
GST01BE5 FDSP  
GST01BFE FDSP  
GST01C17 FDSP  
GST01C30 FDSP  
GST01C49 FDSP  
GST01C62 FDSP  
GST01C7B FDSP  
GST01C94 FDSP  
GST01CAD FDSP  
GST01CC6 FDSP  
GST01CDF FDSP  
GST01CF8 FDSP  
GST01D11 FDSP  
GST01D2A FDSP  
GST01D43 FDSP  
GST01D5C FDSP  
GST01D75 FDSP  
GST01D8E FDSP  
GST01DA7 FDSP  
GST01DC0 FDSP  
GST01DD9 FDSP  
GST01DF2 FDSP

0 NO\_FINAL\_CORRE  
1 CORRELATOR\_SPA

Name: GSKT0293TM Descr: SID

Referenced by:

GST01AE8 SID

From To Text

215 TRACKING\_STATE  
216 MIN\_NAV\_SOL  
217 IMT\_GPST\_CORR  
218 SENTINEL\_AUX  
223 SAT\_IN\_VIEW  
224 CHN\_STATUS  
225 CARR\_PHASE  
226 CARR\_AMPL  
227 CODE\_PHASE  
229 CONST\_STAT  
230 GPS\_NAV\_ALM  
231 GPS\_NAV\_EPH  
232 GPS\_NAV\_UTC\_IO  
234 AGC\_STATUS  
235 NOISE\_HIST



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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST01B96 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99





**Sentinel-2**  
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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:  
GST01B99 V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

Name: GSKT0300TM Descr: R\_MODE

Referenced by:  
GST01B9A R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE



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Name: GSKT0345TM Descr: CONS

**Referenced by:**

From To Text

GST01B9C CONS  
GST01BB5 CONS  
GST01BCE CONS  
GST01BE7 CONS  
GST01C00 CONS  
GST01C19 CONS  
GST01C32 CONS  
GST01C4B CONS  
GST01C64 CONS  
GST01C7D CONS  
GST01C96 CONS  
GST01CAF CONS  
GST01CC8 CONS  
GST01CE1 CONS  
GST01CFA CONS  
GST01D13 CONS  
GST01D2C CONS  
GST01D45 CONS  
GST01D5E CONS  
GST01D77 CONS  
GST01D90 CONS  
GST01DA9 CONS  
GST01DC2 CONS  
GST01DDB CONS

Summary  
11.02.2013 17:02:26

Differences exist between documents.

**New Document:**

[GSY\\_SCI37114](#)

1 pages (19 KB)

11.02.2013 17:02:25

Used to display results.

**Old Document:**

[GSY\\_SCI37114](#)

1 pages (19 KB)

11.02.2013 17:02:25


[Get started: first change is on page 1.](#)


No pages were deleted

## How to read this report

**Highlight** indicates a change.

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 1

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37114	N_ScienceDataReport__CarrierAmplitude	212	1	48	6	774	Y	30	VAR_W	GST01688	CARR_AMPL		Y	37114	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST01688	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST01E08	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST01E09	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST01E0A	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG0409	SN_V_RMODE	SN_V_RMODE			
	0	4	GST01E0B	SN	Serial_Number__not_used_	UINT	INTEGER	Z_IDENTITY
	4	1	GST01E0C	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST01E0D	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST01E0E	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG040A	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01E0F	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01E10	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01E11	SIG	Signal_type	UINT	STRING	GSKT0230TM
8	10	8	GSTG040B	ANT_NU2	ANT_NU2			
	0	4	GST01E12	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01E13	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
9	11	8	GST01E14	SF_CHN	channel_number	UINT	INTEGER	Z_IDENTITY
10	12	16	GST01E15	C_N_0	Carrier_to_noise_power_density_ratio	SINT	INTEGER	GSKP0268TM
11	14	16	GST01E16	AMPL	Carrier_amplitude	SINT	INTEGER	GSKP0269TM

Summary  
11.02.2013 17:02:56

Differences exist between documents.

**New Document:**

[GSY\\_SCI37114\\_NumericalCalibration](#)

1 pages (15 KB)

11.02.2013 17:02:55

Used to display results.

**Old Document:**

[GSY\\_SCI37114\\_NumericalCalibration](#)

1 pages (15 KB)

11.02.2013 17:02:54


[Get started: first change is on page 1.](#)


No pages were deleted

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Summary  
11.02.2013 17:03:19

Differences exist between documents.

**New Document:**

[GSY\\_SCI37114\\_TextualCalibration](#)

6 pages (23 KB)

11.02.2013 17:03:17

Used to display results.

**Old Document:**

[GSY\\_SCI37114\\_TextualCalibration](#)

6 pages (23 KB)


11.02.2013 17:03:17


[Get started: first change is on page 1.](#)


No pages were deleted

## How to read this report

 indicates a change.

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 indicates pages were changed.

 indicates pages were moved.



# Sentinel-2

## SRDB Database Extract

TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 6

Name: GSKT0230TM Descr: SIG

Referenced by:

GST01E11 SIG

From	To	Text
0		GPS_L1_CA
1		GPS_L1_P
2		GPS_L2_CA
3		GPS_L2_P
4		GPS_L2_CM
5		GPS_L2_CL
6		NO_SIGNAL

Name: GSKT0231TM Descr: ANT

Referenced by:

GST01E12 ANT

From	To	Text
0		FIRST_ANTENNA
1		SECOND_ANTENNA

Name: GSKT0293TM Descr: SID

Referenced by:

GST01688 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST





**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 2 of 6

Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST01E09 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 3 of 6

81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 4 of 6

131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 5 of 6

181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 6 of 6

231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:  
GST01E0C V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

Name: GSKT0300TM Descr: R\_MODE

Referenced by:  
GST01E0D R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

Name: GSKT0345TM Descr: CONS

Referenced by:  
GST01E0F CONS

From	To	Text
0		GPS_CONSTELLAT

Summary  
11.02.2013 17:03:37

Differences exist between documents.

**New Document:**

[GSY\\_SCI37115](#)

2 pages (22 KB)

11.02.2013 17:03:35

Used to display results.

**Old Document:**

[GSY\\_SCI37115](#)

2 pages (22 KB)

11.02.2013 17:03:35


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No pages were deleted

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2, 77  
Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37115	N_ScienceDataReport_NoiseHistogram_2_	212	1	48	12	780	Y	94	FIXED	GST01AE8	NOISE_HIST		Y	37115	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST01AE8	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST01E2B	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST01E2C	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST01E2D	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG040C	SN_V_RMODE	SN_V_RMODE			
	0	4	GST01E2E	SN	Serial_Number_not_used	UINT	INTEGER	Z_IDENTITY
	4	1	GST01E2F	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST01E30	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST01E31	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG040D	CHAIN_NU2	CHAIN_NU2			
	0	4	GST01E32	CHAIN	chain_number	UINT	STRING	GSKT0270TM
	4	12	GST01E33	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
8	10	16	GST01E34	N_POWER	Noise_power	SINT	INTEGER	GSKP0269TM
9	12	32	GST01E35	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
10	16	16	GST01E36	LVL_I_P3	normalised_signal_level_detector_counts_of_the_positive_I n_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
11	18	16	GST01E37	LVL_I_P1	normalised_signal_level_detector_counts_of_the_positive_I n_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
12	20	16	GST01E38	LVL_I_M1	normalised_signal_level_detector_counts_of_the_negative _In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
13	22	16	GST01E39	LVL_I_M3	normalised_signal_level_detector_counts_of_the_negative _In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
14	24	32	GST01E3A	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
15	28	32	GST01E3B	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
16	32	16	GST01E3C	LVL_Q_P3	normalised_signal_level_detector_counts_of_the_quadratur e_In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
17	34	16	GST01E3D	LVL_Q_P1	normalised_signal_level_detector_counts_of_the_quadratur e_In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
18	36	16	GST01E3E	LVL_Q_M1	normalised_signal_level_detector_counts_of_the_negative _quadrature_In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
19	38	16	GST01E3F	LVL_Q_M3	normalised_signal_level_detector_counts_of_the_negative _quadrature_In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
20	40	32	GST01E40	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 2 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37115	N_ScienceDataReport__NoiseHistogram_2_	212	1	48	12	780	Y	94	FIXED	GST01AE8	NOISE_HIST		Y	37115	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
21	44	16	GSTG040E	CHAIN_NU2	CHAIN_NU2			
	0	4	GST01E41	CHAIN	chain_number	UINT	STRING	GSKT0270TM
	4	12	GST01E42	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
22	46	16	GST01E43	N_POWER	Noise_power	SINT	INTEGER	GSKP0269TM
23	48	32	GST01E44	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
24	52	16	GST01E45	LVL_I_P3	normalised_signal_level_detector_counts_of_the_positive_I n_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
25	54	16	GST01E46	LVL_I_P1	normalised_signal_level_detector_counts_of_the_positive_I n_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
26	56	16	GST01E47	LVL_I_M1	normalised_signal_level_detector_counts_of_the_negative _ln_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
27	58	16	GST01E48	LVL_I_M3	normalised_signal_level_detector_counts_of_the_negative _ln_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
28	60	32	GST01E49	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
29	64	32	GST01E4A	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
30	68	16	GST01E4B	LVL_Q_P3	normalised_signal_level_detector_counts_of_the_quadratu r_e_in_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
31	70	16	GST01E4C	LVL_Q_P1	normalised_signal_level_detector_counts_of_the_quadratu r_e_in_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
32	72	16	GST01E4D	LVL_Q_M1	normalised_signal_level_detector_counts_of_the_negative _quadrature_in_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
33	74	16	GST01E4E	LVL_Q_M3	normalised_signal_level_detector_counts_of_the_negative _quadrature_in_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
34	76	32	GST01E4F	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY



Summary  
11.02.2013 17:03:55

Differences exist between documents.

**New Document:**

[GSY\\_SCI37115\\_NumericalCalibration](#)

1 pages (15 KB)

11.02.2013 17:03:54

Used to display results.

**Old Document:**

[GSY\\_SCI37115\\_NumericalCalibration](#)

1 pages (15 KB)

11.02.2013 17:03:54


[Get started: first change is on page 1.](#)

No pages were deleted

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**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2 . 77  
Page: 1 of 1

**Name:** GSKP0269TM **Descr:** AMPL

**Unit:** dB X Y

**Referenced by:**

GST01E34 N\_POWER  
GST01E43 N\_POWER

**Modelname:** GENERIC

-32768 -327.68  
32767 327.67

Summary  
11.02.2013 17:04:13

Differences exist between documents.

**New Document:**

[GSY\\_SCI37115\\_TextualCalibration](#)

6 pages (23 KB)

11.02.2013 17:04:11

Used to display results.

**Old Document:**

[GSY\\_SCI37115\\_TextualCalibration](#)

6 pages (23 KB)

11.02.2013 17:04:11

[Get started: first change is on page 1.](#)

No pages were deleted

**How to read this report**

**Highlight** indicates a change.

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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 6

Name: GSKT0270TM Descr: CHAIN

Referenced by:

GST01E32 CHAIN  
GST01E41 CHAIN

From	To	Text
0		ANTENNA_1_-_L1
1		ANTENNA_1_-_L2

Name: GSKT0293TM Descr: SID

Referenced by:

GST01AE8 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 2 of 6

Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST01E2C FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 3 of 6

81	-9_36
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89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 4 of 6

131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 5 of 6

181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99





**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 6 of 6

231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:  
GST01E2F V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

Name: GSKT0300TM Descr: R\_MODE

Referenced by:  
GST01E30 R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

Summary  
11.02.2013 17:04:30

Differences exist between documents.

**New Document:**

[GSY\\_SCI37116](#)

1 pages (19 KB)

11.02.2013 17:04:29

Used to display results.

**Old Document:**

[GSY\\_SCI37116](#)

1 pages (19 KB)

11.02.2013 17:04:29


[Get started: first change is on page 1.](#)


No pages were deleted

## How to read this report

**Highlight** indicates a change.

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2, 77  
Page: 1 of 1

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37116	N_SciData__ScienceDataReport__AGC_Statu	212	1	48	13	781	Y	34	VAR_W	GST018DF	AGC_STATUS		Y	37116	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST018DF	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST01E64	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST01E65	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST01E66	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG040F	SN_V_RMODE	SN_V_RMODE			
	0	4	GST01E67	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST01E68	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST01E69	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST01E6A	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	32	GST01E6B	GCTS_MSB	gain_control_change_timestamp_MSB_part	UINT	INTEGER	Z_IDENTITY
8	12	32	GST01E6C	GCTS_LSB	gain_control_change_timestamp_LSB_part	UINT	INTEGER	Z_IDENTITY
9	16	8	GSTG0410	CHAIN_NU_L_U_E	CHAIN_NU_L_U_E			
	0	4	GST01E6D	CHAIN	Chain_index	UINT	STRING	GSKT0271TM
	4	1	GST01E6E	N_U	not_used	UINT	INTEGER	Z_IDENTITY
	5	1	GST01E6F	L	lower_settling_threshold	UINT	STRING	GSKT0272TM
	6	1	GST01E70	U	upper_settling_threshold	UINT	STRING	GSKT0273TM
	7	1	GST01E71	E	Enabled	UINT	STRING	GSKT0274TM
10	17	8	GST01E72	GAIN	analogue_gain_setting	UINT	INTEGER	Z_IDENTITY
11	18	16	GST01E73	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY

Summary  
11.02.2013 17:04:46

Differences exist between documents.

**New Document:**

[GSY\\_SCI37116\\_TextualCalibration](#)

6 pages (23 KB)

11.02.2013 17:04:44

Used to display results.

**Old Document:**

[GSY\\_SCI37116\\_TextualCalibration](#)

6 pages (23 KB)

11.02.2013 17:04:44


[Get started: first change is on page 1.](#)


No pages were deleted

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# Sentinel-2

## SRDB Database Extract

TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 6

Name: GSKT0271TM Descr: CHAIN

Referenced by:  
GST01E6D CHAIN

From	To	Text
0		ANTENNA_1_-_L1
1		ANTENNA_1_-_L2

Name: GSKT0272TM Descr: L

Referenced by:  
GST01E6F L

From	To	Text
0		NOT_BELOW_LOWE
1		LOWER_SETTLING

Name: GSKT0273TM Descr: U

Referenced by:  
GST01E70 U

From	To	Text
0		NOT_ABOVE_UPPE
1		UPPER_SETTLING

Name: GSKT0274TM Descr: E

Referenced by:  
GST01E71 E

From	To	Text
0		AGC_DISABLED
1		AGC_ENABLED

Name: GSKT0293TM Descr: SID

Referenced by:  
GST018DF SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 2 of 6

Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST01E65 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 3 of 6

81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 4 of 6

131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75





**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 5 of 6

181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 6 of 6

231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:  
GST01E68 V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

Name: GSKT0300TM Descr: R\_MODE

Referenced by:  
GST01E69 R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

Summary  
11.02.2013 17:05:02

Differences exist between documents.

**New Document:**

[GSY\\_SCI37117](#)

2 pages (22 KB)

11.02.2013 17:05:01

Used to display results.

**Old Document:**

[GSY\\_SCI37117](#)

2 pages (22 KB)

11.02.2013 17:05:00

[Get started: first change is on page 1.](#)

No pages were deleted

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2, 77  
Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37117	N_ScienceDataReport__GPS_NAV_Almanac	212	1	48	13	781	Y	58	VAR_W	GST018DF	GPS_NAV_ALM		Y	37117	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST018DF	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST01E88	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST01E89	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST01E8A	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG0411	SN_V_RMODE	SN_V_RMODE			
	0	4	GST01E8B	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST01E8C	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST01E8D	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST01E8E	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG0412	CONS_SVID_NU	CONS_SVID_NU			
	0	3	GST01E8F	CONS	constellation_identifier	UINT	STRING	GSKT0343TM
	3	8	GST01E90	SV_ID	Space_vehicle_identifier	UINT	INTEGER	Z_IDENTITY
	11	5	GST01E91	N_U	not_used	UINT	INTEGER	Z_IDENTITY
8	10	16	GST01E92	T_REC	Time_of_reception	UINT	INTEGER	Z_IDENTITY
9	12	8	GST01E93	ACQ_SV_ID	SV_identity_of_download	UINT	INTEGER	Z_IDENTITY
10	13	8	GST01E94	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
11	14	8	GST01E95	WNa	Week_number	UINT	INTEGER	Z_IDENTITY
12	15	8	GSTG0413	NDH_SH	NDH_SH			
	0	3	GST01E96	NDH	Navigation_Data_Health	UINT	STRING	GSKT0008TM
	3	5	GST01E97	SH	Signal_Health	UINT	STRING	GSKT0009TM
13	16	16	GST01E98	a_f0	SV_clock_correction_polynomial_constants	SINT	INTEGER	GSKP0010TM
14	18	16	GST01E99	a_f1	SV_clock_correction_polynomial_constants	SINT	INTEGER	GSKP0011TM
15	20	8	GST01E9A	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
16	21	8	GST01E9B	t_oa	SV_clock_correlation_reference_time	UINT	INTEGER	GSKP0012TM
17	22	16	GST01E9C	E	Eccentricity	UINT	INTEGER	GSKP0013TM
18	24	16	GST01E9D	rho_i	Derivation__correction__of_inclination	SINT	INTEGER	GSKP0014TM
19	26	16	GST01E9E	Omega_DOT	rate_of_right_ascension	SINT	INTEGER	GSKP0015TM
20	28	32	GST01E9F	Root_A	Square_root_of_the_semimajor_axis	UINT	INTEGER	GSKP0016TM
21	32	32	GST01EA0	Omega_0	Longitude_of_ascending_node_of_Orbit_plane_at_weekly_epoch	SINT	INTEGER	GSKP0017TM



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2, 77  
Page: 2 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37117	N_ScienceDataReport__GPS_NAV_Almanac	212	1	48	13	781	Y	58	VAR_W	GST018DF	GPS_NAV_ALM		Y	37117	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
22	36	32	GST01EA1	w	argument_of_perigee	SINT	INTEGER	GSKP0017TM
23	40	32	GST01EA2	M_0	mean_anomaly_at_reference_time	SINT	INTEGER	GSKP0017TM

Summary  
11.02.2013 17:05:18

Differences exist between documents.

**New Document:**

[GSY\\_SCI37117\\_NumericalCalibration](#)

2 pages (21 KB)

11.02.2013 17:05:16

Used to display results.

**Old Document:**

[GSY\\_SCI37117\\_NumericalCalibration](#)

2 pages (21 KB)

11.02.2013 17:05:16


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No pages were deleted

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**Sentinel-2**  
**SRDB Database Extract**  
**TM Numerical Calibration Curves**

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2.77  
Page: 1 of 2

Name: GSKP0010TM Descr: a\_f0

Referenced by:

Unit: s X Y

GST01E98 a\_f0

Modelname: GENERIC

-1024 -0.0009765625  
1023 0.000975608826

Name: GSKP0011TM Descr: a\_f1

Referenced by:

Unit: s/s X Y

GST01E99 a\_f1

Modelname: GENERIC

-1024 -3.7252903E-09  
1023 3.72165232E-09

Name: GSKP0012TM Descr: t\_oa

Referenced by:

Unit: s X Y

GST01E9B t\_oa

Modelname: GENERIC

0 0  
255 1044480

Name: GSKP0013TM Descr: E

Referenced by:

Unit: X Y

GST01E9C E

Modelname: GENERIC

0 0  
65535 0.031249523163

Name: GSKP0014TM Descr: rho\_i

Referenced by:

Unit: sc X Y

GST01E9D rho\_i

Modelname: GENERIC

-32768 -0.0625  
32767 0.062498092651

Name: GSKP0015TM Descr: Omega\_DOT

Referenced by:

Unit: sc/s X Y

GST01E9E Omega\_DOT

Modelname: GENERIC

-32768 -0.00000011920929  
32767 0.000000119205652

Name: GSKP0016TM Descr: Root\_A

Referenced by:

Unit: rotm X Y

GST01E9F Root\_A

Modelname: GENERIC

1 0.00048828125  
16777215 8191.999511719



**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2 . 77  
Page: 2 of 2

**Name:** GSKP0017TM **Descr:** Omega\_0

**Unit:** sc

X

Y

**Referenced by:**

GST01EA0 Omega\_0

GST01EA1 w

GST01EA2 M\_0

---

**Modelname:** GENERIC

-8388608

-1

8388607

0.999999880791

---



Summary  
11.02.2013 17:05:37

Differences exist between documents.

**New Document:**

[GSY\\_SCI37117\\_TextualCalibration](#)

7 pages (25 KB)

11.02.2013 17:05:35

Used to display results.

**Old Document:**

[GSY\\_SCI37117\\_TextualCalibration](#)

7 pages (25 KB)

11.02.2013 17:05:35


[Get started: first change is on page 1.](#)

No pages were deleted

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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 7

Name: GSKT0008TM Descr: NDH

Referenced by:  
GST01E96 NDH

From	To	Text
0		ALL_OK
1		PARITY_FAILURE
2		TLM_HOW_PROBLE
3		Z_COUNT_BAD
4		SUB-FRAMES_1_2
5		SUB-FRAMES_4_5
6		ALL_UPLOADED_B
7		ALL_DATA_BAD

Name: GSKT0009TM Descr: SH

Referenced by:  
GST01E97 SH

From	To	Text
0		ALL_OK
1		ALL_WEAK
2		ALL_DEAD
3		ALL_WITHOUT_DA
4		L1_P_WEAK
5		L1_P_DEAD
6		L1_P_WITHOUT_D
7		L2_P_WEAK
8		L2_P_DEAD
9		L2_P_WITHOUT_D
10		L1_C_WEAK
11		L1_C_DEAD
12		L1_C_WITHOUT_D
13		L2_C_WEAK
14		L2_C_DEAD
15		L2_C_WITHOUT_D
16		L1_AND_L2_P_WE
17		L1_AND_L2_P_DE
18		L1_AND_L2_P_WI
19		L1_AND_L2_C_WE
20		L1_AND_L2_C_DE
21		L1_AND_L2_C_WI
22		L1_WEAK
23		L1_DEAD
24		L1_WITHOUT_DAT
25		L2_WEAK
26		L2_DEAD
27		L2_WITHOUT_DAT
28		GPS_SV_TEMP_OU
29		GPS_SV_WILL_BE
30		SPARE
31		OTHER_ANOMALIE



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name: GSKT0293TM Descr: SID

Referenced by:

GST018DF SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST

---



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST01E89 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
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Database: SISS2CSW  
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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:  
GST01E8C V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

Name: GSKT0300TM Descr: R\_MODE

Referenced by:  
GST01E8D R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

Name: GSKT0343TM Descr: CONS

Referenced by:  
GST01E8F CONS

From	To	Text
0		GPS_CONSTELLAT



Summary  
11.02.2013 17:05:57

Differences exist between documents.

**New Document:**

[GSY\\_SCI37118](#)

2 pages (23 KB)

11.02.2013 17:05:55

Used to display results.

**Old Document:**

[GSY\\_SCI37118](#)

2 pages (23 KB)

11.02.2013 17:05:54


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## How to read this report

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37118	N_ScienceDataReport__GPS_NAV_Ephemeris	212	1	48	13	781	Y	90	VAR_W	GST018DF	GPS_NAV_EPH		Y	37118	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST018DF	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST01EB7	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST01EB8	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST01EB9	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG0414	SN_V_RMODE	SN_V_RMODE			
	0	4	GST01EBA	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST01EBB	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST01EBC	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST01EBD	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG087F	CONS_SVID_NU	CONS_SVID_NU			
	0	3	GST0415E	CONS	constellation_identifier	UINT	STRING	GSKT0344TM
	3	8	GST0415F	SV_ID	Space_vehicle_identifier	UINT	INTEGER	Z_IDENTITY
	11	5	GST01EC0	N_U	not_used	UINT	INTEGER	Z_IDENTITY
8	10	16	GST01EC1	T_REC	Time_of_reception	UINT	INTEGER	Z_IDENTITY
9	12	16	GSTG0416	AS_D2_CF_C2_A_NH	AS_D2_CF_C2_A_NH_SH_URA			
	0	1	GST01EC2	AS	Anti_spoof_flag	UINT	STRING	GSKT0018TM
	1	1	GST01EC3	D2	Data_flag_for_L2_P_2D_code	UINT	STRING	GSKT0019TM
	2	1	GST01EC4	CF	curve_fit_interval	UINT	STRING	GSKT0020TM
	3	2	GST01EC5	C2	Codes_on_L2_channel	UINT	STRING	GSKT0021TM
	5	1	GST01EC6	A	Alert_flag	UINT	STRING	GSKT0022TM
	6	1	GST01EC7	NH	Navigation_Data_Health_Summary	UINT	STRING	GSKT0023TM
	7	5	GST01EC8	SH	Signal_health	UINT	STRING	GSKT0024TM
	12	4	GST01EC9	URA	GPS_SV_Accuracy	UINT	INTEGER	Z_IDM
10	14	16	GSTG0417	NU2_WN	NU2_WN			
	0	6	GST01ECA	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	6	10	GST01ECB	WN	week_number	UINT	INTEGER	Z_IDENTITY
11	16	16	GST01ECC	IODC	Issue_of_Data_clock	UINT	INTEGER	Z_IDENTITY
12	18	16	GST01ECD	a_f1	GPS_SV_Clock_correction_polynomial_coefficients	SINT	INTEGER	GSKP0025TM
13	20	32	GST01ECE	a_f0	GPS_SV_Clock_correction_polynomial_coefficients	SINT	INTEGER	GSKP0026TM
14	24	8	GST01ECF	a_f2	GPS_SV_Clock_correction_polynomial_coefficients	SINT	INTEGER	GSKP0027TM
15	25	8	GST01ED0	T_GD	estimated_group_delay	SINT	INTEGER	GSKP0028TM



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37118	N_ScienceDataReport__GPS_NAV_Ephemeris	212	1	48	13	781	Y	90	VAR_W	GST018DF	GPS_NAV_EPH		Y	37118	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
16	26	16	GST01ED1	t_oc	GPS_SV_Clock_data_reference_time	UINT	INTEGER	GSKP0029TM
17	28	16	GST01ED2	IODE	Issue_of_Data_2C__Ephemeris	UINT	INTEGER	Z_IDENTITY
18	30	16	GST01ED3	C_rs	amplitude_of_the_sine_harmonic_correction_term_to_the_orbit_radius	SINT	INTEGER	GSKP0030TM
19	32	16	GST01ED4	C_rc	amplitude_of_the_cosine_harmonic_correction_term_to_the_orbit_radius	SINT	INTEGER	GSKP0030TM
20	34	16	GST01ED5	C_us	amplitude_of_the_sine_harmonic_correction_term_to_the_argument_of_Lattitude	SINT	INTEGER	GSKP0031TM
21	36	16	GST01ED6	C_uc	amplitude_of_the_cosine_harmonic_correction_term_to_the_argument_of_Lattitude	SINT	INTEGER	GSKP0031TM
22	38	16	GST01ED7	C_is	amplitude_of_the_sine_harmonic_correction_term_to_the_angle_of_inclination	SINT	INTEGER	GSKP0031TM
23	40	16	GST01ED8	C_ic	amplitude_of_the_cosine_harmonic_correction_term_to_the_angle_of_inclination	SINT	INTEGER	GSKP0031TM
24	42	16	GST01ED9	Delta_n	mean_motion_difference_from_computed_value	SINT	INTEGER	GSKP0032TM
25	44	32	GST01EDA	M_0	mean_anomaly_at_reference_time	SINT	INTEGER	GSKP0033TM
26	48	32	GST01EDB	E	Eccentricity	UINT	INTEGER	GSKP0034TM
27	52	32	GST01EDC	Root_A	square_root_for_the_semi_major_axis	UINT	INTEGER	GSKP0035TM
28	56	32	GST01EDD	Omega_0	longitude_of_ascending_node_of_orbit_plane_at_weekly_epoch	SINT	INTEGER	GSKP0033TM
29	60	32	GST01EDE	i_0	Inclination_angle_at_reference_time	SINT	INTEGER	GSKP0033TM
30	64	32	GST01EDF	w	argument_of_perigee	SINT	INTEGER	GSKP0033TM
31	68	32	GST01EE0	Omega_DOT	rate_of_right_ascension	SINT	INTEGER	GSKP0036TM
32	72	16	GST01EE1	t_oe	reference_time_Ephemeris	UINT	INTEGER	GSKP0029TM
33	74	16	GST01EE2	I_DOT	rate_of_inclination_angle	SINT	INTEGER	GSKP0037TM

Summary  
11.02.2013 17:06:13

Differences exist between documents.

**New Document:**

[GSY\\_SCI37118\\_NumericalCalibration](#)

2 pages (22 KB)

11.02.2013 17:06:12

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**Old Document:**

[GSY\\_SCI37118\\_NumericalCalibration](#)

2 pages (22 KB)

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**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name: GSKP0025TM Descr: a\_f1  
Unit: s/s X Y  
Referenced by: GST01ECD a\_f1

Modelname: GENERIC

-32768 -3.7252903E-09  
32767 3.72517661E-09

Name: GSKP0026TM Descr: a\_f0  
Unit: s X Y  
Referenced by: GST01ECE a\_f0

Modelname: GENERIC

-2097152 -0.0009765625  
2097151 0.000976562034

Name: GSKP0027TM Descr: a\_f2  
Unit: s/s2 X Y  
Referenced by: GST01ECF a\_f2

Modelname: GENERIC

-128 -3.5527137E-15  
127 3.5249581E-15

Name: GSKP0028TM Descr: T\_GD  
Unit: s X Y  
Referenced by: GST01ED0 T\_GD

Modelname: GENERIC

-128 -0.000000059604645  
127 5.91389835E-08

Name: GSKP0029TM Descr: t\_oc  
Unit: s X Y  
Referenced by: GST01ED1 t\_oc  
GST01EE1 t\_oe

Modelname: GENERIC

0 0  
65535 1048560

Name: GSKP0030TM Descr: C\_rs  
Unit: m X Y  
Referenced by: GST01ED3 C\_rs  
GST01ED4 C\_rc

Modelname: GENERIC

-32768 -1024  
32767 1023.96875

Name: GSKP0031TM Descr: C\_us  
Unit: rad X Y  
Referenced by: GST01ED5 C\_us  
GST01ED6 C\_uc  
GST01ED7 C\_is  
GST01ED8 C\_ic

Modelname: GENERIC

-32768 -0.000061035156  
32767 0.0000610332936



# Sentinel-2 SRDB Database Extract TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name: GSKP0032TM Descr: Delta\_n  
Unit: sc/s X Y  
Modelname: GENERIC

Referenced by:  
GST01ED9 Delta\_n

-32768 -3.7252903E-09  
32767 3.72517661E-09

Name: GSKP0033TM Descr: M\_0  
Unit: sc X Y  
Modelname: GENERIC

Referenced by:  
GST01EDA M\_0  
GST01EDD Omega\_0  
GST01EDE i\_0  
GST01EDF w

-2147483648 -1  
2147483647 0.99999999534

Name: GSKP0034TM Descr: E  
Unit: X Y  
Modelname: GENERIC

Referenced by:  
GST01EDB E

0 0  
4294967295 0.499999999884

Name: GSKP0035TM Descr: Root\_A  
Unit: rotm X Y  
Modelname: GENERIC

Referenced by:  
GST01EDC Root\_A

1 0.00000190734863  
4294967295 8191.999998093

Name: GSKP0036TM Descr: Omega\_DOT  
Unit: sc/s X Y  
Modelname: GENERIC

Referenced by:  
GST01EE0 Omega\_DOT

-8388608 -0.00000095367432  
8388607 0.000000953674203

Name: GSKP0037TM Descr: I\_DOT  
Unit: sc/s X Y  
Modelname: GENERIC

Referenced by:  
GST01EE2 I\_DOT

-8192 -9.3132257E-10  
8191 9.31208888E-10

Name: Z\_IDM Descr: Identity metre [m]  
Unit: m X Y  
Modelname: GENERIC

Referenced by:  
GST01EC9 URA

Summary  
11.02.2013 17:06:31

Differences exist between documents.

**New Document:**

[GSY\\_SCI37118\\_TextualCalibration](#)

8 pages (27 KB)

11.02.2013 17:06:29

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[GSY\\_SCI37118\\_TextualCalibration](#)

8 pages (27 KB)

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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name: GSKT0018TM Descr: AS

Referenced by:  
GST01EC2 AS

From	To	Text
0		ANTI-SPOOF_OFF
1		ANTI-SPOOF_ON

Name: GSKT0019TM Descr: D2

Referenced by:  
GST01EC3 D2

From	To	Text
0		DATA_FLAG_ON
1		DATA_FLAG_OFF

Name: GSKT0020TM Descr: CF

Referenced by:  
GST01EC4 CF

From	To	Text
0		4HRS
1		OVER_4HRS

Name: GSKT0021TM Descr: C2

Referenced by:  
GST01EC5 C2

From	To	Text
0		RESERVED
1		P-CODE_ON
2		CA-CODE_ON

Name: GSKT0022TM Descr: A

Referenced by:  
GST01EC6 A

From	To	Text
0		NOMINAL
1		UNAUTHORIZED_U

Name: GSKT0023TM Descr: NH

Referenced by:  
GST01EC7 NH

From	To	Text
0		NAV_DATA_OK
1		SOME_OR_ALL_NA





**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 2 of 8

Name: GSKT0024TM Descr: SH

Referenced by:  
GST01EC8 SH

From	To	Text
0		ALL_OK
1		ALL_WEAK
2		ALL_DEAD
3		ALL_WITHOUT_DA
4		L1_P_WEAK
5		L1_P_DEAD
6		L1_P_WITHOUT_D
7		L2_P_WEAK
8		L2_P_DEAD
9		L2_P_WITHOUT_D
10		L1_C_WEAK
11		L1_C_DEAD
12		L1_C_WITHOUT_D
13		L2_C_WEAK
14		L2_C_DEAD
15		L2_C_WITHOUT_D
16		L1_AND_L2_P_WE
17		L1_AND_L2_P_DE
18		L1_AND_L2_P_WI
19		L1_AND_L2_C_WE
20		L1_AND_L2_C_DE
21		L1_AND_L2_C_WI
22		L1_WEAK
23		L1_DEAD
24		L1_WITHOUT_DAT
25		L2_WEAK
26		L2_DEAD
27		L2_WITHOUT_DAT
28		GPS_SV_TEMP_OU
29		GPS_SV_WILL_BE
30		SPARE
31		OTHER_ANOMALIE



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 3 of 8

Name: GSKT0293TM Descr: SID

Referenced by:  
GST018DF SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST

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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 4 of 8

Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST01EB8 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 5 of 8

81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 6 of 8

131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 7 of 8

181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 8 of 8

231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:  
GST01EBB V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

Name: GSKT0300TM Descr: R\_MODE

Referenced by:  
GST01EBC R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

Name: GSKT0344TM Descr: CONS

Referenced by:  
GST0415E CONS

From	To	Text
0		GPS_CONSTELLAT

Summary  
11.02.2013 17:06:47

Differences exist between documents.

**New Document:**

[GSY\\_SCI37119](#)

2 pages (22 KB)

11.02.2013 17:06:46

Used to display results.

**Old Document:**

[GSY\\_SCI37119](#)

2 pages (22 KB)

11.02.2013 17:06:46


[Get started: first change is on page 1.](#)


No pages were deleted

## How to read this report

**Highlight** indicates a change.

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2, 77  
Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37119	N_ScienceDat__GPS_NAV_UTC_and_Ionosp	212	1	48	13	781	Y	50	FIXED	GST018DF	GPS_NAV_UTC_IO		Y	37119	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST018DF	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST01EF7	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST01EF8	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST01EF9	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG0418	SN_V_RMODE	SN_V_RMODE			
	0	4	GST01EFA	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST01EFB	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST01EFC	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST01EFD	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG0419	CONS_ACQSVI_NU3	CONS_ACQSVI_NU3			
	0	3	GST01EFE	CONS	constellation_identifier	UINT	STRING	GSKT0343TM
	3	8	GST01EFF	ACQ_SV_ID	SV_identity_of_download	UINT	INTEGER	Z_IDENTITY
	11	5	GST01F00	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
8	10	16	GST01F01	T_REC	Time_of_reception	UINT	INTEGER	Z_IDENTITY
9	12	16	GST01F02	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
10	14	8	GST01F03	delta_t_ls	delta_time_due_to_leap_seconds	SINT	INTEGER	Z_IDS
11	15	8	GST01F04	t_ot	reference_time_for_UTC_data	UINT	INTEGER	GSKP0012TM
12	16	8	GST01F05	WN_t	UTC_reference_week_number	UINT	INTEGER	Z_IDWK
13	17	8	GST01F06	WN_LSF	UTC_reference_week_number_due_to_leap_seconds	UINT	INTEGER	Z_IDWK
14	18	8	GST01F07	DN	Day_number	UINT	INTEGER	Z_IDENTITY
15	19	8	GST01F08	delta_t_LSF	delta_time_due_to_leap_seconds	SINT	INTEGER	Z_IDS
16	20	32	GST01F09	A_0	polynomial_constants	SINT	INTEGER	GSKP0038TM
17	24	32	GST01F0A	A_1	polynomial_constants	SINT	INTEGER	GSKP0039TM
18	28	8	GST01F0B	alpha0	lonosphere_parameter	SINT	INTEGER	GSKP0040TM
19	29	8	GST01F0C	alpha1	lonosphere_parameter	SINT	INTEGER	GSKP0041TM
20	30	8	GST01F0D	alpha2	lonosphere_parameter	SINT	INTEGER	GSKP0042TM
21	31	8	GST01F0E	alpha3	lonosphere_parameter	SINT	INTEGER	GSKP0043TM
22	32	8	GST01F0F	beta0	lonosphere_parameter	SINT	INTEGER	GSKP0044TM
23	33	8	GST01F10	beta1	lonosphere_parameter	SINT	INTEGER	GSKP0045TM
24	34	8	GST01F11	beta2	lonosphere_parameter	SINT	INTEGER	GSKP0046TM



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 2 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatn	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37119	N_ScienceDat__GPS_NAV_UTC_and_Ionosp	212	1	48	13	781	Y	50	FIXED	GST018DF	GPS_NAV_UTC_IO		Y	37119	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
25	35	8	GST01F12	beta3	Ionosphere_parameter	SINT	INTEGER	GSKP0047TM

Summary  
11.02.2013 17:07:03

Differences exist between documents.

**New Document:**

[GSY\\_SCI37119\\_NumericalCalibration](#)

2 pages (21 KB)

11.02.2013 17:07:02

Used to display results.

**Old Document:**

[GSY\\_SCI37119\\_NumericalCalibration](#)

2 pages (21 KB)

11.02.2013 17:07:02

[Get started: first change is on page 1.](#)

No pages were deleted

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# Sentinel-2

## SRDB Database Extract

### TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2 . 77  
Page: 1 of 2

Name: GSKP0012TM Descr: t\_oa Referenced by:  
Unit: s X Y GST01F04 t\_ot

Modelname: GENERIC

0  
255 1044480

Name: GSKP0038TM Descr: A\_0 Referenced by:  
Unit: s X Y GST01F09 A\_0

Modelname: GENERIC

-2147483648 -2  
2147483647 1.999999999069

Name: GSKP0039TM Descr: A\_1 Referenced by:  
Unit: s/s X Y GST01F0A A\_1

Modelname: GENERIC

-8388608 -7.4505806E-09  
8388607 7.45057971E-09

Name: GSKP0040TM Descr: alpha0 Referenced by:  
Unit: s X Y GST01F0B alpha0

Modelname: GENERIC

-128 -0.00000011920929  
127 0.000000118277967

Name: GSKP0041TM Descr: alpha1 Referenced by:  
Unit: s/sc X Y GST01F0C alpha1

Modelname: GENERIC

-128 -0.00000095367432  
127 0.000000946223736

Name: GSKP0042TM Descr: alpha2 Referenced by:  
Unit: s/c2 X Y GST01F0D alpha2

Modelname: GENERIC

-128 -0.0000076293945  
127 0.00000756978989

Name: GSKP0043TM Descr: alpha3 Referenced by:  
Unit: s/c3 X Y GST01F0E alpha3

Modelname: GENERIC

-128 -0.0000076293945  
127 0.00000756978989

Name: GSKP0044TM Descr: beta0 Referenced by:  
Unit: s X Y GST01F0F beta0

Modelname: GENERIC

-128 -262144  
127 260096



# Sentinel-2 SRDB Database Extract

## TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2.77  
Page: 2 of 2

Name: GSKP0045TM Descr: beta1

Unit: s/sc X Y

Modelname: GENERIC

-128

127

Referenced by:

GST01F10 beta1

-2097152

2080768

Name: GSKP0046TM Descr: beta2

Unit: s/c2 X Y

Modelname: GENERIC

-128

127

Referenced by:

GST01F11 beta2

-8388608

8323072

Name: GSKP0047TM Descr: beta3

Unit: s/c3 X Y

Modelname: GENERIC

-128

127

Referenced by:

GST01F12 beta3

-8388608

8323072

Name: Z\_IDS Descr: Identity [s]

Unit: s X Y

Modelname: GENERIC

Referenced by:

GST01F03 delta\_t\_Is

GST01F08 delta\_t\_LSF

Name: Z\_IDWK Descr: Identity weeks [-]

Unit: wk X Y

Modelname: GENERIC

Referenced by:

GST01F05 WN\_t

GST01F06 WN\_LSF

Summary  
11.02.2013 17:07:21

Differences exist between documents.

**New Document:**

[GSY\\_SCI37119\\_TextualCalibration](#)

6 pages (23 KB)

11.02.2013 17:07:20

Used to display results.

**Old Document:**

[GSY\\_SCI37119\\_TextualCalibration](#)

7 pages (25 KB)

11.02.2013 17:07:19

[Get started: first change is on page 1.](#)

No pages were deleted

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# Sentinel-2

## SRDB Database Extract

TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 6

Name: GSKT0293TM Descr: SID

Referenced by:  
GST018DF SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV.UTC_IO
234		AGC_STATUS
235		NOISE_HIST



# Sentinel-2

## SRDB Database Extract

### TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 2 of 6

Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST01EF8 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92





**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 4 of 6

131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 5 of 6

181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 6 of 6

231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:  
GST01EFB V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

Name: GSKT0300TM Descr: R\_MODE

Referenced by:  
GST01EFC R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

Name: GSKT0343TM Descr: CONS

Referenced by:  
GST01EFE CONS

From	To	Text
0		GPS_CONSTELLAT



Summary  
11.02.2013 17:07:39

Differences exist between documents.

**New Document:**

[GSY\\_SCI37120](#)

4 pages (30 KB)

11.02.2013 17:07:36

Used to display results.

**Old Document:**

[GSY\\_SCI37120](#)

4 pages (31 KB)

11.02.2013 17:07:36


[Get started: first change is on page 1.](#)


No pages were deleted

## How to read this report

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 4

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37120	N_SciDa__ScienceDataReport__Auxiliary_8_	212	1	48	6	774	Y	54	FIXED	GST01688	SENTINEL_AUX		Y	37120	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST01688	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST01F27	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST01F28	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST01F29	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG041A	SN_V_RMODE	SN_V_RMODE			
	0	4	GST01F2A	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST01F2B	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST01F2C	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST01F2D	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG0862	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
	0	3	GST04054	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel__	UINT	STRING	GSKT0301TM
	3	8	GST01F2F	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST01F30	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
	12	4	GST01F31	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
8	10	8	GST01F32	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
9	11	8	GSTG041C	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			
	0	2	GST01F33	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
	2	1	GST01F34	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
	3	1	GST01F35	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
	4	1	GST01F36	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM
	5	1	GST01F37	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
	6	1	GST01F38	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
	7	1	GST01F39	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM
10	12	16	GSTG0863	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
	0	3	GST04055	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel__	UINT	STRING	GSKT0301TM
	3	8	GST01F3B	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST01F3C	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
	12	4	GST01F3D	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
11	14	8	GST01F3E	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
12	15	8	GSTG041E	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			



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TM Packets Structure

Date: 11.02.2013  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37120	N_SciDa__ScienceDataReport__Auxiliary_8_	212	1	48	6	774	Y	54	FIXED	GST01688	SENTINEL_AUX		Y	37120	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	0	2	GST01F3F	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
	2	1	GST01F40	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
	3	1	GST01F41	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
	4	1	GST01F42	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM
	5	1	GST01F43	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
	6	1	GST01F44	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
	7	1	GST01F45	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM
13	16	16	GSTG0864	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
	0	3	GST04056	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel_	UINT	STRING	GSKT0301TM
	3	8	GST01F47	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST01F48	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
	12	4	GST01F49	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
14	18	8	GST01F4A	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
15	19	8	GSTG0420	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			
	0	2	GST01F4B	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
	2	1	GST01F4C	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
	3	1	GST01F4D	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
	4	1	GST01F4E	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM
	5	1	GST01F4F	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
	6	1	GST01F50	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
	7	1	GST01F51	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM
16	20	16	GSTG0865	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
	0	3	GST04057	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel_	UINT	STRING	GSKT0301TM
	3	8	GST01F53	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST01F54	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
	12	4	GST01F55	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
17	22	8	GST01F56	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
18	23	8	GSTG0422	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			
	0	2	GST01F57	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
	2	1	GST01F58	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
	3	1	GST01F59	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
	4	1	GST01F5A	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37120	N_SciDa__ScienceDataReport__Auxiliary_8_	212	1	48	6	774	Y	54	FIXED	GST01688	SENTINEL_AUX		Y	37120	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
19	5	1	GST01F5B	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
	6	1	GST01F5C	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
	7	1	GST01F5D	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM
	24	16	GSTG0866	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
	0	3	GST04058	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel_	UINT	STRING	GSKT0301TM
	3	8	GST01F5F	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST01F60	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
	12	4	GST01F61	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
	26	8	GST01F62	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
	27	8	GSTG0424	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			
22	0	2	GST01F63	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
	2	1	GST01F64	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
	3	1	GST01F65	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
	4	1	GST01F66	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM
	5	1	GST01F67	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
	6	1	GST01F68	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
	7	1	GST01F69	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM
	28	16	GSTG0867	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
	0	3	GST04059	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel_	UINT	STRING	GSKT0301TM
	3	8	GST01F6B	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
23	11	1	GST01F6C	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
	12	4	GST01F6D	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
	30	8	GST01F6E	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
	31	8	GSTG0426	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			
	0	2	GST01F6F	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
	2	1	GST01F70	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
	3	1	GST01F71	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
	4	1	GST01F72	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM
	5	1	GST01F73	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
	6	1	GST01F74	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
24	7	1	GST01F75	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM





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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37120	N_SciDa__ScienceDataReport__Auxiliary_8_	212	1	48	6	774	Y	54	FIXED	GST01688	SENTINEL_AUX		Y	37120	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
25	32	16	GSTG0868	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
	0	3	GST0405A	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel_	UINT	STRING	GSKT0301TM
	3	8	GST01F77	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST01F78	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
	12	4	GST01F79	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
26	34	8	GST01F7A	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
27	35	8	GSTG0428	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			
	0	2	GST01F7B	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
	2	1	GST01F7C	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
	3	1	GST01F7D	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
	4	1	GST01F7E	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM
	5	1	GST01F7F	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
	6	1	GST01F80	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
	7	1	GST01F81	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM
28	36	16	GSTG0869	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
	0	3	GST0405B	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel_	UINT	STRING	GSKT0301TM
	3	8	GST01F83	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST01F84	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
	12	4	GST01F85	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
29	38	8	GST01F86	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
30	39	8	GSTG042A	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			
	0	2	GST01F87	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
	2	1	GST01F88	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
	3	1	GST01F89	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
	4	1	GST01F8A	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM
	5	1	GST01F8B	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
	6	1	GST01F8C	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
	7	1	GST01F8D	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM

Summary  
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Differences exist between documents.

**New Document:**

[GSY\\_SCI37120\\_TextualCalibration](#)

10 pages (30 KB)

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Used to display results.

**Old Document:**

[GSY\\_SCI37120\\_TextualCalibration](#)

10 pages (30 KB)

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[Get started: first change is on page 1.](#)


No pages were deleted

## How to read this report

**Highlight** indicates a change.

**Deleted** indicates deleted content.

 indicates pages were changed.

 indicates pages were moved.



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name: GSKT0168TM Descr: AS

**Referenced by:**

From	To	Text
		GST01F30 AS
		GST01F3C AS
		GST01F48 AS
		GST01F54 AS
		GST01F60 AS
		GST01F6C AS
		GST01F78 AS
		GST01F84 AS

0	ANTI-SPOOF_OFF
1	ANTI-SPOOF_ON

Name: GSKT0275TM Descr: MFC\_TS

**Referenced by:**

From	To	Text
		GST01F32 MFC_TS
		GST01F3E MFC_TS
		GST01F4A MFC_TS
		GST01F56 MFC_TS
		GST01F62 MFC_TS
		GST01F6E MFC_TS
		GST01F7A MFC_TS
		GST01F86 MFC_TS

0	NO_MEASDATA_AV
1	CODE_ACQUISITI
2	CODE_ACQUISITI
3	CODE_TRACKING_
4	CODE_AND_CARRI
5	CODE_AND_CARRI
6	FINAL_TRACKING
7	FINAL_TRACKING
8	FINAL_TRACKING
9	FINAL_TRACKING
10	FINAL_TRACKING
11	FINAL_TRACKING

Name: GSKT0276TM Descr: NDS

**Referenced by:**

From	To	Text
		GST01F33 NDS
		GST01F3F NDS
		GST01F4B NDS
		GST01F57 NDS
		GST01F63 NDS
		GST01F6F NDS
		GST01F7B NDS
		GST01F87 NDS

0	NOT_SYNC
1	SYNC_NAVDATA_N
2	INVALID
3	SYNC_NAVDATA_I



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Name: GSKT0277TM Descr: C3

**Referenced by:**

From	To	Text
		GST01F34 C3
		GST01F40 C3
		GST01F4C C3
		GST01F58 C3
		GST01F64 C3
		GST01F70 C3
		GST01F7C C3
		GST01F88 C3

0	NO_CODE_LOCK
1	P2_CODE_LOCK

Name: GSKT0278TM Descr: C2

**Referenced by:**

From	To	Text
		GST01F35 C2
		GST01F41 C2
		GST01F4D C2
		GST01F59 C2
		GST01F65 C2
		GST01F71 C2
		GST01F7D C2
		GST01F89 C2

0	NO_CODE_LOCK
1	P1CM_CODE_LOCK

Name: GSKT0279TM Descr: C1

**Referenced by:**

From	To	Text
		GST01F36 C1
		GST01F42 C1
		GST01F4E C1
		GST01F5A C1
		GST01F66 C1
		GST01F72 C1
		GST01F7E C1
		GST01F8A C1

0	NO_CODE_LOCK
1	CA_CODE_LOCK



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Name: GSKT0280TM Descr: A3

**Referenced by:**

From	To	Text
		GST01F37 A3
		GST01F43 A3
		GST01F4F A3
		GST01F5B A3
		GST01F67 A3
		GST01F73 A3
		GST01F7F A3
		GST01F8B A3

0	NO_CARRIER_LOC
1	L2_CARRIER_LOC

Name: GSKT0281TM Descr: A2

**Referenced by:**

From	To	Text
		GST01F38 A2
		GST01F39 A1
		GST01F44 A2
		GST01F45 A1
		GST01F50 A2
		GST01F51 A1
		GST01F5C A2
		GST01F5D A1
		GST01F68 A2
		GST01F69 A1
		GST01F74 A2
		GST01F75 A1
		GST01F80 A2
		GST01F81 A1
		GST01F8C A2
		GST01F8D A1

0	NO_CARRIER_LOC
1	L1_CARRIER_LOC



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Name: GSKT0293TM Descr: SID

Referenced by:  
GST01688 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST

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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST01F28 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2





**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:  
GST01F2B V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

Name: GSKT0300TM Descr: R\_MODE

Referenced by:  
GST01F2C R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
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Name: GSKT0301TM Descr: SCHEME

**Referenced by:**

From To Text

GST04054 SCHEME  
GST04055 SCHEME  
GST04056 SCHEME  
GST04057 SCHEME  
GST04058 SCHEME  
GST04059 SCHEME  
GST0405A SCHEME  
GST0405B SCHEME

0 L1CA-L1PY-L2PY  
1 L1CA-L1CA  
2 L1CA-L2CM

---

Summary  
11.02.2013 17:08:15

Differences exist between documents.

**New Document:**

[GSY\\_SCI37209](#)

2 pages (23 KB)

11.02.2013 17:08:13

Used to display results.

**Old Document:**

[GSY\\_SCI37209](#)

2 pages (23 KB)

11.02.2013 17:08:13

[Get started: first change is on page 1.](#)

No pages were deleted

## How to read this report

**Highlight** indicates a change.

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37209	R_ScienceDataReport__SatellitesInView	212	1	49	6	790	Y	50	VAR_W	GST0B617	SAT_IN_VIEW		Y	37209	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST0B617	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST0B618	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0B619	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0B61A	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG1AAA	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0B61B	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST0B61C	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0B61D	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0B61E	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG1AAB	CONS_SVID_BLOCK__	CONS_SVID_BLOCK_E_B			
	0	3	GST0B61F	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0B620	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	3	GST0B621	BLOCK	GPS_SV_Block_type	UINT	STRING	GSKT0214TM
	14	1	GST0B622	E	Ephemeris_data_available	UINT	STRING	GSKT0215TM
	15	1	GST0B623	B	SV_temporarily_banned_flag	UINT	STRING	GSKT0216TM
8	10	8	GSTG1AAC	ANT_X_N_M_S	ANT_X_N_M_S			
	0	4	GST0B624	ANT	antenna_identifier	UINT	STRING	GSKT0217TM
	4	1	GST0B625	X	SV_is_excluded_by_user	UINT	STRING	GSKT0218TM
	5	1	GST0B626	N	SV_is_used_for_navigation_solution	UINT	STRING	GSKT0219TM
	6	1	GST0B627	M	multipath_mitigation_masking	UINT	STRING	GSKT0220TM
	7	1	GST0B628	S	GNSS_SV_antenna_masking	UINT	STRING	GSKT0221TM
9	11	8	GST0B629	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0222TM
10	12	8	GSTG1AAD	URA_AL_FP_NU2	URA_AL_FP_NU2			
	0	5	GST0B62A	URA	User_range_accuracy_index	UINT	INTEGER	Z_IDENTITY
	5	1	GST0B62B	AL	alert_flag	UINT	INTEGER	Z_IDENTITY
	6	1	GST0B62C	FP	Force_P_Y_tracking_flag	UINT	STRING	GSKT0223TM
	7	1	GST0B62D	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
11	13	8	GSTG1AAE	H1_H2_NU3	H1_H2_NU3			
	0	1	GST0B62E	H1	Signal_and_data_health_for_1st_band	UINT	STRING	GSKT0224TM
	1	1	GST0B62F	H2	Signal_and_data_health_for_2nd_band	UINT	STRING	GSKT0225TM
	2	6	GST0B630	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
12	14	32	GST0B631	PSEUDO_R_MSB	measured_pseudo_range_MSB_part	UINT	INTEGER	GSKP0347TM



# Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 2 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37209	R_ScienceDataReport__SatellitesInView	212	1	49	6	790	Y	50	VAR_W	GST0B617	SAT_IN_VIEW		Y	37209	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
13	18	16	GST0B632	PSEUDO_R_LSB	measured_pseudo_range_LSB_part	UINT	INTEGER	Z_IDMM
14	20	32	GST0B633	DELTA_R	measured_delta_range	SINT	INTEGER	GSKP0226TM
15	24	16	GST0B634	ZENITH_t0	zenith_angle_at_time_t0	UINT	INTEGER	GSKP0227TM
16	26	16	GST0B635	AZ_t0	azimuth_angle_at_time_t0	SINT	INTEGER	GSKP0228TM
17	28	16	GST0B636	ZENITH_t1	zenith_angle_at_time_t1	UINT	INTEGER	GSKP0227TM
18	30	16	GST0B637	AZ_t1	azimuth_angle_at_time_t1	SINT	INTEGER	GSKP0228TM
19	32	16	GST0B638	ATT_UNC	Attitude_uncertainty	UINT	INTEGER	GSKP0229TM
20	34	16	GST0B639	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY

Summary  
11.02.2013 17:08:31

Differences exist between documents.

**New Document:**

[GSY\\_SCI37209\\_NumericalCalibration](#)

1 pages (19 KB)

11.02.2013 17:08:30

Used to display results.

**Old Document:**

[GSY\\_SCI37209\\_NumericalCalibration](#)

1 pages (16 KB)

11.02.2013 17:08:30

[Get started: first change is on page 1.](#)

No pages were deleted

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# Sentinel-2 SRDB Database Extract TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2 . 77  
Page: 1 of 1

Name: GSKP0226TM Descr: DELTA\_RNG  
Unit: m/s X Y  
Referenced by: GST0B633 DELTA\_R

Modelname: GENERIC

-2147483648 -21474.83648  
2147483647 21474.83647

Name: GSKP0227TM Descr: ZENITH\_t0  
Unit: deg X Y  
Referenced by: GST0B634 ZENITH\_t0  
GST0B636 ZENITH\_t1

Modelname: GENERIC

0 0  
65535 655.35

Name: GSKP0228TM Descr: AZ\_t0  
Unit: deg X Y  
Referenced by: GST0B635 AZ\_t0  
GST0B637 AZ\_t1

Modelname: GENERIC

-32768 -327.68  
32767 327.67

Name: GSKP0229TM Descr: ATT\_UNC  
Unit: deg X Y  
Referenced by: GST0B638 ATT\_UNC

Modelname: GENERIC

0 0  
65535 65.535

Name: GSKP0347TM Descr: MaxPosErrAlm  
Unit: m X Y  
Referenced by: GST0B631 PSEUDO\_R\_MSB

Modelname: GENERIC

0 0  
4294967295 4294967.295

Name: Z\_IDMM Descr: Identity millimetre [mm]  
Unit: mm X Y  
Referenced by: GST0B632 PSEUDO\_R\_LSB

Modelname: GENERIC

Summary  
11.02.2013 17:08:52

Differences exist between documents.

**New Document:**

[GSY\\_SCI37209\\_TextualCalibration](#)

8 pages (27 KB)

11.02.2013 17:08:50

Used to display results.

**Old Document:**

[GSY\\_SCI37209\\_TextualCalibration](#)

8 pages (27 KB)

11.02.2013 17:08:50


[Get started: first change is on page 1.](#)


No pages were deleted

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# Sentinel-2

## SRDB Database Extract

TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name: GSKT0214TM Descr: BLOCK

Referenced by:  
GST0B621 BLOCK

From	To	Text
0		BLOCK_I
1		BLOCK_IIIIAIR
2		BLOCK_IIR-M
3		BLOCK_IIF
7		BLOCK_UNKNOWN

Name: GSKT0215TM Descr: E

Referenced by:  
GST0B622 E

From	To	Text
0		NO_EPHEMERIS_A
1		EPHEMERIS_AVAI

Name: GSKT0216TM Descr: B

Referenced by:  
GST0B623 B

From	To	Text
0		SV_NOT_BANNED
1		SV_TEMP_BANNED

Name: GSKT0217TM Descr: ANT

Referenced by:  
GST0B624 ANT

From	To	Text
0		FIRST_ANTENNA
1		SECOND_ANTENNA

Name: GSKT0218TM Descr: X

Referenced by:  
GST0B625 X

From	To	Text
0		SV_NOT_EXCLUDE
1		SV_EXCLUDED

Name: GSKT0219TM Descr: N

Referenced by:  
GST0B626 N

From	To	Text
0		SV_NOT_USED_FO
1		SV_USED_FOR_NA

Name: GSKT0220TM Descr: M

Referenced by:  
GST0B627 M

From	To	Text
0		SV_NOT_EXCLUDE
1		SV_EXCLUDED_DU

Name: GSKT0221TM Descr: S

Referenced by:  
GST0B628 S

From	To	Text
0		SV_NOT_EXCLUDE
1		SV_EXCLUDED_DU



**Sentinel-2**  
**SRDB Database Extract**  
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Name: GSKT0222TM Descr: MFC\_TS

Referenced by:  
GST0B629 MFC\_TS

From	To	Text
0		NO_MEASDATA_AV
1		CODE_ACQUISITI
2		CODE_ACQUISITI
3		CODE_TRACKING_
4		CODE_AND_CARRI
5		CODE_AND_CARRI
6		FINAL_TRACKING
7		FINAL_TRACKING
8		FINAL_TRACKING
9		FINAL_TRACKING
10		FINAL_TRACKING
11		FINAL_TRACKING

Name: GSKT0223TM Descr: FP

Referenced by:  
GST0B62C FP

From	To	Text
0		L2CM_USED
1		PY_USED

Name: GSKT0224TM Descr: H1

Referenced by:  
GST0B62E H1

From	To	Text
0		L1_AND_DATA_HE
1		L1_OR_DATA_UNH

Name: GSKT0225TM Descr: H2

Referenced by:  
GST0B62F H2

From	To	Text
0		L2_AND_DATA_HE
1		L2_OR_DATA_UNH



**Sentinel-2**  
**SRDB Database Extract**  
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Name: GSKT0293TM Descr: SID

Referenced by:  
GST0B617 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST

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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0B619 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
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101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 6 of 8

131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
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153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
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160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75





**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
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194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



# Sentinel-2 SRDB Database Extract TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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231	67_98
232	68_98
233	70_02
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239	76_95
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241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:  
GST0B61C V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

Name: GSKT0300TM Descr: R\_MODE

Referenced by:  
GST0B61D R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

Name: GSKT0345TM Descr: CONS

Referenced by:  
GST0B61F CONS

From	To	Text
0		GPS_CONSTELLAT



Summary  
11.02.2013 17:09:13

Differences exist between documents.

**New Document:**

[GSY\\_SCI37210](#)

1 pages (19 KB)

11.02.2013 17:09:12

Used to display results.

**Old Document:**

[GSY\\_SCI37210](#)

1 pages (19 KB)

11.02.2013 17:09:12


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No pages were deleted

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 1

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37210	R_SciDa__ScienceDataReport__CarrierPhase	212	1	49	6	790	Y	38	VAR_W	GST0B617	CARR_PHASE		Y	37210	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST0B617	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST0B64D	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0B64E	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0B64F	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG1AAF	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0B650	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST0B651	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0B652	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0B653	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG1AB0	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0B654	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0B655	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0B656	SIG	Signal_type	UINT	STRING	GSKT0230TM
8	10	8	GSTG1AB1	ANT_D_NU2	ANT_D_NU2			
	0	4	GST0B657	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	1	GST0B658	D	Deterioration_flag	UINT	STRING	GSKT0232TM
	5	3	GST0B659	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
9	11	8	GST0B65A	SF_CHN	channel_number	UINT	INTEGER	Z_IDENTITY
10	12	32	GST0B65B	NCO_PHASE_MSB	Carrier_cycle_count_and_Carrier_NCO_phase_MSB_part	SINT	INTEGER	GSKP0233TM
11	16	32	GST0B65C	NCO_PHASE_LSB	Carrier_cycle_count_and_Carrier_NCO_phase_LSB_part	UINT	INTEGER	GSKP0234TM
12	20	32	GST0B65D	DELTA_RNG	Delta_range	SINT	INTEGER	GSKP0226TM

Summary  
11.02.2013 17:09:30

Differences exist between documents.

**New Document:**

[GSY\\_SCI37210\\_NumericalCalibration](#)

1 pages (16 KB)

11.02.2013 17:09:29

Used to display results.

**Old Document:**

[GSY\\_SCI37210\\_NumericalCalibration](#)

1 pages (16 KB)

11.02.2013 17:09:29

[Get started: first change is on page 1.](#)

No pages were deleted

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# Sentinel-2 SRDB Database Extract

TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 1 of 1

Name: GSKP0226TM Descr: DELTA\_RNG

Referenced by:

Unit: m/s X Y

GST0B65D DELTA\_RNG

Modelname: GENERIC

-2147483648 -21474.83648  
2147483647 21474.83647

Name: GSKP0233TM Descr: NCO\_PHASE\_MSB

Referenced by:

Unit: cacy X Y

GST0B65B NCO\_PHASE\_MSB

Modelname: GENERIC

-2147483648 -524288  
2147483647 524287.9997559

Name: GSKP0234TM Descr: NCO\_PHASE\_LSB

Referenced by:

Unit: cacy X Y

GST0B65C NCO\_PHASE\_LSB

Modelname: GENERIC

0 0  
4294967295 1048575.999756

Summary  
11.02.2013 17:09:48

Differences exist between documents.

**New Document:**

[GSY\\_SCI37210\\_TextualCalibration](#)

6 pages (24 KB)

11.02.2013 17:09:46

Used to display results.

**Old Document:**

[GSY\\_SCI37210\\_TextualCalibration](#)

6 pages (24 KB)

11.02.2013 17:09:46


[Get started: first change is on page 1.](#)

No pages were deleted

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# Sentinel-2

## SRDB Database Extract

TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 6

Name: GSKT0230TM Descr: SIG

Referenced by:  
GST0B656 SIG

From	To	Text
0		GPS_L1_CA
1		GPS_L1_P
2		GPS_L2_CA
3		GPS_L2_P
4		GPS_L2_CM
5		GPS_L2_CL
6		NO_SIGNAL

Name: GSKT0231TM Descr: ANT

Referenced by:  
GST0B657 ANT

From	To	Text
0		FIRST_ANTENNA
1		SECOND_ANTENNA

Name: GSKT0232TM Descr: D

Referenced by:  
GST0B658 D

From	To	Text
0		STEADY_CARRIER
1		UNSTEADY_CARRI

Name: GSKT0293TM Descr: SID

Referenced by:  
GST0B617 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST





**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
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Database: SISS2CSW  
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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0B64E FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



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**SRDB Database Extract**  
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Date: 11.02.2013  
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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

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Comment/Unit:  
Database: SISS2CSW  
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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 6 of 6

231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:  
GST0B651 V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

Name: GSKT0300TM Descr: R\_MODE

Referenced by:  
GST0B652 R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

Name: GSKT0345TM Descr: CONS

Referenced by:  
GST0B654 CONS

From	To	Text
0		GPS_CONSTELLAT

Summary  
11.02.2013 17:13:22

Differences exist between documents.

**New Document:**

[GSY\\_SCI37211](#)

1 pages (19 KB)

11.02.2013 17:13:20

Used to display results.

**Old Document:**

[GSY\\_SCI37211](#)

1 pages (19 KB)

11.02.2013 17:13:20

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 1

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37211	R_SciData__ScienceDataReport__CodePhas	212	1	49	6	790	Y	34	VAR_W	GST0B617	CODE_PHASE		Y	37211	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST0B617	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST0B672	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0B673	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0B674	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG1AB2	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0B675	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST0B676	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0B677	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0B678	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG1AB3	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0B679	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0B67A	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0B67B	SIG	Signal_type	UINT	STRING	GSKT0230TM
8	10	8	GSTG1AB4	ANT_D_S_NU2	ANT_D_S_NU2			
	0	4	GST0B67C	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	1	GST0B67D	D	Deterioration_flag	UINT	STRING	GSKT0232TM
	5	1	GST0B67E	S	Smoothing_flag	UINT	STRING	GSKT0235TM
	6	2	GST0B67F	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
9	11	8	GST0B680	SF_CHN	channel_number	UINT	INTEGER	Z_IDENTITY
10	12	32	GST0B681	CC_MSB	Chip_count_MSB_part	UINT	INTEGER	Z_IDCOCH
11	16	16	GST0B682	CC_LSB	Chip_count_LSB_part	UINT	INTEGER	Z_IDCOCH
12	18	16	GST0B683	FP	Code_phase_fractional_part	UINT	INTEGER	GSKP0123TM

Summary  
11.02.2013 17:13:40

Differences exist between documents.

**New Document:**

[GSY\\_SCI37211\\_NumericalCalibration](#)

1 pages (15 KB)

11.02.2013 17:13:38

Used to display results.

**Old Document:**

[GSY\\_SCI37211\\_NumericalCalibration](#)

1 pages (15 KB)

11.02.2013 17:13:38


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Sentinel-2  
SRDB Database Extract  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 1 of 1

Name: GSKP0123TM Descr: INITIAL\_CP

Unit: coch X Y

Modelname: GENERIC

Referenced by:

GST0B683 FP

0 0  
65535 0.999984741211

Name: Z\_IDCOCH Descr: Identity with unit coch

Unit: coch X Y

Modelname: GENERIC

Referenced by:

GST0B681 CC\_MSB  
GST0B682 CC\_LSB

Summary  
11.02.2013 17:13:58

Differences exist between documents.

**New Document:**

[GSY\\_SCI37211\\_TextualCalibration](#)

6 pages (24 KB)

11.02.2013 17:13:57

Used to display results.

**Old Document:**

[GSY\\_SCI37211\\_TextualCalibration](#)

6 pages (24 KB)

11.02.2013 17:13:57


[Get started: first change is on page 1.](#)


No pages were deleted

**How to read this report**

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# Sentinel-2

## SRDB Database Extract

### TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 6

Name: GSKT0230TM Descr: SIG

Referenced by:  
GST0B67B SIG

From	To	Text
0		GPS_L1_CA
1		GPS_L1_P
2		GPS_L2_CA
3		GPS_L2_P
4		GPS_L2_CM
5		GPS_L2_CL
6		NO_SIGNAL

Name: GSKT0231TM Descr: ANT

Referenced by:  
GST0B67C ANT

From	To	Text
0		FIRST_ANTENNA
1		SECOND_ANTENNA

Name: GSKT0232TM Descr: D

Referenced by:  
GST0B67D D

From	To	Text
0		STEADY_CARRIER
1		UNSTEADY_CARRI

Name: GSKT0235TM Descr: S

Referenced by:  
GST0B67E S

From	To	Text
0		SMOOTHING_NOT_
1		SMOOTHING_APPL

Name: GSKT0293TM Descr: SID

Referenced by:  
GST0B617 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0B673 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
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65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
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96	-1_65
97	-1_17
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121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
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132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
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144	18_99
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153	22_75
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155	23_59
156	24_02
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160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:  
GST0B676 V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

Name: GSKT0300TM Descr: R\_MODE

Referenced by:  
GST0B677 R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

Name: GSKT0345TM Descr: CONS

Referenced by:  
GST0B679 CONS

From	To	Text
0		GPS_CONSTELLAT





Summary  
11.02.2013 17:14:18

Differences exist between documents.

**New Document:**

[GSY\\_SCI37212](#)

2 pages (23 KB)

11.02.2013 17:14:16

Used to display results.

**Old Document:**

[GSY\\_SCI37212](#)

2 pages (23 KB)

11.02.2013 17:14:16


[Get started: first change is on page 1.](#)


No pages were deleted

## How to read this report

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37212	R_Sci__ScienceDataReport__S1_NavSolution	212	1	49	11	795	Y	118	FIXED	GST0B686	MIN_NAV_SOL		Y	37212	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST0B686	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST0B698	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0B699	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0B69A	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG1AB5	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0B69B	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST0B69C	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0B69D	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0B69E	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	32	GST0B69F	GPST_SEC	seconds	UINT	INTEGER	Z_IDS
8	12	32	GST0B6A0	GPST_SUBSEC	fractions_of_a_second	UINT	INTEGER	GSKP0048TM
9	16	16	GSTG1AB6	NU3_NSM_QUALIN	NU3_NSM_QUALIN			
	0	1	GST0B6A1	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	1	3	GST0B6A2	NSM	Navigation_solution_method	UINT	STRING	GSKT0204TM
	4	12	GST0B6A3	QUAL_INDEX	Quality_index	UINT	INTEGER	Z_IDM
10	18	16	GST0B6A4	GDOP	Geometrical_dilution_of_precision	UINT	INTEGER	GSKP0205TM
11	20	16	GSTG1AB7	MAXURA_MAXFIT_NU	MAXURA_MAXFIT_NU4_NOFSV			
	0	5	GST0B6A5	MAX_URA	maximum_user_range_accuracy	SINT	INTEGER	Z_IDENTITY
	5	4	GST0B6A6	MAX_FIT	maximum_curve_fit_interval_taken_from_all_SV_B4_s_use d_in_current_navigation_solution	UINT	STRING	GSKT0206TM
	9	3	GST0B6A7	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST0B6A8	NOF_SV	Nof_SVs_contributing_to_the_nav_solution	UINT	INTEGER	Z_IDENTITY
12	22	32	GST0B6A9	POS_X_MSB	X_2D_coordinate_MSB_part	SINT	INTEGER	GSKP0207TM
13	26	16	GST0B6AA	POS_X_LSB	X_2D_coordinate_LSB_part	UINT	INTEGER	Z_IDMM
14	28	32	GST0B6AB	POS_Y_MSB	Y_2D_coordinate_MSB_part	SINT	INTEGER	GSKP0207TM
15	32	16	GST0B6AC	POS_Y_LSB	Y_2D_coordinate_LSB_part	UINT	INTEGER	Z_IDMM
16	34	32	GST0B6AD	POS_Z_MSB	Z_2D_coordinate_MSB_part	SINT	INTEGER	GSKP0207TM
17	38	16	GST0B6AE	POS_Z_LSB	Z_2D_coordinate_LSB_part	UINT	INTEGER	Z_IDMM
18	40	32	GST0B6AF	VEL_X	X_2D_velocity	SINT	INTEGER	GSKP0049TM
19	44	32	GST0B6B0	VEL_Y	Y_2D_velocity	SINT	INTEGER	GSKP0049TM
20	48	32	GST0B6B1	VEL_Z	Z_2D_velocity	SINT	INTEGER	GSKP0049TM



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2, 77  
Page: 2 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37212	R_Sci__ScienceDataReport__S1_NavSolution	212	1	49	11	795	Y	118	FIXED	GST0B686	MIN_NAV_SOL		Y	37212	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
21	52	16	GST0B6B2	PDOP	position_dilution_of_precision	UINT	INTEGER	GSKP0205TM
22	54	16	GST0B6B3	TDOP	time_dilution_of_precision	UINT	INTEGER	GSKP0205TM
23	56	32	GST0B6B4	delta_x	position_error_in_x_direction	SINT	INTEGER	GSKP0207TM
24	60	32	GST0B6B5	delta_y	position_error_in_y_direction	SINT	INTEGER	GSKP0207TM
25	64	32	GST0B6B6	delta_z	position_error_in_z_direction	SINT	INTEGER	GSKP0207TM
26	68	32	GST0B6B7	delta_t	GNSS_system_time_error	SINT	INTEGER	Z_IDNS
27	72	32	GST0B6B8	delta_v_x	velocity_error_in_x_direction	SINT	INTEGER	GSKP0049TM
28	76	32	GST0B6B9	delta_v_y	velocity_error_in_y_direction	SINT	INTEGER	GSKP0049TM
29	80	32	GST0B6BA	delta_v_z	velocity_error_in_z_direction	SINT	INTEGER	GSKP0049TM
30	84	32	GST0B6BB	delta_f	receiver_clock_frequency_error	SINT	INTEGER	GSKP0208TM
31	88	32	GST0B6BC	HEIGHT	height_above_ellipsoid	UINT	INTEGER	GSKP0346TM
32	92	32	GST0B6BD	VERTSPEED	vertical_speed	SINT	INTEGER	GSKP0209TM
33	96	32	GST0B6BE	LONGITUDE	longitude	SINT	INTEGER	GSKP0210TM
34	100	32	GST0B6BF	LATITUDE	latitude	SINT	INTEGER	GSKP0211TM

Summary  
11.02.2013 17:14:35

Differences exist between documents.

**New Document:**

[GSY\\_SCI37212\\_NumericalCalibration](#)

2 pages (21 KB)

11.02.2013 17:14:34

Used to display results.

**Old Document:**

[GSY\\_SCI37212\\_NumericalCalibration](#)

2 pages (21 KB)

11.02.2013 17:14:34


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No pages were deleted

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**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2 . 77  
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Name: GSKP0048TM Descr: PV\_GPST\_SUBSEC  
Unit: us X Y

Referenced by:  
GST0B6A0 GPST\_SUBSEC

Modelname: GENERIC

0 0  
4294967295 999999.9997672

Name: GSKP0049TM Descr: VEL\_X  
Unit: m/s X Y

Referenced by:  
GST0B6AF VEL\_X  
GST0B6B0 VEL\_Y  
GST0B6B1 VEL\_Z  
GST0B6B8 delta\_v\_x  
GST0B6B9 delta\_v\_y  
GST0B6BA delta\_v\_z

Modelname: GENERIC

-2147483648 -2147483.648  
2147483647 2147483.647

Name: GSKP0205TM Descr: GDOP  
Unit: X Y

Referenced by:  
GST0B6A4 GDOP  
GST0B6B2 PDOP  
GST0B6B3 TDOP

Modelname: GENERIC

0 0  
65535 655.35

Name: GSKP0207TM Descr: POS\_X\_MSB  
Unit: m X Y

Referenced by:  
GST0B6A9 POS\_X\_MSB  
GST0B6AB POS\_Y\_MSB  
GST0B6AD POS\_Z\_MSB  
GST0B6B4 delta\_x  
GST0B6B5 delta\_y  
GST0B6B6 delta\_z

Modelname: GENERIC

-2147483648 -2147483.648  
2147483647 2147483.647

Name: GSKP0208TM Descr: delta\_f  
Unit: Hz X Y

Referenced by:  
GST0B6BB delta\_f

Modelname: GENERIC

-2147483648 -2147483.648  
2147483647 2147483.647

Name: GSKP0209TM Descr: VERTSPEED  
Unit: mm/s X Y

Referenced by:  
GST0B6BD VERTSPEED

Modelname: GENERIC

-2147483648 -21474836.48  
2147483647 21474836.47



# Sentinel-2

## SRDB Database Extract

### TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 2 of 2

Name: GSKP0210TM Descr: LONGITUDE  
Unit: deg X Y  
Modelname: GENERIC  
-1800000000 -180  
1800000000 180

Referenced by:  
GST0B6BE LONGITUDE

Name: GSKP0211TM Descr: LATITUDE  
Unit: deg X Y  
Modelname: GENERIC  
-900000000 -90  
900000000 90

Referenced by:  
GST0B6BF LATITUDE

Name: GSKP0346TM Descr: HEIGHT  
Unit: m X Y  
Modelname: GENERIC  
0 0  
4294967295 42949672.95

Referenced by:  
GST0B6BC HEIGHT

Name: Z\_IDM Descr: Identity metre [m]  
Unit: m X Y  
Modelname: GENERIC

Referenced by:  
GST0B6A3 QUAL\_INDEX

Name: Z\_IDMM Descr: Identity millimetre [mm]  
Unit: mm X Y  
Modelname: GENERIC

Referenced by:  
GST0B6AA POS\_X\_LSB  
GST0B6AC POS\_Y\_LSB  
GST0B6AE POS\_Z\_LSB

Name: Z\_IDNS Descr: Identity [ns]  
Unit: ns X Y  
Modelname: GENERIC

Referenced by:  
GST0B6B7 delta\_t

Name: Z\_IDS Descr: Identity [s]  
Unit: s X Y  
Modelname: GENERIC

Referenced by:  
GST0B69F GPST\_SEC

Summary  
11.02.2013 17:14:55

Differences exist between documents.

**New Document:**

[GSY\\_SCI37212\\_TextualCalibration](#)

6 pages (24 KB)

11.02.2013 17:14:53

Used to display results.

**Old Document:**

[GSY\\_SCI37212\\_TextualCalibration](#)

7 pages (25 KB)

11.02.2013 17:14:52


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# Sentinel-2

## SRDB Database Extract

TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 1 of 6

Name: GSKT0204TM Descr: NSM

Referenced by:  
GST0B6A2 NSM

From	To	Text
1		PROPAGATED
2		FIRST_FIX
3		COLD_FIRST_FIX
4		LEAST_SQUARE
5		KALMAN_FILTER
7		INVALID

Name: GSKT0206TM Descr: MAX\_FIT

Referenced by:  
GST0B6A6 MAX\_FIT

From	To	Text
0		4_H
1		6_H
2		8_H
3		14_H
4		26_H
5		50_H
6		74_H
7		98_H
8		122_H
9		146_H
15		PROPAGATED_PVT

Name: GSKT0293TM Descr: SID

Referenced by:  
GST0B686 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST





# Sentinel-2

## SRDB Database Extract

### TM Textual Calibration Curves

Date: 11.02.2013  
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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0B699 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 3 of 6

81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 4 of 6

131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



Sentinel-2  
SRDB Database Extract  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:  
GST0B69C V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

Name: GSKT0300TM Descr: R\_MODE

Referenced by:  
GST0B69D R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

Summary  
11.02.2013 17:15:12

Differences exist between documents.

**New Document:**

[GSY\\_SCI37213](#)

1 pages (19 KB)

11.02.2013 17:15:11

Used to display results.

**Old Document:**

[GSY\\_SCI37213](#)

1 pages (19 KB)

11.02.2013 17:15:11

[Get started: first change is on page 1.](#)

No pages were deleted

## How to read this report

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 1

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37213	R_ScienceDataRepor__IMT_GPST_Correlatio	212	1	49	11	795	Y	42	FIXED	GST0B686	IMT_GPST_CORR		Y	37213	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST0B686	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST0B6D4	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0B6D5	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0B6D6	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG1AB8	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0B6D7	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST0B6D8	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0B6D9	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0B6DA	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG1AB9	NU2_NSM_QUALID	NU2_NSM_QUALID			
	0	1	GST0B6DB	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	1	3	GST0B6DC	NSM	navigation_solution_method	UINT	STRING	GSKT0212TM
	4	12	GST0B6DD	QUAL_IDX	Quality_index	UINT	INTEGER	Z_IDNSOM
8	10	16	GST0B6DE	TDOP	Time_dilution_of_precision	UINT	INTEGER	GSKP0205TM
9	12	32	GST0B6DF	IMT_MSB	Instrument_Measurement_Time_tag_MSB_part	UINT	INTEGER	Z_IDENTITY
10	16	32	GST0B6E0	IMT_LSB	Instrument_Measurement_Time_tag_LSB_part	UINT	INTEGER	Z_IDENTITY
11	20	32	GST0B6E1	GPST_SEC	seconds	UINT	INTEGER	Z_IDS
12	24	32	GST0B6E2	GPST_SUBSEC	fractions_of_a_second	UINT	INTEGER	GSKP0048TM

Summary  
11.02.2013 17:15:32

Differences exist between documents.

**New Document:**

[GSY\\_SCI37213\\_NumericalCalibration](#)

1 pages (16 KB)

11.02.2013 17:15:31

Used to display results.

**Old Document:**

[GSY\\_SCI37213\\_NumericalCalibration](#)

1 pages (15 KB)

11.02.2013 17:15:31

[Get started: first change is on page 1.](#)

No pages were deleted

**How to read this report**

**Highlight** indicates a change.

**Deleted** indicates deleted content.

 indicates pages were changed.

 indicates pages were moved.





# Sentinel-2 SRDB Database Extract

TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2 . 77  
Page: 1 of 1

Name: GSKP0048TM Descr: PV\_GPST\_SUBSEC

Unit: us X Y

Modelname: GENERIC

Referenced by:

GST0B6E2 GPST\_SUBSEC

0

0

4294967295

999999.9997672

Name: GSKP0205TM Descr: GDOP

Unit: X Y

Modelname: GENERIC

Referenced by:

GST0B6DE TDOP

0

0

65535

655.35

Name: Z\_IDNSOM Descr: Identity with unit nsom

Unit: nsom X Y

Modelname: GENERIC

Referenced by:

GST0B6DD QUAL\_IDX

Name: Z\_IDS Descr: Identity [s]

Unit: s X Y

Modelname: GENERIC

Referenced by:

GST0B6E1 GPST\_SEC

Summary  
11.02.2013 17:15:50

Differences exist between documents.

**New Document:**

[GSY\\_SCI37213\\_TextualCalibration](#)

6 pages (23 KB)

11.02.2013 17:15:48

Used to display results.

**Old Document:**

[GSY\\_SCI37213\\_TextualCalibration](#)

6 pages (24 KB)

11.02.2013 17:15:48


[Get started: first change is on page 1.](#)


No pages were deleted

## How to read this report

**Highlight** indicates a change.

**Deleted** indicates deleted content.

 indicates pages were changed.

 indicates pages were moved.



# Sentinel-2

## SRDB Database Extract

TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 6

Name: GSKT0212TM Descr: NSM

Referenced by:  
GST0B6DC NSM

From	To	Text
1		PROPAGATED
2		FIRST_FIX
3		COLD_FIRST_FIX
4		LEAST_SQUARE
5		KALMAN_FILTER
7		INVALID

Name: GSKT0293TM Descr: SID

Referenced by:  
GST0B686 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 2 of 6

Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0B6D5 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 3 of 6

81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 4 of 6

131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 5 of 6

181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



Sentinel-2  
SRDB Database Extract  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 6 of 6

231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:  
GST0B6D8 V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

Name: GSKT0300TM Descr: R\_MODE

Referenced by:  
GST0B6D9 R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE



Summary  
11.02.2013 17:16:07

Differences exist between documents.

**New Document:**

[GSY\\_SCI37232](#)

1 pages (20 KB)

11.02.2013 17:16:06

Used to display results.

**Old Document:**

[GSY\\_SCI37232](#)

1 pages (20 KB)

11.02.2013 17:16:06


[Get started: first change is on page 1.](#)


No pages were deleted

## How to read this report

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 1

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37232	R_ScienceDataReport__ConstellationStatus	212	1	49	13	797	Y	26	VAR_W	GST0B86E	CONST_STAT		Y	37232	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST0B86E	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST0B86F	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0B870	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0B871	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG1AC1	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0B872	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST0B873	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0B874	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0B875	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG1AC2	CONS_SVID_AS_X_B	CONS_SVID_AS_X_BLOCK			
	0	3	GST0B876	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0B877	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST0B878	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
	12	1	GST0B879	X	SV_excluded_by_ground_command	UINT	STRING	GSKT0169TM
	13	3	GST0B87A	BLOCK	GPS_SV_Block_type	UINT	STRING	GSKT0170TM
8	10	8	GSTG1AC3	AN_EN_CN_DN_AC_E	AN_EN_CN_DN_AC_EC_CC_DC			
	0	1	GST0B87B	AN	almanac_data_from_NAV_message_available	UINT	STRING	GSKT0171TM
	1	1	GST0B87C	EN	Ephemeris_data_from_NAV_message_available	UINT	STRING	GSKT0171TM
	2	1	GST0B87D	CN	Clock_correction_data_from_NAV_message_available	UINT	STRING	GSKT0171TM
	3	1	GST0B87E	DN	Differential_correction_data_from_NAV_message_availabl e	UINT	STRING	GSKT0171TM
	4	1	GST0B87F	AC	almanac_data_from_CNAV_message_available	UINT	STRING	GSKT0171TM
	5	1	GST0B880	EC	Ephemeris_data_from_CNAV_message_available	UINT	STRING	GSKT0171TM
	6	1	GST0B881	CC	Clock_correction_data_from_CNAV_message_available	UINT	STRING	GSKT0171TM
	7	1	GST0B882	DC	Differential_correction_data_from_CNAV_message_availab le	UINT	STRING	GSKT0171TM
9	11	8	GSTG1AC4	GC_FP_HEALTH	GC_FP_HEALTH			
	0	1	GST0B883	GC	Group_delay_data_from_CNAV_message_available	UINT	STRING	GSKT0172TM
	1	1	GST0B884	FP	Force_P_Y_tracking_flag	UINT	STRING	GSKT0173TM
	2	6	GST0B885	HEALTH	SV_health	UINT	INTEGER	Z_IDENTITY

Summary  
11.02.2013 17:16:26

Differences exist between documents.

**New Document:**

[GSY\\_SCI37232\\_TextualCalibration](#)

7 pages (25 KB)

11.02.2013 17:16:24

Used to display results.

**Old Document:**

[GSY\\_SCI37232\\_TextualCalibration](#)

7 pages (25 KB)

11.02.2013 17:16:24

[Get started: first change is on page 1.](#)

No pages were deleted

## How to read this report

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# Sentinel-2

## SRDB Database Extract

TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 7

Name: GSKT0168TM Descr: AS

Referenced by:  
GST0B878 AS

From	To	Text
0		ANTI-SPOOF_OFF
1		ANTI-SPOOF_ON

Name: GSKT0169TM Descr: X

Referenced by:  
GST0B879 X

From	To	Text
0		SV_EXCLUDED
1		SV_INCLUDED

Name: GSKT0170TM Descr: BLOCK

Referenced by:  
GST0B87A BLOCK

From	To	Text
0		BLOCK_I
1		BLOCK_IIIIAIR
2		BLOCK_IIR-M
3		BLOCK_IIF
7		BLOCK_UNKNOWN

Name: GSKT0171TM Descr: AN

Referenced by:  
GST0B87B AN  
GST0B87C EN  
GST0B87D CN  
GST0B87E DN  
GST0B87F AC  
GST0B880 EC  
GST0B881 CC  
GST0B882 DC

From	To	Text
0		NOT_AVAILABLE
1		AVAILABLE

Name: GSKT0172TM Descr: GC

Referenced by:  
GST0B883 GC

From	To	Text
0		NOT_AVAILABLE
1		AVAILABLE

Name: GSKT0173TM Descr: FP

Referenced by:  
GST0B884 FP

From	To	Text
0		L2CM_USED
1		PY_USED



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 2 of 7

Name: GSKT0293TM Descr: SID

Referenced by:  
GST0B86E SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST

---



# Sentinel-2

## SRDB Database Extract

### TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 3 of 7

Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0B870 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 4 of 7

81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
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101	0_7
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104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 5 of 7

131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75





**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 6 of 7

181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
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191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
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218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 7 of 7

231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:  
GST0B873 V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

Name: GSKT0300TM Descr: R\_MODE

Referenced by:  
GST0B874 R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

Name: GSKT0345TM Descr: CONS

Referenced by:  
GST0B876 CONS

From	To	Text
0		GPS_CONSTELLAT

Summary  
11.02.2013 17:16:47

Differences exist between documents.

**New Document:**

[GSY\\_SCI37233](#)

6 pages (37 KB)

11.02.2013 17:16:42

Used to display results.

**Old Document:**

[GSY\\_SCI37233](#)

6 pages (37 KB)

11.02.2013 17:16:41

[Get started: first change is on page 1.](#)

No pages were deleted

## How to read this report

**Highlight** indicates a change.

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 6

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37233	R_ScienceDataReport__TrackingState_8_	212	1	49	12	796	Y	118	FIXED	GST0BA77	TRACKING_STATE	Y		37233	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST0BA77	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST0BA89	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0BA8A	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0BA8B	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG1B22	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0BA8C	SN	Serial_Number__not_used	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BA8D	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0BA8E	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0BA8F	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG1B23	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST0BA90	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BA91	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST0BA92	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST0BA93	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
8	10	8	GST0BA94	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM
9	11	8	GST0BA95	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
10	12	8	GSTG1B24	NU3_SIG1	NU3_SIG1			
	0	3	GST0BA96	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BA97	SIG1	signal_type_being_processed_on_the_first_SFC_within_the_MFC	UINT	STRING	GSKT0251TM
11	13	8	GST0BA98	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
12	14	8	GSTG1B25	NU4_SIG2	NU4_SIG2			
	0	3	GST0BA99	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BA9A	SIG2	signal_type_being_processed_on_the_second_SFC_within_the_MFC	UINT	STRING	GSKT0252TM
13	15	8	GST0BA9B	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
14	16	8	GSTG1B26	NU5_SIG3	NU5_SIG3			
	0	3	GST0BA9C	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BA9D	SIG3	signal_type_being_processed_on_the_third_SFC_within_the_MFC	UINT	STRING	GSKT0253TM
15	17	8	GST0BA9E	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
16	18	16	GST0BA9F	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37233	R_ScienceDataReport__TrackingState_8_	212	1	49	12	796	Y	118	FIXED	GST0BA77	TRACKING_STATE		Y	37233	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
17	20	16	GSTG1B27	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST0BAA0	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BAA1	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST0BAA2	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST0BAA3	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
18	22	8	GST0BAA4	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM
19	23	8	GST0BAA5	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
20	24	8	GSTG1B28	NU3_SIG1	NU3_SIG1			
	0	3	GST0BAA6	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BAA7	SIG1	signal_type_being_processed_on_the_first_SFC_within_th e_MFC	UINT	STRING	GSKT0251TM
21	25	8	GST0BAA8	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
22	26	8	GSTG1B29	NU4_SIG2	NU4_SIG2			
	0	3	GST0BAA9	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BAAA	SIG2	signal_type_being_processed_on_the_second_SFC_within _the_MFC	UINT	STRING	GSKT0252TM
23	27	8	GST0BAAB	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
24	28	8	GSTG1B2A	NU5_SIG3	NU5_SIG3			
	0	3	GST0BAAC	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BAAD	SIG3	signal_type_being_processed_on_the_third_SFC_within_th e_MFC	UINT	STRING	GSKT0253TM
25	29	8	GST0BAAE	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
26	30	16	GST0BAAF	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY
27	32	16	GSTG1B2B	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST0BAB0	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BAB1	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST0BAB2	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST0BAB3	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
28	34	8	GST0BAB4	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM
29	35	8	GST0BAB5	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
30	36	8	GSTG1B2C	NU3_SIG1	NU3_SIG1			
	0	3	GST0BAB6	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY



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TM Packets Structure

Date: 11.02.2013  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37233	R_ScienceDataReport__TrackingState_8_	212	1	49	12	796	Y	118	FIXED	GST0BA77	TRACKING_STATE		Y	37233	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	3	5	GST0BAB7	SIG1	signal_type_being_processed_on_the_first_SFC_within_the_MFC	UINT	STRING	GSKT0251TM
31	37	8	GST0BAB8	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
32	38	8	GSTG1B2D	NU4_SIG2	NU4_SIG2			
	0	3	GST0BAB9	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BABA	SIG2	signal_type_being_processed_on_the_second_SFC_within_the_MFC	UINT	STRING	GSKT0252TM
33	39	8	GST0BABB	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
34	40	8	GSTG1B2E	NU5_SIG3	NU5_SIG3			
	0	3	GST0BABC	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BABD	SIG3	signal_type_being_processed_on_the_third_SFC_within_the_MFC	UINT	STRING	GSKT0253TM
35	41	8	GST0BABE	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
36	42	16	GST0BABF	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY
37	44	16	GSTG1B2F	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST0BAC0	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BAC1	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST0BAC2	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST0BAC3	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
38	46	8	GST0BAC4	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM
39	47	8	GST0BAC5	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
40	48	8	GSTG1B30	NU3_SIG1	NU3_SIG1			
	0	3	GST0BAC6	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BAC7	SIG1	signal_type_being_processed_on_the_first_SFC_within_the_MFC	UINT	STRING	GSKT0251TM
41	49	8	GST0BAC8	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
42	50	8	GSTG1B31	NU4_SIG2	NU4_SIG2			
	0	3	GST0BAC9	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BACA	SIG2	signal_type_being_processed_on_the_second_SFC_within_the_MFC	UINT	STRING	GSKT0252TM
43	51	8	GST0BACB	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
44	52	8	GSTG1B32	NU5_SIG3	NU5_SIG3			
	0	3	GST0BACC	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37233	R_ScienceDataReport__TrackingState_8_	212	1	49	12	796	Y	118	FIXED	GST0BA77	TRACKING_STATE		Y	37233	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	3	5	GST0BACD	SIG3	signal_type_being_processed_on_the_third_SFC_within_th e_MFC	UINT	STRING	GSKT0253TM
45	53	8	GST0BACE	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
46	54	16	GST0BACF	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY
47	56	16	GSTG1B33	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST0BAD0	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BAD1	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST0BAD2	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST0BAD3	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
48	58	8	GST0BAD4	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM
49	59	8	GST0BAD5	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
50	60	8	GSTG1B34	NU3_SIG1	NU3_SIG1			
	0	3	GST0BAD6	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BAD7	SIG1	signal_type_being_processed_on_the_first_SFC_within_th e_MFC	UINT	STRING	GSKT0251TM
51	61	8	GST0BAD8	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
52	62	8	GSTG1B35	NU4_SIG2	NU4_SIG2			
	0	3	GST0BAD9	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BADA	SIG2	signal_type_being_processed_on_the_second_SFC_within _the_MFC	UINT	STRING	GSKT0252TM
53	63	8	GST0BADB	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
54	64	8	GSTG1B36	NU5_SIG3	NU5_SIG3			
	0	3	GST0BADC	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BADD	SIG3	signal_type_being_processed_on_the_third_SFC_within_th e_MFC	UINT	STRING	GSKT0253TM
55	65	8	GST0BADE	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
56	66	16	GST0BADF	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY
57	68	16	GSTG1B37	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST0BAE0	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BAE1	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST0BAE2	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST0BAE3	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
58	70	8	GST0BAE4	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37233	R_ScienceDataReport__TrackingState_8_	212	1	49	12	796	Y	118	FIXED	GST0BA77	TRACKING_STATE		Y	37233	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
59	71	8	GST0BAE5	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
60	72	8	GSTG1B38	NU3_SIG1	NU3_SIG1			
	0	3	GST0BAE6	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BAE7	SIG1	signal_type_being_processed_on_the_first_SFC_within_th e_MFC	UINT	STRING	GSKT0251TM
61	73	8	GST0BAE8	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
62	74	8	GSTG1B39	NU4_SIG2	NU4_SIG2			
	0	3	GST0BAE9	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BAEA	SIG2	signal_type_being_processed_on_the_second_SFC_within _the_MFC	UINT	STRING	GSKT0252TM
63	75	8	GST0BAEB	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
64	76	8	GSTG1B3A	NU5_SIG3	NU5_SIG3			
	0	3	GST0BAEC	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BAED	SIG3	signal_type_being_processed_on_the_third_SFC_within_th e_MFC	UINT	STRING	GSKT0253TM
65	77	8	GST0BAEE	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
66	78	16	GST0BAEF	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY
67	80	16	GSTG1B3B	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST0BAF0	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BAF1	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST0BAF2	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST0BAF3	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
68	82	8	GST0BAF4	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM
69	83	8	GST0BAF5	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
70	84	8	GSTG1B3C	NU3_SIG1	NU3_SIG1			
	0	3	GST0BAF6	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BAF7	SIG1	signal_type_being_processed_on_the_first_SFC_within_th e_MFC	UINT	STRING	GSKT0251TM
71	85	8	GST0BAF8	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
72	86	8	GSTG1B3D	NU4_SIG2	NU4_SIG2			
	0	3	GST0BAF9	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BAFA	SIG2	signal_type_being_processed_on_the_second_SFC_within _the_MFC	UINT	STRING	GSKT0252TM





## Sentinel-2 SRDB Database Extract

TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37233	R_ScienceDataReport__TrackingState_8_	212	1	49	12	796	Y	118	FIXED	GST0BA77	TRACKING_STATE		Y	37233	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
73	87	8	GST0BAFB	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
74	88	8	GSTG1B3E	NU5_SIG3	NU5_SIG3			
	0	3	GST0BAFC	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BAFD	SIG3	signal_type_being_processed_on_the_third_SFC_within_th e_MFC	UINT	STRING	GSKT0253TM
75	89	8	GST0BAFE	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
76	90	16	GST0BAFF	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY
77	92	16	GSTG1B3F	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST0BB00	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BB01	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST0BB02	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST0BB03	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
78	94	8	GST0BB04	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM
79	95	8	GST0BB05	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
80	96	8	GSTG1B40	NU3_SIG1	NU3_SIG1			
	0	3	GST0BB06	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BB07	SIG1	signal_type_being_processed_on_the_first_SFC_within_th e_MFC	UINT	STRING	GSKT0251TM
81	97	8	GST0BB08	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
82	98	8	GSTG1B41	NU4_SIG2	NU4_SIG2			
	0	3	GST0BB09	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BB0A	SIG2	signal_type_being_processed_on_the_second_SFC_within _the_MFC	UINT	STRING	GSKT0252TM
83	99	8	GST0BB0B	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
84	100	8	GSTG1B42	NU5_SIG3	NU5_SIG3			
	0	3	GST0BB0C	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BB0D	SIG3	signal_type_being_processed_on_the_third_SFC_within_th e_MFC	UINT	STRING	GSKT0253TM
85	101	8	GST0BB0E	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
86	102	16	GST0BB0F	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY

Summary  
11.02.2013 17:17:08

Differences exist between documents.

**New Document:**

[GSY\\_SCI37233\\_TextualCalibration](#)

8 pages (27 KB)

11.02.2013 17:17:05

Used to display results.

**Old Document:**

[GSY\\_SCI37233\\_TextualCalibration](#)

8 pages (27 KB)

11.02.2013 17:17:05


[Get started: first change is on page 1.](#)


No pages were deleted

## How to read this report

**Highlight** indicates a change.

**Deleted** indicates deleted content.

 indicates pages were changed.

 indicates pages were moved.



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name: GSKT0249TM Descr: ANT

**Referenced by:**

From To Text

GST0BA93 ANT  
GST0BAA3 ANT  
GST0BAB3 ANT  
GST0BAC3 ANT  
GST0BAD3 ANT  
GST0BAE3 ANT  
GST0BAF3 ANT  
GST0BB03 ANT

0 FIRST\_ANTENNA  
1 SECOND\_ANTENNA

Name: GSKT0250TM Descr: MFC\_TS

**Referenced by:**

From To Text

GST0BA94 MFC\_TS  
GST0BAA4 MFC\_TS  
GST0BAB4 MFC\_TS  
GST0BAC4 MFC\_TS  
GST0BAD4 MFC\_TS  
GST0BAE4 MFC\_TS  
GST0BAF4 MFC\_TS  
GST0BB04 MFC\_TS

0 NO\_MEASDATA\_AV  
1 CODE\_ACQUISITI  
2 CODE\_ACQUISITI  
3 CODE\_TRACKING\_  
4 CODE\_AND\_CARRI  
5 CODE\_AND\_CARRI  
6 FINAL\_TRACKING  
7 FINAL\_TRACKING  
8 FINAL\_TRACKING  
9 FINAL\_TRACKING  
10 FINAL\_TRACKING  
11 FINAL\_TRACKING



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Name: GSKT0251TM Descr: SIG1

### Referenced by:

From To Text

GST0BA97 SIG1  
GST0BAA7 SIG1  
GST0BAB7 SIG1  
GST0BAC7 SIG1  
GST0BAD7 SIG1  
GST0BAE7 SIG1  
GST0BAF7 SIG1  
GST0BB07 SIG1

0 GPS\_L1\_CA  
1 GPS\_L1\_P  
2 GPS\_L2\_CA  
3 GPS\_L2\_P  
4 GPS\_L2\_CM  
5 GPS\_L2\_CL  
6 NO\_SIGNAL

Name: GSKT0252TM Descr: SIG2

### Referenced by:

From To Text

GST0BA9A SIG2  
GST0BAAA SIG2  
GST0BABA SIG2  
GST0BACA SIG2  
GST0BADA SIG2  
GST0BAEA SIG2  
GST0BAFA SIG2  
GST0BB0A SIG2

0 GPS\_L1\_CA  
1 GPS\_L1\_P  
2 GPS\_L2\_CA  
3 GPS\_L2\_P  
4 GPS\_L2\_CM  
5 GPS\_L2\_CL  
6 NO\_SIGNAL



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Name: GSKT0253TM Descr: SIG3

### Referenced by:

GST0BA9D SIG3  
GST0BAAD SIG3  
GST0BABD SIG3  
GST0BACD SIG3  
GST0BADD SIG3  
GST0BAED SIG3  
GST0BAFD SIG3  
GST0BB0D SIG3

From	To	Text
0		GPS_L1_CA
1		GPS_L1_P
2		GPS_L2_CA
3		GPS_L2_P
4		GPS_L2_CM
5		GPS_L2_CL
6		NO_SIGNAL

Name: GSKT0293TM Descr: SID

### Referenced by:

GST0BA77 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0BA8A FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75





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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:  
GST0BA8D V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

Name: GSKT0300TM Descr: R\_MODE

Referenced by:  
GST0BA8E R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

Name: GSKT0345TM Descr: CONS

Referenced by:  
GST0BA90 CONS  
GST0BAA0 CONS  
GST0BAB0 CONS  
GST0BAC0 CONS  
GST0BAD0 CONS  
GST0BAE0 CONS  
GST0BAF0 CONS  
GST0BB00 CONS

From	To	Text
0		GPS_CONSTELLAT

Summary  
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Differences exist between documents.

**New Document:**

[GSY\\_SCI37234](#)

23 pages (104 KB)

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Used to display results.

**Old Document:**

[GSY\\_SCI37234](#)

23 pages (105 KB)

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[Get started: first change is on page 1.](#)


No pages were deleted

## How to read this report

**Highlight** indicates a change.

**Deleted** indicates deleted content.

 indicates pages were changed.

 indicates pages were moved.



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.	Gen_Stat
1	0	8	GST0BA77	SID	structure_identifier	UINT	STRING	GSKT0293TM	
2	1	24	GST0BB24	FILLER	not_used	UINT	INTEGER	Z_IDENTITY	
3	4	8	GST0BB25	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM	
4	5	8	GST0BB26	ID	internal_use	UINT	INTEGER	Z_IDENTITY	
5	6	8	GSTG1B43	SN_V_RMODE	SN_V_RMODE				
	0	4	GST0BB27	SN	Serial_Number_not_used_	UINT	INTEGER	Z_IDENTITY	
	4	1	GST0BB28	V	data_valid_flag	UINT	STRING	GSKT0299TM	
	5	3	GST0BB29	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM	
6	7	8	GST0BB2A	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY	
7	8	16	GSTG1B44	CONS_SVID_SIG	CONS_SVID_SIG				
	0	3	GST0BB2B	CONS	constellation_identifier	UINT	STRING	GSKT0345TM	
	3	8	GST0BB2C	SV_ID	Space_vehicle_identifier_2C_0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY	
	11	5	GST0BB2D	SIG	Signal_type	UINT	STRING	GSKT0230TM	
8	10	8	GSTG1B45	ANT_NDS	ANT_NDS				
	0	4	GST0BB2E	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM	
	4	4	GST0BB2F	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM	
9	11	8	GST0BB30	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY	
10	12	8	GSTG1B46	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM				
	0	2	GST0BB31	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY	
	2	2	GST0BB32	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY	
	4	1	GST0BB33	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM	
	5	1	GST0BB34	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM	
	6	2	GST0BB35	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM	
11	13	8	GSTG1B47	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM				
	0	2	GST0BB36	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY	
	2	2	GST0BB37	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY	
	4	1	GST0BB38	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM	
	5	1	GST0BB39	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM	
	6	2	GST0BB3A	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM	
12	14	8	GST0BB3B	TS	logical_tracking_state	UINT	STRING	GSKT0261TM	
13	15	8	GSTG1B48	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH				
	0	1	GST0BB3C	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM	



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	1	1	GST0BB3D	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BB3E	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BB3F	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BB40	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BB41	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BB42	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BB43	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
14	16	16	GSTG1B49	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BB44	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BB45	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BB46	SIG	Signal_type	UINT	STRING	GSKT0230TM
15	18	8	GSTG1B4A	ANT_NDS	ANT_NDS			
	0	4	GST0BB47	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BB48	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
16	19	8	GST0BB49	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
17	20	8	GSTG1B4B	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BB4A	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BB4B	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BB4C	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BB4D	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BB4E	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
18	21	8	GSTG1B4C	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BB4F	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BB50	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BB51	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BB52	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BB53	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
19	22	8	GST0BB54	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
20	23	8	GSTG1B4D	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BB55	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BB56	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BB57	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BB58	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	4	1	GST0BB59	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BB5A	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BB5B	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BB5C	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
21	24	16	GSTG1B4E	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BB5D	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BB5E	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BB5F	SIG	Signal_type	UINT	STRING	GSKT0230TM
22	26	8	GSTG1B4F	ANT_NDS	ANT_NDS			
	0	4	GST0BB60	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BB61	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
23	27	8	GST0BB62	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
24	28	8	GSTG1B50	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BB63	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BB64	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BB65	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BB66	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BB67	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
25	29	8	GSTG1B51	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BB68	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BB69	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BB6A	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BB6B	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BB6C	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
26	30	8	GST0BB6D	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
27	31	8	GSTG1B52	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BB6E	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BB6F	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BB70	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BB71	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BB72	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BB73	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BB74	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
28	7	1	GST0BB75	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	32	16	GSTG1B53	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BB76	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BB77	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
29	11	5	GST0BB78	SIG	Signal_type	UINT	STRING	GSKT0230TM
	34	8	GSTG1B54	ANT_NDS	ANT_NDS			
	0	4	GST0BB79	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BB7A	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
30	35	8	GST0BB7B	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
31	36	8	GSTG1B55	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BB7C	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BB7D	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BB7E	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BB7F	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BB80	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
	37	8	GSTG1B56	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BB81	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
32	2	2	GST0BB82	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BB83	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BB84	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BB85	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
	38	8	GST0BB86	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
	39	8	GSTG1B57	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BB87	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BB88	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
33	2	1	GST0BB89	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BB8A	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BB8B	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BB8C	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BB8D	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BB8E	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	40	16	GSTG1B58	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BB8F	CONS	constellation_identifier	UINT	STRING	GSKT0345TM



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
36	3	8	GST0BB90	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BB91	SIG	Signal_type	UINT	STRING	GSKT0230TM
	42	8	GSTG1B59	ANT_NDS	ANT_NDS			
	0	4	GST0BB92	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BB93	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
37	43	8	GST0BB94	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
38	44	8	GSTG1B5A	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BB95	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BB96	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BB97	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BB98	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BB99	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
39	45	8	GSTG1B5B	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BB9A	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BB9B	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BB9C	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BB9D	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BB9E	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
40	46	8	GST0BB9F	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
41	47	8	GSTG1B5C	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BBA0	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BBA1	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BBA2	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BBA3	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BBA4	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BBA5	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BBA6	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BBA7	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
42	48	16	GSTG1B5D	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BBA8	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BBA9	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BBAA	SIG	Signal_type	UINT	STRING	GSKT0230TM
43	50	8	GSTG1B5E	ANT_NDS	ANT_NDS			





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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	0	4	GST0BBAB	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BBAC	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
44	51	8	GST0BBAD	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
45	52	8	GSTG1B5F	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BBAE	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BBAF	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BBB0	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BBB1	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BBB2	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
46	53	8	GSTG1B60	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BBB3	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BBB4	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BBB5	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BBB6	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BBB7	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
47	54	8	GST0BBB8	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
48	55	8	GSTG1B61	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BBB9	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BBBA	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BBBB	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BBBC	FRTH	Carrier_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BBBD	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BBBE	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BBBF	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BBC0	FDTH	Code_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
49	56	16	GSTG1B62	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BBC1	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BBC2	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BBC3	SIG	Signal_type	UINT	STRING	GSKT0230TM
50	58	8	GSTG1B63	ANT_NDS	ANT_NDS			
	0	4	GST0BBC4	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BBC5	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
51	59	8	GST0BBC6	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
52	60	8	GSTG1B64	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BBC7	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BBC8	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BBC9	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BBCA	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BBCB	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
53	61	8	GSTG1B65	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BBCC	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BBCD	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BBCE	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BBCF	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BBD0	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
54	62	8	GST0BBD1	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
55	63	8	GSTG1B66	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BBD2	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BBD3	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BBD4	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BBD5	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BBD6	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BBD7	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BBD8	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BBD9	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
56	64	16	GSTG1B67	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BBDA	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BBDB	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BBDC	SIG	Signal_type	UINT	STRING	GSKT0230TM
57	66	8	GSTG1B68	ANT_NDS	ANT_NDS			
	0	4	GST0BBDD	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BBDE	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
58	67	8	GST0BBDF	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
59	68	8	GSTG1B69	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BBE0	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BBE1	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY



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TM Packets Structure

Date: 11.02.2013  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
60	4	1	GST0BBE2	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BBE3	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BBE4	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
	69	8	GSTG1B6A	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BBE5	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BBE6	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BBE7	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BBE8	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
61	6	2	GST0BBE9	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
	70	8	GST0BBEA	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
62	71	8	GSTG1B6B	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BBEB	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BBEC	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BBED	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BBEE	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BBEF	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BBF0	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BBF1	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
63	7	1	GST0BBF2	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	72	16	GSTG1B6C	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BBF3	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BBF4	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BBF5	SIG	Signal_type	UINT	STRING	GSKT0230TM
64	74	8	GSTG1B6D	ANT_NDS	ANT_NDS			
	0	4	GST0BBF6	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BBF7	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
	75	8	GST0BBF8	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
66	76	8	GSTG1B6E	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BBF9	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BBFA	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BBFB	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BBFC	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BBFD	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM



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TM Packets Structure

Date: 11.02.2013  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
67	77	8	GSTG1B6F	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BBFE	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BBFF	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BC00	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BC01	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BC02	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
68	78	8	GST0BC03	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
69	79	8	GSTG1B70	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BC04	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BC05	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BC06	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BC07	FRTH	Carrier_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BC08	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BC09	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BC0A	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BC0B	FDTH	Code_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
70	80	16	GSTG1B71	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BC0C	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BC0D	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BC0E	SIG	Signal_type	UINT	STRING	GSKT0230TM
71	82	8	GSTG1B72	ANT_NDS	ANT_NDS			
	0	4	GST0BC0F	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BC10	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
72	83	8	GST0BC11	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
73	84	8	GSTG1B73	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BC12	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BC13	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BC14	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BC15	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BC16	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
74	85	8	GSTG1B74	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BC17	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BC18	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY



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TM Packets Structure

Date: 11.02.2013  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	4	1	GST0BC19	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BC1A	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BC1B	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
75	86	8	GST0BC1C	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
76	87	8	GSTG1B75	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BC1D	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BC1E	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BC1F	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BC20	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BC21	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BC22	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BC23	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BC24	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
77	88	16	GSTG1B76	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BC25	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BC26	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BC27	SIG	Signal_type	UINT	STRING	GSKT0230TM
78	90	8	GSTG1B77	ANT_NDS	ANT_NDS			
	0	4	GST0BC28	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BC29	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
79	91	8	GST0BC2A	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
80	92	8	GSTG1B78	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BC2B	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BC2C	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BC2D	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BC2E	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BC2F	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
81	93	8	GSTG1B79	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BC30	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BC31	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BC32	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BC33	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BC34	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
82	94	8	GST0BC35	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
83	95	8	GSTG1B7A	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BC36	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BC37	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BC38	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BC39	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BC3A	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BC3B	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BC3C	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BC3D	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
84	96	16	GSTG1B7B	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BC3E	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BC3F	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BC40	SIG	Signal_type	UINT	STRING	GSKT0230TM
85	98	8	GSTG1B7C	ANT_NDS	ANT_NDS			
	0	4	GST0BC41	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BC42	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
86	99	8	GST0BC43	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
87	100	8	GSTG1B7D	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BC44	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BC45	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BC46	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BC47	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BC48	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
88	101	8	GSTG1B7E	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BC49	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BC4A	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BC4B	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BC4C	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BC4D	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
89	102	8	GST0BC4E	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
90	103	8	GSTG1B7F	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BC4F	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.		
91	104	1	GST0BC50	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM		
		2	GST0BC51	FRDS	Carrier_loop_discrimminator_final_flag	UINT	STRING	GSKT0264TM		
		3	GST0BC52	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM		
		4	GST0BC53	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM		
		5	GST0BC54	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM		
		6	GST0BC55	FDSP	Code_loop_discrimminator_final_flag	UINT	STRING	GSKT0267TM		
		7	GST0BC56	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM		
	106	16	GSTG1B80	CONS_SVID_SIG	CONS_SVID_SIG					
		0	3	GST0BC57	CONS	constellation_identifier	UINT	STRING	GSKT0345TM	
		3	8	GST0BC58	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY	
		11	5	GST0BC59	SIG	Signal_type	UINT	STRING	GSKT0230TM	
92	106	8	GSTG1B81	ANT_NDS	ANT_NDS					
		0	4	GST0BC5A	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM	
		4	4	GST0BC5B	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM	
93	107	8	GST0BC5C	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY		
94	108	8	GSTG1B82	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM					
		0	2	GST0BC5D	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY	
		2	2	GST0BC5E	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY	
		4	1	GST0BC5F	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM	
		5	1	GST0BC60	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM	
		6	2	GST0BC61	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM	
	109	8	GSTG1B83	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM					
		0	2	GST0BC62	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY	
		2	2	GST0BC63	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY	
		4	1	GST0BC64	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM	
		5	1	GST0BC65	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM	
95	109	6	GST0BC66	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM		
		8	GST0BC67	TS	logical_tracking_state	UINT	STRING	GSKT0261TM		
		110	111	8	GSTG1B84	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
				0	1	GST0BC68	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING
1	1			GST0BC69	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM	
2	1			GST0BC6A	FRDS	Carrier_loop_discrimminator_final_flag	UINT	STRING	GSKT0264TM	
3	1			GST0BC6B	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM	





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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	4	1	GST0BC6C	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BC6D	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BC6E	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BC6F	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
98	112	16	GSTG1B85	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BC70	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BC71	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BC72	SIG	Signal_type	UINT	STRING	GSKT0230TM
99	114	8	GSTG1B86	ANT_NDS	ANT_NDS			
	0	4	GST0BC73	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BC74	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
100	115	8	GST0BC75	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
101	116	8	GSTG1B87	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BC76	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BC77	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BC78	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BC79	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BC7A	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
102	117	8	GSTG1B88	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BC7B	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BC7C	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BC7D	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BC7E	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BC7F	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
103	118	8	GST0BC80	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
104	119	8	GSTG1B89	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BC81	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BC82	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BC83	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BC84	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BC85	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BC86	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BC87	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM





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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
105	7	1	GST0BC88	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	120	16	GSTG1B8A	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BC89	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BC8A	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
106	11	5	GST0BC8B	SIG	Signal_type	UINT	STRING	GSKT0230TM
	122	8	GSTG1B8B	ANT_NDS	ANT_NDS			
	0	4	GST0BC8C	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BC8D	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
107	123	8	GST0BC8E	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
108	124	8	GSTG1B8C	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BC8F	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BC90	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BC91	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BC92	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BC93	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
	125	8	GSTG1B8D	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
109	0	2	GST0BC94	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BC95	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BC96	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BC97	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BC98	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
	126	8	GST0BC99	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
	127	8	GSTG1B8E	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
110	0	1	GST0BC9A	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BC9B	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BC9C	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BC9D	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BC9E	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BC9F	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BCA0	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BCA1	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	128	16	GSTG1B8F	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BCA2	CONS	constellation_identifier	UINT	STRING	GSKT0345TM



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
113	130	3	GST0BCA3	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
		11	GST0BCA4	SIG	Signal_type	UINT	STRING	GSKT0230TM
		8	GSTG1B90	ANT_NDS	ANT_NDS			
		0	GST0BCA5	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
		4	GST0BCA6	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
114	131	8	GST0BCA7	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
115	132	8	GSTG1B91	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
116	133	0	GST0BCA8	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
		2	GST0BCA9	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
		4	GST0BCAA	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
		5	GST0BCAB	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
		6	GST0BCAC	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
		8	GSTG1B92	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
		0	GST0BCAD	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
		2	GST0BCAE	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
		4	GST0BCAF	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
		5	GST0BCB0	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
117	134	6	GST0BCB1	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
		8	GST0BCB2	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
		8	GSTG1B93	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
118	135	0	GST0BCB3	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
		1	GST0BCB4	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
		2	GST0BCB5	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
		3	GST0BCB6	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
		4	GST0BCB7	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
		5	GST0BCB8	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
		6	GST0BCB9	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
		7	GST0BCBA	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
		16	GSTG1B94	CONS_SVID_SIG	CONS_SVID_SIG			
		0	GST0BCBB	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
119	136	3	GST0BCBC	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
		11	GST0BCBD	SIG	Signal_type	UINT	STRING	GSKT0230TM
		8	GSTG1B95	ANT_NDS	ANT_NDS			



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	0	4	GST0BCBE	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BCBF	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
121	139	8	GST0BCC0	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
122	140	8	GSTG1B96	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BCC1	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BCC2	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BCC3	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BCC4	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BCC5	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
123	141	8	GSTG1B97	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BCC6	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BCC7	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BCC8	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BCC9	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BCCA	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
124	142	8	GST0BCCB	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
125	143	8	GSTG1B98	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BCCC	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BCCD	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BCCE	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BCCF	FRTH	Carrier_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BCD0	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BCD1	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BCD2	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BCD3	FDTH	Code_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
126	144	16	GSTG1B99	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BCD4	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BCD5	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BCD6	SIG	Signal_type	UINT	STRING	GSKT0230TM
127	146	8	GSTG1B9A	ANT_NDS	ANT_NDS			
	0	4	GST0BCD7	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BCD8	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
128	147	8	GST0BCD9	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
129	148	8	GSTG1B9B	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BCDA	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BCDB	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BCDC	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BCDD	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BCDE	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
130	149	8	GSTG1B9C	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BCDF	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BCE0	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BCE1	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BCE2	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BCE3	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
131	150	8	GST0BCE4	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
132	151	8	GSTG1B9D	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BCE5	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BCE6	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BCE7	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BCE8	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BCE9	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BCEA	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BCEB	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BCEC	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
133	152	16	GSTG1B9E	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BCED	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BCEE	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BCEF	SIG	Signal_type	UINT	STRING	GSKT0230TM
134	154	8	GSTG1B9F	ANT_NDS	ANT_NDS			
	0	4	GST0BCF0	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BCF1	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
135	155	8	GST0BCF2	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
136	156	8	GSTG1BA0	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BCF3	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BCF4	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
137	157	4	GST0BCF5	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
		5	GST0BCF6	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
		6	GST0BCF7	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
		8	GSTG1BA1	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
		0	GST0BCF8	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
		2	GST0BCF9	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
		4	GST0BCFA	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
		5	GST0BCFB	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
138	158	6	GST0BCFC	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
		8	GST0BCFD	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
139	159	8	GSTG1BA2	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
140	160	0	GST0BCFE	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
		1	GST0BCFF	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
		2	GST0BD00	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
		3	GST0BD01	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
		4	GST0BD02	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
		5	GST0BD03	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
		6	GST0BD04	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
		7	GST0BD05	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
		16	GSTG1BA3	CONS_SVID_SIG	CONS_SVID_SIG			
		0	GST0BD06	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
		3	GST0BD07	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
141	162	11	GST0BD08	SIG	Signal_type	UINT	STRING	GSKT0230TM
		8	GSTG1BA4	ANT_NDS	ANT_NDS			
		0	GST0BD09	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
142	163	4	GST0BD0A	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
		8	GST0BD0B	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
143	164	8	GSTG1BA5	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
		0	GST0BD0C	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
		2	GST0BD0D	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
		4	GST0BD0E	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
		5	GST0BD0F	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
		6	GST0BD10	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
144	165	8	GSTG1BA6	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BD11	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BD12	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BD13	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BD14	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BD15	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
145	166	8	GST0BD16	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
146	167	8	GSTG1BA7	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BD17	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BD18	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BD19	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BD1A	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BD1B	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BD1C	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BD1D	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BD1E	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
147	168	16	GSTG1BA8	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BD1F	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BD20	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BD21	SIG	Signal_type	UINT	STRING	GSKT0230TM
148	170	8	GSTG1BA9	ANT_NDS	ANT_NDS			
	0	4	GST0BD22	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BD23	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
149	171	8	GST0BD24	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
150	172	8	GSTG1BAA	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BD25	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BD26	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BD27	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BD28	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BD29	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
151	173	8	GSTG1BAB	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BD2A	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BD2B	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	4	1	GST0BD2C	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BD2D	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BD2E	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
152	174	8	GST0BD2F	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
153	175	8	GSTG1BAC	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BD30	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BD31	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BD32	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BD33	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BD34	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BD35	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BD36	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BD37	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
154	176	16	GSTG1BAD	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BD38	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BD39	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BD3A	SIG	Signal_type	UINT	STRING	GSKT0230TM
155	178	8	GSTG1BAE	ANT_NDS	ANT_NDS			
	0	4	GST0BD3B	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BD3C	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
156	179	8	GST0BD3D	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
157	180	8	GSTG1BAF	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BD3E	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BD3F	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BD40	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BD41	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BD42	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
158	181	8	GSTG1BB0	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BD43	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BD44	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BD45	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BD46	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BD47	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM





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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
159	182	8	GST0BD48	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
160	183	8	GSTG1BB1	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BD49	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BD4A	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BD4B	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BD4C	FRTH	Carrier_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BD4D	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BD4E	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BD4F	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BD50	FDTH	Code_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
161	184	16	GSTG1BB2	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BD51	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BD52	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BD53	SIG	Signal_type	UINT	STRING	GSKT0230TM
162	186	8	GSTG1BB3	ANT_NDS	ANT_NDS			
	0	4	GST0BD54	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BD55	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
163	187	8	GST0BD56	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
164	188	8	GSTG1BB4	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BD57	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BD58	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BD59	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BD5A	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BD5B	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
165	189	8	GSTG1BB5	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BD5C	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BD5D	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BD5E	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BD5F	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BD60	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
166	190	8	GST0BD61	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
167	191	8	GSTG1BB6	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BD62	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM





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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	1	1	GST0BD63	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BD64	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BD65	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BD66	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BD67	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BD68	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BD69	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
168	192	16	GSTG1BB7	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BD6A	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BD6B	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BD6C	SIG	Signal_type	UINT	STRING	GSKT0230TM
169	194	8	GSTG1BB8	ANT_NDS	ANT_NDS			
	0	4	GST0BD6D	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BD6E	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
170	195	8	GST0BD6F	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
171	196	8	GSTG1BB9	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BD70	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BD71	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BD72	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BD73	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BD74	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
172	197	8	GSTG1BBA	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BD75	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BD76	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BD77	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BD78	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BD79	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
173	198	8	GST0BD7A	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
174	199	8	GSTG1BBB	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BD7B	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BD7C	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BD7D	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BD7E	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	4	1	GST0BD7F	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BD80	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BD81	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BD82	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM

Summary  
11.02.2013 17:19:10

Differences exist between documents.

**New Document:**

[GSY\\_SCI37234\\_TextualCalibration](#)

25 pages (57 KB)

11.02.2013 17:19:05

Used to display results.

**Old Document:**

[GSY\\_SCI37234\\_TextualCalibration](#)

25 pages (57 KB)

11.02.2013 17:19:05


[Get started: first change is on page 1.](#)


No pages were deleted

## How to read this report

**Highlight** indicates a change.

**Deleted** indicates deleted content.

 indicates pages were changed.

 indicates pages were moved.



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 1 of 25

Name: GSKT0230TM Descr: SIG

**Referenced by:**

From To Text

GST0BB2D SIG  
GST0BB46 SIG  
GST0BB5F SIG  
GST0BB78 SIG  
GST0BB91 SIG  
GST0BBAA SIG  
GST0BBC3 SIG  
GST0BBDC SIG  
GST0BBF5 SIG  
GST0BC0E SIG  
GST0BC27 SIG  
GST0BC40 SIG  
GST0BC59 SIG  
GST0BC72 SIG  
GST0BC8B SIG  
GST0BCA4 SIG  
GST0BCBD SIG  
GST0BCD6 SIG  
GST0BCEF SIG  
GST0BD08 SIG  
GST0BD21 SIG  
GST0BD3A SIG  
GST0BD53 SIG  
GST0BD6C SIG

0 GPS\_L1\_CA  
1 GPS\_L1\_P  
2 GPS\_L2\_CA  
3 GPS\_L2\_P  
4 GPS\_L2\_CM  
5 GPS\_L2\_CL  
6 NO\_SIGNAL



**Sentinel-2**  
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Page: 2 of 25

Name: GSKT0231TM Descr: ANT

**Referenced by:**

From To Text

GST0BB2E ANT  
GST0BB47 ANT  
GST0BB60 ANT  
GST0BB79 ANT  
GST0BB92 ANT  
GST0BBAB ANT  
GST0BBC4 ANT  
GST0BBDD ANT  
GST0BBF6 ANT  
GST0BC0F ANT  
GST0BC28 ANT  
GST0BC41 ANT  
GST0BC5A ANT  
GST0BC73 ANT  
GST0BC8C ANT  
GST0BCA5 ANT  
GST0BCBE ANT  
GST0BCD7 ANT  
GST0BCF0 ANT  
GST0BD09 ANT  
GST0BD22 ANT  
GST0BD3B ANT  
GST0BD54 ANT  
GST0BD6D ANT

0 FIRST\_ANTENNA  
1 SECOND\_ANTENNA



**Sentinel-2**  
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Name: GSKT0254TM Descr: NDS

**Referenced by:**

From To Text

GST0BB2F NDS  
GST0BB48 NDS  
GST0BB61 NDS  
GST0BB7A NDS  
GST0BB93 NDS  
GST0BBAC NDS  
GST0BBC5 NDS  
GST0BBDE NDS  
GST0BBF7 NDS  
GST0BC10 NDS  
GST0BC29 NDS  
GST0BC42 NDS  
GST0BC5B NDS  
GST0BC74 NDS  
GST0BC8D NDS  
GST0BCA6 NDS  
GST0BCBF NDS  
GST0BCD8 NDS  
GST0BCF1 NDS  
GST0BD0A NDS  
GST0BD23 NDS  
GST0BD3C NDS  
GST0BD55 NDS  
GST0BD6E NDS

0 NOT\_SYNC  
1 SYNC\_NAVDATA\_N  
2 INVALID  
3 SYNC\_NAVDATA\_I



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Name: GSKT0255TM Descr: CRD

**Referenced by:**

From To Text

GST0BB33 CRD  
GST0BB4C CRD  
GST0BB65 CRD  
GST0BB7E CRD  
GST0BB97 CRD  
GST0BBB0 CRD  
GST0BBC9 CRD  
GST0BBE2 CRD  
GST0BBFB CRD  
GST0BC14 CRD  
GST0BC2D CRD  
GST0BC46 CRD  
GST0BC5F CRD  
GST0BC78 CRD  
GST0BC91 CRD  
GST0BCAA CRD  
GST0BCC3 CRD  
GST0BCDC CRD  
GST0BCF5 CRD  
GST0BD0E CRD  
GST0BD27 CRD  
GST0BD40 CRD  
GST0BD59 CRD  
GST0BD72 CRD

0 NO\_DETERIORATI  
1 DETERIORATION



**Sentinel-2**  
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Date: 11.02.2013  
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Name: GSKT0256TM Descr: CRL

**Referenced by:**

From To Text

GST0BB34 CRL  
GST0BB4D CRL  
GST0BB66 CRL  
GST0BB7F CRL  
GST0BB98 CRL  
GST0BBB1 CRL  
GST0BBCA CRL  
GST0BBE3 CRL  
GST0BBFC CRL  
GST0BC15 CRL  
GST0BC2E CRL  
GST0BC47 CRL  
GST0BC60 CRL  
GST0BC79 CRL  
GST0BC92 CRL  
GST0BCAB CRL  
GST0BCC4 CRL  
GST0BCDD CRL  
GST0BCF6 CRL  
GST0BD0F CRL  
GST0BD28 CRL  
GST0BD41 CRL  
GST0BD5A CRL  
GST0BD73 CRL

0 NOT\_LOCKED  
1 LOCKED





**Sentinel-2**  
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Name: GSKT0257TM Descr: CRM

**Referenced by:**

From To Text

GST0BB35 CRM  
GST0BB4E CRM  
GST0BB67 CRM  
GST0BB80 CRM  
GST0BB99 CRM  
GST0BBB2 CRM  
GST0BBCB CRM  
GST0BBE4 CRM  
GST0BBFD CRM  
GST0BC16 CRM  
GST0BC2F CRM  
GST0BC48 CRM  
GST0BC61 CRM  
GST0BC7A CRM  
GST0BC93 CRM  
GST0BCAC CRM  
GST0BCC5 CRM  
GST0BCDE CRM  
GST0BCF7 CRM  
GST0BD10 CRM  
GST0BD29 CRM  
GST0BD42 CRM  
GST0BD5B CRM  
GST0BD74 CRM

0 NO\_ACTIVITIES  
1 ACQUISITION  
2 TRACKING  
3 ACQUISITION\_ER

---



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Name: GSKT0258TM Descr: CDD

**Referenced by:**

From To Text

GST0BB38 CDD  
GST0BB51 CDD  
GST0BB6A CDD  
GST0BB83 CDD  
GST0BB9C CDD  
GST0BBB5 CDD  
GST0BBCE CDD  
GST0BBE7 CDD  
GST0BC00 CDD  
GST0BC19 CDD  
GST0BC32 CDD  
GST0BC4B CDD  
GST0BC64 CDD  
GST0BC7D CDD  
GST0BC96 CDD  
GST0BCAF CDD  
GST0BCC8 CDD  
GST0BCE1 CDD  
GST0BCFA CDD  
GST0BD13 CDD  
GST0BD2C CDD  
GST0BD45 CDD  
GST0BD5E CDD  
GST0BD77 CDD

0 NO\_DETERIORATI  
1 DETERIORATION



**Sentinel-2**  
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Name: GSKT0259TM Descr: CDL

**Referenced by:**

From To Text

GST0BB39 CDL  
GST0BB52 CDL  
GST0BB6B CDL  
GST0BB84 CDL  
GST0BB9D CDL  
GST0BBB6 CDL  
GST0BBCF CDL  
GST0BBE8 CDL  
GST0BC01 CDL  
GST0BC1A CDL  
GST0BC33 CDL  
GST0BC4C CDL  
GST0BC65 CDL  
GST0BC7E CDL  
GST0BC97 CDL  
GST0BCB0 CDL  
GST0BCC9 CDL  
GST0BCE2 CDL  
GST0BCFB CDL  
GST0BD14 CDL  
GST0BD2D CDL  
GST0BD46 CDL  
GST0BD5F CDL  
GST0BD78 CDL

0 NOT\_LOCKED  
1 LOCKED



**Sentinel-2**  
**SRDB Database Extract**  
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Name: GSKT0260TM Descr: CDM

**Referenced by:**

From To Text

GST0BB3A CDM  
GST0BB53 CDM  
GST0BB6C CDM  
GST0BB85 CDM  
GST0BB9E CDM  
GST0BBB7 CDM  
GST0BBD0 CDM  
GST0BBE9 CDM  
GST0BC02 CDM  
GST0BC1B CDM  
GST0BC34 CDM  
GST0BC4D CDM  
GST0BC66 CDM  
GST0BC7F CDM  
GST0BC98 CDM  
GST0BCB1 CDM  
GST0BCCA CDM  
GST0BCE3 CDM  
GST0BCFC CDM  
GST0BD15 CDM  
GST0BD2E CDM  
GST0BD47 CDM  
GST0BD60 CDM  
GST0BD79 CDM

0 NO\_ACTIVITIES  
1 ACQUISITION  
2 TRACKING  
3 ACQUISITION\_ER



**Sentinel-2**  
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Name: GSKT0261TM Descr: TS

**Referenced by:**

From	To	Text
		GST0BB3B TS
		GST0BB54 TS
		GST0BB6D TS
		GST0BB86 TS
		GST0BB9F TS
		GST0BBB8 TS
		GST0BBD1 TS
		GST0BBEA TS
		GST0BC03 TS
		GST0BC1C TS
		GST0BC35 TS
		GST0BC4E TS
		GST0BC67 TS
		GST0BC80 TS
		GST0BC99 TS
		GST0BCB2 TS
		GST0BCCB TS
		GST0BCE4 TS
		GST0BCFD TS
		GST0BD16 TS
		GST0BD2F TS
		GST0BD48 TS
		GST0BD61 TS
		GST0BD7A TS

0	CA_INIT
1	CA_WAIT_PPS
2	CA_DISPATCH
3	CA_COLD_INIT
4	CA_COLD_WAIT_I
5	COLD_WAIT_ME_1
6	CA_COLD_MFC_SY
7	COLD_WAIT_ME_2
8	CA_COLD_START_
9	CA_COLD_1ST_DW
10	CA_FST_WARM_IN
11	CA_WARM_WAIT_I
12	CA_WARM_WAIT_M
13	CA_WARM_MFC_SY
14	CA_WARM_START_
15	CA_WARM_1ST_DW
16	2D_RUN_WAIT_ME
17	2D_RUN_WAIT_IE
18	CA_2ND_RUN_STA
19	CA_COLD_ACQ_FB
20	CA_FST_WARM_AC
21	CA_WARM_ACQ_FB
22	CA_DEFAULT_ACQ
23	CA_CODE_TRACKI



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24	CA_WARM_INIT
25	CA_DEFAULT_INI
26	CA_DEF_WAIT_IE
27	CA_DEF_WAIT_ME
28	DEF_WAIT_IE_IM
29	CA_DEF_START_S
30	DEF_1ST_DWELL
31	DEF_1_DWELL_WA
32	CA_CHANGE_DELA
33	CA_WAIT_CODE_L
34	CA_CODE_LOCK_C
35	CA_CODE_BW_RED
36	CA_PREP_FFT_SA
37	CA_COLL_FFT_SA
38	CA_WAIT_CARR_L
39	CA_CARR_LOCK_C
40	CA_CARR_BW_RED
41	COR_SPAC_6CC_4
42	COR_SPAC_4CC_2
43	CA_PREP_1ST_TI
44	CA_INIT_1ST_TI
45	CA_EXEC_1ST_TI
46	CA_TRACKING_ST
47	CA_EXEC_1ST_PA
48	CA_PREP_2ND_TI
49	CA_INIT_2ND_TI
50	CA_EXEC_2ND_TI
51	CA_EXEC_2ND_PA
52	CA_PREP_3RD_TI
53	CA_INIT_3RD_TI
54	CA_EXEC_3RD_TI
55	CA_EXEC_3RD_PA
56	CA_STEADY
57	P1_INIT
58	P1_WAIT_IE
59	P1_PREP_TINT_C
60	P1_INIT_TINT_C
61	P1_EXEC_TINT_C
62	P1_WAIT_CODE_L
63	P1_CODE_LOCK_C
64	P1_CODE_BW_RED
65	P1_TRACKING_ST
66	P1_EXEC_1ST_PA
67	P1_PREP_2ND_TI
68	P1_INIT_2ND_TI
69	P1_EXEC_2ND_TI
70	P1_EXEC_2ND_PA
71	P1_PREP_3RD_TI
72	P1_INIT_3RD_TI
73	P1_EXEC_3RD_TI



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74	P1_EXEC_3RD_PA
75	P1_STEADY
76	P2_INIT
77	P2_WAIT_IE
78	P2_PREP_TINT_C
79	P2_INIT_TINT_C
80	P2_EXEC_TINT_C
81	P2_WAIT_RETRY_
82	P2_INIT_CCC
83	P2_WRITE_P_COD
84	P2_RECOVER_P1_
85	P2_RECOVER_P2_
86	P2__START_CODE
87	P2_WRITE_CYCLE
88	P2_WAIT_ME
89	P2_START_SHIFT
90	P2_1ST_DWELL
91	P2_1ST_DWELL_W
92	P2_WAIT_CODE_L
93	P2_CODE_LOCK_C
94	P2_CODE_BW_RED
95	P2_PREP_FFT_SA
96	P2_COLL_FFT_SA
97	P2_WAIT_CARR_L
98	P2_CARR_LOCK_C
99	P2_CARR_BW_RED
100	P2_TRACKING_ST
101	P2_EXEC_1ST_PA
102	P2_PREP_2ND_TI
103	P2_INIT_2ND_TI
104	P2_EXEC_2ND_TI
105	P2_EXEC_2ND_PA
106	P2_PREP_3RD_TI
107	P2_INIT_3RD_TI
108	P2_EXEC_3RD_TI
109	P2_EXEC_3RD_PA
110	P2_STEADY
111	SLAVE_INIT
112	SL_WAIT_ME
113	SL_START_SHIFT
114	SL_WAIT_IE_IMT
115	SL_WAIT_IE
116	SL_PREP_1ST_TI
117	SL_INIT_1ST_TI
118	SL_EXEC_1ST_TI
119	SL_TIMESLOT_WA
120	SL_START_CODEG
121	SL_ACQ_FB
122	SL_CODE_TRACKI
123	SL_1ST_DWELL



**Sentinel-2**  
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124	SL_1ST_DWELL_W
125	SL_CHANGE_DELA
126	SL_WAIT_CODE_L
127	SL_CODE_LOCK_C
128	SL_CODE_BW_RED
129	SL_PREP_FFT_SA
130	SL_COLL_FFT_SA
131	SL_WAIT_CARR_L
132	SL_CARR_LOCK_C
133	SL_CARR_BW_RED
134	S_CO_SP_6CC_4C
135	S_CO_SP_4CC_2C
136	SL_TRACKING_ST
137	SL_EXEC_1ST_PA
138	SL_PREP_2ND_TI
139	SL_INIT_2ND_TI
140	SL_EXEC_2ND_TI
141	SL_EXEC_2ND_PA
142	SL_PREP_3RD_TI
143	SL_INIT_3RD_TI
144	SL_EXEC_3RD_TI
145	SL_EXEC_3RD_PA
146	SL_STEADY
147	COD_ACQ_ERROR
148	COD_ACQ_ERR_RE
149	CAR_ACQ_ERROR
150	CAR_ACQ_ERR_RE
151	STOPPED
152	STOPPED_REPORT

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**Sentinel-2**  
**SRDB Database Extract**  
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Name: GSKT0262TM Descr: FRIT

**Referenced by:**

From To Text

GST0BB3C FRIT  
GST0BB55 FRIT  
GST0BB6E FRIT  
GST0BB87 FRIT  
GST0BBA0 FRIT  
GST0BBB9 FRIT  
GST0BBD2 FRIT  
GST0BBEB FRIT  
GST0BC04 FRIT  
GST0BC1D FRIT  
GST0BC36 FRIT  
GST0BC4F FRIT  
GST0BC68 FRIT  
GST0BC81 FRIT  
GST0BC9A FRIT  
GST0BCB3 FRIT  
GST0BCCC FRIT  
GST0BCE5 FRIT  
GST0BCFE FRIT  
GST0BD17 FRIT  
GST0BD30 FRIT  
GST0BD49 FRIT  
GST0BD62 FRIT  
GST0BD7B FRIT

0 NOT\_FINAL\_INTE  
1 INTEGRATION\_TI



**Sentinel-2**  
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Name: GSKT0263TM Descr: FRBW

**Referenced by:**

From To Text

GST0BB3D FRBW  
GST0BB41 FDBW  
GST0BB56 FRBW  
GST0BB5A FDBW  
GST0BB6F FRBW  
GST0BB73 FDBW  
GST0BB88 FRBW  
GST0BB8C FDBW  
GST0BBA1 FRBW  
GST0BBA5 FDBW  
GST0BBBA FRBW  
GST0BBBE FDBW  
GST0BBD3 FRBW  
GST0BBD7 FDBW  
GST0BBEC FRBW  
GST0BBF0 FDBW  
GST0BC05 FRBW  
GST0BC09 FDBW  
GST0BC1E FRBW  
GST0BC22 FDBW  
GST0BC37 FRBW  
GST0BC3B FDBW  
GST0BC50 FRBW  
GST0BC54 FDBW  
GST0BC69 FRBW  
GST0BC6D FDBW  
GST0BC82 FRBW  
GST0BC86 FDBW  
GST0BC9B FRBW  
GST0BC9F FDBW  
GST0BCB4 FRBW  
GST0BCB8 FDBW  
GST0BCCD FRBW  
GST0BCD1 FDBW  
GST0BCE6 FRBW  
GST0BCEA FDBW  
GST0BCFF FRBW  
GST0BD03 FDBW  
GST0BD18 FRBW  
GST0BD1C FDBW  
GST0BD31 FRBW  
GST0BD35 FDBW  
GST0BD4A FRBW  
GST0BD4E FDBW  
GST0BD63 FRBW  
GST0BD67 FDBW  
GST0BD7C FRBW  
GST0BD80 FDBW



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0 NO\_FINAL\_BANDW  
1 BANDWIDTH\_APPLI

Name: GSKT0264TM Descr: FRDS

**Referenced by:**

From To Text

GST0BB3E FRDS  
GST0BB57 FRDS  
GST0BB70 FRDS  
GST0BB89 FRDS  
GST0BBA2 FRDS  
GST0BBBB FRDS  
GST0BBD4 FRDS  
GST0BBED FRDS  
GST0BC06 FRDS  
GST0BC1F FRDS  
GST0BC38 FRDS  
GST0BC51 FRDS  
GST0BC6A FRDS  
GST0BC83 FRDS  
GST0BC9C FRDS  
GST0BCB5 FRDS  
GST0BCCE FRDS  
GST0BCE7 FRDS  
GST0BD00 FRDS  
GST0BD19 FRDS  
GST0BD32 FRDS  
GST0BD4B FRDS  
GST0BD64 FRDS  
GST0BD7D FRDS

0 NO\_FINAL\_DISCR  
1 DISCRIMINATOR\_



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
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Name: GSKT0265TM Descr: FRTH

**Referenced by:**

From To Text

GST0BB3F FRTH  
GST0BB43 FDTH  
GST0BB58 FRTH  
GST0BB5C FDTH  
GST0BB71 FRTH  
GST0BB75 FDTH  
GST0BB8A FRTH  
GST0BB8E FDTH  
GST0BBA3 FRTH  
GST0BBA7 FDTH  
GST0BBBC FRTH  
GST0BBC0 FDTH  
GST0BBD5 FRTH  
GST0BBD9 FDTH  
GST0BBEE FRTH  
GST0BBF2 FDTH  
GST0BC07 FRTH  
GST0BC0B FDTH  
GST0BC20 FRTH  
GST0BC24 FDTH  
GST0BC39 FRTH  
GST0BC3D FDTH  
GST0BC52 FRTH  
GST0BC56 FDTH  
GST0BC6B FRTH  
GST0BC6F FDTH  
GST0BC84 FRTH  
GST0BC88 FDTH  
GST0BC9D FRTH  
GST0BCA1 FDTH  
GST0BCB6 FRTH  
GST0BCBA FDTH  
GST0BCCF FRTH  
GST0BCD3 FDTH  
GST0BCE8 FRTH  
GST0BCEC FDTH  
GST0BD01 FRTH  
GST0BD05 FDTH  
GST0BD1A FRTH  
GST0BD1E FDTH  
GST0BD33 FRTH  
GST0BD37 FDTH  
GST0BD4C FRTH  
GST0BD50 FDTH  
GST0BD65 FRTH  
GST0BD69 FDTH  
GST0BD7E FRTH  
GST0BD82 FDTH



**Sentinel-2**  
**SRDB Database Extract**  
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0 NO\_FINAL\_THRES  
1 THRESHOLD\_APPL

Name: GSKT0266TM Descr: FDIT

**Referenced by:**

From	To	Text
		GST0BB40 FDIT
		GST0BB59 FDIT
		GST0BB72 FDIT
		GST0BB8B FDIT
		GST0BBA4 FDIT
		GST0BBBD FDIT
		GST0BBD6 FDIT
		GST0BBEF FDIT
		GST0BC08 FDIT
		GST0BC21 FDIT
		GST0BC3A FDIT
		GST0BC53 FDIT
		GST0BC6C FDIT
		GST0BC85 FDIT
		GST0BC9E FDIT
		GST0BCB7 FDIT
		GST0BCD0 FDIT
		GST0BCE9 FDIT
		GST0BD02 FDIT
		GST0BD1B FDIT
		GST0BD34 FDIT
		GST0BD4D FDIT
		GST0BD66 FDIT
		GST0BD7F FDIT

0 NO\_FINAL\_INTEG  
1 APPLIED\_INTEGR



**Sentinel-2**  
**SRDB Database Extract**  
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Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name: GSKT0267TM Descr: FDSP

**Referenced by:**

From	To	Text
		GST0BB42 FDSP
		GST0BB5B FDSP
		GST0BB74 FDSP
		GST0BB8D FDSP
		GST0BBA6 FDSP
		GST0BBBF FDSP
		GST0BBD8 FDSP
		GST0BBF1 FDSP
		GST0BC0A FDSP
		GST0BC23 FDSP
		GST0BC3C FDSP
		GST0BC55 FDSP
		GST0BC6E FDSP
		GST0BC87 FDSP
		GST0BCA0 FDSP
		GST0BCB9 FDSP
		GST0BCD2 FDSP
		GST0BCEB FDSP
		GST0BD04 FDSP
		GST0BD1D FDSP
		GST0BD36 FDSP
		GST0BD4F FDSP
		GST0BD68 FDSP
		GST0BD81 FDSP
0		NO_FINAL_CORRE
1		CORRELATOR_SPA

Name: GSKT0293TM Descr: SID

**Referenced by:**

From	To	Text
		GST0BA77 SID
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



**Sentinel-2**  
**SRDB Database Extract**  
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Date: 11.02.2013  
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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0BB25 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
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Date: 11.02.2013  
Comment/Unit:  
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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2





**Sentinel-2**  
**SRDB Database Extract**  
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Date: 11.02.2013  
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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:  
GST0BB28 V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

Name: GSKT0300TM Descr: R\_MODE

Referenced by:  
GST0BB29 R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE



**Sentinel-2**  
**SRDB Database Extract**  
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Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name: GSKT0345TM Descr: CONS

**Referenced by:**

From To Text

GST0BB2B CONS  
GST0BB44 CONS  
GST0BB5D CONS  
GST0BB76 CONS  
GST0BB8F CONS  
GST0BBA8 CONS  
GST0BBC1 CONS  
GST0BBDA CONS  
GST0BBF3 CONS  
GST0BC0C CONS  
GST0BC25 CONS  
GST0BC3E CONS  
GST0BC57 CONS  
GST0BC70 CONS  
GST0BC89 CONS  
GST0BCA2 CONS  
GST0BCBB CONS  
GST0BCD4 CONS  
GST0BCED CONS  
GST0BD06 CONS  
GST0BD1F CONS  
GST0BD38 CONS  
GST0BD51 CONS  
GST0BD6A CONS

Summary  
11.02.2013 17:19:31

Differences exist between documents.

**New Document:**

[GSY\\_SCI37235](#)

1 pages (19 KB)

11.02.2013 17:19:29

Used to display results.

**Old Document:**

[GSY\\_SCI37235](#)

1 pages (19 KB)

11.02.2013 17:19:29

[Get started: first change is on page 1.](#)

No pages were deleted

## How to read this report

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 1

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37235	R_ScienceDataReport__CarrierAmplitude	212	1	49	6	790	Y	30	VAR_W	GST0B617	CARR_AMPL		Y	37235	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST0B617	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST0BD97	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0BD98	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0BD99	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG1BBC	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0BD9A	SN	Serial_Number__not_used_	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BD9B	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0BD9C	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0BD9D	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG1BBD	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BD9E	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BD9F	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BDA0	SIG	Signal_type	UINT	STRING	GSKT0230TM
8	10	8	GSTG1BBE	ANT_NU2	ANT_NU2			
	0	4	GST0BDA1	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BDA2	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
9	11	8	GST0BDA3	SF_CHN	channel_number	UINT	INTEGER	Z_IDENTITY
10	12	16	GST0BDA4	C_N_0	Carrier_to_noise_power_density_ratio	SINT	INTEGER	GSKP0268TM
11	14	16	GST0BDA5	AMPL	Carrier_amplitude	SINT	INTEGER	GSKP0269TM

Summary  
11.02.2013 17:19:48

Differences exist between documents.

**New Document:**

[GSY\\_SCI37235\\_NumericalCalibration](#)

1 pages (15 KB)

11.02.2013 17:19:47

Used to display results.

**Old Document:**

[GSY\\_SCI37235\\_NumericalCalibration](#)

1 pages (15 KB)

11.02.2013 17:19:47


[Get started: first change is on page 1.](#)

No pages were deleted

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Summary  
11.02.2013 17:20:04

Differences exist between documents.

**New Document:**

[GSY\\_SCI37235\\_TextualCalibration](#)

6 pages (23 KB)

11.02.2013 17:20:02

Used to display results.

**Old Document:**

[GSY\\_SCI37235\\_TextualCalibration](#)

6 pages (23 KB)

11.02.2013 17:20:02


[Get started: first change is on page 1.](#)

No pages were deleted

## How to read this report

**Highlight** indicates a change.

**Deleted** indicates deleted content.

 indicates pages were changed.

 indicates pages were moved.



# Sentinel-2

## SRDB Database Extract

TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name: GSKT0230TM Descr: SIG

Referenced by:  
GST0BDA0 SIG

From	To	Text
0		GPS_L1_CA
1		GPS_L1_P
2		GPS_L2_CA
3		GPS_L2_P
4		GPS_L2_CM
5		GPS_L2_CL
6		NO_SIGNAL

Name: GSKT0231TM Descr: ANT

Referenced by:  
GST0BDA1 ANT

From	To	Text
0		FIRST_ANTENNA
1		SECOND_ANTENNA

Name: GSKT0293TM Descr: SID

Referenced by:  
GST0B617 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



**Sentinel-2**  
**SRDB Database Extract**  
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Date: 11.02.2013  
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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0BD98 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

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Comment/Unit:  
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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



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**SRDB Database Extract**  
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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:  
GST0BD9B V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

Name: GSKT0300TM Descr: R\_MODE

Referenced by:  
GST0BD9C R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

Name: GSKT0345TM Descr: CONS

Referenced by:  
GST0BD9E CONS

From	To	Text
0		GPS_CONSTELLAT

Summary  
11.02.2013 17:20:20

Differences exist between documents.

**New Document:**

[GSY\\_SCI37236](#)

2 pages (22 KB)

11.02.2013 17:20:19

Used to display results.

**Old Document:**

[GSY\\_SCI37236](#)

2 pages (22 KB)

11.02.2013 17:20:18

[Get started: first change is on page 1.](#)

No pages were deleted

## How to read this report

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37236	R_ScienceDataReport_NoiseHistogram_2_	212	1	49	12	796	Y	94	FIXED	GST0BA77	NOISE_HIST		Y	37236	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST0BA77	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST0BDBA	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0BDBB	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0BDBC	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG1BBF	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0BDBD	SN	Serial_Number_not_used	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BDDE	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0BDBF	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0BDC0	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG1BC0	CHAIN_NU2	CHAIN_NU2			
	0	4	GST0BDC1	CHAIN	chain_number	UINT	STRING	GSKT0270TM
	4	12	GST0BDC2	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
8	10	16	GST0BDC3	N_POWER	Noise_power	SINT	INTEGER	GSKP0269TM
9	12	32	GST0BDC4	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
10	16	16	GST0BDC5	LVL_I_P3	normalised_signal_level_detector_counts_of_the_positive_I_n_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
11	18	16	GST0BDC6	LVL_I_P1	normalised_signal_level_detector_counts_of_the_positive_I_n_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
12	20	16	GST0BDC7	LVL_I_M1	normalised_signal_level_detector_counts_of_the_negative_I_n_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
13	22	16	GST0BDC8	LVL_I_M3	normalised_signal_level_detector_counts_of_the_negative_I_n_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
14	24	32	GST0BDC9	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
15	28	32	GST0BDCA	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
16	32	16	GST0BDCB	LVL_Q_P3	normalised_signal_level_detector_counts_of_the_quadrature_I_n_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
17	34	16	GST0BDCC	LVL_Q_P1	normalised_signal_level_detector_counts_of_the_quadrature_I_n_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
18	36	16	GST0BDCD	LVL_Q_M1	normalised_signal_level_detector_counts_of_the_negative_quadrature_I_n_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
19	38	16	GST0BDCE	LVL_Q_M3	normalised_signal_level_detector_counts_of_the_negative_quadrature_I_n_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
20	40	32	GST0BDCF	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 2 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37236	R_ScienceDataReport__NoiseHistogram_2_	212	1	49	12	796	Y	94	FIXED	GST0BA77	NOISE_HIST		Y	37236	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
21	44	16	GSTG1BC1	CHAIN_NU2	CHAIN_NU2			
	0	4	GST0BDD0	CHAIN	chain_number	UINT	STRING	GSKT0270TM
	4	12	GST0BDD1	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
22	46	16	GST0BDD2	N_POWER	Noise_power	SINT	INTEGER	GSKP0269TM
23	48	32	GST0BDD3	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
24	52	16	GST0BDD4	LVL_I_P3	normalised_signal_level_detector_counts_of_the_positive_I n_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
25	54	16	GST0BDD5	LVL_I_P1	normalised_signal_level_detector_counts_of_the_positive_I n_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
26	56	16	GST0BDD6	LVL_I_M1	normalised_signal_level_detector_counts_of_the_negative _In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
27	58	16	GST0BDD7	LVL_I_M3	normalised_signal_level_detector_counts_of_the_negative _In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
28	60	32	GST0BDD8	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
29	64	32	GST0BDD9	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
30	68	16	GST0BDDA	LVL_Q_P3	normalised_signal_level_detector_counts_of_the_quadratu r_e_In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
31	70	16	GST0BDDB	LVL_Q_P1	normalised_signal_level_detector_counts_of_the_quadratu r_e_In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
32	72	16	GST0BDDC	LVL_Q_M1	normalised_signal_level_detector_counts_of_the_negative _quadrature_In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
33	74	16	GST0BDDD	LVL_Q_M3	normalised_signal_level_detector_counts_of_the_negative _quadrature_In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
34	76	32	GST0BDDE	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY

Summary  
11.02.2013 17:20:37

Differences exist between documents.

**New Document:**

[GSY\\_SCI37236\\_NumericalCalibration](#)

1 pages (15 KB)

11.02.2013 17:20:36

Used to display results.

**Old Document:**

[GSY\\_SCI37236\\_NumericalCalibration](#)

1 pages (15 KB)

11.02.2013 17:20:35

[Get started: first change is on page 1.](#)

No pages were deleted

**How to read this report**

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**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2 . 77  
Page: 1 of 1

**Name:** GSKP0269TM **Descr:** AMPL

**Unit:** dB X Y

**Referenced by:**

GST0BDC3 N\_POWER  
GST0BDD2 N\_POWER

**Modelname:** GENERIC

-32768 -327.68  
32767 327.67

Summary  
11.02.2013 17:20:52

Differences exist between documents.

**New Document:**

[GSY\\_SCI37236\\_TextualCalibration](#)

6 pages (23 KB)

11.02.2013 17:20:51

Used to display results.

**Old Document:**

[GSY\\_SCI37236\\_TextualCalibration](#)

6 pages (23 KB)

11.02.2013 17:20:50

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No pages were deleted

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# Sentinel-2

## SRDB Database Extract

TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 6

Name: GSKT0270TM Descr: CHAIN

Referenced by:

GST0BDC1 CHAIN  
GST0BDD0 CHAIN

From	To	Text
0		ANTENNA_1_-_L1
1		ANTENNA_1_-_L2

Name: GSKT0293TM Descr: SID

Referenced by:

GST0BA77 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 2 of 6

Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0BDBB FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 3 of 6

81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2





**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 4 of 6

131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 5 of 6

181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 6 of 6

231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:  
GST0DBE V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

Name: GSKT0300TM Descr: R\_MODE

Referenced by:  
GST0DBF R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

Summary  
11.02.2013 17:21:08

Differences exist between documents.

**New Document:**

[GSY\\_SCI37237](#)

1 pages (19 KB)

11.02.2013 17:21:07

Used to display results.

**Old Document:**

[GSY\\_SCI37237](#)

1 pages (19 KB)

11.02.2013 17:21:07


[Get started: first change is on page 1.](#)


No pages were deleted

## How to read this report

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2, 77  
Page: 1 of 1

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37237	R_SciData__ScienceDataReport__AGC_Statu	212	1	49	13	797	Y	34	VAR_W	GST0B86E	AGC_STATUS		Y	37237	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST0B86E	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST0BDF3	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0BDF4	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0BDF5	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG1BC2	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0BDF6	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BDF7	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0BDF8	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0BDF9	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	32	GST0BDFA	GCTS_MSB	gain_control_change_timestamp_MSB_part	UINT	INTEGER	Z_IDENTITY
8	12	32	GST0BDFB	GCTS_LSB	gain_control_change_timestamp_LSB_part	UINT	INTEGER	Z_IDENTITY
9	16	8	GSTG1BC3	CHAIN_NU_L_U_E	CHAIN_NU_L_U_E			
	0	4	GST0BDFC	CHAIN	Chain_index	UINT	STRING	GSKT0271TM
	4	1	GST0BDFD	N_U	not_used	UINT	INTEGER	Z_IDENTITY
	5	1	GST0BDFF	L	lower_settling_threshold	UINT	STRING	GSKT0272TM
	6	1	GST0BDFF	U	upper_settling_threshold	UINT	STRING	GSKT0273TM
	7	1	GST0BE00	E	Enabled	UINT	STRING	GSKT0274TM
10	17	8	GST0BE01	GAIN	analogue_gain_setting	UINT	INTEGER	Z_IDENTITY
11	18	16	GST0BE02	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY

Summary  
11.02.2013 17:21:29

Differences exist between documents.

**New Document:**

[GSY\\_SCI37237\\_TextualCalibration](#)

6 pages (24 KB)

11.02.2013 17:21:27

Used to display results.

**Old Document:**

[GSY\\_SCI37237\\_TextualCalibration](#)

6 pages (23 KB)

11.02.2013 17:21:27


[Get started: first change is on page 1.](#)


No pages were deleted

## How to read this report

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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 6

Name: GSKT0271TM Descr: CHAIN

Referenced by:  
GST0BDFC CHAIN

From	To	Text
0		ANTENNA_1_-_L1
1		ANTENNA_1_-_L2

Name: GSKT0272TM Descr: L

Referenced by:  
GST0BDFE L

From	To	Text
0		NOT_BELOW_LOWE
1		LOWER_SETTLING

Name: GSKT0273TM Descr: U

Referenced by:  
GST0BDFF U

From	To	Text
0		NOT_ABOVE_UPPE
1		UPPER_SETTLING

Name: GSKT0274TM Descr: E

Referenced by:  
GST0BE00 E

From	To	Text
0		AGC_DISABLED
1		AGC_ENABLED

Name: GSKT0293TM Descr: SID

Referenced by:  
GST0B86E SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 2 of 6

Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0BDF4 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92





**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 3 of 6

81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 4 of 6

131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 5 of 6

181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 6 of 6

231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:  
GST0BDF7 V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

Name: GSKT0300TM Descr: R\_MODE

Referenced by:  
GST0BDF8 R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

Summary  
11.02.2013 17:21:45

Differences exist between documents.

**New Document:**

[GSY\\_SCI37238](#)

2 pages (22 KB)

11.02.2013 17:21:44

Used to display results.

**Old Document:**

[GSY\\_SCI37238](#)

2 pages (22 KB)

11.02.2013 17:21:43


[Get started: first change is on page 1.](#)


No pages were deleted

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37238	R_ScienceDataReport__GPS_NAV_Almanac	212	1	49	13	797	Y	58	VAR_W	GST0B86E	GPS_NAV_ALM		Y	37238	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST0B86E	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST0BE17	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0BE18	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0BE19	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG1BC4	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0BE1A	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BE1B	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0BE1C	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0BE1D	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG1BC5	CONS_SVID_NU	CONS_SVID_NU			
	0	3	GST0BE1E	CONS	constellation_identifier	UINT	STRING	GSKT0343TM
	3	8	GST0BE1F	SV_ID	Space_vehicle_identifier	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BE20	N_U	not_used	UINT	INTEGER	Z_IDENTITY
8	10	16	GST0BE21	T_REC	Time_of_reception	UINT	INTEGER	Z_IDENTITY
9	12	8	GST0BE22	ACQ_SV_ID	SV_identity_of_download	UINT	INTEGER	Z_IDENTITY
10	13	8	GST0BE23	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
11	14	8	GST0BE24	WNa	Week_number	UINT	INTEGER	Z_IDENTITY
12	15	8	GSTG1BC6	NDH_SH	NDH_SH			
	0	3	GST0BE25	NDH	Navigation_Data_Health	UINT	STRING	GSKT0008TM
	3	5	GST0BE26	SH	Signal_Health	UINT	STRING	GSKT0009TM
13	16	16	GST0BE27	a_f0	SV_clock_correction_polynomial_constants	SINT	INTEGER	GSKP0010TM
14	18	16	GST0BE28	a_f1	SV_clock_correction_polynomial_constants	SINT	INTEGER	GSKP0011TM
15	20	8	GST0BE29	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
16	21	8	GST0BE2A	t_oa	SV_clock_correlation_reference_time	UINT	INTEGER	GSKP0012TM
17	22	16	GST0BE2B	E	Eccentricity	UINT	INTEGER	GSKP0013TM
18	24	16	GST0BE2C	rho_i	Derivation__correction__of_inclination	SINT	INTEGER	GSKP0014TM
19	26	16	GST0BE2D	Omega_DOT	rate_of_right_ascension	SINT	INTEGER	GSKP0015TM
20	28	32	GST0BE2E	Root_A	Square_root_of_the_semimajor_axis	UINT	INTEGER	GSKP0016TM
21	32	32	GST0BE2F	Omega_0	Longitude_of_ascending_node_of_Orbit_plane_at_weekly_epoch	SINT	INTEGER	GSKP0017TM



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2, 77  
Page: 2 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37238	R_ScienceDataReport__GPS_NAV_Almanac	212	1	49	13	797	Y	58	VAR_W	GST0B86E	GPS_NAV_ALM		Y	37238	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
22	36	32	GST0BE30	w	argument_of_perigee	SINT	INTEGER	GSKP0017TM
23	40	32	GST0BE31	M_0	mean_anomaly_at_reference_time	SINT	INTEGER	GSKP0017TM

Summary  
11.02.2013 17:22:01

Differences exist between documents.

**New Document:**

[GSY\\_SCI37238\\_NumericalCalibration](#)

2 pages (21 KB)

11.02.2013 17:21:59

Used to display results.

**Old Document:**

[GSY\\_SCI37238\\_NumericalCalibration](#)

2 pages (21 KB)

11.02.2013 17:21:59

[Get started: first change is on page 1.](#)

No pages were deleted

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**Sentinel-2**  
**SRDB Database Extract**  
**TM Numerical Calibration Curves**

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2.77  
Page: 1 of 2

Name: GSKP0010TM Descr: a\_f0

Referenced by:

Unit: s X Y

GST0BE27 a\_f0

Modelname: GENERIC

-1024 -0.0009765625  
1023 0.000975608826

Name: GSKP0011TM Descr: a\_f1

Referenced by:

Unit: s/s X Y

GST0BE28 a\_f1

Modelname: GENERIC

-1024 -3.7252903E-09  
1023 3.72165232E-09

Name: GSKP0012TM Descr: t\_oa

Referenced by:

Unit: s X Y

GST0BE2A t\_oa

Modelname: GENERIC

0 0  
255 1044480

Name: GSKP0013TM Descr: E

Referenced by:

Unit: X Y

GST0BE2B E

Modelname: GENERIC

0 0  
65535 0.031249523163

Name: GSKP0014TM Descr: rho\_i

Referenced by:

Unit: sc X Y

GST0BE2C rho\_i

Modelname: GENERIC

-32768 -0.0625  
32767 0.062498092651

Name: GSKP0015TM Descr: Omega\_DOT

Referenced by:

Unit: sc/s X Y

GST0BE2D Omega\_DOT

Modelname: GENERIC

-32768 -0.00000011920929  
32767 0.000000119205652

Name: GSKP0016TM Descr: Root\_A

Referenced by:

Unit: rotm X Y

GST0BE2E Root\_A

Modelname: GENERIC

1 0.00048828125  
16777215 8191.999511719



**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2 . 77  
Page: 2 of 2

**Name:** GSKP0017TM **Descr:** Omega\_0

**Unit:** sc

X

Y

**Referenced by:**

GST0BE2F Omega\_0

GST0BE30 w

GST0BE31 M\_0

---

**Modelname:** GENERIC

-8388608

-1

8388607

0.999999880791

---

Summary  
11.02.2013 17:22:18

Differences exist between documents.

**New Document:**

[GSY\\_SCI37238\\_TextualCalibration](#)

7 pages (25 KB)

11.02.2013 17:22:16

Used to display results.

**Old Document:**

[GSY\\_SCI37238\\_TextualCalibration](#)

7 pages (25 KB)

11.02.2013 17:22:16


[Get started: first change is on page 1.](#)


No pages were deleted

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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 7

Name: GSKT0008TM Descr: NDH

Referenced by:  
GST0BE25 NDH

From	To	Text
0		ALL_OK
1		PARITY_FAILURE
2		TLM_HOW_PROBLE
3		Z_COUNT_BAD
4		SUB-FRAMES_1_2
5		SUB-FRAMES_4_5
6		ALL_UPLOADED_B
7		ALL_DATA_BAD

Name: GSKT0009TM Descr: SH

Referenced by:  
GST0BE26 SH

From	To	Text
0		ALL_OK
1		ALL_WEAK
2		ALL_DEAD
3		ALL_WITHOUT_DA
4		L1_P_WEAK
5		L1_P_DEAD
6		L1_P_WITHOUT_D
7		L2_P_WEAK
8		L2_P_DEAD
9		L2_P_WITHOUT_D
10		L1_C_WEAK
11		L1_C_DEAD
12		L1_C_WITHOUT_D
13		L2_C_WEAK
14		L2_C_DEAD
15		L2_C_WITHOUT_D
16		L1_AND_L2_P_WE
17		L1_AND_L2_P_DE
18		L1_AND_L2_P_WI
19		L1_AND_L2_C_WE
20		L1_AND_L2_C_DE
21		L1_AND_L2_C_WI
22		L1_WEAK
23		L1_DEAD
24		L1_WITHOUT_DAT
25		L2_WEAK
26		L2_DEAD
27		L2_WITHOUT_DAT
28		GPS_SV_TEMP_OU
29		GPS_SV_WILL_BE
30		SPARE
31		OTHER_ANOMALIE



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 2 of 7

Name: GSKT0293TM Descr: SID

Referenced by:  
GST0B86E SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST

---



# Sentinel-2

## SRDB Database Extract

### TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 3 of 7

Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0BE18 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 5 of 7

131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75





**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 6 of 7

181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 7 of 7

231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:  
GST0BE1B V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

Name: GSKT0300TM Descr: R\_MODE

Referenced by:  
GST0BE1C R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

Name: GSKT0343TM Descr: CONS

Referenced by:  
GST0BE1E CONS

From	To	Text
0		GPS_CONSTELLAT

Summary  
11.02.2013 17:22:34

Differences exist between documents.

**New Document:**

[GSY\\_SCI37239](#)

2 pages (23 KB)

11.02.2013 17:22:32

Used to display results.

**Old Document:**

[GSY\\_SCI37239](#)

2 pages (23 KB)

11.02.2013 17:22:32

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No pages were deleted

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37239	R_ScienceDataReport__GPS_NAV_Ephemeris	212	1	49	13	797	Y	90	VAR_W	GST0B86E	GPS_NAV_EPH		Y	37239	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST0B86E	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST0BE46	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0BE47	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0BE48	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG1BC7	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0BE49	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BE4A	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0BE4B	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0BE4C	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG1C09	CONS_SVID_NU	CONS_SVID_NU			
	0	3	GST0C162	CONS	constellation_identifier	UINT	STRING	GSKT0344TM
	3	8	GST0C163	SV_ID	Space_vehicle_identifier	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BE4F	N_U	not_used	UINT	INTEGER	Z_IDENTITY
8	10	16	GST0BE50	T_REC	Time_of_reception	UINT	INTEGER	Z_IDENTITY
9	12	16	GSTG1BC9	AS_D2_CF_C2_A_NH	AS_D2_CF_C2_A_NH_SH_URA			
	0	1	GST0BE51	AS	Anti_spoof_flag	UINT	STRING	GSKT0018TM
	1	1	GST0BE52	D2	Data_flag_for_L2_P_2D_code	UINT	STRING	GSKT0019TM
	2	1	GST0BE53	CF	curve_fit_interval	UINT	STRING	GSKT0020TM
	3	2	GST0BE54	C2	Codes_on_L2_channel	UINT	STRING	GSKT0021TM
	5	1	GST0BE55	A	Alert_flag	UINT	STRING	GSKT0022TM
	6	1	GST0BE56	NH	Navigation_Data_Health_Summary	UINT	STRING	GSKT0023TM
	7	5	GST0BE57	SH	Signal_health	UINT	STRING	GSKT0024TM
	12	4	GST0BE58	URA	GPS_SV_Accuracy	UINT	INTEGER	Z_IDM
10	14	16	GSTG1BCA	NU2_WN	NU2_WN			
	0	6	GST0BE59	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	6	10	GST0BE5A	WN	week_number	UINT	INTEGER	Z_IDENTITY
11	16	16	GST0BE5B	IODC	Issue_of_Data_clock	UINT	INTEGER	Z_IDENTITY
12	18	16	GST0BE5C	a_f1	GPS_SV_Clock_correction_polynomial_coefficients	SINT	INTEGER	GSKP0025TM
13	20	32	GST0BE5D	a_f0	GPS_SV_Clock_correction_polynomial_coefficients	SINT	INTEGER	GSKP0026TM
14	24	8	GST0BE5E	a_f2	GPS_SV_Clock_correction_polynomial_coefficients	SINT	INTEGER	GSKP0027TM
15	25	8	GST0BE5F	T_GD	estimated_group_delay	SINT	INTEGER	GSKP0028TM



# Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 2 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37239	R_ScienceDataReport__GPS_NAV_Ephemeris	212	1	49	13	797	Y	90	VAR_W	GST0B86E	GPS_NAV_EPH		Y	37239	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
16	26	16	GST0BE60	t_oc	GPS_SV_Clock_data_reference_time	UINT	INTEGER	GSKP0029TM
17	28	16	GST0BE61	IODE	Issue_of_Data_2C__Ephemeris	UINT	INTEGER	Z_IDENTITY
18	30	16	GST0BE62	C_rs	amplitude_of_the_sine_harmonic_correction_term_to_the_orbit_radius	SINT	INTEGER	GSKP0030TM
19	32	16	GST0BE63	C_rc	amplitude_of_the_cosine_harmonic_correction_term_to_the_orbit_radius	SINT	INTEGER	GSKP0030TM
20	34	16	GST0BE64	C_us	amplitude_of_the_sine_harmonic_correction_term_to_the_argument_of_Lattitude	SINT	INTEGER	GSKP0031TM
21	36	16	GST0BE65	C_uc	amplitude_of_the_cosine_harmonic_correction_term_to_the_argument_of_Lattitude	SINT	INTEGER	GSKP0031TM
22	38	16	GST0BE66	C_is	amplitude_of_the_sine_harmonic_correction_term_to_the_angle_of_inclination	SINT	INTEGER	GSKP0031TM
23	40	16	GST0BE67	C_ic	amplitude_of_the_cosine_harmonic_correction_term_to_the_angle_of_inclination	SINT	INTEGER	GSKP0031TM
24	42	16	GST0BE68	Delta_n	mean_motion_difference_from_computed_value	SINT	INTEGER	GSKP0032TM
25	44	32	GST0BE69	M_0	mean_anomaly_at_reference_time	SINT	INTEGER	GSKP0033TM
26	48	32	GST0BE6A	E	Eccentricity	UINT	INTEGER	GSKP0034TM
27	52	32	GST0BE6B	Root_A	square_root_for_the_semi_major_axis	UINT	INTEGER	GSKP0035TM
28	56	32	GST0BE6C	Omega_0	longitude_of_ascending_node_of_orbit_plane_at_weekly_epoch	SINT	INTEGER	GSKP0033TM
29	60	32	GST0BE6D	i_0	Inclination_angle_at_reference_time	SINT	INTEGER	GSKP0033TM
30	64	32	GST0BE6E	w	argument_of_perigee	SINT	INTEGER	GSKP0033TM
31	68	32	GST0BE6F	Omega_DOT	rate_of_right_ascension	SINT	INTEGER	GSKP0036TM
32	72	16	GST0BE70	t_oe	reference_time_Ephemeris	UINT	INTEGER	GSKP0029TM
33	74	16	GST0BE71	I_DOT	rate_of_inclination_angle	SINT	INTEGER	GSKP0037TM

Summary  
11.02.2013 17:22:50

Differences exist between documents.

**New Document:**

[GSY\\_SCI37239\\_NumericalCalibration](#)

2 pages (22 KB)

11.02.2013 17:22:49

Used to display results.

**Old Document:**

[GSY\\_SCI37239\\_NumericalCalibration](#)

2 pages (21 KB)

11.02.2013 17:22:48

[Get started: first change is on page 1.](#)

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**Sentinel-2**  
**SRDB Database Extract**  
**TM Numerical Calibration Curves**

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name: GSKP0025TM Descr: a\_f1  
Unit: s/s X Y  
Referenced by: GST0BE5C a\_f1

Modelname: GENERIC

-32768 -3.7252903E-09  
32767 3.72517661E-09

Name: GSKP0026TM Descr: a\_f0  
Unit: s X Y  
Referenced by: GST0BE5D a\_f0

Modelname: GENERIC

-2097152 -0.0009765625  
2097151 0.000976562034

Name: GSKP0027TM Descr: a\_f2  
Unit: s/s2 X Y  
Referenced by: GST0BE5E a\_f2

Modelname: GENERIC

-128 -3.5527137E-15  
127 3.5249581E-15

Name: GSKP0028TM Descr: T\_GD  
Unit: s X Y  
Referenced by: GST0BE5F T\_GD

Modelname: GENERIC

-128 -0.000000059604645  
127 5.91389835E-08

Name: GSKP0029TM Descr: t\_oc  
Unit: s X Y  
Referenced by: GST0BE60 t\_oc  
GST0BE70 t\_oe

Modelname: GENERIC

0 0  
65535 1048560

Name: GSKP0030TM Descr: C\_rs  
Unit: m X Y  
Referenced by: GST0BE62 C\_rs  
GST0BE63 C\_rc

Modelname: GENERIC

-32768 -1024  
32767 1023.96875

Name: GSKP0031TM Descr: C\_us  
Unit: rad X Y  
Referenced by: GST0BE64 C\_us  
GST0BE65 C\_uc  
GST0BE66 C\_is  
GST0BE67 C\_ic

Modelname: GENERIC

-32768 -0.000061035156  
32767 0.0000610332936



# Sentinel-2 SRDB Database Extract TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 2 of 2

Name: GSKP0032TM Descr: Delta\_n

Unit: sc/s X Y

Modelname: GENERIC

Referenced by:

GST0BE68 Delta\_n

-32768 -3.7252903E-09  
32767 3.72517661E-09

Name: GSKP0033TM Descr: M\_0

Unit: sc X Y

Modelname: GENERIC

Referenced by:

GST0BE69 M\_0  
GST0BE6C Omega\_0  
GST0BE6D i\_0  
GST0BE6E w

-2147483648 -1  
2147483647 0.99999999534

Name: GSKP0034TM Descr: E

Unit: X Y

Modelname: GENERIC

Referenced by:

GST0BE6A E

0 0  
4294967295 0.499999999884

Name: GSKP0035TM Descr: Root\_A

Unit: rotm X Y

Modelname: GENERIC

Referenced by:

GST0BE6B Root\_A

1 0.00000190734863  
4294967295 8191.999998093

Name: GSKP0036TM Descr: Omega\_DOT

Unit: sc/s X Y

Modelname: GENERIC

Referenced by:

GST0BE6F Omega\_DOT

-8388608 -0.00000095367432  
8388607 0.000000953674203

Name: GSKP0037TM Descr: I\_DOT

Unit: sc/s X Y

Modelname: GENERIC

Referenced by:

GST0BE71 I\_DOT

-8192 -9.3132257E-10  
8191 9.31208888E-10

Name: Z\_IDM Descr: Identity metre [m]

Unit: m X Y

Modelname: GENERIC

Referenced by:

GST0BE58 URA



Summary  
11.02.2013 17:23:07

Differences exist between documents.

**New Document:**

[GSY\\_SCI37239\\_TextualCalibration](#)

8 pages (27 KB)

11.02.2013 17:23:05

Used to display results.

**Old Document:**

[GSY\\_SCI37239\\_TextualCalibration](#)

8 pages (27 KB)

11.02.2013 17:23:05


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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name: GSKT0018TM Descr: AS

Referenced by:  
GST0BE51 AS

From	To	Text
0		ANTI-SPOOF_OFF
1		ANTI-SPOOF_ON

Name: GSKT0019TM Descr: D2

Referenced by:  
GST0BE52 D2

From	To	Text
0		DATA_FLAG_ON
1		DATA_FLAG_OFF

Name: GSKT0020TM Descr: CF

Referenced by:  
GST0BE53 CF

From	To	Text
0		4HRS
1		OVER_4HRS

Name: GSKT0021TM Descr: C2

Referenced by:  
GST0BE54 C2

From	To	Text
0		RESERVED
1		P-CODE_ON
2		CA-CODE_ON

Name: GSKT0022TM Descr: A

Referenced by:  
GST0BE55 A

From	To	Text
0		NOMINAL
1		UNAUTHORIZED_U

Name: GSKT0023TM Descr: NH

Referenced by:  
GST0BE56 NH

From	To	Text
0		NAV_DATA_OK
1		SOME_OR_ALL_NA



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
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Rel./Iss. 2 . 77  
Page: 2 of 8

Name: GSKT0024TM Descr: SH

Referenced by:  
GST0BE57 SH

From	To	Text
0		ALL_OK
1		ALL_WEAK
2		ALL_DEAD
3		ALL_WITHOUT_DA
4		L1_P_WEAK
5		L1_P_DEAD
6		L1_P_WITHOUT_D
7		L2_P_WEAK
8		L2_P_DEAD
9		L2_P_WITHOUT_D
10		L1_C_WEAK
11		L1_C_DEAD
12		L1_C_WITHOUT_D
13		L2_C_WEAK
14		L2_C_DEAD
15		L2_C_WITHOUT_D
16		L1_AND_L2_P_WE
17		L1_AND_L2_P_DE
18		L1_AND_L2_P_WI
19		L1_AND_L2_C_WE
20		L1_AND_L2_C_DE
21		L1_AND_L2_C_WI
22		L1_WEAK
23		L1_DEAD
24		L1_WITHOUT_DAT
25		L2_WEAK
26		L2_DEAD
27		L2_WITHOUT_DAT
28		GPS_SV_TEMP_OU
29		GPS_SV_WILL_BE
30		SPARE
31		OTHER_ANOMALIE



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
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Name: GSKT0293TM Descr: SID

Referenced by:  
GST0B86E SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST

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# Sentinel-2

## SRDB Database Extract

### TM Textual Calibration Curves

Date: 11.02.2013  
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Database: SISS2CSW  
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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0BE47 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99





# Sentinel-2 SRDB Database Extract TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:  
GST0BE4A V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

Name: GSKT0300TM Descr: R\_MODE

Referenced by:  
GST0BE4B R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

Name: GSKT0344TM Descr: CONS

Referenced by:  
GST0C162 CONS

From	To	Text
0		GPS_CONSTELLAT

Summary  
11.02.2013 17:23:24

Differences exist between documents.

**New Document:**

[GSY\\_SCI37240](#)

2 pages (22 KB)

11.02.2013 17:23:23

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**Old Document:**

[GSY\\_SCI37240](#)

2 pages (22 KB)

11.02.2013 17:23:23


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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2, 77  
Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37240	R_ScienceDat__GPS_NAV_UTC_and_Ionos	212	1	49	13	797	Y	50	FIXED	GST0B86E	GPS_NAV_UTC_IO		Y	37240	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST0B86E	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST0BE86	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0BE87	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0BE88	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG1BCB	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0BE89	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BE8A	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0BE8B	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0BE8C	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG1BCC	CONS_ACQSVI_NU3	CONS_ACQSVI_NU3			
	0	3	GST0BE8D	CONS	constellation_identifier	UINT	STRING	GSKT0343TM
	3	8	GST0BE8E	ACQ_SV_ID	SV_identity_of_download	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BE8F	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
8	10	16	GST0BE90	T_REC	Time_of_reception	UINT	INTEGER	Z_IDENTITY
9	12	16	GST0BE91	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
10	14	8	GST0BE92	delta_t_ls	delta_time_due_to_leap_seconds	SINT	INTEGER	Z_IDS
11	15	8	GST0BE93	t_ot	reference_time_for_UTC_data	UINT	INTEGER	GSKP0012TM
12	16	8	GST0BE94	WN_t	UTC_reference_week_number	UINT	INTEGER	Z_IDWK
13	17	8	GST0BE95	WN_LSF	UTC_reference_week_number_due_to_leap_seconds	UINT	INTEGER	Z_IDWK
14	18	8	GST0BE96	DN	Day_number	UINT	INTEGER	Z_IDENTITY
15	19	8	GST0BE97	delta_t_LSF	delta_time_due_to_leap_seconds	SINT	INTEGER	Z_IDS
16	20	32	GST0BE98	A_0	polynomial_constants	SINT	INTEGER	GSKP0038TM
17	24	32	GST0BE99	A_1	polynomial_constants	SINT	INTEGER	GSKP0039TM
18	28	8	GST0BE9A	alpha0	lonosphere_parameter	SINT	INTEGER	GSKP0040TM
19	29	8	GST0BE9B	alpha1	lonosphere_parameter	SINT	INTEGER	GSKP0041TM
20	30	8	GST0BE9C	alpha2	lonosphere_parameter	SINT	INTEGER	GSKP0042TM
21	31	8	GST0BE9D	alpha3	lonosphere_parameter	SINT	INTEGER	GSKP0043TM
22	32	8	GST0BE9E	beta0	lonosphere_parameter	SINT	INTEGER	GSKP0044TM
23	33	8	GST0BE9F	beta1	lonosphere_parameter	SINT	INTEGER	GSKP0045TM
24	34	8	GST0BEA0	beta2	lonosphere_parameter	SINT	INTEGER	GSKP0046TM



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatn	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37240	R_ScienceDat__GPS_NAV_UTC_and_Ionosp	212	1	49	13	797	Y	50	FIXED	GST0B86E	GPS_NAV_UTC_IO		Y	37240	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
25	35	8	GST0BEA1	beta3	Ionosphere_parameter	SINT	INTEGER	GSKP0047TM

Summary  
11.02.2013 17:23:41

Differences exist between documents.

**New Document:**

[GSY\\_SCI37240\\_NumericalCalibration](#)

2 pages (22 KB)

11.02.2013 17:23:40

Used to display results.

**Old Document:**

[GSY\\_SCI37240\\_NumericalCalibration](#)

2 pages (21 KB)

11.02.2013 17:23:40

[Get started: first change is on page 1.](#)

No pages were deleted

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# Sentinel-2

## SRDB Database Extract

### TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2 . 77  
Page: 1 of 2

Name: GSKP0012TM Descr: t\_oa Referenced by:  
Unit: s X Y GST0BE93 t\_ot

Modelname: GENERIC

0 0  
255 1044480

Name: GSKP0038TM Descr: A\_0 Referenced by:  
Unit: s X Y GST0BE98 A\_0

Modelname: GENERIC

-2147483648 -2  
2147483647 1.999999999069

Name: GSKP0039TM Descr: A\_1 Referenced by:  
Unit: s/s X Y GST0BE99 A\_1

Modelname: GENERIC

-8388608 -7.4505806E-09  
8388607 7.45057971E-09

Name: GSKP0040TM Descr: alpha0 Referenced by:  
Unit: s X Y GST0BE9A alpha0

Modelname: GENERIC

-128 -0.00000011920929  
127 0.000000118277967

Name: GSKP0041TM Descr: alpha1 Referenced by:  
Unit: s/sc X Y GST0BE9B alpha1

Modelname: GENERIC

-128 -0.00000095367432  
127 0.000000946223736

Name: GSKP0042TM Descr: alpha2 Referenced by:  
Unit: s/c2 X Y GST0BE9C alpha2

Modelname: GENERIC

-128 -0.0000076293945  
127 0.00000756978989

Name: GSKP0043TM Descr: alpha3 Referenced by:  
Unit: s/c3 X Y GST0BE9D alpha3

Modelname: GENERIC

-128 -0.0000076293945  
127 0.00000756978989

Name: GSKP0044TM Descr: beta0 Referenced by:  
Unit: s X Y GST0BE9E beta0

Modelname: GENERIC

-128 -262144  
127 260096



# Sentinel-2

## SRDB Database Extract

### TM Numerical Calibration Curves

Date: 11.02.2013  
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Database: SISS2CSW  
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Name: GSKP0045TM Descr: beta1

Unit: s/sc X Y

Modelname: GENERIC

-128

127

Referenced by:

GST0BE9F beta1

-2097152

2080768

Name: GSKP0046TM Descr: beta2

Unit: s/c2 X Y

Modelname: GENERIC

-128

127

Referenced by:

GST0BEA0 beta2

-8388608

8323072

Name: GSKP0047TM Descr: beta3

Unit: s/c3 X Y

Modelname: GENERIC

-128

127

Referenced by:

GST0BEA1 beta3

-8388608

8323072

Name: Z\_IDS Descr: Identity [s]

Unit: s X Y

Modelname: GENERIC

Referenced by:

GST0BE92 delta\_t\_Is

GST0BE97 delta\_t\_LSF

Name: Z\_IDWK Descr: Identity weeks [-]

Unit: wk X Y

Modelname: GENERIC

Referenced by:

GST0BE94 WN\_t

GST0BE95 WN\_LSF

Summary  
11.02.2013 17:24:03

Differences exist between documents.

**New Document:**

[GSY\\_SCI37240\\_TextualCalibration](#)

6 pages (23 KB)

11.02.2013 17:24:01

Used to display results.

**Old Document:**

[GSY\\_SCI37240\\_TextualCalibration](#)

7 pages (25 KB)

11.02.2013 17:24:01

[Get started: first change is on page 1.](#)

No pages were deleted

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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 6

Name: GSKT0293TM Descr: SID

Referenced by:  
GST0B86E SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST

---



# Sentinel-2

## SRDB Database Extract

### TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 2 of 6

Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0BE87 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:  
GST0BE8A V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

Name: GSKT0300TM Descr: R\_MODE

Referenced by:  
GST0BE8B R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

Name: GSKT0343TM Descr: CONS

Referenced by:  
GST0BE8D CONS

From	To	Text
0		GPS_CONSTELLAT



Summary  
11.02.2013 17:24:23

Differences exist between documents.

**New Document:**

[GSY\\_SCI37241](#)

4 pages (31 KB)

11.02.2013 17:24:19

Used to display results.

**Old Document:**

[GSY\\_SCI37241](#)

4 pages (31 KB)

11.02.2013 17:24:19


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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2, 77  
Page: 1 of 4

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37241	R_SciDa__ScienceDataReport__Auxiliary_8_	212	1	49	6	790	Y	54	FIXED	GST0B617	SENTINEL_AUX		Y	37241	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST0B617	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST0BEB6	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0BEB7	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0BEB8	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG1BCD	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0BEB9	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BEBA	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0EBBB	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0BECB	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG1BFE	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
	0	3	GST0C0F5	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel__	UINT	STRING	GSKT0301TM
	3	8	GST0BEBE	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST0BEBF	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
	12	4	GST0BEC0	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
8	10	8	GST0BEC1	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
9	11	8	GSTG1BCF	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			
	0	2	GST0BEC2	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
	2	1	GST0BEC3	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
	3	1	GST0BEC4	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
	4	1	GST0BEC5	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM
	5	1	GST0BEC6	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
	6	1	GST0BEC7	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
	7	1	GST0BEC8	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM
10	12	16	GSTG1BFF	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
	0	3	GST0C0F6	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel__	UINT	STRING	GSKT0301TM
	3	8	GST0BECA	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST0BECB	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
	12	4	GST0BECC	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
11	14	8	GST0BEDC	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
12	15	8	GSTG1BD1	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			





# Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 2 of 4

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37241	R_SciDa__ScienceDataReport__Auxiliary_8_	212	1	49	6	790	Y	54	FIXED	GST0B617	SENTINEL_AUX		Y	37241	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
13	16	0	GST0BECE	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
		2	GST0BECF	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
		3	GST0BED0	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
		4	GST0BED1	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM
		5	GST0BED2	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
		6	GST0BED3	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
		7	GST0BED4	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM
	18	16	GSTG1C00	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
		0	GST0C0F7	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel_	UINT	STRING	GSKT0301TM
		3	GST0BED6	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
		11	GST0BED7	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
		12	GST0BED8	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
		8	GST0BED9	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
14	19	8	GSTG1BD3	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			
15	20	0	GST0BEDA	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
		2	GST0BEDB	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
		3	GST0BEDC	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
		4	GST0BEDD	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM
		5	GST0BEDE	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
		6	GST0BEDF	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
		7	GST0BEE0	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM
	22	16	GSTG1C01	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
		0	GST0C0F8	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel_	UINT	STRING	GSKT0301TM
		3	GST0BEE2	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
		11	GST0BEE3	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
		12	GST0BEE4	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
		8	GST0BEE5	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
16	23	8	GSTG1BD5	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			
17	24	0	GST0BEE6	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
		2	GST0BEE7	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
		3	GST0BEE8	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
		4	GST0BEE9	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 3 of 4

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37241	R_SciDa__ScienceDataReport__Auxiliary_8_	212	1	49	6	790	Y	54	FIXED	GST0B617	SENTINEL_AUX		Y	37241	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
19	5	1	GST0BEEA	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
	6	1	GST0BEEB	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
	7	1	GST0BEEC	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM
	24	16	GSTG1C02	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
	0	3	GST0C0F9	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel_	UINT	STRING	GSKT0301TM
	3	8	GST0BEEE	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST0BEEF	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
20	12	4	GST0BEF0	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
	26	8	GST0BEF1	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
	27	8	GSTG1BD7	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			
21	0	2	GST0BEF2	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
	2	1	GST0BEF3	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
	3	1	GST0BEF4	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
	4	1	GST0BEF5	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM
	5	1	GST0BEF6	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
	6	1	GST0BEF7	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
	7	1	GST0BEF8	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM
	28	16	GSTG1C03	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
	0	3	GST0C0FA	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel_	UINT	STRING	GSKT0301TM
	3	8	GST0BEFA	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
22	11	1	GST0BEFB	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
	12	4	GST0BEFC	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
	30	8	GST0BEFD	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
	31	8	GSTG1BD9	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			
23	0	2	GST0BEFE	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
	2	1	GST0BEFF	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
	3	1	GST0BF00	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
	4	1	GST0BF01	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM
	5	1	GST0BF02	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
	6	1	GST0BF03	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
	7	1	GST0BF04	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 4 of 4

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37241	R_SciDa__ScienceDataReport__Auxiliary_8_	212	1	49	6	790	Y	54	FIXED	GST0B617	SENTINEL_AUX		Y	37241	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
25	32	16	GSTG1C04	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
	0	3	GST0C0FB	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel_	UINT	STRING	GSKT0301TM
	3	8	GST0BF06	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST0BF07	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
	12	4	GST0BF08	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
26	34	8	GST0BF09	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
27	35	8	GSTG1BDB	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			
	0	2	GST0BF0A	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
	2	1	GST0BF0B	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
	3	1	GST0BF0C	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
	4	1	GST0BF0D	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM
	5	1	GST0BF0E	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
	6	1	GST0BF0F	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
	7	1	GST0BF10	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM
28	36	16	GSTG1C05	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
	0	3	GST0C0FC	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel_	UINT	STRING	GSKT0301TM
	3	8	GST0BF12	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST0BF13	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
	12	4	GST0BF14	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
29	38	8	GST0BF15	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
30	39	8	GSTG1BDD	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			
	0	2	GST0BF16	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
	2	1	GST0BF17	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
	3	1	GST0BF18	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
	4	1	GST0BF19	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM
	5	1	GST0BF1A	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
	6	1	GST0BF1B	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
	7	1	GST0BF1C	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM

Summary  
11.02.2013 17:24:43

Differences exist between documents.

**New Document:**

[GSY\\_SCI37241\\_TextualCalibration](#)

10 pages (30 KB)

11.02.2013 17:24:41

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**Old Document:**

[GSY\\_SCI37241\\_TextualCalibration](#)

10 pages (30 KB)

11.02.2013 17:24:41


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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 10

Name: GSKT0168TM Descr: AS

**Referenced by:**

From	To	Text
		GST0BEBF AS
		GST0BECB AS
		GST0BED7 AS
		GST0BEE3 AS
		GST0BEEF AS
		GST0BEFB AS
		GST0BF07 AS
		GST0BF13 AS

0	ANTI-SPOOF_OFF
1	ANTI-SPOOF_ON

Name: GSKT0275TM Descr: MFC\_TS

**Referenced by:**

From	To	Text
		GST0BEC1 MFC_TS
		GST0BECB MFC_TS
		GST0BED9 MFC_TS
		GST0BEE5 MFC_TS
		GST0BEF1 MFC_TS
		GST0BEFD MFC_TS
		GST0BF09 MFC_TS
		GST0BF15 MFC_TS

0	NO_MEASDATA_AV
1	CODE_ACQUISITI
2	CODE_ACQUISITI
3	CODE_TRACKING_
4	CODE_AND_CARRI
5	CODE_AND_CARRI
6	FINAL_TRACKING
7	FINAL_TRACKING
8	FINAL_TRACKING
9	FINAL_TRACKING
10	FINAL_TRACKING
11	FINAL_TRACKING

Name: GSKT0276TM Descr: NDS

**Referenced by:**

From	To	Text
		GST0BEC2 NDS
		GST0BECE NDS
		GST0BEDA NDS
		GST0BEE6 NDS
		GST0BEF2 NDS
		GST0BEFE NDS
		GST0BF0A NDS
		GST0BF16 NDS

0	NOT_SYNC
1	SYNC_NAVDATA_N
2	INVALID
3	SYNC_NAVDATA_I



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 2 of 10

Name: GSKT0277TM Descr: C3

**Referenced by:**

From	To	Text
		GST0BEC3 C3
		GST0BECF C3
		GST0BEDB C3
		GST0BEE7 C3
		GST0BEF3 C3
		GST0BEFF C3
		GST0BF0B C3
		GST0BF17 C3

0	NO_CODE_LOCK
1	P2_CODE_LOCK

Name: GSKT0278TM Descr: C2

**Referenced by:**

From	To	Text
		GST0BEC4 C2
		GST0BED0 C2
		GST0BEDC C2
		GST0BEE8 C2
		GST0BEF4 C2
		GST0BF00 C2
		GST0BF0C C2
		GST0BF18 C2

0	NO_CODE_LOCK
1	P1CM_CODE_LOCK

Name: GSKT0279TM Descr: C1

**Referenced by:**

From	To	Text
		GST0BEC5 C1
		GST0BED1 C1
		GST0BEDD C1
		GST0BEE9 C1
		GST0BEF5 C1
		GST0BF01 C1
		GST0BF0D C1
		GST0BF19 C1

0	NO_CODE_LOCK
1	CA_CODE_LOCK



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 3 of 10

Name: GSKT0280TM Descr: A3

**Referenced by:**

From To Text

GST0BEC6 A3  
GST0BED2 A3  
GST0BEDE A3  
GST0BEEA A3  
GST0BEF6 A3  
GST0BF02 A3  
GST0BF0E A3  
GST0BF1A A3

0 NO\_CARRIER\_LOC  
1 L2\_CARRIER\_LOC

Name: GSKT0281TM Descr: A2

**Referenced by:**

From To Text

GST0BEC7 A2  
GST0BEC8 A1  
GST0BED3 A2  
GST0BED4 A1  
GST0BEDF A2  
GST0BEE0 A1  
GST0BEEB A2  
GST0BEEC A1  
GST0BEF7 A2  
GST0BEF8 A1  
GST0BF03 A2  
GST0BF04 A1  
GST0BF0F A2  
GST0BF10 A1  
GST0BF1B A2  
GST0BF1C A1

0 NO\_CARRIER\_LOC  
1 L1\_CARRIER\_LOC



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 4 of 10

Name: GSKT0293TM Descr: SID

Referenced by:  
GST0B617 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST

---





# Sentinel-2

## SRDB Database Extract

### TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 5 of 10

Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0BEB7 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 6 of 10

81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 7 of 10

131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 8 of 10

181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 9 of 10

231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

Name: GSKT0299TM Descr: V

Referenced by:  
GST0BEBB V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

Name: GSKT0300TM Descr: R\_MODE

Referenced by:  
GST0BEBB R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 10 of 10

Name: GSKT0301TM Descr: SCHEME

**Referenced by:**

From To Text

GST0C0F5 SCHEME  
GST0C0F6 SCHEME  
GST0C0F7 SCHEME  
GST0C0F8 SCHEME  
GST0C0F9 SCHEME  
GST0C0FA SCHEME  
GST0C0FB SCHEME  
GST0C0FC SCHEME

0 L1CA-L1PY-L2PY  
1 L1CA-L1CA  
2 L1CA-L2CM

---

Summary  
11.02.2013 17:25:00

Differences exist between documents.

**New Document:**

[SSY\\_HK\\_35501](#)

1 pages (19 KB)

11.02.2013 17:24:59

Used to display results.

**Old Document:**

[SSY\\_HK\\_35501](#)

1 pages (19 KB)

11.02.2013 17:24:59


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# Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 1

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35501	TM_ADB_1		3,25	37	6	598	Y	53	FIXED	SST01000	105		Y	35501	ENABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	SST01000	SID_1	ID of the structure	UINT	INTEGER	Z_IDENTITY
2	1	32	SST00001	qv1_1	vector part of altitude quaternion	SINT	REAL	SSKP0001TM
3	5	32	SST00002	qv2_1	vector part of altitude quaternion	SINT	REAL	SSKP0001TM
4	9	32	SST00003	qv3_1	vector part of altitude quaternion	SINT	REAL	SSKP0001TM
5	13	32	SST00004	qs_1	vector part of altitude quaternion	SINT	REAL	SSKP0001TM
6	17	16	SST00005	rateX_1	angular rate in BRF	SINT	REAL	SSKP0002TM
7	19	16	SST00006	rateY_1	angular rate in BRF	SINT	REAL	SSKP0002TM
8	21	16	SST00007	rateZ_1	angular rate in BRF	SINT	REAL	SSKP0002TM
9	23	48	SST00008	TimeStamp_1	Time stamp of the center of integration associated with the attitude	UINT	INTEGER	SSKP0200TM
10	29	16	SST00009	julianDate_1	Julian date used for precession correction	UINT	INTEGER	Z_IDD
11	31	16	SST00010	vVectorSciX_1	X coordinate of velocity vector	SINT	REAL	SSKP0004TM
12	33	16	SST00011	vVectorSciY_1	Y coordinate of velocity vector	SINT	REAL	SSKP0004TM
13	35	16	SST00012	vVectorSciZ_1	Z coordinate of velocity vector	SINT	REAL	SSKP0004TM
14	37	8	SSTG0001	GloPar1ADB_1	Global Parameter 1 ADB			
	0	3	SSTD0013	altitQuality_1	altitude quality	UINT	STRING	SSKT0005TM
	3	1	SSTD0014	isPrecCorr_1	if set to 1, precession correction applied	UINT	STRING	SSKT0006TM
	4	1	SSTD0015	isAbberCorr_1	if set to 1, aberration correction applied	UINT	STRING	SSKT0006TM
	5	2	SSTD0016	rateQuality_1	rate quality	UINT	STRING	SSKT0007TM
	7	1	SSTD0017	isValidRate_1	if set to 1, rate information valid	UINT	STRING	SSKT0006TM
15	38	8	SST01017	attQualityIx_1	sum of single-star qualities of attitude stars	UINT	INTEGER	Z_IDENTITY



Summary  
11.02.2013 17:25:16

Differences exist between documents.

**New Document:**

[SSY\\_HK\\_35501\\_NumericalCalibration](#)

1 pages (16 KB)

11.02.2013 17:25:15

Used to display results.

**Old Document:**

[SSY\\_HK\\_35501\\_NumericalCalibration](#)

1 pages (16 KB)

11.02.2013 17:25:15

[Get started: first change is on page 1.](#)

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# Sentinel-2 SRDB Database Extract

## TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2 . 77  
Page: 1 of 1

Name: SSKP0001TM Descr: attitude

Unit:

X

Y

Referenced by:

SST00001 qv1\_1  
SST00002 qv2\_1  
SST00003 qv3\_1  
SST00004 qs\_1

Modelname: GENERIC

-2147483648

-2

2147483647

2

Name: SSKP0002TM Descr: angular rate

Unit: dg/s

X

Y

Referenced by:

SST00005 rateX\_1  
SST00006 rateY\_1  
SST00007 rateZ\_1

Modelname: GENERIC

-32768

-16

32767

16

Name: SSKP0004TM Descr: velocity vector

Unit: m/s

X

Y

Referenced by:

SST00010 vVectorSciX\_1  
SST00011 vVectorSciY\_1  
SST00012 vVectorSciZ\_1

Modelname: GENERIC

-32768

-2342128.578

32767

2342057.102

Name: SSKP0200TM Descr: Time Stamp

Unit: s

X

Y

Referenced by:

SST00008 TimeStamp\_1

Modelname: GENERIC

0

0

281474967000000

4294967296

Name: Z\_IDD Descr: Identity day [d]

Unit: d

X

Y

Referenced by:

SST00009 julianDate\_1

Modelname: GENERIC

Summary  
11.02.2013 17:25:34

Differences exist between documents.

**New Document:**

[SSY\\_HK\\_35501\\_TextualCalibration](#)

1 pages (16 KB)

11.02.2013 17:25:33

Used to display results.

**Old Document:**

[SSY\\_HK\\_35501\\_TextualCalibration](#)

1 pages (16 KB)

11.02.2013 17:25:32

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# Sentinel-2 SRDB Database Extract TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2, 77  
Page: 1 of 1

Name: SSKT0005TM Descr: attitude quality

Referenced by:  
SSTD0013 altitQuality\_1

From	To	Text
0		NOATTITUDE
1		APRIORIATT
5		COARSEATT
6		UNCONFATT
7		VALIDATT

Name: SSKT0006TM Descr: applied Y/N

Referenced by:  
SSTD0014 isPrecCorr\_1  
SSTD0015 isAbberCorr\_1  
SSTD0017 isValidRate\_1

From	To	Text
0		NOTAPPLIED
1		APPLIED

Name: SSKT0007TM Descr: rate quality

Referenced by:  
SSTD0016 rateQuality\_1

From	To	Text
0		NORATE
1		COARSERATE
2		FINERATE
3		FILTEREDRATE

Summary  
11.02.2013 17:25:50

Differences exist between documents.

**New Document:**

[SSY\\_HK\\_35502](#)

2 pages (24 KB)

11.02.2013 17:25:48

Used to display results.

**Old Document:**

[SSY\\_HK\\_35502](#)

2 pages (24 KB)

11.02.2013 17:25:48

[Get started: first change is on page 1.](#)

No pages were deleted

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35502	TM_SDB_1	3	25	37	4	596	Y	59	FIXED	SST01000	1		Y	35502	ENABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	SST01000	SID_1	ID of the structure	UINT	INTEGER	Z_IDENTITY
2	1	16	SST00018	cycle_1	STR internal cycle number	UINT	INTEGER	Z_IDENTITY
3	3	48	SST00019	cycStartTimSt_1	Time stamp for cycle start	UINT	INTEGER	Z_IDENTITY
4	9	8	SSTG0002	GloPar1SDB_1	Global Parameter 1 SDB			
	0	2	SSTD0020	cycleTriggerS_1	0: timer; 1: preprocessor; 2: external	UINT	STRING	SSKT0008TM
	2	3	SSTD0021	opMode_1	STR operating mode	UINT	STRING	SSKT0009TM
	5	1	SSTD0022	isStreakMode_1	1: streak processing mode is active	UINT	STRING	XXKT0027TM
	6	2	SSTD0023	tecMode_1	Thermo electric cooler mode	UINT	STRING	SSKT0010TM
5	10	8	SSTG0003	GloPar2SDB_1	Global Parameter 2 SDB			
	0	1	SSTD0024	EepromErrApp_1	1: error in application part on EEPROM	UINT	STRING	SSKT0011TM
	1	1	SSTD0025	EepromErrCal_1	1: error in calibration data part on EEPROM	UINT	STRING	SSKT0011TM
	2	1	SSTD0026	ramError_1	1:RAM failure	UINT	STRING	SSKT0011TM
	3	1	SSTD0027	interfaceError_1	1:failure during interface initialisation	UINT	STRING	SSKT0011TM
	4	1	SSTD0028	watchdogError_1	1:Reboot cause by watchdog timer	UINT	STRING	SSKT0011TM
	5	1	SSTD0029	synchError_1	1:External synchronisation failed	UINT	STRING	SSKT0011TM
	6	1	SSTD0030	timingError_1	1:processing exceeded timing constraints	UINT	STRING	SSKT0011TM
	7	1	SSTD0031	fifoError_1	1:FIFO capacity exceeded	UINT	STRING	SSKT0011TM
6	11	16	SST00032	targetTemp_1	target temperature	SINT	REAL	SSKP0012TM
7	13	16	SST00033	tempDetector_1	detector temperature	SINT	REAL	SSKP0012TM
8	15	16	SST00034	tempOptics_1	optics temperature	SINT	REAL	SSKP0012TM
9	17	16	SST00035	tempHousing_1	housing temperature	SINT	REAL	SSKP0012TM
10	19	8	SST00036	numEdacErrors_1	number of errors detected by RAM EDAC	UINT	INTEGER	Z_IDENTITY
11	20	8	SSTG0004	GloPar3SDB_1	Global Parameter 3 SDB			
	0	2	SSTD0037	syncSource_1	source selected for external synchronization	UINT	STRING	SSKT0013TM
	2	6	SSTD0038	secSinTimSync_1	number of seconds since latest synchron.	UINT	INTEGER	Z_IDS
12	21	16	SST00039	meanBackgr_1	mean background	SINT	INTEGER	Z_IDENTITY
13	23	16	SST00040	numObjDetected_1	number of detected objects	UINT	INTEGER	Z_IDENTITY
14	25	16	SST00041	numObjAcquired_1	number of acquired objects	UINT	INTEGER	Z_IDENTITY
15	27	16	SST00042	numSinglePixR_1	number of single pixels removed by h/w	UINT	INTEGER	Z_IDENTITY
16	29	16	SST00043	numEoDetected_1	number of extended objects detected by h/w	UINT	INTEGER	Z_IDENTITY
17	31	8	SST00044	numStarsTracka_1	number of trackable stars	UINT	INTEGER	Z_IDENTITY



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 2 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35502	TM_SDB_1	3	25	37	4	596	Y	59	FIXED	SST01000	1		Y	35502	ENABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
18	32	8	SST00045	numStarsTrack_1	number of stars tracked	UINT	INTEGER	Z_IDENTITY
19	33	8	SST00046	numStarsForRa_1	number of stars used for rate determination	UINT	INTEGER	Z_IDENTITY
20	34	8	SST00047	numStarsIdent_1	number of identified stars	UINT	INTEGER	Z_IDENTITY
21	35	8	SST00048	numStarsUsedA_1	number of stars used for altit. Determinisation	UINT	INTEGER	Z_IDENTITY
22	36	8	SST00049	numLostTrack_1	number of fall-backs from NAT to AAD	UINT	INTEGER	Z_IDENTITY
23	37	16	SST00050	latestCommId_1	ID of latest recieved command	UINT	INTEGER	Z_IDENTITY
24	39	8	SST00051	latestCmdRes_1	result of execution of the latest recieved command	UINT	INTEGER	Z_IDENTITY
25	40	8	SST00052	numTcErrors_1	number of telecommand errors	UINT	INTEGER	Z_IDENTITY
26	41	8	SSTG0005	GloPar4SDB_1	Global Parameter 4 SDB			
	0	4	SSTD0053	AttResult_1	last result of altitude determination	SINT	STRING	SSKT0014TM
	4	4	SSTD0054	IdResult_1	last result of star identification error	SINT	STRING	SSKT0015TM
27	42	8	SST00055	tlnt_1	integration time	UINT	INTEGER	Z_IDMS
28	43	16	SST00056	offset_1	binarisation time	UINT	INTEGER	Z_IDENTITY

Summary  
11.02.2013 17:26:09

Differences exist between documents.

**New Document:**

[SSY\\_HK\\_35502\\_NumericalCalibration](#)

1 pages (16 KB)

11.02.2013 17:26:08

Used to display results.

**Old Document:**

[SSY\\_HK\\_35502\\_NumericalCalibration](#)

1 pages (15 KB)

11.02.2013 17:26:07

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Sentinel-2  
SRDB Database Extract  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2 . 77  
Page: 1 of 1

Name: SSKP0012TM Descr: temperature1

Unit: degC

X Y

Referenced by:

SST00032 targetTemp\_1  
SST00033 tempDetector\_1  
SST00034 tempOptics\_1  
SST00035 tempHousing\_1

Modelname: GENERIC

-32768 -3276.8  
-32767 -3276.7

Name: Z\_IDMS Descr: Identity [ms]

Unit: ms

X Y

Referenced by:

SST00055 tInt\_1

Modelname: GENERIC

Name: Z\_IDS Descr: Identity [s]

Unit: s

X Y

Referenced by:

SSTD0038 secSinTimSync\_1

Modelname: GENERIC

Summary  
11.02.2013 17:26:25

Differences exist between documents.

**New Document:**

[SSY\\_HK\\_35502\\_TextualCalibration](#)

2 pages (18 KB)

11.02.2013 17:26:23

Used to display results.

**Old Document:**

[SSY\\_HK\\_35502\\_TextualCalibration](#)

2 pages (18 KB)

11.02.2013 17:26:23


[Get started: first change is on page 1.](#)


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# Sentinel-2

## SRDB Database Extract

### TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 2

Name: SSKT0008TM Descr: trigger source

Referenced by:  
SSTD0020 cycleTriggerS\_1

From	To	Text
0		TIMER
1		PREPROCESSOR
2		EXTERNAL

Name: SSKT0009TM Descr: operation mode

Referenced by:  
SSTD0021 opMode\_1

From	To	Text
0		MODEBOOT
2		MODESTANDBY
3		MODEPHOTO
4		MODEAADF
5		MODEAADW
7		MODENAT

Name: SSKT0010TM Descr: tech mode

Referenced by:  
SSTD0023 tecMode\_1

From	To	Text
0		COOLEROFF
1		COOLERCONTR
2		COOLERMAX

Name: SSKT0011TM Descr: error N/Y

Referenced by:  
SSTD0024 EepromErrApp\_1  
SSTD0025 EepromErrCal\_1  
SSTD0026 ramError\_1  
SSTD0027 interfaceError\_1  
SSTD0028 watchdogError\_1  
SSTD0029 synchError\_1  
SSTD0030 timingError\_1  
SSTD0031 fifoError\_1

From	To	Text
0		NOERROR
1		ERROR

Name: SSKT0013TM Descr: synch source

Referenced by:  
SSTD0037 syncSource\_1

From	To	Text
0		SYNCSOURCENONE
1		SYNCSOURCEPRIM
2		SYNCSOURCESEC
3		SYNCSOURCEANY



Sentinel-2  
SRDB Database Extract  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2, 77  
Page: 2 of 2

Name: SSKT0014TM Descr: attitude result

Referenced by:  
SSTD0053 AttResult\_1

From	To	Text
-7	-1	ATTFAILED
0	0	ATTNOTENOSTARS
1	1	ATTSUCCESS
2	2	ATTREFINED

Name: SSKT0015TM Descr: last star ident

Referenced by:  
SSTD0054 IdResult\_1

From	To	Text
-7	-2	STARIDFAILED
-1	-1	NOTENSTARS
0	0	STIDDLE
1	1	STIDSUCCESS
2	2	STIDRUNNING

Name: XXKT0027TM Descr: Inactive\_Active

Referenced by:  
SSTD0022 isStreakMode\_1

From	To	Text
0		INACTIVE
1		ACTIVE

Summary  
11.02.2013 17:26:42

Differences exist between documents.

**New Document:**

[SSY\\_HK\\_35503](#)

4 pages (27 KB)

11.02.2013 17:26:39

Used to display results.

**Old Document:**

[SSY\\_HK\\_35503](#)

4 pages (27 KB)

11.02.2013 17:26:39

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 4

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35503	TM_TDB_1	3	25	37	6	598	Y	161	FIXED	SST01000	106		Y	35503	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	SST01000	SID_1	ID of the structure	UINT	INTEGER	Z_IDENTITY
2	1	24	SST00057	S1_TA_1	tangent value of star 1 alpha coordinate	SINT	REAL	SSKP0016TM
3	4	24	SST00058	S1_TB_1	tangent value of star 1 beta coordinate	SINT	REAL	SSKP0016TM
4	7	24	SST00059	S2_TA_1	tangent value of star 2 alpha coordinate	SINT	REAL	SSKP0016TM
5	10	24	SST00060	S2_TB_1	tangent value of star 2 beta coordinate	SINT	REAL	SSKP0016TM
6	13	24	SST00061	S3_TA_1	tangent value of star 3 alpha coordinate	SINT	REAL	SSKP0016TM
7	16	24	SST00062	S3_TB_1	tangent value of star 3 beta coordinate	SINT	REAL	SSKP0016TM
8	19	24	SST00063	S4_TA_1	tangent value of star 4 alpha coordinate	SINT	REAL	SSKP0016TM
9	22	24	SST00064	S4_TB_1	tangent value of star 4 beta coordinate	SINT	REAL	SSKP0016TM
10	25	24	SST00065	S5_TA_1	tangent value of star 5 alpha coordinate	SINT	REAL	SSKP0016TM
11	28	24	SST00066	S5_TB_1	tangent value of star 5 beta coordinate	SINT	REAL	SSKP0016TM
12	31	24	SST00067	S6_TA_1	tangent value of star 6 alpha coordinate	SINT	REAL	SSKP0016TM
13	34	24	SST00068	S6_TB_1	tangent value of star 6 beta coordinate	SINT	REAL	SSKP0016TM
14	37	24	SST00069	S7_TA_1	tangent value of star 7 alpha coordinate	SINT	REAL	SSKP0016TM
15	40	24	SST00070	S7_TB_1	tangent value of star 7 beta coordinate	SINT	REAL	SSKP0016TM
16	43	24	SST00071	S8_TA_1	tangent value of star 8 alpha coordinate	SINT	REAL	SSKP0016TM
17	46	24	SST00072	S8_TB_1	tangent value of star 8 beta coordinate	SINT	REAL	SSKP0016TM
18	49	24	SST00073	S9_TA_1	tangent value of star 9 alpha coordinate	SINT	REAL	SSKP0016TM
19	52	24	SST00074	S9_TB_1	tangent value of star 9 beta coordinate	SINT	REAL	SSKP0016TM
20	55	24	SST00075	S10_TA_1	tangent value of star 10 alpha coordinate	SINT	REAL	SSKP0016TM
21	58	24	SST00076	S10_TB_1	tangent value of star 10 beta coordinate	SINT	REAL	SSKP0016TM
22	61	24	SST00077	S11_TA_1	tangent value of star 11 alpha coordinate	SINT	REAL	SSKP0016TM
23	64	24	SST00078	S11_TB_1	tangent value of star 11 beta coordinate	SINT	REAL	SSKP0016TM
24	67	24	SST00079	S12_TA_1	tangent value of star 12 alpha coordinate	SINT	REAL	SSKP0016TM
25	70	24	SST00080	S12_TB_1	tangent value of star 12 beta coordinate	SINT	REAL	SSKP0016TM
26	73	24	SST00081	S13_TA_1	tangent value of star 13 alpha coordinate	SINT	REAL	SSKP0016TM
27	76	24	SST00082	S13_TB_1	tangent value of star 13 beta coordinate	SINT	REAL	SSKP0016TM
28	79	24	SST00083	S14_TA_1	tangent value of star 14 alpha coordinate	SINT	REAL	SSKP0016TM



# Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 2 of 4

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35503	TM_TDB_1	3	25	37	6	598	Y	161	FIXED	SST01000	106		Y	35503	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.	
29	82	24	SST00084	S14_TB_1	tangent value of star 14 beta coordinate	SINT	REAL	SSKP0016TM	
30	85	24	SST00085	S15_TA_1	tangent value of star 15 alpha coordinate	SINT	REAL	SSKP0016TM	
31	88	24	SST00086	S15_TB_1	tangent value of star 15 beta coordinate	SINT	REAL	SSKP0016TM	
32	91	24	SST00087	S16_TA_1	tangent value of star 16 alpha coordinate	SINT	REAL	SSKP0016TM	
33	94	24	SST00088	S16_TB_1	tangent value of star 16 beta coordinate	SINT	REAL	SSKP0016TM	
34	97	16	SST00089	S1_CNR_1	star 1 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
35	99	16	SST00090	S2_CNR_1	star 2 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
36	101	16	SST00091	S3_CNR_1	star 3 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
37	103	16	SST00092	S4_CNR_1	star 4 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
38	105	16	SST00093	S5_CNR_1	star 5 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
39	107	16	SST00094	S6_CNR_1	star 6 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
40	109	16	SST00095	S7_CNR_1	star 7 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
41	111	16	SST00096	S8_CNR_1	star 8 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
42	113	16	SST00097	S9_CNR_1	star 9 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
43	115	16	SST00098	S10_CNR_1	star 10 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
44	117	16	SST00099	S11_CNR_1	star 11 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
45	119	16	SST00100	S12_CNR_1	star 12 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
46	121	16	SST00101	S13_CNR_1	star 13 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
47	123	16	SST00102	S14_CNR_1	star 14 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
48	125	16	SST00103	S15_CNR_1	star 15 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	



# Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 3 of 4

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35503	TM_TDB_1	3	25	37	6	598	Y	161	FIXED	SST01000	106		Y	35503	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
49	127	16	SST00104	S16_CNR_1	star 16 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
50	129	8	SST00105	S1_MAG_1	star 1 instrumental magnitude	SINT	REAL	SSKP0017TM
51	130	8	SST00106	S2_MAG_1	star 2 instrumental magnitude	SINT	REAL	SSKP0017TM
52	131	8	SST00107	S3_MAG_1	star 3 instrumental magnitude	SINT	REAL	SSKP0017TM
53	132	8	SST00108	S4_MAG_1	star 4 instrumental magnitude	SINT	REAL	SSKP0017TM
54	133	8	SST00109	S5_MAG_1	star 5 instrumental magnitude	SINT	REAL	SSKP0017TM
55	134	8	SST00110	S6_MAG_1	star 6 instrumental magnitude	SINT	REAL	SSKP0017TM
56	135	8	SST00111	S7_MAG_1	star 7 instrumental magnitude	SINT	REAL	SSKP0017TM
57	136	8	SST00112	S8_MAG_1	star 8 instrumental magnitude	SINT	REAL	SSKP0017TM
58	137	8	SST00113	S9_MAG_1	star 9 instrumental magnitude	SINT	REAL	SSKP0017TM
59	138	8	SST00114	S10_MAG_1	star 10 instrumental magnitude	SINT	REAL	SSKP0017TM
60	139	8	SST00115	S11_MAG_1	star 11 instrumental magnitude	SINT	REAL	SSKP0017TM
61	140	8	SST00116	S12_MAG_1	star 12 instrumental magnitude	SINT	REAL	SSKP0017TM
62	141	8	SST00117	S13_MAG_1	star 13 instrumental magnitude	SINT	REAL	SSKP0017TM
63	142	8	SST00118	S14_MAG_1	star 14 instrumental magnitude	SINT	REAL	SSKP0017TM
64	143	8	SST00119	S15_MAG_1	star 15 instrumental magnitude	SINT	REAL	SSKP0017TM
65	144	8	SST00120	S16_MAG_1	star 16 instrumental magnitude	SINT	REAL	SSKP0017TM
66	145	16	SSTG0006	GloPar1TDB_1	Global Parameter 1 TDB			
	0	1	SSTD0121	S1_VALID_1	if set to 1 the star 1 data are valid	UINT	STRING	SSKT0018TM
	1	1	SSTD0122	S2_VALID_1	if set to 1 the star 2 data are valid	UINT	STRING	SSKT0018TM
	2	1	SSTD0123	S3_VALID_1	if set to 1 the star 3 data are valid	UINT	STRING	SSKT0018TM
	3	1	SSTD0124	S4_VALID_1	if set to 1 the star 4 data are valid	UINT	STRING	SSKT0018TM
	4	1	SSTD0125	S5_VALID_1	if set to 1 the star 5 data are valid	UINT	STRING	SSKT0018TM
	5	1	SSTD0126	S6_VALID_1	if set to 1 the star 6 data are valid	UINT	STRING	SSKT0018TM
	6	1	SSTD0127	S7_VALID_1	if set to 1 the star 7 data are valid	UINT	STRING	SSKT0018TM
	7	1	SSTD0128	S8_VALID_1	if set to 1 the star 8 data are valid	UINT	STRING	SSKT0018TM
	8	1	SSTD0129	S9_VALID_1	if set to 1 the star 9 data are valid	UINT	STRING	SSKT0018TM
	9	1	SSTD0130	S10_VALID_1	if set to 1 the star 10 data are valid	UINT	STRING	SSKT0018TM
	10	1	SSTD0131	S11_VALID_1	if set to 1 the star 11 data are valid	UINT	STRING	SSKT0018TM
	11	1	SSTD0132	S12_VALID_1	if set to 1 the star 12 data are valid	UINT	STRING	SSKT0018TM





## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 4 of 4

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatn	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35503	TM_TDB_1		3,25	37	6	598	Y	161	FIXED	SST01000	106		Y	35503	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	12	1	SSTD0133	S13_VALID_1	if set to 1 the star 13 data are valid	UINT	STRING	SSKT0018TM
	13	1	SSTD0134	S14_VALID_1	if set to 1 the star 14 data are valid	UINT	STRING	SSKT0018TM
	14	1	SSTD0135	S15_VALID_1	if set to 1 the star 15 data are valid	UINT	STRING	SSKT0018TM
	15	1	SSTD0136	S16_VALID_1	if set to 1 the star 16 data are valid	UINT	STRING	SSKT0018TM

Summary  
11.02.2013 17:26:58

Differences exist between documents.

**New Document:**

[SSY\\_HK\\_35503\\_NumericalCalibration](#)

2 pages (17 KB)

11.02.2013 17:26:57

Used to display results.

**Old Document:**

[SSY\\_HK\\_35503\\_NumericalCalibration](#)

2 pages (17 KB)

11.02.2013 17:26:57

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# Sentinel-2

## SRDB Database Extract

TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2 . 77  
Page: 1 of 2

Name: SSKP0016TM Descr: tangent value

Unit:

X

Y

Referenced by:

SST00057 S1\_TA\_1  
SST00058 S1\_TB\_1  
SST00059 S2\_TA\_1  
SST00060 S2\_TB\_1  
SST00061 S3\_TA\_1  
SST00062 S3\_TB\_1  
SST00063 S4\_TA\_1  
SST00064 S4\_TB\_1  
SST00065 S5\_TA\_1  
SST00066 S5\_TB\_1  
SST00067 S6\_TA\_1  
SST00068 S6\_TB\_1  
SST00069 S7\_TA\_1  
SST00070 S7\_TB\_1  
SST00071 S8\_TA\_1  
SST00072 S8\_TB\_1  
SST00073 S9\_TA\_1  
SST00074 S9\_TB\_1  
SST00075 S10\_TA\_1  
SST00076 S10\_TB\_1  
SST00077 S11\_TA\_1  
SST00078 S11\_TB\_1  
SST00079 S12\_TA\_1  
SST00080 S12\_TB\_1  
SST00081 S13\_TA\_1  
SST00082 S13\_TB\_1  
SST00083 S14\_TA\_1  
SST00084 S14\_TB\_1  
SST00085 S15\_TA\_1  
SST00086 S15\_TB\_1  
SST00087 S16\_TA\_1  
SST00088 S16\_TB\_1

Modelname: GENERIC

-8388608

-1

8388607

1



**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2 . 77  
Page: 2 of 2

**Name:** SSKP0017TM **Descr:** instrumental magnitude

**Unit:** X Y

**Referenced by:**

SST00105 S1\_MAG\_1  
SST00106 S2\_MAG\_1  
SST00107 S3\_MAG\_1  
SST00108 S4\_MAG\_1  
SST00109 S5\_MAG\_1  
SST00110 S6\_MAG\_1  
SST00111 S7\_MAG\_1  
SST00112 S8\_MAG\_1  
SST00113 S9\_MAG\_1  
SST00114 S10\_MAG\_1  
SST00115 S11\_MAG\_1  
SST00116 S12\_MAG\_1  
SST00117 S13\_MAG\_1  
SST00118 S14\_MAG\_1  
SST00119 S15\_MAG\_1  
SST00120 S16\_MAG\_1

---

**Modelname:** GENERIC

-128 12.8  
127 17.7

---

Summary  
11.02.2013 17:27:15

Differences exist between documents.

**New Document:**

[SSY\\_HK\\_35503\\_TextualCalibration](#)

1 pages (15 KB)

11.02.2013 17:27:13

Used to display results.

**Old Document:**

[SSY\\_HK\\_35503\\_TextualCalibration](#)

1 pages (15 KB)

11.02.2013 17:27:13


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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 1

Name: SSKT0018TM Descr: valid N/Y

**Referenced by:**

From To Text

SSTD0121 S1\_VALID\_1  
SSTD0122 S2\_VALID\_1  
SSTD0123 S3\_VALID\_1  
SSTD0124 S4\_VALID\_1  
SSTD0125 S5\_VALID\_1  
SSTD0126 S6\_VALID\_1  
SSTD0127 S7\_VALID\_1  
SSTD0128 S8\_VALID\_1  
SSTD0129 S9\_VALID\_1  
SSTD0130 S10\_VALID\_1  
SSTD0131 S11\_VALID\_1  
SSTD0132 S12\_VALID\_1  
SSTD0133 S13\_VALID\_1  
SSTD0134 S14\_VALID\_1  
SSTD0135 S15\_VALID\_1  
SSTD0136 S16\_VALID\_1

0 NOTVALID  
1 VALID

Summary  
11.02.2013 17:27:31

Differences exist between documents.

**New Document:**

[SSY\\_HK\\_35651](#)

1 pages (19 KB)

11.02.2013 17:27:30

Used to display results.

**Old Document:**

[SSY\\_HK\\_35651](#)

1 pages (19 KB)

11.02.2013 17:27:29


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# Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 1

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35651	TM_ADB_2	3	25	38	6	614	Y	53	FIXED	SST04000	105		Y	35651	ENABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	SST04000	SID_2	ID of the structure	UINT	INTEGER	Z_IDENTITY
2	1	32	SST03001	qv1_2	vector part of altitude quaternion	SINT	REAL	SSKP0001TM
3	5	32	SST03002	qv2_2	vector part of altitude quaternion	SINT	REAL	SSKP0001TM
4	9	32	SST03003	qv3_2	vector part of altitude quaternion	SINT	REAL	SSKP0001TM
5	13	32	SST03004	qs_2	vector part of altitude quaternion	SINT	REAL	SSKP0001TM
6	17	16	SST03005	rateX_2	angular rate in BRF	SINT	REAL	SSKP0002TM
7	19	16	SST03006	rateY_2	angular rate in BRF	SINT	REAL	SSKP0002TM
8	21	16	SST03007	rateZ_2	angular rate in BRF	SINT	REAL	SSKP0002TM
9	23	48	SST03008	TimeStamp_2	Time stamp of the center of integration associated with the attitude	UINT	INTEGER	SSKP0200TM
10	29	16	SST03009	julianDate_2	Julian date used for precession correction	UINT	INTEGER	Z_IDD
11	31	16	SST03010	vVectorSciX_2	X coordinate of velocity vector	SINT	REAL	SSKP0004TM
12	33	16	SST03011	vVectorSciY_2	Y coordinate of velocity vector	SINT	REAL	SSKP0004TM
13	35	16	SST03012	vVectorSciZ_2	Z coordinate of velocity vector	SINT	REAL	SSKP0004TM
14	37	8	SSTG3001	GloPar1ADB_2	Global Parameter 1 ADB			
	0	3	SSTD3013	altitQuality_2	altitude quality	UINT	STRING	SSKT0005TM
	3	1	SSTD3014	isPrecCorr_2	if set to 1, precession correction applied	UINT	STRING	SSKT0006TM
	4	1	SSTD3015	isAbberCorr_2	if set to 1, aberration correction applied	UINT	STRING	SSKT0006TM
	5	2	SSTD3016	rateQuality_2	rate quality	UINT	STRING	SSKT0007TM
	7	1	SSTD3017	isValidRate_2	if set to 1, rate information valid	UINT	STRING	SSKT0006TM
15	38	8	SST04017	attQualityIx_2	sum of single-star qualities of attitude stars	UINT	INTEGER	Z_IDENTITY



Summary  
11.02.2013 17:27:47

Differences exist between documents.

**New Document:**

[SSY\\_HK\\_35651\\_NumericalCalibration](#)

1 pages (16 KB)

11.02.2013 17:27:46

Used to display results.

**Old Document:**

[SSY\\_HK\\_35651\\_NumericalCalibration](#)

1 pages (16 KB)

11.02.2013 17:27:45


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# Sentinel-2 SRDB Database Extract

## TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2 . 77  
Page: 1 of 1

Name: SSKP0001TM Descr: attitude

Unit:

X

Y

Referenced by:

SST03001 qv1\_2  
SST03002 qv2\_2  
SST03003 qv3\_2  
SST03004 qs\_2

Modelname: GENERIC

-2147483648

-2

2147483647

2

Name: SSKP0002TM Descr: angular rate

Unit: dg/s

X

Y

Referenced by:

SST03005 rateX\_2  
SST03006 rateY\_2  
SST03007 rateZ\_2

Modelname: GENERIC

-32768

-16

32767

16

Name: SSKP0004TM Descr: velocity vector

Unit: m/s

X

Y

Referenced by:

SST03010 vVectorSciX\_2  
SST03011 vVectorSciY\_2  
SST03012 vVectorSciZ\_2

Modelname: GENERIC

-32768

-2342128.578

32767

2342057.102

Name: SSKP0200TM Descr: Time Stamp

Unit: s

X

Y

Referenced by:

SST03008 TimeStamp\_2

Modelname: GENERIC

0

0

281474967000000

4294967296

Name: Z\_IDD Descr: Identity day [d]

Unit: d

X

Y

Referenced by:

SST03009 julianDate\_2

Modelname: GENERIC

Summary  
11.02.2013 17:28:03

Differences exist between documents.

**New Document:**

[SSY\\_HK\\_35651\\_TextualCalibration](#)

1 pages (16 KB)

11.02.2013 17:28:01

Used to display results.

**Old Document:**

[SSY\\_HK\\_35651\\_TextualCalibration](#)

1 pages (16 KB)

11.02.2013 17:28:01


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# Sentinel-2 SRDB Database Extract TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2, 77  
Page: 1 of 1

Name: SSKT0005TM Descr: attitude quality

Referenced by:  
SSTD3013 altitQuality\_2

From	To	Text
0		NOATTITUDE
1		APRIORIATT
5		COARSEATT
6		UNCONFATT
7		VALIDATT

Name: SSKT0006TM Descr: applied Y/N

Referenced by:  
SSTD3014 isPrecCorr\_2  
SSTD3015 isAbberCorr\_2  
SSTD3017 isValidRate\_2

From	To	Text
0		NOTAPPLIED
1		APPLIED

Name: SSKT0007TM Descr: rate quality

Referenced by:  
SSTD3016 rateQuality\_2

From	To	Text
0		NORATE
1		COARSERATE
2		FINERATE
3		FILTEREDRATE

Summary  
11.02.2013 17:28:20

Differences exist between documents.

**New Document:**

[SSY\\_HK\\_35652](#)

2 pages (24 KB)

11.02.2013 17:28:19

Used to display results.

**Old Document:**

[SSY\\_HK\\_35652](#)

2 pages (24 KB)

11.02.2013 17:28:18

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No pages were deleted

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35652	TM_SDB_2	3	25	38	4	612	Y	59	FIXED	SST04000	1		Y	35652	ENABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	SST04000	SID_2	ID of the structure	UINT	INTEGER	Z_IDENTITY
2	1	16	SST03018	cycle_2	STR internal cycle number	UINT	INTEGER	Z_IDENTITY
3	3	48	SST03019	cycStartTimSt_2	Time stamp for cycle start	UINT	INTEGER	Z_IDENTITY
4	9	8	SSTG3002	GloPar1SDB_2	Global Parameter 1 SDB			
	0	2	SSTD3020	cycleTriggerS_2	0: timer; 1: preprocessor; 2: external	UINT	STRING	SSKT0008TM
	2	3	SSTD3021	opMode_2	STR operating mode	UINT	STRING	SSKT0009TM
	5	1	SSTD3022	isStreakMode_2	1: streak processing mode is active	UINT	STRING	XXKT0027TM
	6	2	SSTD3023	tecMode_2	Thermo electric cooler mode	UINT	STRING	SSKT0010TM
5	10	8	SSTG3003	GloPar2SDB_2	Global Parameter 2 SDB			
	0	1	SSTD3024	EepromErrApp_2	1: error in application part on EEPROM	UINT	STRING	SSKT0011TM
	1	1	SSTD3025	EepromErrCal_2	1: error in calibration data part on EEPROM	UINT	STRING	SSKT0011TM
	2	1	SSTD3026	ramError_2	1:RAM failure	UINT	STRING	SSKT0011TM
	3	1	SSTD3027	interfaceError_2	1:failure during interface initialisation	UINT	STRING	SSKT0011TM
	4	1	SSTD3028	watchdogError_2	1:Reboot cause by watchdog timer	UINT	STRING	SSKT0011TM
	5	1	SSTD3029	synchError_2	1:External synchronisation failed	UINT	STRING	SSKT0011TM
	6	1	SSTD3030	timingError_2	1:processing exceeded timing constraints	UINT	STRING	SSKT0011TM
	7	1	SSTD3031	fifoError_2	1:FIFO capacity exceeded	UINT	STRING	SSKT0011TM
6	11	16	SST03032	targetTemp_2	target temperature	SINT	REAL	SSKP0012TM
7	13	16	SST03033	tempDetector_2	detector temperature	SINT	REAL	SSKP0012TM
8	15	16	SST03034	tempOptics_2	optics temperature	SINT	REAL	SSKP0012TM
9	17	16	SST03035	tempHousing_2	housing temperature	SINT	REAL	SSKP0012TM
10	19	8	SST03036	numEdacErrors_2	number of errors detected by RAM EDAC	UINT	INTEGER	Z_IDENTITY
11	20	8	SSTG3004	GloPar3SDB_2	Global Parameter 3 SDB			
	0	2	SSTD3037	syncSource_2	source selected for external synchronization	UINT	STRING	SSKT0013TM
	2	6	SSTD3038	secSinTimSync_2	number of seconds since latest synchron.	UINT	INTEGER	Z_IDS
12	21	16	SST03039	meanBackgr_2	mean background	SINT	INTEGER	Z_IDENTITY
13	23	16	SST03040	numObjDetected_2	number of detected objects	UINT	INTEGER	Z_IDENTITY
14	25	16	SST03041	numObjAcquired_2	number of acquired objects	UINT	INTEGER	Z_IDENTITY
15	27	16	SST03042	numSinglePixR_2	number of single pixels removed by h/w	UINT	INTEGER	Z_IDENTITY
16	29	16	SST03043	numEoDetected_2	number of extended objects detected by h/w	UINT	INTEGER	Z_IDENTITY
17	31	8	SST03044	numStarsTracka_2	number of trackable stars	UINT	INTEGER	Z_IDENTITY



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 2 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35652	TM_SDB_2	3	25	38	4	612	Y	59	FIXED	SST04000	1		Y	35652	ENABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
18	32	8	SST03045	numStarsTrack_2	number of stars tracked	UINT	INTEGER	Z_IDENTITY
19	33	8	SST03046	numStarsForRa_2	number of stars used for rate determination	UINT	INTEGER	Z_IDENTITY
20	34	8	SST03047	numStarsIdent_2	number of identified stars	UINT	INTEGER	Z_IDENTITY
21	35	8	SST03048	numStarsUsedA_2	number of stars used for altit. Determinisation	UINT	INTEGER	Z_IDENTITY
22	36	8	SST03049	numLostTrack_2	number of fall-backs from NAT to AAD	UINT	INTEGER	Z_IDENTITY
23	37	16	SST03050	latestCommId_2	ID of latest recieved command	UINT	INTEGER	Z_IDENTITY
24	39	8	SST03051	latestCmdRes_2	result of execution of the latest recieved command	UINT	INTEGER	Z_IDENTITY
25	40	8	SST03052	numTcErrors_2	number of telecommand errors	UINT	INTEGER	Z_IDENTITY
26	41	8	SSTG3005	GloPar4SDB_2	Global Parameter 4 SDB			
	0	4	SSTD3053	AttResult_2	last result of altitude determination	SINT	STRING	SSKT0014TM
	4	4	SSTD3054	IdResult_2	last result of star identification error	SINT	STRING	SSKT0015TM
27	42	8	SST03055	tlnt_2	integration time	UINT	INTEGER	Z_IDMS
28	43	16	SST03056	offset_2	binarisation time	UINT	INTEGER	Z_IDENTITY

Summary  
11.02.2013 17:28:38

Differences exist between documents.

**New Document:**

[SSY\\_HK\\_35652\\_NumericalCalibration](#)

1 pages (16 KB)

11.02.2013 17:28:37

Used to display results.

**Old Document:**

[SSY\\_HK\\_35652\\_NumericalCalibration](#)

1 pages (15 KB)

11.02.2013 17:28:36

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Sentinel-2  
SRDB Database Extract  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2 . 77  
Page: 1 of 1

Name: SSKP0012TM Descr: temperature1

Unit: degC

X Y

Referenced by:

SST03032 targetTemp\_2  
SST03033 tempDetector\_2  
SST03034 tempOptics\_2  
SST03035 tempHousing\_2

Modelname: GENERIC

-32768 -3276.8  
-32767 -3276.7

Name: Z\_IDMS Descr: Identity [ms]

Unit: ms

X Y

Referenced by:

SST03055 tInt\_2

Modelname: GENERIC

Name: Z\_IDS Descr: Identity [s]

Unit: s

X Y

Referenced by:

SSTD3038 secSinTimSync\_2

Modelname: GENERIC

Summary  
11.02.2013 17:29:20

Differences exist between documents.

**New Document:**

[SSY\\_HK\\_35652\\_TextualCalibration](#)

2 pages (18 KB)

11.02.2013 17:29:19

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[SSY\\_HK\\_35652\\_TextualCalibration](#)

2 pages (18 KB)

11.02.2013 17:29:19


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# Sentinel-2

## SRDB Database Extract

### TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 2

Name: SSKT0008TM Descr: trigger source

Referenced by:  
SSTD3020 cycleTriggerS\_2

From	To	Text
0		TIMER
1		PREPROCESSOR
2		EXTERNAL

Name: SSKT0009TM Descr: operation mode

Referenced by:  
SSTD3021 opMode\_2

From	To	Text
0		MODEBOOT
2		MODESTANDBY
3		MODEPHOTO
4		MODEAADF
5		MODEAADW
7		MODENAT

Name: SSKT0010TM Descr: tech mode

Referenced by:  
SSTD3023 tecMode\_2

From	To	Text
0		COOLEROFF
1		COOLERCONTR
2		COOLERMAX

Name: SSKT0011TM Descr: error N/Y

Referenced by:  
SSTD3024 EepromErrApp\_2  
SSTD3025 EepromErrCal\_2  
SSTD3026 ramError\_2  
SSTD3027 interfaceError\_2  
SSTD3028 watchdogError\_2  
SSTD3029 synchError\_2  
SSTD3030 timingError\_2  
SSTD3031 fifoError\_2

From	To	Text
0		NOERROR
1		ERROR

Name: SSKT0013TM Descr: synch source

Referenced by:  
SSTD3037 syncSource\_2

From	To	Text
0		SYNCSOURCENONE
1		SYNCSOURCEPRIM
2		SYNCSOURCESEC
3		SYNCSOURCEANY



Sentinel-2  
SRDB Database Extract  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2, 77  
Page: 2 of 2

Name: SSKT0014TM Descr: attitude result

Referenced by:  
SSTD3053 AttResult\_2

From	To	Text
-7	-1	ATTFAILED
0	0	ATTNOTENOSTARS
1	1	ATTSUCCESS
2	2	ATTREFINED

Name: SSKT0015TM Descr: last star ident

Referenced by:  
SSTD3054 IdResult\_2

From	To	Text
-7	-2	STARIDFAILED
-1	-1	NOTENSTARS
0	0	STIDDLE
1	1	STIDSUCCESS
2	2	STIDRUNNING

Name: XXKT0027TM Descr: Inactive\_Active

Referenced by:  
SSTD3022 isStreakMode\_2

From	To	Text
0		INACTIVE
1		ACTIVE

Summary  
11.02.2013 17:29:44

Differences exist between documents.

**New Document:**

[SSY\\_HK\\_35653](#)

4 pages (27 KB)

11.02.2013 17:29:42

Used to display results.

**Old Document:**

[SSY\\_HK\\_35653](#)

4 pages (27 KB)

11.02.2013 17:29:41


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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 4

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35653	TM_TDB_2	3	25	38	6	614	Y	161	FIXED	SST04000	106		Y	35653	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	SST04000	SID_2	ID of the structure	UINT	INTEGER	Z_IDENTITY
2	1	24	SST03057	S1_TA_2	tangent value of star 1 alpha coordinate	SINT	REAL	SSKP0016TM
3	4	24	SST03058	S1_TB_2	tangent value of star 1 beta coordinate	SINT	REAL	SSKP0016TM
4	7	24	SST03059	S2_TA_2	tangent value of star 2 alpha coordinate	SINT	REAL	SSKP0016TM
5	10	24	SST03060	S2_TB_2	tangent value of star 2 beta coordinate	SINT	REAL	SSKP0016TM
6	13	24	SST03061	S3_TA_2	tangent value of star 3 alpha coordinate	SINT	REAL	SSKP0016TM
7	16	24	SST03062	S3_TB_2	tangent value of star 3 beta coordinate	SINT	REAL	SSKP0016TM
8	19	24	SST03063	S4_TA_2	tangent value of star 4 alpha coordinate	SINT	REAL	SSKP0016TM
9	22	24	SST03064	S4_TB_2	tangent value of star 4 beta coordinate	SINT	REAL	SSKP0016TM
10	25	24	SST03065	S5_TA_2	tangent value of star 5 alpha coordinate	SINT	REAL	SSKP0016TM
11	28	24	SST03066	S5_TB_2	tangent value of star 5 beta coordinate	SINT	REAL	SSKP0016TM
12	31	24	SST03067	S6_TA_2	tangent value of star 6 alpha coordinate	SINT	REAL	SSKP0016TM
13	34	24	SST03068	S6_TB_2	tangent value of star 6 beta coordinate	SINT	REAL	SSKP0016TM
14	37	24	SST03069	S7_TA_2	tangent value of star 7 alpha coordinate	SINT	REAL	SSKP0016TM
15	40	24	SST03070	S7_TB_2	tangent value of star 7 beta coordinate	SINT	REAL	SSKP0016TM
16	43	24	SST03071	S8_TA_2	tangent value of star 8 alpha coordinate	SINT	REAL	SSKP0016TM
17	46	24	SST03072	S8_TB_2	tangent value of star 8 beta coordinate	SINT	REAL	SSKP0016TM
18	49	24	SST03073	S9_TA_2	tangent value of star 9 alpha coordinate	SINT	REAL	SSKP0016TM
19	52	24	SST03074	S9_TB_2	tangent value of star 9 beta coordinate	SINT	REAL	SSKP0016TM
20	55	24	SST03075	S10_TA_2	tangent value of star 10 alpha coordinate	SINT	REAL	SSKP0016TM
21	58	24	SST03076	S10_TB_2	tangent value of star 10 beta coordinate	SINT	REAL	SSKP0016TM
22	61	24	SST03077	S11_TA_2	tangent value of star 11 alpha coordinate	SINT	REAL	SSKP0016TM
23	64	24	SST03078	S11_TB_2	tangent value of star 11 beta coordinate	SINT	REAL	SSKP0016TM
24	67	24	SST03079	S12_TA_2	tangent value of star 12 alpha coordinate	SINT	REAL	SSKP0016TM
25	70	24	SST03080	S12_TB_2	tangent value of star 12 beta coordinate	SINT	REAL	SSKP0016TM
26	73	24	SST03081	S13_TA_2	tangent value of star 13 alpha coordinate	SINT	REAL	SSKP0016TM
27	76	24	SST03082	S13_TB_2	tangent value of star 13 beta coordinate	SINT	REAL	SSKP0016TM
28	79	24	SST03083	S14_TA_2	tangent value of star 14 alpha coordinate	SINT	REAL	SSKP0016TM



# Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 2 of 4

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35653	TM_TDB_2	3	25	38	6	614	Y	161	FIXED	SST04000	106		Y	35653	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.	
29	82	24	SST03084	S14_TB_2	tangent value of star 14 beta coordinate	SINT	REAL	SSKP0016TM	
30	85	24	SST03085	S15_TA_2	tangent value of star 15 alpha coordinate	SINT	REAL	SSKP0016TM	
31	88	24	SST03086	S15_TB_2	tangent value of star 15 beta coordinate	SINT	REAL	SSKP0016TM	
32	91	24	SST03087	S16_TA_2	tangent value of star 16 alpha coordinate	SINT	REAL	SSKP0016TM	
33	94	24	SST03088	S16_TB_2	tangent value of star 16 beta coordinate	SINT	REAL	SSKP0016TM	
34	97	16	SST03089	S1_CNR_2	star 1 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
35	99	16	SST03090	S2_CNR_2	star 2 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
36	101	16	SST03091	S3_CNR_2	star 3 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
37	103	16	SST03092	S4_CNR_2	star 4 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
38	105	16	SST03093	S5_CNR_2	star 5 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
39	107	16	SST03094	S6_CNR_2	star 6 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
40	109	16	SST03095	S7_CNR_2	star 7 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
41	111	16	SST03096	S8_CNR_2	star 8 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
42	113	16	SST03097	S9_CNR_2	star 9 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
43	115	16	SST03098	S10_CNR_2	star 10 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
44	117	16	SST03099	S11_CNR_2	star 11 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
45	119	16	SST03100	S12_CNR_2	star 12 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
46	121	16	SST03101	S13_CNR_2	star 13 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
47	123	16	SST03102	S14_CNR_2	star 14 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
48	125	16	SST03103	S15_CNR_2	star 15 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	



# Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 3 of 4

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35653	TM_TDB_2	3	25	38	6	614	Y	161	FIXED	SST04000	106		Y	35653	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
49	127	16	SST03104	S16_CNR_2	star 16 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
50	129	8	SST03105	S1_MAG_2	star 1 instrumental magnitude	SINT	REAL	SSKP0017TM
51	130	8	SST03106	S2_MAG_2	star 2 instrumental magnitude	SINT	REAL	SSKP0017TM
52	131	8	SST03107	S3_MAG_2	star 3 instrumental magnitude	SINT	REAL	SSKP0017TM
53	132	8	SST03108	S4_MAG_2	star 4 instrumental magnitude	SINT	REAL	SSKP0017TM
54	133	8	SST03109	S5_MAG_2	star 5 instrumental magnitude	SINT	REAL	SSKP0017TM
55	134	8	SST03110	S6_MAG_2	star 6 instrumental magnitude	SINT	REAL	SSKP0017TM
56	135	8	SST03111	S7_MAG_2	star 7 instrumental magnitude	SINT	REAL	SSKP0017TM
57	136	8	SST03112	S8_MAG_2	star 8 instrumental magnitude	SINT	REAL	SSKP0017TM
58	137	8	SST03113	S9_MAG_2	star 9 instrumental magnitude	SINT	REAL	SSKP0017TM
59	138	8	SST03114	S10_MAG_2	star 10 instrumental magnitude	SINT	REAL	SSKP0017TM
60	139	8	SST03115	S11_MAG_2	star 11 instrumental magnitude	SINT	REAL	SSKP0017TM
61	140	8	SST03116	S12_MAG_2	star 12 instrumental magnitude	SINT	REAL	SSKP0017TM
62	141	8	SST03117	S13_MAG_2	star 13 instrumental magnitude	SINT	REAL	SSKP0017TM
63	142	8	SST03118	S14_MAG_2	star 14 instrumental magnitude	SINT	REAL	SSKP0017TM
64	143	8	SST03119	S15_MAG_2	star 15 instrumental magnitude	SINT	REAL	SSKP0017TM
65	144	8	SST03120	S16_MAG_2	star 16 instrumental magnitude	SINT	REAL	SSKP0017TM
66	145	16	SSTG3006	GloPar1TDB_2	Global Parameter 1 TDB			
	0	1	SSTD3121	S1_VALID_2	if set to 1 the star 1 data are valid	UINT	STRING	SSKT0018TM
	1	1	SSTD3122	S2_VALID_2	if set to 1 the star 2 data are valid	UINT	STRING	SSKT0018TM
	2	1	SSTD3123	S3_VALID_2	if set to 1 the star 3 data are valid	UINT	STRING	SSKT0018TM
	3	1	SSTD3124	S4_VALID_2	if set to 1 the star 4 data are valid	UINT	STRING	SSKT0018TM
	4	1	SSTD3125	S5_VALID_2	if set to 1 the star 5 data are valid	UINT	STRING	SSKT0018TM
	5	1	SSTD3126	S6_VALID_2	if set to 1 the star 6 data are valid	UINT	STRING	SSKT0018TM
	6	1	SSTD3127	S7_VALID_2	if set to 1 the star 7 data are valid	UINT	STRING	SSKT0018TM
	7	1	SSTD3128	S8_VALID_2	if set to 1 the star 8 data are valid	UINT	STRING	SSKT0018TM
	8	1	SSTD3129	S9_VALID_2	if set to 1 the star 9 data are valid	UINT	STRING	SSKT0018TM
	9	1	SSTD3130	S10_VALID_2	if set to 1 the star 10 data are valid	UINT	STRING	SSKT0018TM
	10	1	SSTD3131	S11_VALID_2	if set to 1 the star 11 data are valid	UINT	STRING	SSKT0018TM
	11	1	SSTD3132	S12_VALID_2	if set to 1 the star 12 data are valid	UINT	STRING	SSKT0018TM





## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 4 of 4

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35653	TM_TDB_2		3_25	38	6	614	Y	161	FIXED	SST04000	106		Y	35653	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	12	1	SSTD3133	S13_VALID_2	if set to 1 the star 13 data are valid	UINT	STRING	SSKT0018TM
	13	1	SSTD3134	S14_VALID_2	if set to 1 the star 14 data are valid	UINT	STRING	SSKT0018TM
	14	1	SSTD3135	S15_VALID_2	if set to 1 the star 15 data are valid	UINT	STRING	SSKT0018TM
	15	1	SSTD3136	S16_VALID_2	if set to 1 the star 16 data are valid	UINT	STRING	SSKT0018TM

Summary  
11.02.2013 17:30:01

Differences exist between documents.

**New Document:**

[SSY\\_HK\\_35653\\_NumericalCalibration](#)

2 pages (17 KB)

11.02.2013 17:30:00

Used to display results.

**Old Document:**

[SSY\\_HK\\_35653\\_NumericalCalibration](#)

2 pages (17 KB)

11.02.2013 17:29:59


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**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2 . 77  
Page: 1 of 2

Name: SSKP0016TM Descr: tangent value

Unit:

X

Y

Referenced by:

SST03057 S1\_TA\_2  
SST03058 S1\_TB\_2  
SST03059 S2\_TA\_2  
SST03060 S2\_TB\_2  
SST03061 S3\_TA\_2  
SST03062 S3\_TB\_2  
SST03063 S4\_TA\_2  
SST03064 S4\_TB\_2  
SST03065 S5\_TA\_2  
SST03066 S5\_TB\_2  
SST03067 S6\_TA\_2  
SST03068 S6\_TB\_2  
SST03069 S7\_TA\_2  
SST03070 S7\_TB\_2  
SST03071 S8\_TA\_2  
SST03072 S8\_TB\_2  
SST03073 S9\_TA\_2  
SST03074 S9\_TB\_2  
SST03075 S10\_TA\_2  
SST03076 S10\_TB\_2  
SST03077 S11\_TA\_2  
SST03078 S11\_TB\_2  
SST03079 S12\_TA\_2  
SST03080 S12\_TB\_2  
SST03081 S13\_TA\_2  
SST03082 S13\_TB\_2  
SST03083 S14\_TA\_2  
SST03084 S14\_TB\_2  
SST03085 S15\_TA\_2  
SST03086 S15\_TB\_2  
SST03087 S16\_TA\_2  
SST03088 S16\_TB\_2

Modelname: GENERIC

-8388608

-1

8388607

1



**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2 . 77  
Page: 2 of 2

**Name:** SSKP0017TM **Descr:** instrumental magnitude

**Unit:** X Y

**Referenced by:**

SST03105 S1\_MAG\_2  
SST03106 S2\_MAG\_2  
SST03107 S3\_MAG\_2  
SST03108 S4\_MAG\_2  
SST03109 S5\_MAG\_2  
SST03110 S6\_MAG\_2  
SST03111 S7\_MAG\_2  
SST03112 S8\_MAG\_2  
SST03113 S9\_MAG\_2  
SST03114 S10\_MAG\_2  
SST03115 S11\_MAG\_2  
SST03116 S12\_MAG\_2  
SST03117 S13\_MAG\_2  
SST03118 S14\_MAG\_2  
SST03119 S15\_MAG\_2  
SST03120 S16\_MAG\_2

---

**Modelname:** GENERIC

-128 12.8  
127 17.7

---

Summary  
11.02.2013 17:30:15

Differences exist between documents.

**New Document:**

[SSY\\_HK\\_35653\\_TextualCalibration](#)

1 pages (15 KB)

11.02.2013 17:30:14

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**Old Document:**

[SSY\\_HK\\_35653\\_TextualCalibration](#)

1 pages (15 KB)

11.02.2013 17:30:14

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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 1

Name: SSKT0018TM Descr: valid N/Y

**Referenced by:**

From To Text

SSTD3121 S1\_VALID\_2  
SSTD3122 S2\_VALID\_2  
SSTD3123 S3\_VALID\_2  
SSTD3124 S4\_VALID\_2  
SSTD3125 S5\_VALID\_2  
SSTD3126 S6\_VALID\_2  
SSTD3127 S7\_VALID\_2  
SSTD3128 S8\_VALID\_2  
SSTD3129 S9\_VALID\_2  
SSTD3130 S10\_VALID\_2  
SSTD3131 S11\_VALID\_2  
SSTD3132 S12\_VALID\_2  
SSTD3133 S13\_VALID\_2  
SSTD3134 S14\_VALID\_2  
SSTD3135 S15\_VALID\_2  
SSTD3136 S16\_VALID\_2

0 NOTVALID  
1 VALID

Summary  
11.02.2013 17:30:31

Differences exist between documents.

**New Document:**

[SSY\\_HK\\_35801](#)

1 pages (19 KB)

11.02.2013 17:30:30

Used to display results.

**Old Document:**

[SSY\\_HK\\_35801](#)

1 pages (19 KB)

11.02.2013 17:30:30


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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 1

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35801	TM_ADB_3		3_25	39	6	630	Y	53	FIXED	SST07000	105		Y	35801	ENABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	SST07000	SID_3	ID of the structure	UINT	INTEGER	Z_IDENTITY
2	1	32	SST06001	qv1_3	vector part of altitude quaternion	SINT	REAL	SSKP0001TM
3	5	32	SST06002	qv2_3	vector part of altitude quaternion	SINT	REAL	SSKP0001TM
4	9	32	SST06003	qv3_3	vector part of altitude quaternion	SINT	REAL	SSKP0001TM
5	13	32	SST06004	qs_3	vector part of altitude quaternion	SINT	REAL	SSKP0001TM
6	17	16	SST06005	rateX_3	angular rate in BRF	SINT	REAL	SSKP0002TM
7	19	16	SST06006	rateY_3	angular rate in BRF	SINT	REAL	SSKP0002TM
8	21	16	SST06007	rateZ_3	angular rate in BRF	SINT	REAL	SSKP0002TM
9	23	48	SST06008	TimeStamp_3	Time stamp of the center of integration associated with the attitude	UINT	INTEGER	SSKP0200TM
10	29	16	SST06009	julianDate_3	Julian date used for precession correction	UINT	INTEGER	Z_IDD
11	31	16	SST06010	vVectorSciX_3	X coordinate of velocity vector	SINT	REAL	SSKP0004TM
12	33	16	SST06011	vVectorSciY_3	Y coordinate of velocity vector	SINT	REAL	SSKP0004TM
13	35	16	SST06012	vVectorSciZ_3	Z coordinate of velocity vector	SINT	REAL	SSKP0004TM
14	37	8	SSTG6001	GloPar1ADB_3	Global Parameter 1 ADB			
	0	3	SSTD6013	altitQuality_3	altitude quality	UINT	STRING	SSKT0005TM
	3	1	SSTD6014	isPrecCorr_3	if set to 1, precession correction applied	UINT	STRING	SSKT0006TM
	4	1	SSTD6015	isAbberCorr_3	if set to 1, aberration correction applied	UINT	STRING	SSKT0006TM
	5	2	SSTD6016	rateQuality_3	rate quality	UINT	STRING	SSKT0007TM
	7	1	SSTD6017	isValidRate_3	if set to 1, rate information valid	UINT	STRING	SSKT0006TM
15	38	8	SST07017	attQualityIx_3	sum of single-star qualities of attitude stars	UINT	INTEGER	Z_IDENTITY



Summary  
11.02.2013 17:30:49

Differences exist between documents.

**New Document:**

[SSY\\_HK\\_35801\\_NumericalCalibration](#)

1 pages (16 KB)

11.02.2013 17:30:47

Used to display results.

**Old Document:**

[SSY\\_HK\\_35801\\_NumericalCalibration](#)

1 pages (16 KB)

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# Sentinel-2 SRDB Database Extract

## TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2 . 77  
Page: 1 of 1

Name: SSKP0001TM Descr: attitude

Unit:

X

Y

Referenced by:

SST06001 qv1\_3  
SST06002 qv2\_3  
SST06003 qv3\_3  
SST06004 qs\_3

Modelname: GENERIC

-2147483648

-2

2147483647

2

Name: SSKP0002TM Descr: angular rate

Unit: dg/s

X

Y

Referenced by:

SST06005 rateX\_3  
SST06006 rateY\_3  
SST06007 rateZ\_3

Modelname: GENERIC

-32768

-16

32767

16

Name: SSKP0004TM Descr: velocity vector

Unit: m/s

X

Y

Referenced by:

SST06010 vVectorSciX\_3  
SST06011 vVectorSciY\_3  
SST06012 vVectorSciZ\_3

Modelname: GENERIC

-32768

-2342128.578

32767

2342057.102

Name: SSKP0200TM Descr: Time Stamp

Unit: s

X

Y

Referenced by:

SST06008 TimeStamp\_3

Modelname: GENERIC

0

0

281474967000000

4294967296

Name: Z\_IDD Descr: Identity day [d]

Unit: d

X

Y

Referenced by:

SST06009 julianDate\_3

Modelname: GENERIC

Summary  
11.02.2013 17:31:22

Differences exist between documents.

**New Document:**

[SSY\\_HK\\_35801\\_TextualCalibration](#)

1 pages (16 KB)

11.02.2013 17:31:21

Used to display results.

**Old Document:**

[SSY\\_HK\\_35801\\_TextualCalibration](#)

1 pages (16 KB)

11.02.2013 17:31:20

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# Sentinel-2 SRDB Database Extract TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 , 77  
Page: 1 of 1

Name: SSKT0005TM Descr: attitude quality

Referenced by:  
SSTD6013 altitQuality\_3

From	To	Text
0		NOATTITUDE
1		APRIORIATT
5		COARSEATT
6		UNCONFATT
7		VALIDATT

Name: SSKT0006TM Descr: applied Y/N

Referenced by:  
SSTD6014 isPrecCorr\_3  
SSTD6015 isAbberCorr\_3  
SSTD6017 isValidRate\_3

From	To	Text
0		NOTAPPLIED
1		APPLIED

Name: SSKT0007TM Descr: rate quality

Referenced by:  
SSTD6016 rateQuality\_3

From	To	Text
0		NORATE
1		COARSERATE
2		FINERATE
3		FILTEREDRATE

Summary  
11.02.2013 17:31:41

Differences exist between documents.

**New Document:**

[SSY\\_HK\\_35802](#)

2 pages (24 KB)

11.02.2013 17:31:39

Used to display results.

**Old Document:**

[SSY\\_HK\\_35802](#)

2 pages (24 KB)

11.02.2013 17:31:39


[Get started: first change is on page 1.](#)


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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35802	TM_SDB_3	3	25	39	4	628	Y	59	FIXED	SST07000	1		Y	35802	ENABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	SST07000	SID_3	ID of the structure	UINT	INTEGER	Z_IDENTITY
2	1	16	SST06018	cycle_3	STR internal cycle number	UINT	INTEGER	Z_IDENTITY
3	3	48	SST06019	cycStartTimSt_3	Time stamp for cycle start	UINT	INTEGER	Z_IDENTITY
4	9	8	SSTG6002	GloPar1SDB_3	Global Parameter 1 SDB			
	0	2	SSTD6020	cycleTriggerS_3	0: timer; 1: preprocessor; 2: external	UINT	STRING	SSKT0008TM
	2	3	SSTD6021	opMode_3	STR operating mode	UINT	STRING	SSKT0009TM
	5	1	SSTD6022	isStreakMode_3	1: streak processing mode is active	UINT	STRING	XXKT0027TM
	6	2	SSTD6023	tecMode_3	Thermo electric cooler mode	UINT	STRING	SSKT0010TM
5	10	8	SSTG6003	GloPar2SDB_3	Global Parameter 2 SDB			
	0	1	SSTD6024	EepromErrApp_3	1: error in application part on EEPROM	UINT	STRING	SSKT0011TM
	1	1	SSTD6025	EepromErrCal_3	1: error in calibration data part on EEPROM	UINT	STRING	SSKT0011TM
	2	1	SSTD6026	ramError_3	1:RAM failure	UINT	STRING	SSKT0011TM
	3	1	SSTD6027	interfaceError_3	1:failure during interface initialisation	UINT	STRING	SSKT0011TM
	4	1	SSTD6028	watchdogError_3	1:Reboot cause by watchdog timer	UINT	STRING	SSKT0011TM
	5	1	SSTD6029	synchError_3	1:External synchronisation failed	UINT	STRING	SSKT0011TM
	6	1	SSTD6030	timingError_3	1:processing exceeded timing constraints	UINT	STRING	SSKT0011TM
	7	1	SSTD6031	fifoError_3	1:FIFO capacity exceeded	UINT	STRING	SSKT0011TM
6	11	16	SST06032	targetTemp_3	target temperature	SINT	REAL	SSKP0012TM
7	13	16	SST06033	tempDetector_3	detector temperature	SINT	REAL	SSKP0012TM
8	15	16	SST06034	tempOptics_3	optics temperature	SINT	REAL	SSKP0012TM
9	17	16	SST06035	tempHousing_3	housing temperature	SINT	REAL	SSKP0012TM
10	19	8	SST06036	numEdacErrors_3	number of errors detected by RAM EDAC	UINT	INTEGER	Z_IDENTITY
11	20	8	SSTG6004	GloPar3SDB_3	Global Parameter 3 SDB			
	0	2	SSTD6037	syncSource_3	source selected for external synchronization	UINT	STRING	SSKT0013TM
	2	6	SSTD6038	secSinTimSync_3	number of seconds since latest synchron.	UINT	INTEGER	Z_IDS
12	21	16	SST06039	meanBackgr_3	mean background	SINT	INTEGER	Z_IDENTITY
13	23	16	SST06040	numObjDetected_3	number of detected objects	UINT	INTEGER	Z_IDENTITY
14	25	16	SST06041	numObjAcquired_3	number of acquired objects	UINT	INTEGER	Z_IDENTITY
15	27	16	SST06042	numSinglePixR_3	number of single pixels removed by h/w	UINT	INTEGER	Z_IDENTITY
16	29	16	SST06043	numEoDetected_3	number of extended objects detected by h/w	UINT	INTEGER	Z_IDENTITY
17	31	8	SST06044	numStarsTracka_3	number of trackable stars	UINT	INTEGER	Z_IDENTITY



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 2 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35802	TM_SDB_3	3	25	39	4	628	Y	59	FIXED	SST07000	1		Y	35802	ENABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
18	32	8	SST06045	numStarsTrack_3	number of stars tracked	UINT	INTEGER	Z_IDENTITY
19	33	8	SST06046	numStarsForRa_3	number of stars used for rate determination	UINT	INTEGER	Z_IDENTITY
20	34	8	SST06047	numStarsIdent_3	number of identified stars	UINT	INTEGER	Z_IDENTITY
21	35	8	SST06048	numStarsUsedA_3	number of stars used for altit. Determinisation	UINT	INTEGER	Z_IDENTITY
22	36	8	SST06049	numLostTrack_3	number of fall-backs from NAT to AAD	UINT	INTEGER	Z_IDENTITY
23	37	16	SST06050	latestCommId_3	ID of latest recieved command	UINT	INTEGER	Z_IDENTITY
24	39	8	SST06051	latestCmdRes_3	result of execution of the latest recieved command	UINT	INTEGER	Z_IDENTITY
25	40	8	SST06052	numTcErrors_3	number of telecommand errors	UINT	INTEGER	Z_IDENTITY
26	41	8	SSTG6005	GloPar4SDB_3	Global Parameter 4 SDB			
	0	4	SSTD6053	AttResult_3	last result of altitude determination	SINT	STRING	SSKT0014TM
	4	4	SSTD6054	IdResult_3	last result of star identification error	SINT	STRING	SSKT0015TM
27	42	8	SST06055	tlnt_3	integration time	UINT	INTEGER	Z_IDMS
28	43	16	SST06056	offset_3	binarisation time	UINT	INTEGER	Z_IDENTITY

Summary  
11.02.2013 17:32:09

Differences exist between documents.

**New Document:**

[SSY\\_HK\\_35802\\_NumericalCalibration](#)

1 pages (16 KB)

11.02.2013 17:32:08

Used to display results.

**Old Document:**

[SSY\\_HK\\_35802\\_NumericalCalibration](#)

1 pages (15 KB)

11.02.2013 17:32:08

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Sentinel-2  
SRDB Database Extract  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2 . 77  
Page: 1 of 1

Name: SSKP0012TM Descr: temperature1

Unit: degC

X Y

Referenced by:

SST06032 targetTemp\_3  
SST06033 tempDetector\_3  
SST06034 tempOptics\_3  
SST06035 tempHousing\_3

Modelname: GENERIC

-32768 -3276.8  
-32767 -3276.7

Name: Z\_IDMS Descr: Identity [ms]

Unit: ms

X Y

Referenced by:

SST06055 tInt\_3

Modelname: GENERIC

Name: Z\_IDS Descr: Identity [s]

Unit: s

X Y

Referenced by:

SSTD6038 secSinTimSync\_3

Modelname: GENERIC

Summary  
11.02.2013 17:32:25

Differences exist between documents.

**New Document:**

[SSY\\_HK\\_35802\\_TextualCalibration](#)

2 pages (18 KB)

11.02.2013 17:32:24

Used to display results.

**Old Document:**

[SSY\\_HK\\_35802\\_TextualCalibration](#)

2 pages (18 KB)

11.02.2013 17:32:24


[Get started: first change is on page 1.](#)


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# Sentinel-2

## SRDB Database Extract

### TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 2

Name: SSKT0008TM Descr: trigger source

Referenced by:  
SSTD6020 cycleTriggerS\_3

From	To	Text
0		TIMER
1		PREPROCESSOR
2		EXTERNAL

Name: SSKT0009TM Descr: operation mode

Referenced by:  
SSTD6021 opMode\_3

From	To	Text
0		MODEBOOT
2		MODESTANDBY
3		MODEPHOTO
4		MODEAADF
5		MODEAADW
7		MODENAT

Name: SSKT0010TM Descr: tech mode

Referenced by:  
SSTD6023 tecMode\_3

From	To	Text
0		COOLEROFF
1		COOLERCONTR
2		COOLERMAX

Name: SSKT0011TM Descr: error N/Y

Referenced by:  
SSTD6024 EepromErrApp\_3  
SSTD6025 EepromErrCal\_3  
SSTD6026 ramError\_3  
SSTD6027 interfaceError\_3  
SSTD6028 watchdogError\_3  
SSTD6029 synchError\_3  
SSTD6030 timingError\_3  
SSTD6031 fifoError\_3

From	To	Text
0		NOERROR
1		ERROR

Name: SSKT0013TM Descr: synch source

Referenced by:  
SSTD6037 syncSource\_3

From	To	Text
0		SYNCSOURCENONE
1		SYNCSOURCEPRIM
2		SYNCSOURCESEC
3		SYNCSOURCEANY



# Sentinel-2 SRDB Database Extract TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2, 77  
Page: 2 of 2

Name: SSKT0014TM Descr: attitude result

Referenced by:  
SSTD6053 AttResult\_3

From	To	Text
-7	-1	ATTFAILED
0	0	ATTNOTENOSTARS
1	1	ATTSUCCESS
2	2	ATTREFINED

Name: SSKT0015TM Descr: last star ident

Referenced by:  
SSTD6054 IdResult\_3

From	To	Text
-7	-2	STARIDFAILED
-1	-1	NOTENSTARS
0	0	STIDDLE
1	1	STIDSUCCESS
2	2	STIDRUNNING

Name: XXKT0027TM Descr: Inactive\_Active

Referenced by:  
SSTD6022 isStreakMode\_3

From	To	Text
0		INACTIVE
1		ACTIVE

Summary  
11.02.2013 17:32:46

Differences exist between documents.

**New Document:**

[SSY\\_HK\\_35803](#)

4 pages (27 KB)

11.02.2013 17:32:43

Used to display results.

**Old Document:**

[SSY\\_HK\\_35803](#)

4 pages (27 KB)

11.02.2013 17:32:43


[Get started: first change is on page 1.](#)


No pages were deleted

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## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 1 of 4

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35803	TM_TDB_3	3	25	39	6	630	Y	161	FIXED	SST07000	106		Y	35803	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	SST07000	SID_3	ID of the structure	UINT	INTEGER	Z_IDENTITY
2	1	24	SST06057	S1_TA_3	tangent value of star 1 alpha coordinate	SINT	REAL	SSKP0016TM
3	4	24	SST06058	S1_TB_3	tangent value of star 1 beta coordinate	SINT	REAL	SSKP0016TM
4	7	24	SST06059	S2_TA_3	tangent value of star 2 alpha coordinate	SINT	REAL	SSKP0016TM
5	10	24	SST06060	S2_TB_3	tangent value of star 2 beta coordinate	SINT	REAL	SSKP0016TM
6	13	24	SST06061	S3_TA_3	tangent value of star 3 alpha coordinate	SINT	REAL	SSKP0016TM
7	16	24	SST06062	S3_TB_3	tangent value of star 3 beta coordinate	SINT	REAL	SSKP0016TM
8	19	24	SST06063	S4_TA_3	tangent value of star 4 alpha coordinate	SINT	REAL	SSKP0016TM
9	22	24	SST06064	S4_TB_3	tangent value of star 4 beta coordinate	SINT	REAL	SSKP0016TM
10	25	24	SST06065	S5_TA_3	tangent value of star 5 alpha coordinate	SINT	REAL	SSKP0016TM
11	28	24	SST06066	S5_TB_3	tangent value of star 5 beta coordinate	SINT	REAL	SSKP0016TM
12	31	24	SST06067	S6_TA_3	tangent value of star 6 alpha coordinate	SINT	REAL	SSKP0016TM
13	34	24	SST06068	S6_TB_3	tangent value of star 6 beta coordinate	SINT	REAL	SSKP0016TM
14	37	24	SST06069	S7_TA_3	tangent value of star 7 alpha coordinate	SINT	REAL	SSKP0016TM
15	40	24	SST06070	S7_TB_3	tangent value of star 7 beta coordinate	SINT	REAL	SSKP0016TM
16	43	24	SST06071	S8_TA_3	tangent value of star 8 alpha coordinate	SINT	REAL	SSKP0016TM
17	46	24	SST06072	S8_TB_3	tangent value of star 8 beta coordinate	SINT	REAL	SSKP0016TM
18	49	24	SST06073	S9_TA_3	tangent value of star 9 alpha coordinate	SINT	REAL	SSKP0016TM
19	52	24	SST06074	S9_TB_3	tangent value of star 9 beta coordinate	SINT	REAL	SSKP0016TM
20	55	24	SST06075	S10_TA_3	tangent value of star 10 alpha coordinate	SINT	REAL	SSKP0016TM
21	58	24	SST06076	S10_TB_3	tangent value of star 10 beta coordinate	SINT	REAL	SSKP0016TM
22	61	24	SST06077	S11_TA_3	tangent value of star 11 alpha coordinate	SINT	REAL	SSKP0016TM
23	64	24	SST06078	S11_TB_3	tangent value of star 11 beta coordinate	SINT	REAL	SSKP0016TM
24	67	24	SST06079	S12_TA_3	tangent value of star 12 alpha coordinate	SINT	REAL	SSKP0016TM
25	70	24	SST06080	S12_TB_3	tangent value of star 12 beta coordinate	SINT	REAL	SSKP0016TM
26	73	24	SST06081	S13_TA_3	tangent value of star 13 alpha coordinate	SINT	REAL	SSKP0016TM
27	76	24	SST06082	S13_TB_3	tangent value of star 13 beta coordinate	SINT	REAL	SSKP0016TM
28	79	24	SST06083	S14_TA_3	tangent value of star 14 alpha coordinate	SINT	REAL	SSKP0016TM



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 2 of 4

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35803	TM_TDB_3	3	25	39	6	630	Y	161	FIXED	SST07000	106		Y	35803	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.	
29	82	24	SST06084	S14_TB_3	tangent value of star 14 beta coordinate	SINT	REAL	SSKP0016TM	
30	85	24	SST06085	S15_TA_3	tangent value of star 15 alpha coordinate	SINT	REAL	SSKP0016TM	
31	88	24	SST06086	S15_TB_3	tangent value of star 15 beta coordinate	SINT	REAL	SSKP0016TM	
32	91	24	SST06087	S16_TA_3	tangent value of star 16 alpha coordinate	SINT	REAL	SSKP0016TM	
33	94	24	SST06088	S16_TB_3	tangent value of star 16 beta coordinate	SINT	REAL	SSKP0016TM	
34	97	16	SST06089	S1_CNR_3	star 1 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
35	99	16	SST06090	S2_CNR_3	star 2 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
36	101	16	SST06091	S3_CNR_3	star 3 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
37	103	16	SST06092	S4_CNR_3	star 4 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
38	105	16	SST06093	S5_CNR_3	star 5 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
39	107	16	SST06094	S6_CNR_3	star 6 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
40	109	16	SST06095	S7_CNR_3	star 7 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
41	111	16	SST06096	S8_CNR_3	star 8 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
42	113	16	SST06097	S9_CNR_3	star 9 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
43	115	16	SST06098	S10_CNR_3	star 10 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
44	117	16	SST06099	S11_CNR_3	star 11 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
45	119	16	SST06100	S12_CNR_3	star 12 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
46	121	16	SST06101	S13_CNR_3	star 13 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
47	123	16	SST06102	S14_CNR_3	star 14 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	
48	125	16	SST06103	S15_CNR_3	star 15 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY	



# Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 3 of 4

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35803	TM_TDB_3	3	25	39	6	630	Y	161	FIXED	SST07000	106		Y	35803	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
49	127	16	SST06104	S16_CNR_3	star 16 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
50	129	8	SST06105	S1_MAG_3	star 1 instrumental magnitude	SINT	REAL	SSKP0017TM
51	130	8	SST06106	S2_MAG_3	star 2 instrumental magnitude	SINT	REAL	SSKP0017TM
52	131	8	SST06107	S3_MAG_3	star 3 instrumental magnitude	SINT	REAL	SSKP0017TM
53	132	8	SST06108	S4_MAG_3	star 4 instrumental magnitude	SINT	REAL	SSKP0017TM
54	133	8	SST06109	S5_MAG_3	star 5 instrumental magnitude	SINT	REAL	SSKP0017TM
55	134	8	SST06110	S6_MAG_3	star 6 instrumental magnitude	SINT	REAL	SSKP0017TM
56	135	8	SST06111	S7_MAG_3	star 7 instrumental magnitude	SINT	REAL	SSKP0017TM
57	136	8	SST06112	S8_MAG_3	star 8 instrumental magnitude	SINT	REAL	SSKP0017TM
58	137	8	SST06113	S9_MAG_3	star 9 instrumental magnitude	SINT	REAL	SSKP0017TM
59	138	8	SST06114	S10_MAG_3	star 10 instrumental magnitude	SINT	REAL	SSKP0017TM
60	139	8	SST06115	S11_MAG_3	star 11 instrumental magnitude	SINT	REAL	SSKP0017TM
61	140	8	SST06116	S12_MAG_3	star 12 instrumental magnitude	SINT	REAL	SSKP0017TM
62	141	8	SST06117	S13_MAG_3	star 13 instrumental magnitude	SINT	REAL	SSKP0017TM
63	142	8	SST06118	S14_MAG_3	star 14 instrumental magnitude	SINT	REAL	SSKP0017TM
64	143	8	SST06119	S15_MAG_3	star 15 instrumental magnitude	SINT	REAL	SSKP0017TM
65	144	8	SST06120	S16_MAG_3	star 16 instrumental magnitude	SINT	REAL	SSKP0017TM
66	145	16	SSTG6006	GloPar1TDB_3	Global Parameter 1 TDB			
	0	1	SSTD6121	S1_VALID_3	if set to 1 the star 1 data are valid	UINT	STRING	SSKT0018TM
	1	1	SSTD6122	S2_VALID_3	if set to 1 the star 2 data are valid	UINT	STRING	SSKT0018TM
	2	1	SSTD6123	S3_VALID_3	if set to 1 the star 3 data are valid	UINT	STRING	SSKT0018TM
	3	1	SSTD6124	S4_VALID_3	if set to 1 the star 4 data are valid	UINT	STRING	SSKT0018TM
	4	1	SSTD6125	S5_VALID_3	if set to 1 the star 5 data are valid	UINT	STRING	SSKT0018TM
	5	1	SSTD6126	S6_VALID_3	if set to 1 the star 6 data are valid	UINT	STRING	SSKT0018TM
	6	1	SSTD6127	S7_VALID_3	if set to 1 the star 7 data are valid	UINT	STRING	SSKT0018TM
	7	1	SSTD6128	S8_VALID_3	if set to 1 the star 8 data are valid	UINT	STRING	SSKT0018TM
	8	1	SSTD6129	S9_VALID_3	if set to 1 the star 9 data are valid	UINT	STRING	SSKT0018TM
	9	1	SSTD6130	S10_VALID_3	if set to 1 the star 10 data are valid	UINT	STRING	SSKT0018TM
	10	1	SSTD6131	S11_VALID_3	if set to 1 the star 11 data are valid	UINT	STRING	SSKT0018TM
	11	1	SSTD6132	S12_VALID_3	if set to 1 the star 12 data are valid	UINT	STRING	SSKT0018TM





## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2.77  
Page: 4 of 4

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35803	TM_TDB_3		3,25	39	6	630	Y	161	FIXED	SST07000	106		Y	35803	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	12	1	SSTD6133	S13_VALID_3	if set to 1 the star 13 data are valid	UINT	STRING	SSKT0018TM
	13	1	SSTD6134	S14_VALID_3	if set to 1 the star 14 data are valid	UINT	STRING	SSKT0018TM
	14	1	SSTD6135	S15_VALID_3	if set to 1 the star 15 data are valid	UINT	STRING	SSKT0018TM
	15	1	SSTD6136	S16_VALID_3	if set to 1 the star 16 data are valid	UINT	STRING	SSKT0018TM

Summary  
11.02.2013 17:33:02

Differences exist between documents.

**New Document:**

[SSY\\_HK\\_35803\\_NumericalCalibration](#)

2 pages (17 KB)

11.02.2013 17:33:00

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**Old Document:**

[SSY\\_HK\\_35803\\_NumericalCalibration](#)

2 pages (17 KB)

11.02.2013 17:33:00

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**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2 . 77  
Page: 1 of 2

Name: SSKP0016TM Descr: tangent value

Unit:

X

Y

Referenced by:

SST06057 S1\_TA\_3  
SST06058 S1\_TB\_3  
SST06059 S2\_TA\_3  
SST06060 S2\_TB\_3  
SST06061 S3\_TA\_3  
SST06062 S3\_TB\_3  
SST06063 S4\_TA\_3  
SST06064 S4\_TB\_3  
SST06065 S5\_TA\_3  
SST06066 S5\_TB\_3  
SST06067 S6\_TA\_3  
SST06068 S6\_TB\_3  
SST06069 S7\_TA\_3  
SST06070 S7\_TB\_3  
SST06071 S8\_TA\_3  
SST06072 S8\_TB\_3  
SST06073 S9\_TA\_3  
SST06074 S9\_TB\_3  
SST06075 S10\_TA\_3  
SST06076 S10\_TB\_3  
SST06077 S11\_TA\_3  
SST06078 S11\_TB\_3  
SST06079 S12\_TA\_3  
SST06080 S12\_TB\_3  
SST06081 S13\_TA\_3  
SST06082 S13\_TB\_3  
SST06083 S14\_TA\_3  
SST06084 S14\_TB\_3  
SST06085 S15\_TA\_3  
SST06086 S15\_TB\_3  
SST06087 S16\_TA\_3  
SST06088 S16\_TB\_3

Modelname: GENERIC

-8388608

-1

8388607

1



**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2 . 77  
Page: 2 of 2

**Name:** SSKP0017TM **Descr:** instrumental magnitude

**Unit:** X Y

**Referenced by:**

SST06105 S1\_MAG\_3  
SST06106 S2\_MAG\_3  
SST06107 S3\_MAG\_3  
SST06108 S4\_MAG\_3  
SST06109 S5\_MAG\_3  
SST06110 S6\_MAG\_3  
SST06111 S7\_MAG\_3  
SST06112 S8\_MAG\_3  
SST06113 S9\_MAG\_3  
SST06114 S10\_MAG\_3  
SST06115 S11\_MAG\_3  
SST06116 S12\_MAG\_3  
SST06117 S13\_MAG\_3  
SST06118 S14\_MAG\_3  
SST06119 S15\_MAG\_3  
SST06120 S16\_MAG\_3

---

**Modelname:** GENERIC

-128 12.8  
127 17.7

---

Summary  
11.02.2013 17:33:17

Differences exist between documents.

**New Document:**

[SSY\\_HK\\_35803\\_TextualCalibration](#)

1 pages (15 KB)

11.02.2013 17:33:16

Used to display results.

**Old Document:**

[SSY\\_HK\\_35803\\_TextualCalibration](#)

1 pages (15 KB)

11.02.2013 17:33:16


[Get started: first change is on page 1.](#)


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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 1

Name: SSKT0018TM Descr: valid N/Y

**Referenced by:**

From To Text

SSTD6121 S1\_VALID\_3  
SSTD6122 S2\_VALID\_3  
SSTD6123 S3\_VALID\_3  
SSTD6124 S4\_VALID\_3  
SSTD6125 S5\_VALID\_3  
SSTD6126 S6\_VALID\_3  
SSTD6127 S7\_VALID\_3  
SSTD6128 S8\_VALID\_3  
SSTD6129 S9\_VALID\_3  
SSTD6130 S10\_VALID\_3  
SSTD6131 S11\_VALID\_3  
SSTD6132 S12\_VALID\_3  
SSTD6133 S13\_VALID\_3  
SSTD6134 S14\_VALID\_3  
SSTD6135 S15\_VALID\_3  
SSTD6136 S16\_VALID\_3

0 NOTVALID  
1 VALID

### **3.4.3 SRDB Export**



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2. 77  
Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32105	GPSRA Navigation Solution (GPSR-SID=213)	3	25	11	6	182	Y	121	FIXED	AST00032	105	10000	Y	32105	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	AST08004	GPSA_NAVSOL_ACQ	GPSA_NAVIGATION_SOL_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	AST08005	GPSA_NAVSOL_VAL	GPSA_NAVIGATION_SOL_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	AST08093	GPSA_NS_TS_COAR	GPSA_NAV_SOL_TS_COARSE	UINT	INTEGER	Z_IDS
5	7	32	ASTG8091	GPSA_NS_TS_FINE	GPSA_NAV_SOL_TS_FINE			
	0	24	ASTD8092	GPSA_NS_TSF_SSEC	Fine_Time	UINT	INTEGER	Z_IDS M24
	27	1	ASTD8093	GPSA_NS_TSF_TYPE	Time_Type	UINT	STRING	CSKT0120TM
	28	1	ASTD8094	GPSA_NS_TSF_SSRC	Sync_Source	UINT	STRING	CSKT0121TM
	29	1	ASTD8095	GPSA_NS_TSF_SMET	Sync_Method	UINT	STRING	CSKT0122TM
	30	1	ASTD8096	GPSA_NS_TSF_SSTS	Sync_Status	UINT	STRING	CSKT0123TM
	31	1	ASTD8097	GPSA_NS_TSF_SYNC	Sync_Enable_Disable	UINT	STRING	CSKT0124TM
6	11	32	GST01640	GPST_SEC	seconds	UINT	INTEGER	Z_IDS
7	15	32	GST01641	GPST_SUBSEC	fractions_of_a_second	UINT	INTEGER	GSKP0048TM
8	19	16	AST08011	NU3_NSM_QUALIN	NU3_NSM_QUALIN / GPSA_NAVIGATION_SOL_WORD_04			
	0	1	ASTD1642	N_U_3	not_used** Duplicated from GST01642 **	UINT	INTEGER	Z_IDENTITY
	1	3	ASTD1643	NSM	Navigation_solution_method** Duplicated from GST01643 **	UINT	STRING	GSKT0204TM
	4	12	ASTD1644	QUAL_INDEX	Quality_index - related to GPS position accuracy	UINT	INTEGER	Z_IDM
9	21	16	GST01645	GDOP	Geometrical_dilution_of_precision	UINT	INTEGER	GSKP0205TM
10	23	16	AST08013	MAXURA_MAXFIT_NU	MAXURA_MAXFIT_NU4_NOFSV / GPSA_NAVIGATION_SOL_WORD_06			
	0	5	ASTD1646	MAX_URA	maximum_user_range_accuracy** Duplicated from GST01646 **	SINT	INTEGER	Z_IDENTITY
	5	4	ASTD1647	MAX_FIT	maximum_curve_fit_interval_taken_from_all_SV_B4_s_use d_in_current_navigation_solution** Duplicated from GST01647 **	UINT	STRING	GSKT0206TM
	9	3	ASTD1648	N_U_4	not_used** Duplicated from GST01648 **	UINT	INTEGER	Z_IDENTITY
	12	4	ASTD1649	NOF_SV	Nof_SVs_contributing_to_the_nav_solution** Duplicated from GST01649 **	UINT	INTEGER	Z_IDENTITY
11	25	32	GST0164A	POS_X_MSB	X_2D_coordinate_MSB_part	SINT	INTEGER	GSKP0207TM
12	29	16	GST0164B	POS_X_LSB	X_2D_coordinate_LSB_part	UINT	INTEGER	Z_IDMM
13	31	32	GST0164C	POS_Y_MSB	Y_2D_coordinate_MSB_part	SINT	INTEGER	GSKP0207TM
14	35	16	GST0164D	POS_Y_LSB	Y_2D_coordinate_LSB_part	UINT	INTEGER	Z_IDMM





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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32105	GPSRA Navigation Solution (GPSR-SID=213)	3	25	11	6	182	Y	121	FIXED	AST00032	105	10000	Y	32105	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
15	37	32	GST0164E	POS_Z_MSB	Z_2D_coordinate_MSB_part	SINT	INTEGER	GSKP0207TM
16	41	16	GST0164F	POS_Z_LSB	Z_2D_coordinate_LSB_part	UINT	INTEGER	Z_IDMM
17	43	32	GST01650	VEL_X	X_2D_velocity	SINT	INTEGER	GSKP0049TM
18	47	32	GST01651	VEL_Y	Y_2D_velocity	SINT	INTEGER	GSKP0049TM
19	51	32	GST01652	VEL_Z	Z_2D_velocity	SINT	INTEGER	GSKP0049TM
20	55	16	GST01653	PDOP	position_dilution_of_precision	UINT	INTEGER	GSKP0205TM
21	57	16	GST01654	TDOP	time_dilution_of_precision	UINT	INTEGER	GSKP0205TM
22	59	32	GST01655	delta_x	position_error_in_x_direction	SINT	INTEGER	GSKP0207TM
23	63	32	GST01656	delta_y	position_error_in_y_direction	SINT	INTEGER	GSKP0207TM
24	67	32	GST01657	delta_z	position_error_in_z_direction	SINT	INTEGER	GSKP0207TM
25	71	32	GST01658	delta_t	GNSS_system_time_error	SINT	INTEGER	Z_IDNS
26	75	32	GST01659	delta_v_x	velocity_error_in_x_direction	SINT	INTEGER	GSKP0049TM
27	79	32	GST0165A	delta_v_y	velocity_error_in_y_direction	SINT	INTEGER	GSKP0049TM
28	83	32	GST0165B	delta_v_z	velocity_error_in_z_direction	SINT	INTEGER	GSKP0049TM
29	87	32	GST0165C	delta_f	receiver_clock_frequency_error	SINT	INTEGER	GSKP0208TM
30	91	32	GST0165D	HEIGHT	height_above_ellipsoid	UINT	INTEGER	GSKP0346TM
31	95	32	GST0165E	VERTSPEED	vertical_speed	SINT	INTEGER	GSKP0209TM
32	99	32	GST0165F	LONGITUDE	longitude	SINT	INTEGER	GSKP0210TM
33	103	32	GST01660	LATITUDE	latitude	SINT	INTEGER	GSKP0211TM



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**Name:** GSKP0048TM **Descr:** PV\_GPST\_SUBSEC **Referenced by:**  
**Unit:** us X Y GST01641 GPST\_SUBSEC

**Modelname:** GENERIC

0 0  
4294967295 999999.9997672

**Name:** GSKP0049TM **Descr:** VEL\_X **Referenced by:**  
**Unit:** m/s X Y GST01650 VEL\_X  
GST01651 VEL\_Y  
GST01652 VEL\_Z  
GST01659 delta\_v\_x  
GST0165A delta\_v\_y  
GST0165B delta\_v\_z

**Modelname:** GENERIC

-2147483648 -2147483.648  
2147483647 2147483.647

**Name:** GSKP0205TM **Descr:** GDOP **Referenced by:**  
**Unit:** X Y GST01645 GDOP  
GST01653 PDOP  
GST01654 TDOP

**Modelname:** GENERIC

0 0  
65535 655.35

**Name:** GSKP0207TM **Descr:** POS\_X\_MSB **Referenced by:**  
**Unit:** m X Y GST0164A POS\_X\_MSB  
GST0164C POS\_Y\_MSB  
GST0164E POS\_Z\_MSB  
GST01655 delta\_x  
GST01656 delta\_y  
GST01657 delta\_z

**Modelname:** GENERIC

-2147483648 -2147483.648  
2147483647 2147483.647

**Name:** GSKP0208TM **Descr:** delta\_f **Referenced by:**  
**Unit:** Hz X Y GST0165C delta\_f

**Modelname:** GENERIC

-2147483648 -2147483.648  
2147483647 2147483.647

**Name:** GSKP0209TM **Descr:** VERTSPEED **Referenced by:**  
**Unit:** mm/s X Y GST0165E VERTSPEED

**Modelname:** GENERIC

-2147483648 -21474836.48  
2147483647 21474836.47



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**Name:** GSKP0210TM **Descr:** LONGITUDE

**Unit:** deg X Y

**Modelname:** GENERIC

-1800000000

1800000000

**Referenced by:**

GST0165F LONGITUDE

-180

180

**Name:** GSKP0211TM **Descr:** LATITUDE

**Unit:** deg X Y

**Modelname:** GENERIC

-9000000000

9000000000

**Referenced by:**

GST01660 LATITUDE

-90

90

**Name:** GSKP0346TM **Descr:** HEIGHT

**Unit:** m X Y

**Modelname:** GENERIC

0

4294967295

**Referenced by:**

GST0165D HEIGHT

0

42949672.95

**Name:** Z\_IDM **Descr:** Identity metre [m]

**Unit:** m X Y

**Modelname:** GENERIC

**Referenced by:**

ASTD1644 QUAL\_INDEX

**Name:** Z\_IDMM **Descr:** Identity millimetre [mm]

**Unit:** mm X Y

**Modelname:** GENERIC

**Referenced by:**

GST0164B POS\_X\_LSB

GST0164D POS\_Y\_LSB

GST0164F POS\_Z\_LSB

**Name:** Z\_IDNS **Descr:** Identity [ns]

**Unit:** ns X Y

**Modelname:** GENERIC

**Referenced by:**

GST01658 delta\_t

**Name:** Z\_IDS **Descr:** Identity [s]

**Unit:** s X Y

**Modelname:** GENERIC

**Referenced by:**

AST08093 GPSA\_NS\_TS\_COAR

GST01640 GPST\_SEC

**Name:** Z\_IDS24 **Descr:** Identity [(2<sup>24</sup>)s]

**Unit:** s X Y

**Modelname:** GENERIC

**Referenced by:**

ASTD8092 GPSA\_NS\_TSF\_SSEC



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**Name:** ASKT2101TM **Descr:** ACQ\_STATUS

**Referenced by:**  
AST08004 GPSA\_NAVSOL\_ACQ

From	To	Text
0		NOT_ACQUIRED
1		ACQ_FAILED
2		ACQUIRED

**Name:** ASKT2102TM **Descr:** ACQ\_VALID\_FLAG

**Referenced by:**  
AST08005 GPSA\_NAVSOL\_VAL

From	To	Text
0		INVALID
1		VALID

**Name:** CSKT0120TM **Descr:** DMS SCET\_OBT

**Referenced by:**  
ASTD8093 GPSA\_NS\_TSF\_TYPE

From	To	Text
0		SCET
1		OBT

**Name:** CSKT0121TM **Descr:** DMS Internal\_External

**Referenced by:**  
ASTD8094 GPSA\_NS\_TSF\_SSRC

From	To	Text
0		INTERNAL
1		EXTERNAL

**Name:** CSKT0122TM **Descr:** DMS MajFrame\_PPS

**Referenced by:**  
ASTD8095 GPSA\_NS\_TSF\_SMET

From	To	Text
0		MIL
1		PPS

**Name:** CSKT0123TM **Descr:** DMS NoSync\_InSync

**Referenced by:**  
ASTD8096 GPSA\_NS\_TSF\_SSTS

From	To	Text
0		NO_SYNC
1		IN_SYNC

**Name:** CSKT0124TM **Descr:** DMS Disabled\_Enabled

**Referenced by:**  
ASTD8097 GPSA\_NS\_TSF\_SYNC

From	To	Text
0		DISABLED
1		ENABLED



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**Name:** GSKT0204TM **Descr:** NSM

**Referenced by:**  
ASTD1643 NSM

From	To	Text
1		PROPAGATED
2		FIRST_FIX
3		COLD_FIRST_FIX
4		LEAST_SQUARE
5		KALMAN_FILTER
7		INVALID

**Name:** GSKT0206TM **Descr:** MAX\_FIT

**Referenced by:**  
ASTD1647 MAX\_FIT

From	To	Text
0		4_H
1		6_H
2		8_H
3		14_H
4		26_H
5		50_H
6		74_H
7		98_H
8		122_H
9		146_H
15		PROPAGATED_PVT



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32106	GPSRA Time Correlation (GPSR-SID=214)	3	25	11	6	182	Y	53	FIXED	AST00032	106	10000	Y	32106	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	AST08057	GPSA_TCORR_ACQ	GPSA_TIME_CORRELATION_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	AST08058	GPSA_TCORR_VAL	GPSA_TIME_CORRELATION_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	AST08100	GPSA_TC_TS_COAR	GPSA_TIME_CORR_TS_COARSE	UINT	INTEGER	Z_IDS
5	7	32	ASTG8101	GPSA_TC_TS_FINE	GPSA_TIME_CORR_TS_FINE			
	0	24	ASTD8102	GPSA_TC_TSF_SSEC	Fine_Time	UINT	INTEGER	Z_IDS24
	27	1	ASTD8103	GPSA_TC_TSF_TYPE	Time_Type	UINT	STRING	CSKT0120TM
	28	1	ASTD8104	GPSA_TC_TSF_SSRC	Sync_Source	UINT	STRING	CSKT0121TM
	29	1	ASTD8105	GPSA_TC_TSF_SMET	Sync_Method	UINT	STRING	CSKT0122TM
	30	1	ASTD8106	GPSA_TC_TSF_SSTS	Sync_Status	UINT	STRING	CSKT0123TM
	31	1	ASTD8107	GPSA_TC_TSF_SYNC	Sync_Enable_Disable	UINT	STRING	CSKT0124TM
6	11	16	AST08060	NU2_NSM_QUALID	NU2_NSM_QUALID / GPSA_TIME_CORRELATION_WORD_00			
	0	1	ASTD167C	N_U_2	not_used** Duplicated from GST0167C **	UINT	INTEGER	Z_IDENTITY
	1	3	ASTD167D	NSM	navigation_solution_method** Duplicated from GST0167D **	UINT	STRING	GSKT0212TM
	4	12	ASTD167E	QUAL_IDX	Quality_index** Duplicated from GST0167E **	UINT	INTEGER	Z_IDNSOM
7	13	16	AST08061	TDOP	Time_dilution_of_precision / GPSA_TIME_CORRELATION_WORD_01	UINT	INTEGER	Z_IDENTITY
8	15	16	AST08062	IMT_MSB_1	Instrument_Measurement_Time_tag_MSB_part_1 / GPSA_TIME_CORRELATION_WORD_02	UINT	INTEGER	Z_IDENTITY
9	17	16	AST08063	IMT_MSB_2	Instrument_Measurement_Time_tag_MSB_part_2 / GPSA_TIME_CORRELATION_WORD_03	UINT	INTEGER	Z_IDENTITY
10	19	16	AST08064	IMT_LSB_1	Instrument_Measurement_Time_tag_LSB_part_1 / GPSA_TIME_CORRELATION_WORD_04	UINT	INTEGER	Z_IDENTITY
11	21	16	AST08065	IMT_LSB_2	Instrument_Measurement_Time_tag_LSB_part_2 / GPSA_TIME_CORRELATION_WORD_05	UINT	INTEGER	Z_IDENTITY
12	23	16	AST08066	GPST_SEC_1	seconds_1 / GPSA_TIME_CORRELATION_WORD_06	UINT	INTEGER	Z_IDENTITY
13	25	16	AST08067	GPST_SEC_2	seconds_2 / GPSA_TIME_CORRELATION_WORD_07	UINT	INTEGER	Z_IDENTITY
14	27	16	AST08068	GPST_SUBSEC_1	fractions_of_a_second_1 / GPSA_TIME_CORRELATION_WORD_08	UINT	INTEGER	Z_IDENTITY
15	29	16	AST08069	GPST_SUBSEC_2	fractions_of_a_second_2 / GPSA_TIME_CORRELATION_WORD_09	UINT	INTEGER	Z_IDENTITY
16	31	16	AST08070	UTC_DAYS	UTC_Time_Days_part / GPSA_TIME_CORRELATION_WORD_10	UINT	INTEGER	Z_IDENTITY
17	33	16	AST08071	UTC_MSEC_1	UTC_Time_MSEC_part_1 /	UINT	INTEGER	Z_IDENTITY



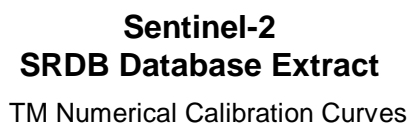
# Sentinel-2 SRDB Database Extract

TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32106	GPSRA Time Correlation (GPSR-SID=214)	3	25	11	6	182	Y	53	FIXED	AST00032	106	10000	Y	32106	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
18	35	16	AST08072	UTC_MSEC_2	GPSA_TIME_CORRELATION_WORD_11 UTC_Time_MSEC_part_2 / GPSA_TIME_CORRELATION_WORD_12	UINT	INTEGER	Z_IDENTITY
19	37	16	AST08073	UTC_USEC	UTC_Time_USEC_part / GPSA_TIME_CORRELATION_WORD_13	UINT	INTEGER	Z_IDENTITY



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<b>Name:</b>	Z_IDNSOM	<b>Descr:</b>	Identity with unit nsom		
<b>Unit:</b>	nsom		<b>X</b>		<b>Y</b>
<b>Modelname:</b>	GENERIC				

Referenced by:  
ASTD167E      QUAL IDX

<b>Name:</b>	Z_IDS	<b>Descr:</b>	Identity [s]		
<b>Unit:</b>	s		X	Y	
<b>Modelname:</b>	GENERIC				

**Referenced by:**  
AST08100      GPSA\_TC\_TS\_COAR

<b>Name:</b>	Z_IDSM24	<b>Descr:</b>	Identity [(2^24)s]		
<b>Unit:</b>	s		<b>X</b>		<b>Y</b>
<b>Modelname:</b>		GENERIC			

Referenced by:  
ASTD8102      GPSA\_TC\_TSF\_SSEC





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**Name:** ASKT2101TM **Descr:** ACQ\_STATUS

**Referenced by:**  
AST08057 GPSA\_TCORR\_ACQ

From	To	Text
0		NOT_ACQUIRED
1		ACQ_FAILED
2		ACQUIRED

**Name:** ASKT2102TM **Descr:** ACQ\_VALID\_FLAG

**Referenced by:**  
AST08058 GPSA\_TCORR\_VAL

From	To	Text
0		INVALID
1		VALID

**Name:** CSKT0120TM **Descr:** DMS SCET\_OBT

**Referenced by:**  
ASTD8103 GPSA\_TC\_TSF\_TYPE

From	To	Text
0		SCET
1		OBT

**Name:** CSKT0121TM **Descr:** DMS Internal\_External

**Referenced by:**  
ASTD8104 GPSA\_TC\_TSF\_SSRC

From	To	Text
0		INTERNAL
1		EXTERNAL

**Name:** CSKT0122TM **Descr:** DMS MajFrame\_PPS

**Referenced by:**  
ASTD8105 GPSA\_TC\_TSF\_SMET

From	To	Text
0		MIL
1		PPS

**Name:** CSKT0123TM **Descr:** DMS NoSync\_InSync

**Referenced by:**  
ASTD8106 GPSA\_TC\_TSF\_SSTS

From	To	Text
0		NO_SYNC
1		IN_SYNC

**Name:** CSKT0124TM **Descr:** DMS Disabled\_Enabled

**Referenced by:**  
ASTD8107 GPSA\_TC\_TSF\_SYNC

From	To	Text
0		DISABLED
1		ENABLED



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**Name:** GSKT0212TM **Descr:** NSM

**Referenced by:**  
ASTD167D NSM

From	To	Text
1		PROPAGATED
2		FIRST_FIX
3		COLD_FIRST_FIX
4		LEAST_SQUARE
5		KALMAN_FILTER
7		INVALID

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32108	GPSRB Navigation Solution (GPSR-SID=213)	3	25	11	6	182	Y	121	FIXED	AST00032	108	10000	Y	32108	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	AST18004	GPSB_NAVSOL_ACQ	GPSB_NAVIGATION_SOL_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	AST18005	GPSB_NAVSOL_VAL	GPSB_NAVIGATION_SOL_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	AST18093	GPSB_NS_TS_COAR	GPSB_NAV_SOL_TS_COARSE	UINT	INTEGER	Z_IDS
5	7	32	ASTK8091	GPSB_NS_TS_FINE	GPSB_NAV_SOL_TS_FINE			
	0	24	ASTT8092	GPSB_NS_TSF_SSEC	Fine_Time	UINT	INTEGER	Z_IDS M24
	27	1	ASTT8093	GPSB_NS_TSF_TYPE	Time_Type	UINT	STRING	CSKT0120TM
	28	1	ASTT8094	GPSB_NS_TSF_SSRC	Sync_Source	UINT	STRING	CSKT0121TM
	29	1	ASTT8095	GPSB_NS_TSF_SMET	Sync_Method	UINT	STRING	CSKT0122TM
	30	1	ASTT8096	GPSB_NS_TSF_SSTS	Sync_Status	UINT	STRING	CSKT0123TM
	31	1	ASTT8097	GPSB_NS_TSF_SYNC	Sync_Enable_Disable	UINT	STRING	CSKT0124TM
6	11	32	GST0B5CF	GPST_SEC	seconds	UINT	INTEGER	Z_IDS
7	15	32	GST0B5D0	GPST_SUBSEC	fractions_of_a_second	UINT	INTEGER	GSKP0048TM
8	19	16	AST18011	NU3_NSM_QUALIN	NU3_NSM_QUALIN / GPSB_NAVIGATION_SOL_WORD_04			
	0	1	ASTDB5D1	N_U_3	not_used** Duplicated from GST0B5D1 **	UINT	INTEGER	Z_IDENTITY
	1	3	ASTDB5D2	NSM	Navigation_solution_method** Duplicated from GST0B5D2 **	UINT	STRING	GSKT0204TM
	4	12	ASTDB5D3	QUAL_INDEX	Quality_index - related to GPS position accuracy	UINT	INTEGER	Z_IDM
9	21	16	GST0B5D4	GDOP	Geometrical_dilution_of_precision	UINT	INTEGER	GSKP0205TM
10	23	16	AST18013	MAXURA_MAXFIT_NU	MAXURA_MAXFIT_NU4_NOFSV / GPSB_NAVIGATION_SOL_WORD_06			
	0	5	ASTDB5D5	MAX_URA	maximum_user_range_accuracy** Duplicated from GST0B5D5 **	SINT	INTEGER	Z_IDENTITY
	5	4	ASTDB5D6	MAX_FIT	maximum_curve_fit_interval_taken_from_all_SV_B4_s_use d_in_current_navigation_solution** Duplicated from GST0B5D6 **	UINT	STRING	GSKT0206TM
	9	3	ASTDB5D7	N_U_4	not_used** Duplicated from GST0B5D7 **	UINT	INTEGER	Z_IDENTITY
	12	4	ASTDB5D8	NOF_SV	Nof_SVs_contributing_to_the_nav_solution** Duplicated from GST0B5D8 **	UINT	INTEGER	Z_IDENTITY
11	25	32	GST0B5D9	POS_X_MSB	X_2D_coordinate_MSB_part	SINT	INTEGER	GSKP0207TM
12	29	16	GST0B5DA	POS_X_LSB	X_2D_coordinate_LSB_part	UINT	INTEGER	Z_IDMM
13	31	32	GST0B5DB	POS_Y_MSB	Y_2D_coordinate_MSB_part	SINT	INTEGER	GSKP0207TM
14	35	16	GST0B5DC	POS_Y_LSB	Y_2D_coordinate_LSB_part	UINT	INTEGER	Z_IDMM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32108	GPSRB Navigation Solution (GPSR-SID=213)	3	25	11	6	182	Y	121	FIXED	AST00032	108	10000	Y	32108	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
15	37	32	GST0B5DD	POS_Z_MSB	Z_2D_coordinate_MSB_part	SINT	INTEGER	GSKP0207TM
16	41	16	GST0B5DE	POS_Z_LSB	Z_2D_coordinate_LSB_part	UINT	INTEGER	Z_IDMM
17	43	32	GST0B5DF	VEL_X	X_2D_velocity	SINT	INTEGER	GSKP0049TM
18	47	32	GST0B5E0	VEL_Y	Y_2D_velocity	SINT	INTEGER	GSKP0049TM
19	51	32	GST0B5E1	VEL_Z	Z_2D_velocity	SINT	INTEGER	GSKP0049TM
20	55	16	GST0B5E2	PDOP	position_dilution_of_precision	UINT	INTEGER	GSKP0205TM
21	57	16	GST0B5E3	TDOP	time_dilution_of_precision	UINT	INTEGER	GSKP0205TM
22	59	32	GST0B5E4	delta_x	position_error_in_x_direction	SINT	INTEGER	GSKP0207TM
23	63	32	GST0B5E5	delta_y	position_error_in_y_direction	SINT	INTEGER	GSKP0207TM
24	67	32	GST0B5E6	delta_z	position_error_in_z_direction	SINT	INTEGER	GSKP0207TM
25	71	32	GST0B5E7	delta_t	GNSS_system_time_error	SINT	INTEGER	Z_IDNS
26	75	32	GST0B5E8	delta_v_x	velocity_error_in_x_direction	SINT	INTEGER	GSKP0049TM
27	79	32	GST0B5E9	delta_v_y	velocity_error_in_y_direction	SINT	INTEGER	GSKP0049TM
28	83	32	GST0B5EA	delta_v_z	velocity_error_in_z_direction	SINT	INTEGER	GSKP0049TM
29	87	32	GST0B5EB	delta_f	receiver_clock_frequency_error	SINT	INTEGER	GSKP0208TM
30	91	32	GST0B5EC	HEIGHT	height_above_ellipsoid	UINT	INTEGER	GSKP0346TM
31	95	32	GST0B5ED	VERTSPEED	vertical_speed	SINT	INTEGER	GSKP0209TM
32	99	32	GST0B5EE	LONGITUDE	longitude	SINT	INTEGER	GSKP0210TM
33	103	32	GST0B5EF	LATITUDE	latitude	SINT	INTEGER	GSKP0211TM



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**Name:** GSKP0048TM **Descr:** PV\_GPST\_SUBSEC **Referenced by:**  
**Unit:** us X Y GST0B5D0 GPST\_SUBSEC

**Modelname:** GENERIC

0 0  
4294967295 999999.9997672

**Name:** GSKP0049TM **Descr:** VEL\_X **Referenced by:**  
**Unit:** m/s X Y GST0B5DF VEL\_X  
GST0B5E0 VEL\_Y  
GST0B5E1 VEL\_Z  
GST0B5E8 delta\_v\_x  
GST0B5E9 delta\_v\_y  
GST0B5EA delta\_v\_z

**Modelname:** GENERIC

-2147483648 -2147483.648  
2147483647 2147483.647

**Name:** GSKP0205TM **Descr:** GDOP **Referenced by:**  
**Unit:** X Y GST0B5D4 GDOP  
GST0B5E2 PDOP  
GST0B5E3 TDOP

**Modelname:** GENERIC

0 0  
65535 655.35

**Name:** GSKP0207TM **Descr:** POS\_X\_MSB **Referenced by:**  
**Unit:** m X Y GST0B5D9 POS\_X\_MSB  
GST0B5DB POS\_Y\_MSB  
GST0B5DD POS\_Z\_MSB  
GST0B5E4 delta\_x  
GST0B5E5 delta\_y  
GST0B5E6 delta\_z

**Modelname:** GENERIC

-2147483648 -2147483.648  
2147483647 2147483.647

**Name:** GSKP0208TM **Descr:** delta\_f **Referenced by:**  
**Unit:** Hz X Y GST0B5EB delta\_f

**Modelname:** GENERIC

-2147483648 -2147483.648  
2147483647 2147483.647

**Name:** GSKP0209TM **Descr:** VERTSPEED **Referenced by:**  
**Unit:** mm/s X Y GST0B5ED VERTSPEED

**Modelname:** GENERIC

-2147483648 -21474836.48  
2147483647 21474836.47



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**Name:** GSKP0210TM **Descr:** LONGITUDE **Referenced by:**  
**Unit:** deg X Y GST0B5EE LONGITUDE  
**Modelname:** GENERIC  
-1800000000 -180  
1800000000 180

**Name:** GSKP0211TM **Descr:** LATITUDE **Referenced by:**  
**Unit:** deg X Y GST0B5EF LATITUDE  
**Modelname:** GENERIC  
-9000000000 -90  
9000000000 90

**Name:** GSKP0346TM **Descr:** HEIGHT **Referenced by:**  
**Unit:** m X Y GST0B5EC HEIGHT  
**Modelname:** GENERIC  
0 0  
4294967295 42949672.95

**Name:** Z\_IDM **Descr:** Identity metre [m] **Referenced by:**  
**Unit:** m X Y ASTDB5D3 QUAL\_INDEX  
**Modelname:** GENERIC

**Name:** Z\_IDMM **Descr:** Identity millimetre [mm] **Referenced by:**  
**Unit:** mm X Y GST0B5DA POS\_X\_LSB  
GST0B5DC POS\_Y\_LSB  
GST0B5DE POS\_Z\_LSB  
**Modelname:** GENERIC

**Name:** Z\_IDNS **Descr:** Identity [ns] **Referenced by:**  
**Unit:** ns X Y GST0B5E7 delta\_t  
**Modelname:** GENERIC

**Name:** Z\_IDS **Descr:** Identity [s] **Referenced by:**  
**Unit:** s X Y AST18093 GPSB\_NS\_TS\_COAR  
GST0B5CF GPST\_SEC  
**Modelname:** GENERIC

**Name:** Z\_IDS24 **Descr:** Identity [(2<sup>24</sup>)s] **Referenced by:**  
**Unit:** s X Y ASTT8092 GPSB\_NS\_TSF\_SSEC  
**Modelname:** GENERIC



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**Name:** ASKT2101TM **Descr:** ACQ\_STATUS

**Referenced by:**  
AST18004 GPSB\_NAVSOL\_ACQ

From	To	Text
0		NOT_ACQUIRED
1		ACQ_FAILED
2		ACQUIRED

**Name:** ASKT2102TM **Descr:** ACQ\_VALID\_FLAG

**Referenced by:**  
AST18005 GPSB\_NAVSOL\_VAL

From	To	Text
0		INVALID
1		VALID

**Name:** CSKT0120TM **Descr:** DMS SCET\_OBT

**Referenced by:**  
ASTT8093 GPSB\_NS\_TSF\_TYPE

From	To	Text
0		SCET
1		OBT

**Name:** CSKT0121TM **Descr:** DMS Internal\_External

**Referenced by:**  
ASTT8094 GPSB\_NS\_TSF\_SSRC

From	To	Text
0		INTERNAL
1		EXTERNAL

**Name:** CSKT0122TM **Descr:** DMS MajFrame\_PPS

**Referenced by:**  
ASTT8095 GPSB\_NS\_TSF\_SMET

From	To	Text
0		MIL
1		PPS

**Name:** CSKT0123TM **Descr:** DMS NoSync\_InSync

**Referenced by:**  
ASTT8096 GPSB\_NS\_TSF\_SSTS

From	To	Text
0		NO_SYNC
1		IN_SYNC

**Name:** CSKT0124TM **Descr:** DMS Disabled\_Enabled

**Referenced by:**  
ASTT8097 GPSB\_NS\_TSF\_SYNC

From	To	Text
0		DISABLED
1		ENABLED



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**Name:** GSKT0204TM **Descr:** NSM

**Referenced by:**  
ASTDB5D2 NSM

From	To	Text
1		PROPAGATED
2		FIRST_FIX
3		COLD_FIRST_FIX
4		LEAST_SQUARE
5		KALMAN_FILTER
7		INVALID

**Name:** GSKT0206TM **Descr:** MAX\_FIT

**Referenced by:**  
ASTDB5D6 MAX\_FIT

From	To	Text
0		4_H
1		6_H
2		8_H
3		14_H
4		26_H
5		50_H
6		74_H
7		98_H
8		122_H
9		146_H
15		PROPAGATED_PVT





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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32109	GPSRB Time Correlation (GPSR-SID=214)	3	25	11	6	182	Y	53	FIXED	AST00032	109	10000	Y	32109	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	AST18057	GPSB_TCORR_ACQ	GPSB_TIME_CORRELATION_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	AST18058	GPSB_TCORR_VAL	GPSB_TIME_CORRELATION_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	AST18100	GPSB_TC_TS_COAR	GPSB_TIME_CORR_TS_COARSE	UINT	INTEGER	Z_IDS
5	7	32	ASTK8101	GPSB_TC_TS_FINE	GPSB_TIME_CORR_TS_FINE			
	0	24	ASTT8102	GPSB_TC_TSF_SSEC	Fine_Time	UINT	INTEGER	Z_IDS24
	27	1	ASTT8103	GPSB_TC_TSF_TYPE	Time_Type	UINT	STRING	CSKT0120TM
	28	1	ASTT8104	GPSB_TC_TSF_SSRC	Sync_Source	UINT	STRING	CSKT0121TM
	29	1	ASTT8105	GPSB_TC_TSF_SMET	Sync_Method	UINT	STRING	CSKT0122TM
	30	1	ASTT8106	GPSB_TC_TSF_SSTS	Sync_Status	UINT	STRING	CSKT0123TM
	31	1	ASTT8107	GPSB_TC_TSF_SYNC	Sync_Enable_Disable	UINT	STRING	CSKT0124TM
6	11	16	AST18060	NU2_NSM_QUALID	NU2_NSM_QUALID / GPSB_TIME_CORRELATION_WORD_00			
	0	1	ASTDB60B	N_U_2	not_used** Duplicated from GST0B60B **	UINT	INTEGER	Z_IDENTITY
	1	3	ASTDB60C	NSM	navigation_solution_method** Duplicated from GST0B60C **	UINT	STRING	GSKT0212TM
	4	12	ASTDB60D	QUAL_IDX	Quality_index** Duplicated from GST0B60D **	UINT	INTEGER	Z_IDNSOM
7	13	16	AST18061	TDOP	Time_dilution_of_precision / GPSB_TIME_CORRELATION_WORD_01	UINT	INTEGER	Z_IDENTITY
8	15	16	AST18062	IMT_MSB_1	Instrument_Measurement_Time_tag_MSB_part_1 / GPSB_TIME_CORRELATION_WORD_02	UINT	INTEGER	Z_IDENTITY
9	17	16	AST18063	IMT_MSB_2	Instrument_Measurement_Time_tag_MSB_part_2 / GPSB_TIME_CORRELATION_WORD_03	UINT	INTEGER	Z_IDENTITY
10	19	16	AST18064	IMT_LSB_1	Instrument_Measurement_Time_tag_LSB_part_1 / GPSB_TIME_CORRELATION_WORD_04	UINT	INTEGER	Z_IDENTITY
11	21	16	AST18065	IMT_LSB_2	Instrument_Measurement_Time_tag_LSB_part_2 / GPSB_TIME_CORRELATION_WORD_05	UINT	INTEGER	Z_IDENTITY
12	23	16	AST18066	GPST_SEC_1	seconds_1 / GPSB_TIME_CORRELATION_WORD_06	UINT	INTEGER	Z_IDENTITY
13	25	16	AST18067	GPST_SEC_2	seconds_2 / GPSB_TIME_CORRELATION_WORD_07	UINT	INTEGER	Z_IDENTITY
14	27	16	AST18068	GPST_SUBSEC_1	fractions_of_a_second_1 / GPSB_TIME_CORRELATION_WORD_08	UINT	INTEGER	Z_IDENTITY
15	29	16	AST18069	GPST_SUBSEC_2	fractions_of_a_second_2 / GPSB_TIME_CORRELATION_WORD_09	UINT	INTEGER	Z_IDENTITY
16	31	16	AST18070	UTC_DAYS	UTC_Time_Days_part / GPSB_TIME_CORRELATION_WORD_10	UINT	INTEGER	Z_IDENTITY
17	33	16	AST18071	UTC_MSEC_1	UTC_Time_MSEC_part_1 /	UINT	INTEGER	Z_IDENTITY



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32109	GPSRB Time Correlation (GPSR-SID=214)	3	25	11	6	182	Y	53	FIXED	AST00032	109	10000	Y	32109	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
18	35	16	AST18072	UTC_MSEC_2	GPSB_TIME_CORRELATION_WORD_11 UTC_Time_MSEC_part_2 / GPSB_TIME_CORRELATION_WORD_12	UINT	INTEGER	Z_IDENTITY
19	37	16	AST18073	UTC_USEC	UTC_Time_USEC_part / GPSB_TIME_CORRELATION_WORD_13	UINT	INTEGER	Z_IDENTITY



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<b>Name:</b>	Z_IDNSOM	<b>Descr:</b>	Identity with unit nsom		
<b>Unit:</b>	nsom		<b>X</b>		<b>Y</b>
<b>Modelname:</b>		GENERIC			

Referenced by:

ASTDB60D	QUAL IDX
----------	----------

<b>Name:</b>	Z_IDS	<b>Descr:</b>	Identity [s]		
<b>Unit:</b>	s		X	Y	
<b>Modelname:</b>	GENERIC				

Referenced by:

AST18100      GPSB\_TC\_TS\_COAR

<b>Name:</b>	Z_IDSM24	<b>Descr:</b>	Identity [(2^24)s]		
<b>Unit:</b>	s		<b>X</b>		<b>Y</b>
<b>Modelname:</b>		GENERIC			

**Referenced by:**

ASTT8102      GPSB\_TC\_TSF\_SSEC



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**Name:** ASKT2101TM **Descr:** ACQ\_STATUS

**Referenced by:**  
AST18057 GPSB\_TCORR\_ACQ

From	To	Text
0		NOT_ACQUIRED
1		ACQ_FAILED
2		ACQUIRED

**Name:** ASKT2102TM **Descr:** ACQ\_VALID\_FLAG

**Referenced by:**  
AST18058 GPSB\_TCORR\_VAL

From	To	Text
0		INVALID
1		VALID

**Name:** CSKT0120TM **Descr:** DMS SCET\_OBT

**Referenced by:**  
ASTT8103 GPSB\_TC\_TSF\_TYPE

From	To	Text
0		SCET
1		OBT

**Name:** CSKT0121TM **Descr:** DMS Internal\_External

**Referenced by:**  
ASTT8104 GPSB\_TC\_TSF\_SSRC

From	To	Text
0		INTERNAL
1		EXTERNAL

**Name:** CSKT0122TM **Descr:** DMS MajFrame\_PPS

**Referenced by:**  
ASTT8105 GPSB\_TC\_TSF\_SMET

From	To	Text
0		MIL
1		PPS

**Name:** CSKT0123TM **Descr:** DMS NoSync\_InSync

**Referenced by:**  
ASTT8106 GPSB\_TC\_TSF\_SSTS

From	To	Text
0		NO_SYNC
1		IN_SYNC

**Name:** CSKT0124TM **Descr:** DMS Disabled\_Enabled

**Referenced by:**  
ASTT8107 GPSB\_TC\_TSF\_SYNC

From	To	Text
0		DISABLED
1		ENABLED



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**Name:** GSKT0212TM **Descr:** NSM

**Referenced by:**  
ASTDB60C NSM

From	To	Text
1		PROPAGATED
2		FIRST_FIX
3		COLD_FIRST_FIX
4		LEAST_SQUARE
5		KALMAN_FILTER
7		INVALID

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32110	IMU1234_HK	3	25	11	6	182	Y	103	FIXED	AST00032	110	10000	Y	32110	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	32	AST82112	IMU1_1HZ_HK_S	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU1_1HZ_HK_DATA_ATTR_SEC	UINT	INTEGER	Z_IDS
3	5	16	AST82113	IMU1_1HZ_HK_SS	COBT Time Stamp at Data Acquisition (Fine Time) / IMU1_1HZ_HK_DATA_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
4	7	32	AST82114	IMU1_1HZ_HK_ACQ	IMU1_1HZ_HK_DATA_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
5	11	32	AST82115	IMU1_1HZ_HK_VAL	IMU1_1HZ_HK_DATA_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
6	15	16	AST82153	Opt_Sce_Temp	Optical_Source_temperature for IMU_1			
	4	12	AJTD0360	Opt_Sce_temper	Opt_Source_Temp for IMU_1	UINT	INTEGER	AJKP0050TM
7	17	16	AST82154	Board_Temp	Board_temperature for IMU_1			
	4	12	AJTD0370	Board_temper	Board_Temp for IMU_1	UINT	INTEGER	AJKP0050TM
8	19	16	AST82155	Temp_Ref_V_Of	Temp_Ref_Volt_Offset for IMU_1			
	4	12	AJTD0380	Temp_Ref_Of	Temp_Ref_Offset for IMU_1	UINT	INTEGER	Z_IDENTITY
9	21	16	AST82156	Temp_Ref_Volt	Temp_Ref_Volt for IMU_1			
	4	12	AJTD0390	Temp_Ref	Temp_Ref for IMU_1	UINT	INTEGER	AJKP0080TM
10	23	32	AST82167	IMU2_1HZ_HK_S	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU2_1HZ_HK_DATA_ATTR_SEC	UINT	INTEGER	Z_IDS
11	27	16	AST82168	IMU2_1HZ_HK_SS	COBT Time Stamp at Data Acquisition (Fine Time) / IMU2_1HZ_HK_DATA_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
12	29	32	AST82169	IMU2_1HZ_HK_ACQ	IMU2_1HZ_HK_DATA_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
13	33	32	AST82170	IMU2_1HZ_HK_VAL	IMU2_1HZ_HK_DATA_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
14	37	16	AST82208	Opt_Sce_Temp	Optical_Source_temperature for IMU_2			
	4	12	AJTD0860	Opt_Sce_temper	Opt_Source_Temp for IMU_2	UINT	INTEGER	AJKP0050TM
15	39	16	AST82209	Board_Temp	Board_temperature for IMU_2			
	4	12	AJTD0870	Board_temper	Board_Temp for IMU_2	UINT	INTEGER	AJKP0050TM
16	41	16	AST82210	Temp_Ref_V_Of	Temp_Ref_Volt_Offset for IMU_2			
	4	12	AJTD0880	Temp_Ref_Of	Temp_Ref_Offset for IMU_2	UINT	INTEGER	Z_IDENTITY
17	43	16	AST82211	Temp_Ref_Volt	Temp_Ref_Volt for IMU_2			
	4	12	AJTD0890	Temp_Ref	Temp_Ref for IMU_2	UINT	INTEGER	AJKP0080TM
18	45	32	AST82222	IMU3_1HZ_HK_S	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU3_1HZ_HK_DATA_ATTR_SEC	UINT	INTEGER	Z_IDS
19	49	16	AST82223	IMU3_1HZ_HK_SS	COBT Time Stamp at Data Acquisition (Fine Time) / IMU3_1HZ_HK_DATA_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
20	51	32	AST82224	IMU3_1HZ_HK_ACQ	IMU3_1HZ_HK_DATA_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32110	IMU1234_HK	3	25	11	6	182	Y	103	FIXED	AST00032	110	10000	Y	32110	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
21	55	32	AST82225	IMU3_1HZ_HK_VAL	IMU3_1HZ_HK_DATA_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
22	59	16	AST82263	Opt_Sce_Temp	Optical_Source_temperature for IMU_3			
	4	12	AJTD1360	Opt_Sce_temper	Opt_Source_Temp for IMU_3	UINT	INTEGER	AJKP0050TM
23	61	16	AST82264	Board_Temp	Board_temperature for IMU_3			
	4	12	AJTD1370	Board_temper	Board_Temp for IMU_3	UINT	INTEGER	AJKP0050TM
24	63	16	AST82265	Temp_Ref_V_Of	Temp_Ref_Volt_Offset for IMU_3			
	4	12	AJTD1380	Temp_Ref_Of	Temp_Ref_Offset for IMU_3	UINT	INTEGER	Z_IDENTITY
25	65	16	AST82266	Temp_Ref_Volt	Temp_Ref_Volt for IMU_3			
	4	12	AJTD1390	Temp_Ref	Temp_Ref for IMU_3	UINT	INTEGER	AJKP0080TM
26	67	32	AST82277	IMU4_1HZ_HK_S	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU4_1HZ_HK_DATA_ATTR_SEC	UINT	INTEGER	Z_IDS
27	71	16	AST82278	IMU4_1HZ_HK_SS	COBT Time Stamp at Data Acquisition (Fine Time) / IMU4_1HZ_HK_DATA_ATTR_SUBSEC	UINT	INTEGER	Z_IDS16
28	73	32	AST82279	IMU4_1HZ_HK_ACQ	IMU4_1HZ_HK_DATA_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
29	77	32	AST82280	IMU4_1HZ_HK_VAL	IMU4_1HZ_HK_DATA_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
30	81	16	AST82318	Opt_Sce_Temp	Optical_Source_temperature for IMU_4			
	4	12	AJTD1860	Opt_Sce_temper	Opt_Source_Temp for IMU_4	UINT	INTEGER	AJKP0050TM
31	83	16	AST82319	Board_Temp	Board_temperature for IMU_4			
	4	12	AJTD1870	Board_temper	Board_Temp for IMU_4	UINT	INTEGER	AJKP0050TM
32	85	16	AST82320	Temp_Ref_V_Of	Temp_Ref_Volt_Offset for IMU_4			
	4	12	AJTD1880	Temp_Ref_Of	Temp_Ref_Offset for IMU_4	UINT	INTEGER	Z_IDENTITY
33	87	16	AST82321	Temp_Ref_Volt	Temp_Ref_Volt for IMU_4			
	4	12	AJTD1890	Temp_Ref	Temp_Ref for IMU_4	UINT	INTEGER	AJKP0080TM



# Sentinel-2

## SRDB Database Extract

### TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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**Name:** AJKP0050TM **Descr:** Temperature\_degC

**Unit:** degC X Y

#### Referenced by:

AJTD0360 Opt\_Sce\_temper  
AJTD0370 Board\_temper  
AJTD0860 Opt\_Sce\_temper  
AJTD0870 Board\_temper  
AJTD1360 Opt\_Sce\_temper  
AJTD1370 Board\_temper  
AJTD1860 Opt\_Sce\_temper  
AJTD1870 Board\_temper

**Modelname:** GENERIC

0	103.735831356912
250	103.735831356912
650	66.6016391307052
1050	47.9209427123329
1450	34.3274834223256
1850	22.6843391226263
2250	11.4863202321349
2650	-0.634461319172942
3050	-16.3587040738443
3450	-55.5216909428595
4095	-55.5216909428595

**Name:** AJKP0080TM **Descr:** Temp\_voltage

**Unit:** V X Y

#### Referenced by:

AJTD0390 Temp\_Ref  
AJTD0890 Temp\_Ref  
AJTD1390 Temp\_Ref  
AJTD1890 Temp\_Ref

**Modelname:** GENERIC

0	0
4095	2.94021

**Name:** Z\_IDS **Descr:** Identity [s]

**Unit:** s X Y

#### Referenced by:

AST82112 IMU1\_1HZ\_HK\_S  
AST82167 IMU2\_1HZ\_HK\_S  
AST82222 IMU3\_1HZ\_HK\_S  
AST82277 IMU4\_1HZ\_HK\_S

**Modelname:** GENERIC

**Name:** Z\_IDSM16 **Descr:** Identity [(2^16)s]

**Unit:** s X Y

#### Referenced by:

AST82113 IMU1\_1HZ\_HK\_SS  
AST82168 IMU2\_1HZ\_HK\_SS  
AST82223 IMU3\_1HZ\_HK\_SS  
AST82278 IMU4\_1HZ\_HK\_SS

**Modelname:** GENERIC





**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
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**Name:** ASKT2101TM **Descr:** ACQ\_STATUS

**Referenced by:**

From	To	Text
------	----	------

AST82114	IMU1_1HZ_HK_ACQ
AST82169	IMU2_1HZ_HK_ACQ
AST82224	IMU3_1HZ_HK_ACQ
AST82279	IMU4_1HZ_HK_ACQ

0	NOT_ACQUIRED
1	ACQ_FAILED
2	ACQUIRED

---

**Name:** ASKT2102TM **Descr:** ACQ\_VALID\_FLAG

**Referenced by:**

From	To	Text
------	----	------

AST82115	IMU1_1HZ_HK_VAL
AST82170	IMU2_1HZ_HK_VAL
AST82225	IMU3_1HZ_HK_VAL
AST82280	IMU4_1HZ_HK_VAL

0	INVALID
1	VALID

---



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32111	IMU1234 Datasample1	3	25	11	6	182	Y	119	FIXED	AST00032	111	10000	Y	32111	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	ASTA7011	IMU1S1_ACQ_FLAG	IMU1_INERTIAL_D_SAMP_1_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	ASTA7012	IMU1S1_VALID_FLG	IMU1_INERTIAL_D_SAMP_1_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	ASTA7009	IMU1S1_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU1_INERTIAL_D_SAMP_1_ATTR_SEC	UINT	INTEGER	Z_IDS
5	7	16	ASTA7010	IMU1S1_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU1_INERTIAL_D_SAMP_1_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
6	9	32	ASTA7002	Filtered_angle	Filtered angle for IMU_1			
	0	16	AJTD0100	Filt_angle_MS_wd	Filtered angle MS word for IMU_1	UINT	INTEGER	Z_IDENTITY
	16	16	AJTD0101	Filt_angle_LS_wd	Filtered angle LS word for IMU_1	UINT	INTEGER	Z_IDENTITY
7	13	16	ASTA7003	Gy_ch_Hth_Stus	Gyro Channel Health Status for IMU_1			
	5	10	AJTD0111	Det_Hth_Stus	Health status for IMU_1	UINT	INTEGER	Z_IDENTITY
	15	1	AJTD0110	Validity_bit	Validity bit for IMU_1	UINT	INTEGER	Z_IDENTITY
8	15	16	ASTA7004	Orga_Temp	Organiser temperature for IMU_1			
	4	12	AJTD0120	Orga_temper	Org temperature for IMU_1	UINT	INTEGER	AJKP0050TM
9	17	16	ASTA7005	SIA_Temp	SIA temperature for IMU_1			
	4	12	AJTD0130	SIA_temper	SIA temperature for IMU_1	UINT	INTEGER	AJKP0050TM
10	19	32	ASTA7006	Time_tag	Time tag for IMU_1			
	0	16	AJTD0140	Time_Tag_MS_wd	Time Tag MS word for IMU_1	UINT	INTEGER	Z_IDENTITY
	16	16	AJTD0141	Time_Tag_LS_wd	Time Tag LS word for IMU_1	UINT	INTEGER	Z_IDENTITY
11	23	32	ASTA7007	Raw_angle	Raw angle for IMU_1			
	0	16	AJTD0150	Raw_angle_MS_wd	Raw angle MS word for IMU_1	UINT	INTEGER	Z_IDENTITY
	16	16	AJTD0151	Raw_angle_LS_wd	Raw angle LS word for IMU_1	UINT	INTEGER	Z_IDENTITY
12	27	8	ASTB7131	IMU2S1_ACQ_FLAG	IMU2_INERTIAL_D_SAMP_1_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
13	28	8	ASTB7132	IMU2S1_VALID_FLG	IMU2_INERTIAL_D_SAMP_1_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
14	29	32	ASTB7129	IMU2S1_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU2_INERTIAL_D_SAMP_1_ATTR_SEC	UINT	INTEGER	Z_IDS
15	33	16	ASTB7130	IMU2S1_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU2_INERTIAL_D_SAMP_1_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
16	35	32	ASTB7122	Filtered_angle	Filtered angle for IMU_2			
	0	16	AJTD0600	Filt_angle_MS_wd	Filtered angle MS word for IMU_2	UINT	INTEGER	Z_IDENTITY
	16	16	AJTD0601	Filt_angle_LS_wd	Filtered angle LS word for IMU_2	UINT	INTEGER	Z_IDENTITY
17	39	16	ASTB7123	Gy_ch_Hth_Stus	Gyro Channel Health Status for IMU_2			
	5	10	AJTD0611	Det_Hth_Stus	Health status for IMU_2	UINT	INTEGER	Z_IDENTITY



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TM Packets Structure

Date: 11.02.2013  
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Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32111	IMU1234 Datasample1	3	25	11	6	182	Y	119	FIXED	AST00032	111	10000	Y	32111	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
18	15	1	AJTD0610	Validity_bit	Validity bit for IMU_2	UINT	INTEGER	Z_IDENTITY
	41	16	ASTB7124	Orga_Temp	Organiser temperature for IMU_2			
	4	12	AJTD0620	Orga_temper	Org temperature for IMU_2	UINT	INTEGER	AJKP0050TM
19	43	16	ASTB7125	SIA_Temp	SIA temperature for IMU_2			
	4	12	AJTD0630	SIA_temper	SIA temperature for IMU_2	UINT	INTEGER	AJKP0050TM
20	45	32	ASTB7126	Time_tag	Time tag for IMU_2			
	0	16	AJTD0640	Time_Tag_MS_wd	Time Tag MS word for IMU_2	UINT	INTEGER	Z_IDENTITY
21	16	16	AJTD0641	Time_Tag_LS_wd	Time Tag LS word for IMU_2	UINT	INTEGER	Z_IDENTITY
	49	32	ASTB7127	Raw_angle	Raw angle for IMU_2			
	0	16	AJTD0650	Raw_angle_MS_wd	Raw angle MS word for IMU_2	UINT	INTEGER	Z_IDENTITY
22	16	16	AJTD0651	Raw_angle_LS_wd	Raw angle LS word for IMU_2	UINT	INTEGER	Z_IDENTITY
	53	8	ASTC7251	IMU3S1_ACQ_FLAG	IMU3_INERTIAL_D_SAMP_1_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
23	54	8	ASTC7252	IMU3S1_VALID_FLG	IMU3_INERTIAL_D_SAMP_1_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
24	55	32	ASTC7249	IMU3S1_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU3_INERTIAL_D_SAMP_1_ATTR_SEC	UINT	INTEGER	Z_IDS
25	59	16	ASTC7250	IMU3S1_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU3_INERTIAL_D_SAMP_1_ATTR_SUBSEC	UINT	INTEGER	Z_IDS16
26	61	32	ASTC7242	Filtered_angle	Filtered angle for IMU_3			
	0	16	AJTD1100	Filt_angle_MS_wd	Filtered angle MS word for IMU_3	UINT	INTEGER	Z_IDENTITY
	16	16	AJTD1101	Filt_angle_LS_wd	Filtered angle LS word for IMU_3	UINT	INTEGER	Z_IDENTITY
27	65	16	ASTC7243	Gy_ch_Hth_Stus	Gyro Channel Health Status for IMU_3			
	5	10	AJTD1111	Det_Hth_Stus	Health status for IMU_3	UINT	INTEGER	Z_IDENTITY
	15	1	AJTD1110	Validity_bit	Validity bit for IMU_3	UINT	INTEGER	Z_IDENTITY
28	67	16	ASTC7244	Orga_Temp	Organiser temperature for IMU_3			
	4	12	AJTD1120	Orga_temper	Org temperature for IMU_3	UINT	INTEGER	AJKP0050TM
29	69	16	ASTC7245	SIA_Temp	SIA temperature for IMU_3			
	4	12	AJTD1130	SIA_temper	SIA temperature for IMU_3	UINT	INTEGER	AJKP0050TM
30	71	32	ASTC7246	Time_tag	Time tag for IMU_3			
	0	16	AJTD1140	Time_Tag_MS_wd	Time Tag MS word for IMU_3	UINT	INTEGER	Z_IDENTITY
	16	16	AJTD1141	Time_Tag_LS_wd	Time Tag LS word for IMU_3	UINT	INTEGER	Z_IDENTITY
31	75	32	ASTC7247	Raw_angle	Raw angle for IMU_3			
	0	16	AJTD1150	Raw_angle_MS_wd	Raw angle MS word for IMU_3	UINT	INTEGER	Z_IDENTITY
	16	16	AJTD1151	Raw_angle_LS_wd	Raw angle LS word for IMU_3	UINT	INTEGER	Z_IDENTITY



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32111	IMU1234 Datasample1	3	25	11	6	182	Y	119	FIXED	AST00032	111	10000	Y	32111	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
32	79	8	ASTD7371	IMU4S1_ACQ_FLAG	IMU4_INERTIAL_D_SAMP_1_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
33	80	8	ASTD7372	IMU4S1_VALID_FLG	IMU4_INERTIAL_D_SAMP_1_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
34	81	32	ASTD7369	IMU4S1_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU4_INERTIAL_D_SAMP_1_ATTR_SEC	UINT	INTEGER	Z_IDS
35	85	16	ASTD7370	IMU4S1_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU4_INERTIAL_D_SAMP_1_ATTR_SUBSEC	UINT	INTEGER	Z_IDS16
36	87	32	ASTD7362	Filtered_angle	Filtered angle for IMU_4			
	0	16	AJTD1600	Filt_angle_MS_wd	Filtered angle MS word for IMU_4	UINT	INTEGER	Z_IDENTITY
	16	16	AJTD1601	Filt_angle_LS_wd	Filtered angle LS word for IMU_4	UINT	INTEGER	Z_IDENTITY
37	91	16	ASTD7363	Gy_ch_Hth_Stus	Gyro Channel Health Status for IMU_4			
	5	10	AJTD1611	Det_Hth_Stus	Health status for IMU_4	UINT	INTEGER	Z_IDENTITY
	15	1	AJTD1610	Validity_bit	Validity bit for IMU_4	UINT	INTEGER	Z_IDENTITY
38	93	16	ASTD7364	Orga_Temp	Organiser temperature for IMU_4			
	4	12	AJTD1620	Orga_temper	Org temperature for IMU_4	UINT	INTEGER	AJKP0050TM
39	95	16	ASTD7365	SIA_Temp	SIA temperature for IMU_4			
	4	12	AJTD1630	SIA_temper	SIA temperature for IMU_4	UINT	INTEGER	AJKP0050TM
40	97	32	ASTD7366	Time_tag	Time tag for IMU_4			
	0	16	AJTD1640	Time_Tag_MS_wd	Time Tag MS word for IMU_4	UINT	INTEGER	Z_IDENTITY
	16	16	AJTD1641	Time_Tag_LS_wd	Time Tag LS word for IMU_4	UINT	INTEGER	Z_IDENTITY
41	101	32	ASTD7367	Raw_angle	Raw angle for IMU_4			
	0	16	AJTD1650	Raw_angle_MS_wd	Raw angle MS word for IMU_4	UINT	INTEGER	Z_IDENTITY
	16	16	AJTD1651	Raw_angle_LS_wd	Raw angle LS word for IMU_4	UINT	INTEGER	Z_IDENTITY



# Sentinel-2

## SRDB Database Extract

### TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
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**Name:** AJKP0050TM **Descr:** Temperature\_degC

**Unit:** degC X Y

#### Referenced by:

AJTD0120 Orga\_temper  
AJTD0130 SIA\_temper  
AJTD0620 Orga\_temper  
AJTD0630 SIA\_temper  
AJTD1120 Orga\_temper  
AJTD1130 SIA\_temper  
AJTD1620 Orga\_temper  
AJTD1630 SIA\_temper

**Modelname:** GENERIC

0	103.735831356912
250	103.735831356912
650	66.6016391307052
1050	47.9209427123329
1450	34.3274834223256
1850	22.6843391226263
2250	11.4863202321349
2650	-0.634461319172942
3050	-16.3587040738443
3450	-55.5216909428595
4095	-55.5216909428595

**Name:** Z\_IDS **Descr:** Identity [s]

**Unit:** s X Y

#### Referenced by:

ASTA7009 IMU1S1\_SEC  
ASTB7129 IMU2S1\_SEC  
ASTC7249 IMU3S1\_SEC  
ASTD7369 IMU4S1\_SEC

**Modelname:** GENERIC

**Name:** Z\_IDS16 **Descr:** Identity [(2^16)s]

**Unit:** s X Y

#### Referenced by:

ASTA7010 IMU1S1\_SUBSEC  
ASTB7130 IMU2S1\_SUBSEC  
ASTC7250 IMU3S1\_SUBSEC  
ASTD7370 IMU4S1\_SUBSEC

**Modelname:** GENERIC



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
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**Name:** ASKT2101TM **Descr:** ACQ\_STATUS

**Referenced by:**

From	To	Text
------	----	------

ASTA7011	IMU1S1_ACQ_FLAG
ASTB7131	IMU2S1_ACQ_FLAG
ASTC7251	IMU3S1_ACQ_FLAG
ASTD7371	IMU4S1_ACQ_FLAG

0	NOT_ACQUIRED
1	ACQ_FAILED
2	ACQUIRED

---

**Name:** ASKT2102TM **Descr:** ACQ\_VALID\_FLAG

**Referenced by:**

From	To	Text
------	----	------

ASTA7012	IMU1S1_VALID_FLG
ASTB7132	IMU2S1_VALID_FLG
ASTC7252	IMU3S1_VALID_FLG
ASTD7372	IMU4S1_VALID_FLG

0	INVALID
1	VALID

---



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32112	IMU1234 Datasample2	3	25	11	6	182	Y	125	FIXED	AST00032	112	10000	Y	32112	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	ASTA7023	IMU1S2_ACQ_FLAG	IMU1_INERTIAL_D_SAMP_2_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	ASTA7024	IMU1S2_VALID_FLG	IMU1_INERTIAL_D_SAMP_2_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	ASTA7021	IMU1S2_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU1_INERTIAL_D_SAMP_2_ATTR_SEC	UINT	INTEGER	Z_IDS
5	7	16	ASTA7022	IMU1S2_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU1_INERTIAL_D_SAMP_2_ATTR_SUBSEC	UINT	INTEGER	Z_IDS M16
6	9	32	ASTA7014	IMU1S2_FIL_ANG	IMU1_INERTIAL_D_SAMP_2_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
7	13	16	ASTA7015	IMU1S2_HLTH_STS	IMU1_INERTIAL_D_SAMP_2_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
8	15	16	ASTA7016	IMU1S2_ORGA_TEMP	IMU1_INERTIAL_D_SAMP_2_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
9	17	16	ASTA7017	IMU1S2_SIA_TEMP	IMU1_INERTIAL_D_SAMP_2_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
10	19	32	ASTA7018	IMU1S2_TIMETAG	IMU1_INERTIAL_D_SAMP_2_TIMETAG	UINT	INTEGER	Z_IDENTITY
11	23	32	ASTA7019	IMU1S2_RAW_ANGLE	IMU1_INERTIAL_D_SAMP_2_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
12	27	8	ASTB7143	IMU2S2_ACQ_FLAG	IMU2_INERTIAL_D_SAMP_2_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
13	28	8	ASTB7144	IMU2S2_VALID_FLG	IMU2_INERTIAL_D_SAMP_2_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
14	29	32	ASTB7141	IMU2S2_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU2_INERTIAL_D_SAMP_2_ATTR_SEC	UINT	INTEGER	Z_IDS
15	33	16	ASTB7142	IMU2S2_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU2_INERTIAL_D_SAMP_2_ATTR_SUBSEC	UINT	INTEGER	Z_IDS M16
16	35	32	ASTB7134	IMU2S2_FIL_ANG	IMU2_INERTIAL_D_SAMP_2_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
17	39	16	ASTB7135	IMU2S2_HLTH_STS	IMU2_INERTIAL_D_SAMP_2_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
18	41	16	ASTB7136	IMU2S2_ORGA_TEMP	IMU2_INERTIAL_D_SAMP_2_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
19	43	16	ASTB7137	IMU2S2_SIA_TEMP	IMU2_INERTIAL_D_SAMP_2_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
20	45	32	ASTB7138	IMU2S2_TIMETAG	IMU2_INERTIAL_D_SAMP_2_TIMETAG	UINT	INTEGER	Z_IDENTITY
21	49	32	ASTB7139	IMU2S2_RAW_ANGLE	IMU2_INERTIAL_D_SAMP_2_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
22	53	8	ASTC7263	IMU3S2_ACQ_FLAG	IMU3_INERTIAL_D_SAMP_2_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
23	54	8	ASTC7264	IMU3S2_VALID_FLG	IMU3_INERTIAL_D_SAMP_2_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
24	55	32	ASTC7261	IMU3S2_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU3_INERTIAL_D_SAMP_2_ATTR_SEC	UINT	INTEGER	Z_IDS
25	59	16	ASTC7262	IMU3S2_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU3_INERTIAL_D_SAMP_2_ATTR_SUBSEC	UINT	INTEGER	Z_IDS M16
26	61	32	ASTC7254	IMU3S2_FIL_ANG	IMU3_INERTIAL_D_SAMP_2_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY



# Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32112	IMU1234 Datasample2		3_25	11	6	182	Y	125	FIXED	AST00032	112	10000	Y	32112	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
27	65	16	ASTC7255	IMU3S2_HLTH_STS	IMU3_INERTIAL_D_SAMP_2_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
28	67	16	ASTC7256	IMU3S2_ORGA_TEMP	IMU3_INERTIAL_D_SAMP_2_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
29	69	16	ASTC7257	IMU3S2_SIA_TEMP	IMU3_INERTIAL_D_SAMP_2_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
30	71	32	ASTC7258	IMU3S2_TIMETAG	IMU3_INERTIAL_D_SAMP_2_TIMETAG	UINT	INTEGER	Z_IDENTITY
31	75	32	ASTC7259	IMU3S2_RAW_ANGLE	IMU3_INERTIAL_D_SAMP_2_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
32	79	32	ASTD7383	IMU4S2_ACQ_FLAG	IMU4_INERTIAL_D_SAMP_2_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
33	83	32	ASTD7384	IMU4S2_VALID_FLG	IMU4_INERTIAL_D_SAMP_2_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
34	87	32	ASTD7381	IMU4S2_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU4_INERTIAL_D_SAMP_2_ATTR_SEC	UINT	INTEGER	Z_IDS
35	91	16	ASTD7382	IMU4S2_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU4_INERTIAL_D_SAMP_2_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
36	93	32	ASTD7374	IMU4S2_FIL_ANG	IMU4_INERTIAL_D_SAMP_2_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
37	97	16	ASTD7375	IMU4S2_HLTH_STS	IMU4_INERTIAL_D_SAMP_2_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
38	99	16	ASTD7376	IMU4S2_ORGA_TEMP	IMU4_INERTIAL_D_SAMP_2_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
39	101	16	ASTD7377	IMU4S2_SIA_TEMP	IMU4_INERTIAL_D_SAMP_2_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
40	103	32	ASTD7378	IMU4S2_TIMETAG	IMU4_INERTIAL_D_SAMP_2_TIMETAG	UINT	INTEGER	Z_IDENTITY
41	107	32	ASTD7379	IMU4S2_RAW_ANGLE	IMU4_INERTIAL_D_SAMP_2_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY







**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 1

**Name:** ASKT2101TM **Descr:** ACQ\_STATUS

**Referenced by:**

From	To	Text
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ASTA7023	IMU1S2_ACQ_FLAG
ASTB7143	IMU2S2_ACQ_FLAG
ASTC7263	IMU3S2_ACQ_FLAG
ASTD7383	IMU4S2_ACQ_FLAG

0	NOT_ACQUIRED
1	ACQ_FAILED
2	ACQUIRED

---

**Name:** ASKT2102TM **Descr:** ACQ\_VALID\_FLAG

**Referenced by:**

From	To	Text
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ASTA7024	IMU1S2_VALID_FLG
ASTB7144	IMU2S2_VALID_FLG
ASTC7264	IMU3S2_VALID_FLG
ASTD7384	IMU4S2_VALID_FLG

0	INVALID
1	VALID

---



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2. 77  
Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32113	IMU1234 Datasample3	3	25	11	6	182	Y	119	FIXED	AST00032	113	10000	Y	32113	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	ASTA7035	IMU1S3_ACQ_FLAG	IMU1_INERTIAL_D_SAMP_3_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	ASTA7036	IMU1S3_VALID_FLG	IMU1_INERTIAL_D_SAMP_3_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	ASTA7033	IMU1S3_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU1_INERTIAL_D_SAMP_3_ATTR_SEC	UINT	INTEGER	Z_IDS
5	7	16	ASTA7034	IMU1S3_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU1_INERTIAL_D_SAMP_3_ATTR_SUBSEC	UINT	INTEGER	Z_IDS M16
6	9	32	ASTA7026	IMU1S3_FIL_ANG	IMU1_INERTIAL_D_SAMP_3_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
7	13	16	ASTA7027	IMU1S3_HLTH_STS	IMU1_INERTIAL_D_SAMP_3_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
8	15	16	ASTA7028	IMU1S3_ORGA_TEMP	IMU1_INERTIAL_D_SAMP_3_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
9	17	16	ASTA7029	IMU1S3_SIA_TEMP	IMU1_INERTIAL_D_SAMP_3_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
10	19	32	ASTA7030	IMU1S3_TIMETAG	IMU1_INERTIAL_D_SAMP_3_TIMETAG	UINT	INTEGER	Z_IDENTITY
11	23	32	ASTA7031	IMU1S3_RAW_ANGLE	IMU1_INERTIAL_D_SAMP_3_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
12	27	8	ASTB7155	IMU2S3_ACQ_FLAG	IMU2_INERTIAL_D_SAMP_3_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
13	28	8	ASTB7156	IMU2S3_VALID_FLG	IMU2_INERTIAL_D_SAMP_3_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
14	29	32	ASTB7153	IMU2S3_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU2_INERTIAL_D_SAMP_3_ATTR_SEC	UINT	INTEGER	Z_IDS
15	33	16	ASTB7154	IMU2S3_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU2_INERTIAL_D_SAMP_3_ATTR_SUBSEC	UINT	INTEGER	Z_IDS M16
16	35	32	ASTB7146	IMU2S3_FIL_ANG	IMU2_INERTIAL_D_SAMP_3_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
17	39	16	ASTB7147	IMU2S3_HLTH_STS	IMU2_INERTIAL_D_SAMP_3_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
18	41	16	ASTB7148	IMU2S3_ORGA_TEMP	IMU2_INERTIAL_D_SAMP_3_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
19	43	16	ASTB7149	IMU2S3_SIA_TEMP	IMU2_INERTIAL_D_SAMP_3_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
20	45	32	ASTB7150	IMU2S3_TIMETAG	IMU2_INERTIAL_D_SAMP_3_TIMETAG	UINT	INTEGER	Z_IDENTITY
21	49	32	ASTB7151	IMU2S3_RAW_ANGLE	IMU2_INERTIAL_D_SAMP_3_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
22	53	8	ASTC7275	IMU3S3_ACQ_FLAG	IMU3_INERTIAL_D_SAMP_3_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
23	54	8	ASTC7276	IMU3S3_VALID_FLG	IMU3_INERTIAL_D_SAMP_3_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
24	55	32	ASTC7273	IMU3S3_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU3_INERTIAL_D_SAMP_3_ATTR_SEC	UINT	INTEGER	Z_IDS
25	59	16	ASTC7274	IMU3S3_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU3_INERTIAL_D_SAMP_3_ATTR_SUBSEC	UINT	INTEGER	Z_IDS M16
26	61	32	ASTC7266	IMU3S3_FIL_ANG	IMU3_INERTIAL_D_SAMP_3_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 2 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32113	IMU1234 Datasample3		3_25	11	6	182	Y	119	FIXED	AST00032	113	10000	Y	32113	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
27	65	16	ASTC7267	IMU3S3_HLTH_STS	IMU3_INERTIAL_D_SAMP_3_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
28	67	16	ASTC7268	IMU3S3_ORGA_TEMP	IMU3_INERTIAL_D_SAMP_3_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
29	69	16	ASTC7269	IMU3S3_SIA_TEMP	IMU3_INERTIAL_D_SAMP_3_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
30	71	32	ASTC7270	IMU3S3_TIMETAG	IMU3_INERTIAL_D_SAMP_3_TIMETAG	UINT	INTEGER	Z_IDENTITY
31	75	32	ASTC7271	IMU3S3_RAW_ANGLE	IMU3_INERTIAL_D_SAMP_3_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
32	79	8	ASTD7395	IMU4S3_ACQ_FLAG	IMU4_INERTIAL_D_SAMP_3_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
33	80	8	ASTD7396	IMU4S3_VALID_FLG	IMU4_INERTIAL_D_SAMP_3_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
34	81	32	ASTD7393	IMU4S3_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU4_INERTIAL_D_SAMP_3_ATTR_SEC	UINT	INTEGER	Z_IDS
35	85	16	ASTD7394	IMU4S3_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU4_INERTIAL_D_SAMP_3_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
36	87	32	ASTD7386	IMU4S3_FIL_ANG	IMU4_INERTIAL_D_SAMP_3_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
37	91	16	ASTD7387	IMU4S3_HLTH_STS	IMU4_INERTIAL_D_SAMP_3_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
38	93	16	ASTD7388	IMU4S3_ORGA_TEMP	IMU4_INERTIAL_D_SAMP_3_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
39	95	16	ASTD7389	IMU4S3_SIA_TEMP	IMU4_INERTIAL_D_SAMP_3_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
40	97	32	ASTD7390	IMU4S3_TIMETAG	IMU4_INERTIAL_D_SAMP_3_TIMETAG	UINT	INTEGER	Z_IDENTITY
41	101	32	ASTD7391	IMU4S3_RAW_ANGLE	IMU4_INERTIAL_D_SAMP_3_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY



**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss.: 2 . 77  
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**Name:** Z\_IDS      **Descr:** Identity [s]

**Unit:**      s                                      X                                      Y

**Referenced by:**

ASTA7033      IMU1S3\_SEC  
ASTB7153      IMU2S3\_SEC  
ASTC7273      IMU3S3\_SEC  
ASTD7393      IMU4S3\_SEC

**Modelname:**    GENERIC

**Name:** Z\_IDS16      **Descr:** Identity [(2^16)s]

**Unit:**      s                                      X                                      Y

**Referenced by:**

ASTA7034      IMU1S3\_SUBSEC  
ASTB7154      IMU2S3\_SUBSEC  
ASTC7274      IMU3S3\_SUBSEC  
ASTD7394      IMU4S3\_SUBSEC

**Modelname:**    GENERIC



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 1

**Name:** ASKT2101TM **Descr:** ACQ\_STATUS

**Referenced by:**

From	To	Text
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ASTA7035	IMU1S3_ACQ_FLAG
ASTB7155	IMU2S3_ACQ_FLAG
ASTC7275	IMU3S3_ACQ_FLAG
ASTD7395	IMU4S3_ACQ_FLAG

0	NOT_ACQUIRED
1	ACQ_FAILED
2	ACQUIRED

---

**Name:** ASKT2102TM **Descr:** ACQ\_VALID\_FLAG

**Referenced by:**

From	To	Text
------	----	------

ASTA7036	IMU1S3_VALID_FLG
ASTB7156	IMU2S3_VALID_FLG
ASTC7276	IMU3S3_VALID_FLG
ASTD7396	IMU4S3_VALID_FLG

0	INVALID
1	VALID

---



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32114	IMU1234 Datasample4	3	25	11	6	182	Y	119	FIXED	AST00032	114	10000	Y	32114	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	ASTA7047	IMU1S4_ACQ_FLAG	IMU1_INERTIAL_D_SAMP_4_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	ASTA7048	IMU1S4_VALID_FLG	IMU1_INERTIAL_D_SAMP_4_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	ASTA7045	IMU1S4_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU1_INERTIAL_D_SAMP_4_ATTR_SEC	UINT	INTEGER	Z_IDS
5	7	16	ASTA7046	IMU1S4_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU1_INERTIAL_D_SAMP_4_ATTR_SUBSEC	UINT	INTEGER	Z_IDS16
6	9	32	ASTA7038	IMU1S4_FIL_ANG	IMU1_INERTIAL_D_SAMP_4_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
7	13	16	ASTA7039	IMU1S4_HLTH_STS	IMU1_INERTIAL_D_SAMP_4_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
8	15	16	ASTA7040	IMU1S4_ORGA_TEMP	IMU1_INERTIAL_D_SAMP_4_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
9	17	16	ASTA7041	IMU1S4_SIA_TEMP	IMU1_INERTIAL_D_SAMP_4_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
10	19	32	ASTA7042	IMU1S4_TIMETAG	IMU1_INERTIAL_D_SAMP_4_TIMETAG	UINT	INTEGER	Z_IDENTITY
11	23	32	ASTA7043	IMU1S4_RAW_ANGLE	IMU1_INERTIAL_D_SAMP_4_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
12	27	8	ASTB7167	IMU2S4_ACQ_FLAG	IMU2_INERTIAL_D_SAMP_4_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
13	28	8	ASTB7168	IMU2S4_VALID_FLG	IMU2_INERTIAL_D_SAMP_4_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
14	29	32	ASTB7165	IMU2S4_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU2_INERTIAL_D_SAMP_4_ATTR_SEC	UINT	INTEGER	Z_IDS
15	33	16	ASTB7166	IMU2S4_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU2_INERTIAL_D_SAMP_4_ATTR_SUBSEC	UINT	INTEGER	Z_IDS16
16	35	32	ASTB7158	IMU2S4_FIL_ANG	IMU2_INERTIAL_D_SAMP_4_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
17	39	16	ASTB7159	IMU2S4_HLTH_STS	IMU2_INERTIAL_D_SAMP_4_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
18	41	16	ASTB7160	IMU2S4_ORGA_TEMP	IMU2_INERTIAL_D_SAMP_4_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
19	43	16	ASTB7161	IMU2S4_SIA_TEMP	IMU2_INERTIAL_D_SAMP_4_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
20	45	32	ASTB7162	IMU2S4_TIMETAG	IMU2_INERTIAL_D_SAMP_4_TIMETAG	UINT	INTEGER	Z_IDENTITY
21	49	32	ASTB7163	IMU2S4_RAW_ANGLE	IMU2_INERTIAL_D_SAMP_4_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
22	53	8	ASTC7287	IMU3S4_ACQ_FLAG	IMU3_INERTIAL_D_SAMP_4_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
23	54	8	ASTC7288	IMU3S4_VALID_FLG	IMU3_INERTIAL_D_SAMP_4_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
24	55	32	ASTC7285	IMU3S4_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU3_INERTIAL_D_SAMP_4_ATTR_SEC	UINT	INTEGER	Z_IDS
25	59	16	ASTC7286	IMU3S4_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU3_INERTIAL_D_SAMP_4_ATTR_SUBSEC	UINT	INTEGER	Z_IDS16
26	61	32	ASTC7278	IMU3S4_FIL_ANG	IMU3_INERTIAL_D_SAMP_4_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY



# Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32114	IMU1234 Datasample4		3_25	11	6	182	Y	119	FIXED	AST00032	114	10000	Y	32114	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
27	65	16	ASTC7279	IMU3S4_HLTH_STS	IMU3_INERTIAL_D_SAMP_4_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
28	67	16	ASTC7280	IMU3S4_ORGA_TEMP	IMU3_INERTIAL_D_SAMP_4_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
29	69	16	ASTC7281	IMU3S4_SIA_TEMP	IMU3_INERTIAL_D_SAMP_4_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
30	71	32	ASTC7282	IMU3S4_TIMETAG	IMU3_INERTIAL_D_SAMP_4_TIMETAG	UINT	INTEGER	Z_IDENTITY
31	75	32	ASTC7283	IMU3S4_RAW_ANGLE	IMU3_INERTIAL_D_SAMP_4_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
32	79	8	ASTD7407	IMU4S4_ACQ_FLAG	IMU4_INERTIAL_D_SAMP_4_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
33	80	8	ASTD7408	IMU4S4_VALID_FLG	IMU4_INERTIAL_D_SAMP_4_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
34	81	32	ASTD7405	IMU4S4_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU4_INERTIAL_D_SAMP_4_ATTR_SEC	UINT	INTEGER	Z_IDS
35	85	16	ASTD7406	IMU4S4_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU4_INERTIAL_D_SAMP_4_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
36	87	32	ASTD7398	IMU4S4_FIL_ANG	IMU4_INERTIAL_D_SAMP_4_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
37	91	16	ASTD7399	IMU4S4_HLTH_STS	IMU4_INERTIAL_D_SAMP_4_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
38	93	16	ASTD7400	IMU4S4_ORGA_TEMP	IMU4_INERTIAL_D_SAMP_4_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
39	95	16	ASTD7401	IMU4S4_SIA_TEMP	IMU4_INERTIAL_D_SAMP_4_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
40	97	32	ASTD7402	IMU4S4_TIMETAG	IMU4_INERTIAL_D_SAMP_4_TIMETAG	UINT	INTEGER	Z_IDENTITY
41	101	32	ASTD7403	IMU4S4_RAW_ANGLE	IMU4_INERTIAL_D_SAMP_4_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY



Modelname: GENERIC



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 1 of 1

**Name:** ASKT2101TM **Descr:** ACQ\_STATUS

**Referenced by:**

From	To	Text
------	----	------

ASTA7047	IMU1S4_ACQ_FLAG
ASTB7167	IMU2S4_ACQ_FLAG
ASTC7287	IMU3S4_ACQ_FLAG
ASTD7407	IMU4S4_ACQ_FLAG

0	NOT_ACQUIRED
1	ACQ_FAILED
2	ACQUIRED

---

**Name:** ASKT2102TM **Descr:** ACQ\_VALID\_FLAG

**Referenced by:**

From	To	Text
------	----	------

ASTA7048	IMU1S4_VALID_FLG
ASTB7168	IMU2S4_VALID_FLG
ASTC7288	IMU3S4_VALID_FLG
ASTD7408	IMU4S4_VALID_FLG

0	INVALID
1	VALID

---



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2. 77  
Page: 1 of 2

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32115	IMU1234 Datasample5	3	25	11	6	182	Y	119	FIXED	AST00032	115	10000	Y	32115	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	ASTA7059	IMU1S5_ACQ_FLAG	IMU1_INERTIAL_D_SAMP_5_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	ASTA7060	IMU1S5_VALID_FLG	IMU1_INERTIAL_D_SAMP_5_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	ASTA7057	IMU1S5_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU1_INERTIAL_D_SAMP_5_ATTR_SEC	UINT	INTEGER	Z_IDS
5	7	16	ASTA7058	IMU1S5_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU1_INERTIAL_D_SAMP_5_ATTR_SUBSEC	UINT	INTEGER	Z_IDS M16
6	9	32	ASTA7050	IMU1S5_FIL_ANG	IMU1_INERTIAL_D_SAMP_5_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
7	13	16	ASTA7051	IMU1S5_HLTH_STS	IMU1_INERTIAL_D_SAMP_5_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
8	15	16	ASTA7052	IMU1S5_ORGA_TEMP	IMU1_INERTIAL_D_SAMP_5_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
9	17	16	ASTA7053	IMU1S5_SIA_TEMP	IMU1_INERTIAL_D_SAMP_5_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
10	19	32	ASTA7054	IMU1S5_TIMETAG	IMU1_INERTIAL_D_SAMP_5_TIMETAG	UINT	INTEGER	Z_IDENTITY
11	23	32	ASTA7055	IMU1S5_RAW_ANGLE	IMU1_INERTIAL_D_SAMP_5_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
12	27	8	ASTB7179	IMU2S5_ACQ_FLAG	IMU2_INERTIAL_D_SAMP_5_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
13	28	8	ASTB7180	IMU2S5_VALID_FLG	IMU2_INERTIAL_D_SAMP_5_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
14	29	32	ASTB7177	IMU2S5_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU2_INERTIAL_D_SAMP_5_ATTR_SEC	UINT	INTEGER	Z_IDS
15	33	16	ASTB7178	IMU2S5_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU2_INERTIAL_D_SAMP_5_ATTR_SUBSEC	UINT	INTEGER	Z_IDS M16
16	35	32	ASTB7170	IMU2S5_FIL_ANG	IMU2_INERTIAL_D_SAMP_5_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
17	39	16	ASTB7171	IMU2S5_HLTH_STS	IMU2_INERTIAL_D_SAMP_5_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
18	41	16	ASTB7172	IMU2S5_ORGA_TEMP	IMU2_INERTIAL_D_SAMP_5_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
19	43	16	ASTB7173	IMU2S5_SIA_TEMP	IMU2_INERTIAL_D_SAMP_5_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
20	45	32	ASTB7174	IMU2S5_TIMETAG	IMU2_INERTIAL_D_SAMP_5_TIMETAG	UINT	INTEGER	Z_IDENTITY
21	49	32	ASTB7175	IMU2S5_RAW_ANGLE	IMU2_INERTIAL_D_SAMP_5_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
22	53	8	ASTC7299	IMU3S5_ACQ_FLAG	IMU3_INERTIAL_D_SAMP_5_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
23	54	8	ASTC7300	IMU3S5_VALID_FLG	IMU3_INERTIAL_D_SAMP_5_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
24	55	32	ASTC7297	IMU3S5_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU3_INERTIAL_D_SAMP_5_ATTR_SEC	UINT	INTEGER	Z_IDS
25	59	16	ASTC7298	IMU3S5_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU3_INERTIAL_D_SAMP_5_ATTR_SUBSEC	UINT	INTEGER	Z_IDS M16
26	61	32	ASTC7290	IMU3S5_FIL_ANG	IMU3_INERTIAL_D_SAMP_5_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY



# Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32115	IMU1234 Datasample5		3_25	11	6	182	Y	119	FIXED	AST00032	115	10000	Y	32115	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
27	65	16	ASTC7291	IMU3S5_HLTH_STS	IMU3_INERTIAL_D_SAMP_5_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
28	67	16	ASTC7292	IMU3S5_ORGA_TEMP	IMU3_INERTIAL_D_SAMP_5_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
29	69	16	ASTC7293	IMU3S5_SIA_TEMP	IMU3_INERTIAL_D_SAMP_5_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
30	71	32	ASTC7294	IMU3S5_TIMETAG	IMU3_INERTIAL_D_SAMP_5_TIMETAG	UINT	INTEGER	Z_IDENTITY
31	75	32	ASTC7295	IMU3S5_RAW_ANGLE	IMU3_INERTIAL_D_SAMP_5_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
32	79	8	ASTD7419	IMU4S5_ACQ_FLAG	IMU4_INERTIAL_D_SAMP_5_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
33	80	8	ASTD7420	IMU4S5_VALID_FLG	IMU4_INERTIAL_D_SAMP_5_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
34	81	32	ASTD7417	IMU4S5_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU4_INERTIAL_D_SAMP_5_ATTR_SEC	UINT	INTEGER	Z_IDS
35	85	16	ASTD7418	IMU4S5_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU4_INERTIAL_D_SAMP_5_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
36	87	32	ASTD7410	IMU4S5_FIL_ANG	IMU4_INERTIAL_D_SAMP_5_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
37	91	16	ASTD7411	IMU4S5_HLTH_STS	IMU4_INERTIAL_D_SAMP_5_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
38	93	16	ASTD7412	IMU4S5_ORGA_TEMP	IMU4_INERTIAL_D_SAMP_5_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
39	95	16	ASTD7413	IMU4S5_SIA_TEMP	IMU4_INERTIAL_D_SAMP_5_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
40	97	32	ASTD7414	IMU4S5_TIMETAG	IMU4_INERTIAL_D_SAMP_5_TIMETAG	UINT	INTEGER	Z_IDENTITY
41	101	32	ASTD7415	IMU4S5_RAW_ANGLE	IMU4_INERTIAL_D_SAMP_5_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY



**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

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**Name:** Z\_IDS      **Descr:** Identity [s]

**Unit:**      s                                      X                                      Y

**Referenced by:**

ASTA7057      IMU1S5\_SEC  
ASTB7177      IMU2S5\_SEC  
ASTC7297      IMU3S5\_SEC  
ASTD7417      IMU4S5\_SEC

---

**Modelname:**    GENERIC

**Name:** Z\_IDS16      **Descr:** Identity [(2^16)s]

**Unit:**      s                                      X                                      Y

**Referenced by:**

ASTA7058      IMU1S5\_SUBSEC  
ASTB7178      IMU2S5\_SUBSEC  
ASTC7298      IMU3S5\_SUBSEC  
ASTD7418      IMU4S5\_SUBSEC

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**Modelname:**    GENERIC

---



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
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**Name:** ASKT2101TM **Descr:** ACQ\_STATUS

**Referenced by:**

From	To	Text
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ASTA7059	IMU1S5_ACQ_FLAG
ASTB7179	IMU2S5_ACQ_FLAG
ASTC7299	IMU3S5_ACQ_FLAG
ASTD7419	IMU4S5_ACQ_FLAG

0	NOT_ACQUIRED
1	ACQ_FAILED
2	ACQUIRED

---

**Name:** ASKT2102TM **Descr:** ACQ\_VALID\_FLAG

**Referenced by:**

From	To	Text
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ASTA7060	IMU1S5_VALID_FLG
ASTB7180	IMU2S5_VALID_FLG
ASTC7300	IMU3S5_VALID_FLG
ASTD7420	IMU4S5_VALID_FLG

0	INVALID
1	VALID

---



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32116	IMU1234 Datasample6	3	25	11	6	182	Y	119	FIXED	AST00032	116	10000	Y	32116	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	ASTA7071	IMU1S6_ACQ_FLAG	IMU1_INERTIAL_D_SAMP_6_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	ASTA7072	IMU1S6_VALID_FLG	IMU1_INERTIAL_D_SAMP_6_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	ASTA7069	IMU1S6_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU1_INERTIAL_D_SAMP_6_ATTR_SEC	UINT	INTEGER	Z_IDS
5	7	16	ASTA7070	IMU1S6_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU1_INERTIAL_D_SAMP_6_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
6	9	32	ASTA7062	IMU1S6_FIL_ANG	IMU1_INERTIAL_D_SAMP_6_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
7	13	16	ASTA7063	IMU1S6_HLTH_STS	IMU1_INERTIAL_D_SAMP_6_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
8	15	16	ASTA7064	IMU1S6_ORGA_TEMP	IMU1_INERTIAL_D_SAMP_6_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
9	17	16	ASTA7065	IMU1S6_SIA_TEMP	IMU1_INERTIAL_D_SAMP_6_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
10	19	32	ASTA7066	IMU1S6_TIMETAG	IMU1_INERTIAL_D_SAMP_6_TIMETAG	UINT	INTEGER	Z_IDENTITY
11	23	32	ASTA7067	IMU1S6_RAW_ANGLE	IMU1_INERTIAL_D_SAMP_6_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
12	27	8	ASTB7191	IMU2S6_ACQ_FLAG	IMU2_INERTIAL_D_SAMP_6_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
13	28	8	ASTB7192	IMU2S6_VALID_FLG	IMU2_INERTIAL_D_SAMP_6_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
14	29	32	ASTB7189	IMU2S6_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU2_INERTIAL_D_SAMP_6_ATTR_SEC	UINT	INTEGER	Z_IDS
15	33	16	ASTB7190	IMU2S6_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU2_INERTIAL_D_SAMP_6_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
16	35	32	ASTB7182	IMU2S6_FIL_ANG	IMU2_INERTIAL_D_SAMP_6_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
17	39	16	ASTB7183	IMU2S6_HLTH_STS	IMU2_INERTIAL_D_SAMP_6_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
18	41	16	ASTB7184	IMU2S6_ORGA_TEMP	IMU2_INERTIAL_D_SAMP_6_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
19	43	16	ASTB7185	IMU2S6_SIA_TEMP	IMU2_INERTIAL_D_SAMP_6_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
20	45	32	ASTB7186	IMU2S6_TIMETAG	IMU2_INERTIAL_D_SAMP_6_TIMETAG	UINT	INTEGER	Z_IDENTITY
21	49	32	ASTB7187	IMU2S6_RAW_ANGLE	IMU2_INERTIAL_D_SAMP_6_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
22	53	8	ASTC7311	IMU3S6_ACQ_FLAG	IMU3_INERTIAL_D_SAMP_6_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
23	54	8	ASTC7312	IMU3S6_VALID_FLG	IMU3_INERTIAL_D_SAMP_6_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
24	55	32	ASTC7309	IMU3S6_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU3_INERTIAL_D_SAMP_6_ATTR_SEC	UINT	INTEGER	Z_IDS
25	59	16	ASTC7310	IMU3S6_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU3_INERTIAL_D_SAMP_6_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
26	61	32	ASTC7302	IMU3S6_FIL_ANG	IMU3_INERTIAL_D_SAMP_6_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32116	IMU1234 Datasample6		3_25	11	6	182	Y	119	FIXED	AST00032	116	10000	Y	32116	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
27	65	16	ASTC7303	IMU3S6_HLTH_STS	IMU3_INERTIAL_D_SAMP_6_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
28	67	16	ASTC7304	IMU3S6_ORGA_TEMP	IMU3_INERTIAL_D_SAMP_6_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
29	69	16	ASTC7305	IMU3S6_SIA_TEMP	IMU3_INERTIAL_D_SAMP_6_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
30	71	32	ASTC7306	IMU3S6_TIMETAG	IMU3_INERTIAL_D_SAMP_6_TIMETAG	UINT	INTEGER	Z_IDENTITY
31	75	32	ASTC7307	IMU3S6_RAW_ANGLE	IMU3_INERTIAL_D_SAMP_6_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
32	79	8	ASTD7431	IMU4S6_ACQ_FLAG	IMU4_INERTIAL_D_SAMP_6_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
33	80	8	ASTD7432	IMU4S6_VALID_FLG	IMU4_INERTIAL_D_SAMP_6_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
34	81	32	ASTD7429	IMU4S6_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU4_INERTIAL_D_SAMP_6_ATTR_SEC	UINT	INTEGER	Z_IDS
35	85	16	ASTD7430	IMU4S6_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU4_INERTIAL_D_SAMP_6_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
36	87	32	ASTD7422	IMU4S6_FIL_ANG	IMU4_INERTIAL_D_SAMP_6_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
37	91	16	ASTD7423	IMU4S6_HLTH_STS	IMU4_INERTIAL_D_SAMP_6_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
38	93	16	ASTD7424	IMU4S6_ORGA_TEMP	IMU4_INERTIAL_D_SAMP_6_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
39	95	16	ASTD7425	IMU4S6_SIA_TEMP	IMU4_INERTIAL_D_SAMP_6_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
40	97	32	ASTD7426	IMU4S6_TIMETAG	IMU4_INERTIAL_D_SAMP_6_TIMETAG	UINT	INTEGER	Z_IDENTITY
41	101	32	ASTD7427	IMU4S6_RAW_ANGLE	IMU4_INERTIAL_D_SAMP_6_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY





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**SRDB Database Extract**  
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**Name:** Z\_IDS **Descr:** Identity [s]

**Unit:** s X Y

**Referenced by:**

ASTA7069 IMU1S6\_SEC  
ASTB7189 IMU2S6\_SEC  
ASTC7309 IMU3S6\_SEC  
ASTD7429 IMU4S6\_SEC

**Modelname:** GENERIC

**Name:** Z\_IDS16 **Descr:** Identity [(2<sup>16</sup>)s]

**Unit:** s X Y

**Referenced by:**

ASTA7070 IMU1S6\_SUBSEC  
ASTB7190 IMU2S6\_SUBSEC  
ASTC7310 IMU3S6\_SUBSEC  
ASTD7430 IMU4S6\_SUBSEC

**Modelname:** GENERIC



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

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**Name:** ASKT2101TM **Descr:** ACQ\_STATUS

**Referenced by:**

From	To	Text
------	----	------

ASTA7071	IMU1S6_ACQ_FLAG
ASTB7191	IMU2S6_ACQ_FLAG
ASTC7311	IMU3S6_ACQ_FLAG
ASTD7431	IMU4S6_ACQ_FLAG

0	NOT_ACQUIRED
1	ACQ_FAILED
2	ACQUIRED

---

**Name:** ASKT2102TM **Descr:** ACQ\_VALID\_FLAG

**Referenced by:**

From	To	Text
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ASTA7072	IMU1S6_VALID_FLG
ASTB7192	IMU2S6_VALID_FLG
ASTC7312	IMU3S6_VALID_FLG
ASTD7432	IMU4S6_VALID_FLG

0	INVALID
1	VALID

---



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32117	IMU1234 Datasample7	3	25	11	6	182	Y	119	FIXED	AST00032	117	10000	Y	32117	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	ASTA7083	IMU1S7_ACQ_FLAG	IMU1_INERTIAL_D_SAMP_7_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	ASTA7084	IMU1S7_VALID_FLG	IMU1_INERTIAL_D_SAMP_7_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	ASTA7081	IMU1S7_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU1_INERTIAL_D_SAMP_7_ATTR_SEC	UINT	INTEGER	Z_IDS
5	7	16	ASTA7082	IMU1S7_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU1_INERTIAL_D_SAMP_7_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
6	9	32	ASTA7074	IMU1S7_FIL_ANG	IMU1_INERTIAL_D_SAMP_7_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
7	13	16	ASTA7075	IMU1S7_HLTH_STS	IMU1_INERTIAL_D_SAMP_7_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
8	15	16	ASTA7076	IMU1S7_ORGA_TEMP	IMU1_INERTIAL_D_SAMP_7_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
9	17	16	ASTA7077	IMU1S7_SIA_TEMP	IMU1_INERTIAL_D_SAMP_7_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
10	19	32	ASTA7078	IMU1S7_TIMETAG	IMU1_INERTIAL_D_SAMP_7_TIMETAG	UINT	INTEGER	Z_IDENTITY
11	23	32	ASTA7079	IMU1S7_RAW_ANGLE	IMU1_INERTIAL_D_SAMP_7_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
12	27	8	ASTB7203	IMU2S7_ACQ_FLAG	IMU2_INERTIAL_D_SAMP_7_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
13	28	8	ASTB7204	IMU2S7_VALID_FLG	IMU2_INERTIAL_D_SAMP_7_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
14	29	32	ASTB7201	IMU2S7_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU2_INERTIAL_D_SAMP_7_ATTR_SEC	UINT	INTEGER	Z_IDS
15	33	16	ASTB7202	IMU2S7_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU2_INERTIAL_D_SAMP_7_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
16	35	32	ASTB7194	IMU2S7_FIL_ANG	IMU2_INERTIAL_D_SAMP_7_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
17	39	16	ASTB7195	IMU2S7_HLTH_STS	IMU2_INERTIAL_D_SAMP_7_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
18	41	16	ASTB7196	IMU2S7_ORGA_TEMP	IMU2_INERTIAL_D_SAMP_7_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
19	43	16	ASTB7197	IMU2S7_SIA_TEMP	IMU2_INERTIAL_D_SAMP_7_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
20	45	32	ASTB7198	IMU2S7_TIMETAG	IMU2_INERTIAL_D_SAMP_7_TIMETAG	UINT	INTEGER	Z_IDENTITY
21	49	32	ASTB7199	IMU2S7_RAW_ANGLE	IMU2_INERTIAL_D_SAMP_7_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
22	53	8	ASTC7323	IMU3S7_ACQ_FLAG	IMU3_INERTIAL_D_SAMP_7_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
23	54	8	ASTC7324	IMU3S7_VALID_FLG	IMU3_INERTIAL_D_SAMP_7_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
24	55	32	ASTC7321	IMU3S7_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU3_INERTIAL_D_SAMP_7_ATTR_SEC	UINT	INTEGER	Z_IDS
25	59	16	ASTC7322	IMU3S7_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU3_INERTIAL_D_SAMP_7_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
26	61	32	ASTC7314	IMU3S7_FIL_ANG	IMU3_INERTIAL_D_SAMP_7_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32117	IMU1234 Datasample7		3_25	11	6	182	Y	119	FIXED	AST00032	117	10000	Y	32117	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
27	65	16	ASTC7315	IMU3S7_HLTH_STS	IMU3_INERTIAL_D_SAMP_7_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
28	67	16	ASTC7316	IMU3S7_ORGA_TEMP	IMU3_INERTIAL_D_SAMP_7_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
29	69	16	ASTC7317	IMU3S7_SIA_TEMP	IMU3_INERTIAL_D_SAMP_7_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
30	71	32	ASTC7318	IMU3S7_TIMETAG	IMU3_INERTIAL_D_SAMP_7_TIMETAG	UINT	INTEGER	Z_IDENTITY
31	75	32	ASTC7319	IMU3S7_RAW_ANGLE	IMU3_INERTIAL_D_SAMP_7_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
32	79	8	ASTD7443	IMU4S7_ACQ_FLAG	IMU4_INERTIAL_D_SAMP_7_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
33	80	8	ASTD7444	IMU4S7_VALID_FLG	IMU4_INERTIAL_D_SAMP_7_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
34	81	32	ASTD7441	IMU4S7_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU4_INERTIAL_D_SAMP_7_ATTR_SEC	UINT	INTEGER	Z_IDS
35	85	16	ASTD7442	IMU4S7_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU4_INERTIAL_D_SAMP_7_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
36	87	32	ASTD7434	IMU4S7_FIL_ANG	IMU4_INERTIAL_D_SAMP_7_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
37	91	16	ASTD7435	IMU4S7_HLTH_STS	IMU4_INERTIAL_D_SAMP_7_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
38	93	16	ASTD7436	IMU4S7_ORGA_TEMP	IMU4_INERTIAL_D_SAMP_7_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
39	95	16	ASTD7437	IMU4S7_SIA_TEMP	IMU4_INERTIAL_D_SAMP_7_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
40	97	32	ASTD7438	IMU4S7_TIMETAG	IMU4_INERTIAL_D_SAMP_7_TIMETAG	UINT	INTEGER	Z_IDENTITY
41	101	32	ASTD7439	IMU4S7_RAW_ANGLE	IMU4_INERTIAL_D_SAMP_7_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY



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**SRDB Database Extract**  
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Date: 11.02.2013  
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**Name:** Z\_IDS      **Descr:** Identity [s]

**Unit:**      s                                      X                                      Y

**Referenced by:**

ASTA7081      IMU1S7\_SEC  
ASTB7201      IMU2S7\_SEC  
ASTC7321      IMU3S7\_SEC  
ASTD7441      IMU4S7\_SEC

---

**Modelname:**    GENERIC

**Name:** Z\_IDS16      **Descr:** Identity [(2^16)s]

**Unit:**      s                                      X                                      Y

**Referenced by:**

ASTA7082      IMU1S7\_SUBSEC  
ASTB7202      IMU2S7\_SUBSEC  
ASTC7322      IMU3S7\_SUBSEC  
ASTD7442      IMU4S7\_SUBSEC

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**Modelname:**    GENERIC

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**Sentinel-2**  
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TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
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**Name:** ASKT2101TM **Descr:** ACQ\_STATUS

**Referenced by:**

From	To	Text
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ASTA7083	IMU1S7_ACQ_FLAG
ASTB7203	IMU2S7_ACQ_FLAG
ASTC7323	IMU3S7_ACQ_FLAG
ASTD7443	IMU4S7_ACQ_FLAG

0	NOT_ACQUIRED
1	ACQ_FAILED
2	ACQUIRED

**Name:** ASKT2102TM **Descr:** ACQ\_VALID\_FLAG

**Referenced by:**

From	To	Text
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ASTA7084	IMU1S7_VALID_FLG
ASTB7204	IMU2S7_VALID_FLG
ASTC7324	IMU3S7_VALID_FLG
ASTD7444	IMU4S7_VALID_FLG

0	INVALID
1	VALID



## Sentinel-2 SRDB Database Extract

TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32118	IMU1234 Datasample8	3	25	11	6	182	Y	119	FIXED	AST00032	118	10000	Y	32118	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	ASTA7095	IMU1S8_ACQ_FLAG	IMU1_INERTIAL_D_SAMP_8_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	ASTA7096	IMU1S8_VALID_FLG	IMU1_INERTIAL_D_SAMP_8_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	ASTA7093	IMU1S8_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU1_INERTIAL_D_SAMP_8_ATTR_SEC	UINT	INTEGER	Z_IDS
5	7	16	ASTA7094	IMU1S8_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU1_INERTIAL_D_SAMP_8_ATTR_SUBSEC	UINT	INTEGER	Z_IDS M16
6	9	32	ASTA7086	IMU1S8_FIL_ANG	IMU1_INERTIAL_D_SAMP_8_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
7	13	16	ASTA7087	IMU1S8_HLTH_STS	IMU1_INERTIAL_D_SAMP_8_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
8	15	16	ASTA7088	IMU1S8_ORGA_TEMP	IMU1_INERTIAL_D_SAMP_8_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
9	17	16	ASTA7089	IMU1S8_SIA_TEMP	IMU1_INERTIAL_D_SAMP_8_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
10	19	32	ASTA7090	IMU1S8_TIMETAG	IMU1_INERTIAL_D_SAMP_8_TIMETAG	UINT	INTEGER	Z_IDENTITY
11	23	32	ASTA7091	IMU1S8_RAW_ANGLE	IMU1_INERTIAL_D_SAMP_8_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
12	27	8	ASTB7215	IMU2S8_ACQ_FLAG	IMU2_INERTIAL_D_SAMP_8_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
13	28	8	ASTB7216	IMU2S8_VALID_FLG	IMU2_INERTIAL_D_SAMP_8_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
14	29	32	ASTB7213	IMU2S8_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU2_INERTIAL_D_SAMP_8_ATTR_SEC	UINT	INTEGER	Z_IDS
15	33	16	ASTB7214	IMU2S8_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU2_INERTIAL_D_SAMP_8_ATTR_SUBSEC	UINT	INTEGER	Z_IDS M16
16	35	32	ASTB7206	IMU2S8_FIL_ANG	IMU2_INERTIAL_D_SAMP_8_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
17	39	16	ASTB7207	IMU2S8_HLTH_STS	IMU2_INERTIAL_D_SAMP_8_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
18	41	16	ASTB7208	IMU2S8_ORGA_TEMP	IMU2_INERTIAL_D_SAMP_8_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
19	43	16	ASTB7209	IMU2S8_SIA_TEMP	IMU2_INERTIAL_D_SAMP_8_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
20	45	32	ASTB7210	IMU2S8_TIMETAG	IMU2_INERTIAL_D_SAMP_8_TIMETAG	UINT	INTEGER	Z_IDENTITY
21	49	32	ASTB7211	IMU2S8_RAW_ANGLE	IMU2_INERTIAL_D_SAMP_8_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
22	53	8	ASTC7335	IMU3S8_ACQ_FLAG	IMU3_INERTIAL_D_SAMP_8_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
23	54	8	ASTC7336	IMU3S8_VALID_FLG	IMU3_INERTIAL_D_SAMP_8_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
24	55	32	ASTC7333	IMU3S8_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU3_INERTIAL_D_SAMP_8_ATTR_SEC	UINT	INTEGER	Z_IDS
25	59	16	ASTC7334	IMU3S8_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU3_INERTIAL_D_SAMP_8_ATTR_SUBSEC	UINT	INTEGER	Z_IDS M16
26	61	32	ASTC7326	IMU3S8_FIL_ANG	IMU3_INERTIAL_D_SAMP_8_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32118	IMU1234 Datasample8		3_25	11	6	182	Y	119	FIXED	AST00032	118	10000	Y	32118	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
27	65	16	ASTC7327	IMU3S8_HLTH_STS	IMU3_INERTIAL_D_SAMP_8_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
28	67	16	ASTC7328	IMU3S8_ORGA_TEMP	IMU3_INERTIAL_D_SAMP_8_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
29	69	16	ASTC7329	IMU3S8_SIA_TEMP	IMU3_INERTIAL_D_SAMP_8_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
30	71	32	ASTC7330	IMU3S8_TIMETAG	IMU3_INERTIAL_D_SAMP_8_TIMETAG	UINT	INTEGER	Z_IDENTITY
31	75	32	ASTC7331	IMU3S8_RAW_ANGLE	IMU3_INERTIAL_D_SAMP_8_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
32	79	8	ASTD7455	IMU4S8_ACQ_FLAG	IMU4_INERTIAL_D_SAMP_8_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
33	80	8	ASTD7456	IMU4S8_VALID_FLG	IMU4_INERTIAL_D_SAMP_8_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
34	81	32	ASTD7453	IMU4S8_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU4_INERTIAL_D_SAMP_8_ATTR_SEC	UINT	INTEGER	Z_IDS
35	85	16	ASTD7454	IMU4S8_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU4_INERTIAL_D_SAMP_8_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
36	87	32	ASTD7446	IMU4S8_FIL_ANG	IMU4_INERTIAL_D_SAMP_8_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
37	91	16	ASTD7447	IMU4S8_HLTH_STS	IMU4_INERTIAL_D_SAMP_8_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
38	93	16	ASTD7448	IMU4S8_ORGA_TEMP	IMU4_INERTIAL_D_SAMP_8_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
39	95	16	ASTD7449	IMU4S8_SIA_TEMP	IMU4_INERTIAL_D_SAMP_8_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
40	97	32	ASTD7450	IMU4S8_TIMETAG	IMU4_INERTIAL_D_SAMP_8_TIMETAG	UINT	INTEGER	Z_IDENTITY
41	101	32	ASTD7451	IMU4S8_RAW_ANGLE	IMU4_INERTIAL_D_SAMP_8_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY





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**Name:** Z\_IDS      **Descr:** Identity [s]

**Unit:**      s                                      X                                      Y

**Referenced by:**

ASTA7093      IMU1S8\_SEC  
ASTB7213      IMU2S8\_SEC  
ASTC7333      IMU3S8\_SEC  
ASTD7453      IMU4S8\_SEC

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**Modelname:**    GENERIC

**Name:** Z\_IDS16      **Descr:** Identity [(2^16)s]

**Unit:**      s                                      X                                      Y

**Referenced by:**

ASTA7094      IMU1S8\_SUBSEC  
ASTB7214      IMU2S8\_SUBSEC  
ASTC7334      IMU3S8\_SUBSEC  
ASTD7454      IMU4S8\_SUBSEC

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**Modelname:**    GENERIC

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**Name:** ASKT2101TM **Descr:** ACQ\_STATUS

**Referenced by:**

From	To	Text
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ASTA7095	IMU1S8_ACQ_FLAG
ASTB7215	IMU2S8_ACQ_FLAG
ASTC7335	IMU3S8_ACQ_FLAG
ASTD7455	IMU4S8_ACQ_FLAG

0	NOT_ACQUIRED
1	ACQ_FAILED
2	ACQUIRED

---

**Name:** ASKT2102TM **Descr:** ACQ\_VALID\_FLAG

**Referenced by:**

From	To	Text
------	----	------

ASTA7096	IMU1S8_VALID_FLG
ASTB7216	IMU2S8_VALID_FLG
ASTC7336	IMU3S8_VALID_FLG
ASTD7456	IMU4S8_VALID_FLG

0	INVALID
1	VALID

---



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32119	IMU1234 Datasample9	3	25	11	6	182	Y	119	FIXED	AST00032	119	10000	Y	32119	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	ASTA7107	IMU1S9_ACQ_FLAG	IMU1_INERTIAL_D_SAMP_9_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	ASTA7108	IMU1S9_VALID_FLG	IMU1_INERTIAL_D_SAMP_9_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	ASTA7105	IMU1S9_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU1_INERTIAL_D_SAMP_9_ATTR_SEC	UINT	INTEGER	Z_IDS
5	7	16	ASTA7106	IMU1S9_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU1_INERTIAL_D_SAMP_9_ATTR_SUBSEC	UINT	INTEGER	Z_IDS M16
6	9	32	ASTA7098	IMU1S9_FIL_ANG	IMU1_INERTIAL_D_SAMP_9_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
7	13	16	ASTA7099	IMU1S9_HLTH_STS	IMU1_INERTIAL_D_SAMP_9_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
8	15	16	ASTA7100	IMU1S9_ORGA_TEMP	IMU1_INERTIAL_D_SAMP_9_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
9	17	16	ASTA7101	IMU1S9_SIA_TEMP	IMU1_INERTIAL_D_SAMP_9_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
10	19	32	ASTA7102	IMU1S9_TIMETAG	IMU1_INERTIAL_D_SAMP_9_TIMETAG	UINT	INTEGER	Z_IDENTITY
11	23	32	ASTA7103	IMU1S9_RAW_ANGLE	IMU1_INERTIAL_D_SAMP_9_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
12	27	8	ASTB7227	IMU2S9_ACQ_FLAG	IMU2_INERTIAL_D_SAMP_9_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
13	28	8	ASTB7228	IMU2S9_VALID_FLG	IMU2_INERTIAL_D_SAMP_9_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
14	29	32	ASTB7225	IMU2S9_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU2_INERTIAL_D_SAMP_9_ATTR_SEC	UINT	INTEGER	Z_IDS
15	33	16	ASTB7226	IMU2S9_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU2_INERTIAL_D_SAMP_9_ATTR_SUBSEC	UINT	INTEGER	Z_IDS M16
16	35	32	ASTB7218	IMU2S9_FIL_ANG	IMU2_INERTIAL_D_SAMP_9_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
17	39	16	ASTB7219	IMU2S9_HLTH_STS	IMU2_INERTIAL_D_SAMP_9_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
18	41	16	ASTB7220	IMU2S9_ORGA_TEMP	IMU2_INERTIAL_D_SAMP_9_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
19	43	16	ASTB7221	IMU2S9_SIA_TEMP	IMU2_INERTIAL_D_SAMP_9_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
20	45	32	ASTB7222	IMU2S9_TIMETAG	IMU2_INERTIAL_D_SAMP_9_TIMETAG	UINT	INTEGER	Z_IDENTITY
21	49	32	ASTB7223	IMU2S9_RAW_ANGLE	IMU2_INERTIAL_D_SAMP_9_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
22	53	8	ASTC7347	IMU3S9_ACQ_FLAG	IMU3_INERTIAL_D_SAMP_9_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
23	54	8	ASTC7348	IMU3S9_VALID_FLG	IMU3_INERTIAL_D_SAMP_9_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
24	55	32	ASTC7345	IMU3S9_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU3_INERTIAL_D_SAMP_9_ATTR_SEC	UINT	INTEGER	Z_IDS
25	59	16	ASTC7346	IMU3S9_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU3_INERTIAL_D_SAMP_9_ATTR_SUBSEC	UINT	INTEGER	Z_IDS M16
26	61	32	ASTC7338	IMU3S9_FIL_ANG	IMU3_INERTIAL_D_SAMP_9_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32119	IMU1234 Datasample9	3	25	11	6	182	Y	119	FIXED	AST00032	119	10000	Y	32119	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
27	65	16	ASTC7339	IMU3S9_HLTH_STS	IMU3_INERTIAL_D_SAMP_9_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
28	67	16	ASTC7340	IMU3S9_ORGA_TEMP	IMU3_INERTIAL_D_SAMP_9_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
29	69	16	ASTC7341	IMU3S9_SIA_TEMP	IMU3_INERTIAL_D_SAMP_9_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
30	71	32	ASTC7342	IMU3S9_TIMETAG	IMU3_INERTIAL_D_SAMP_9_TIMETAG	UINT	INTEGER	Z_IDENTITY
31	75	32	ASTC7343	IMU3S9_RAW_ANGLE	IMU3_INERTIAL_D_SAMP_9_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
32	79	8	ASTD7467	IMU4S9_ACQ_FLAG	IMU4_INERTIAL_D_SAMP_9_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
33	80	8	ASTD7468	IMU4S9_VALID_FLG	IMU4_INERTIAL_D_SAMP_9_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
34	81	32	ASTD7465	IMU4S9_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU4_INERTIAL_D_SAMP_9_ATTR_SEC	UINT	INTEGER	Z_IDS
35	85	16	ASTD7466	IMU4S9_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU4_INERTIAL_D_SAMP_9_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
36	87	32	ASTD7458	IMU4S9_FIL_ANG	IMU4_INERTIAL_D_SAMP_9_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
37	91	16	ASTD7459	IMU4S9_HLTH_STS	IMU4_INERTIAL_D_SAMP_9_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
38	93	16	ASTD7460	IMU4S9_ORGA_TEMP	IMU4_INERTIAL_D_SAMP_9_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
39	95	16	ASTD7461	IMU4S9_SIA_TEMP	IMU4_INERTIAL_D_SAMP_9_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
40	97	32	ASTD7462	IMU4S9_TIMETAG	IMU4_INERTIAL_D_SAMP_9_TIMETAG	UINT	INTEGER	Z_IDENTITY
41	101	32	ASTD7463	IMU4S9_RAW_ANGLE	IMU4_INERTIAL_D_SAMP_9_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY



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**Name:** Z\_IDS      **Descr:** Identity [s]

**Unit:**      s                                      X                                      Y

**Referenced by:**

ASTA7105      IMU1S9\_SEC  
ASTB7225      IMU2S9\_SEC  
ASTC7345      IMU3S9\_SEC  
ASTD7465      IMU4S9\_SEC

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**Modelname:**    GENERIC

**Name:** Z\_IDS16      **Descr:** Identity [(2<sup>16</sup>)s]

**Unit:**      s                                      X                                      Y

**Referenced by:**

ASTA7106      IMU1S9\_SUBSEC  
ASTB7226      IMU2S9\_SUBSEC  
ASTC7346      IMU3S9\_SUBSEC  
ASTD7466      IMU4S9\_SUBSEC

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**Modelname:**    GENERIC

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**Name:** ASKT2101TM **Descr:** ACQ\_STATUS

**Referenced by:**

From	To	Text
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ASTA7107	IMU1S9_ACQ_FLAG
ASTB7227	IMU2S9_ACQ_FLAG
ASTC7347	IMU3S9_ACQ_FLAG
ASTD7467	IMU4S9_ACQ_FLAG

0	NOT_ACQUIRED
1	ACQ_FAILED
2	ACQUIRED

---

**Name:** ASKT2102TM **Descr:** ACQ\_VALID\_FLAG

**Referenced by:**

From	To	Text
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ASTA7108	IMU1S9_VALID_FLG
ASTB7228	IMU2S9_VALID_FLG
ASTC7348	IMU3S9_VALID_FLG
ASTD7468	IMU4S9_VALID_FLG

0	INVALID
1	VALID

---



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32120	IMU1234 Datasample10	3	25	11	6	182	Y	119	FIXED	AST00032	120	10000	Y	32120	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	ASTA7119	IMU1S10_ACQ_FLAG	IMU1_INERTIAL_D_SAMP_10_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	ASTA7120	IMU1S10_VLID_FLG	IMU1_INERTIAL_D_SAMP_10_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	ASTA7117	IMU1S10_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU1_INERTIAL_D_SAMP_10_ATTR_SEC	UINT	INTEGER	Z_IDS
5	7	16	ASTA7118	IMU1S10_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU1_INERTIAL_D_SAMP_10_ATTR_SUBSEC	UINT	INTEGER	Z_IDS M16
6	9	32	ASTA7110	IMU1S10_FIL_ANG	IMU1_INERTIAL_D_SAMP_10_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
7	13	16	ASTA7111	IMU1S10_HLTH_STS	IMU1_INERTIAL_D_SAMP_10_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
8	15	16	ASTA7112	IMU1S10_ORG_TEMP	IMU1_INERTIAL_D_SAMP_10_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
9	17	16	ASTA7113	IMU1S10_SIA_TEMP	IMU1_INERTIAL_D_SAMP_10_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
10	19	32	ASTA7114	IMU1S10_TIMETAG	IMU1_INERTIAL_D_SAMP_10_TIMETAG	UINT	INTEGER	Z_IDENTITY
11	23	32	ASTA7115	IMU1S10_RAW_ANG	IMU1_INERTIAL_D_SAMP_10_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
12	27	8	ASTB7239	IMU2S10_ACQ_FLAG	IMU2_INERTIAL_D_SAMP_10_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
13	28	8	ASTB7240	IMU2S10_VLID_FLG	IMU2_INERTIAL_D_SAMP_10_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
14	29	32	ASTB7237	IMU2S10_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU2_INERTIAL_D_SAMP_10_ATTR_SEC	UINT	INTEGER	Z_IDS
15	33	16	ASTB7238	IMU2S10_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU2_INERTIAL_D_SAMP_10_ATTR_SUBSEC	UINT	INTEGER	Z_IDS M16
16	35	32	ASTB7230	IMU2S10_FIL_ANG	IMU2_INERTIAL_D_SAMP_10_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
17	39	16	ASTB7231	IMU2S10_HLTH_STS	IMU2_INERTIAL_D_SAMP_10_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
18	41	16	ASTB7232	IMU2S10_ORG_TEMP	IMU2_INERTIAL_D_SAMP_10_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
19	43	16	ASTB7233	IMU2S10_SIA_TEMP	IMU2_INERTIAL_D_SAMP_10_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
20	45	32	ASTB7234	IMU2S10_TIMETAG	IMU2_INERTIAL_D_SAMP_10_TIMETAG	UINT	INTEGER	Z_IDENTITY
21	49	32	ASTB7235	IMU2S10_RAW_ANG	IMU2_INERTIAL_D_SAMP_10_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
22	53	8	ASTC7359	IMU3S10_ACQ_FLAG	IMU3_INERTIAL_D_SAMP_10_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
23	54	8	ASTC7360	IMU3S10_VLID_FLG	IMU3_INERTIAL_D_SAMP_10_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
24	55	32	ASTC7357	IMU3S10_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU3_INERTIAL_D_SAMP_10_ATTR_SEC	UINT	INTEGER	Z_IDS
25	59	16	ASTC7358	IMU3S10_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU3_INERTIAL_D_SAMP_10_ATTR_SUBSEC	UINT	INTEGER	Z_IDS M16
26	61	32	ASTC7350	IMU3S10_FIL_ANG	IMU3_INERTIAL_D_SAMP_10_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY



## Sentinel-2 SRDB Database Extract

TM Packets Structure

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Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32120	IMU1234 Datasample10		3_25	11	6	182	Y	119	FIXED	AST00032	120	10000	Y	32120	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
27	65	16	ASTC7351	IMU3S10_HLTH_STS	IMU3_INERTIAL_D_SAMP_10_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
28	67	16	ASTC7352	IMU3S10_ORG_TEMP	IMU3_INERTIAL_D_SAMP_10_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
29	69	16	ASTC7353	IMU3S10_SIA_TEMP	IMU3_INERTIAL_D_SAMP_10_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
30	71	32	ASTC7354	IMU3S10_TIMETAG	IMU3_INERTIAL_D_SAMP_10_TIMETAG	UINT	INTEGER	Z_IDENTITY
31	75	32	ASTC7355	IMU3S10_RAW_ANG	IMU3_INERTIAL_D_SAMP_10_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY
32	79	8	ASTD7479	IMU4S10_ACQ_FLAG	IMU4_INERTIAL_D_SAMP_10_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
33	80	8	ASTD7480	IMU4S10_VLID_FLG	IMU4_INERTIAL_D_SAMP_10_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
34	81	32	ASTD7477	IMU4S10_SEC	COBT Time Stamp at Data Acquisition (Coarse Time) / IMU4_INERTIAL_D_SAMP_10_ATTR_SEC	UINT	INTEGER	Z_IDS
35	85	16	ASTD7478	IMU4S10_SUBSEC	COBT Time Stamp at Data Acquisition (Fine Time) / IMU4_INERTIAL_D_SAMP_10_ATTR_SUBSEC	UINT	INTEGER	Z_IDSM16
36	87	32	ASTD7470	IMU4S10_FIL_ANG	IMU4_INERTIAL_D_SAMP_10_FILT_ANGLE	UINT	INTEGER	Z_IDENTITY
37	91	16	ASTD7471	IMU4S10_HLTH_STS	IMU4_INERTIAL_D_SAMP_10_HEALTH_STS	UINT	INTEGER	Z_IDENTITY
38	93	16	ASTD7472	IMU4S10_ORG_TEMP	IMU4_INERTIAL_D_SAMP_10_ORGA_TEMP	UINT	INTEGER	Z_IDENTITY
39	95	16	ASTD7473	IMU4S10_SIA_TEMP	IMU4_INERTIAL_D_SAMP_10_SIA_TEMP	UINT	INTEGER	Z_IDENTITY
40	97	32	ASTD7474	IMU4S10_TIMETAG	IMU4_INERTIAL_D_SAMP_10_TIMETAG	UINT	INTEGER	Z_IDENTITY
41	101	32	ASTD7475	IMU4S10_RAW_ANG	IMU4_INERTIAL_D_SAMP_10_RAW_ANGLE	UINT	INTEGER	Z_IDENTITY





**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

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**Name:** Z\_IDS      **Descr:** Identity [s]

**Unit:**      s                                      X                                      Y

**Referenced by:**

ASTA7117      IMU1S10\_SEC  
ASTB7237      IMU2S10\_SEC  
ASTC7357      IMU3S10\_SEC  
ASTD7477      IMU4S10\_SEC

---

**Modelname:**    GENERIC

**Name:** Z\_IDS16      **Descr:** Identity [(2^16)s]

**Unit:**      s                                      X                                      Y

**Referenced by:**

ASTA7118      IMU1S10\_SUBSEC  
ASTB7238      IMU2S10\_SUBSEC  
ASTC7358      IMU3S10\_SUBSEC  
ASTD7478      IMU4S10\_SUBSEC

---

**Modelname:**    GENERIC

---



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
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**Name:** ASKT2101TM **Descr:** ACQ\_STATUS

**Referenced by:**

From	To	Text
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ASTA7119	IMU1S10_ACQ_FLAG
ASTB7239	IMU2S10_ACQ_FLAG
ASTC7359	IMU3S10_ACQ_FLAG
ASTD7479	IMU4S10_ACQ_FLAG

0	NOT_ACQUIRED
1	ACQ_FAILED
2	ACQUIRED

---

**Name:** ASKT2102TM **Descr:** ACQ\_VALID\_FLAG

**Referenced by:**

From	To	Text
------	----	------

ASTA7120	IMU1S10_VLID_FLG
ASTB7240	IMU2S10_VLID_FLG
ASTC7360	IMU3S10_VLID_FLG
ASTD7480	IMU4S10_VLID_FLG

0	INVALID
1	VALID

---



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32121	AOCS-TM1		3_25	11	6	182	Y	300	FIXED	AST00032	121	10000	Y	32121	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	AST0A003	STR_1_SCV_OP	SCV STR_1 Operational Status	UINT	STRING	XXKT0019TM
3	2	8	AST0B003	STR_2_SCV_OP	SCV STR_2 Operational Status	UINT	STRING	XXKT0019TM
4	3	8	AST0C003	STR_3_SCV_OP	SCV STR_3 Operational Status	UINT	STRING	XXKT0019TM
5	4	8	AST08089	GPS_A_SCV_OP	SCV GPS_A Operational Status	UINT	STRING	XXKT0019TM
6	5	8	AST18089	GPS_B_SCV_OP	SCV GPS_B Operational Status	UINT	STRING	XXKT0019TM
7	6	8	ASTA7483	IMU_1_SCV_OP	SCV IMU_1 Operational Status	UINT	STRING	XXKT0019TM
8	7	8	ASTB7489	IMU_2_SCV_OP	SCV IMU_2 Operational Status	UINT	STRING	XXKT0019TM
9	8	8	ASTC7495	IMU_3_SCV_OP	SCV IMU_3 Operational Status	UINT	STRING	XXKT0019TM
10	9	8	ASTD7501	IMU_4_SCV_OP	SCV IMU_4 Operational Status	UINT	STRING	XXKT0019TM
11	10	8	AST82350	mode	Manager.MAN.Output: Current mode number	UINT	STRING	ASKT0022TM
12	11	8	AST82351	subMode	Manager.MAN.Output: Current sub-mode number	UINT	INTEGER	Cond. Calibr.
13	12	8	AST82352	gselsValid	Determinator.GSE.Output: GSE validity	UINT	INTEGER	Z_IDENTITY
14	13	8	AST82353	gseAttQualld	Determinator.GSE.Output: GSE attitude quality	UINT	INTEGER	Z_IDENTITY
15	14	32	AST82354	gseTimeCucRawVec_0_0	Determinator.GSE.GainLocal: Time of estimates in cuc format [0][0]	UINT	INTEGER	Z_IDENTITY
16	18	32	AST82355	gseTimeCucRawVec_0_1	Determinator.GSE.GainLocal: Time of estimates in cuc format [0][1]	UINT	INTEGER	Z_IDENTITY
17	22	32	AST82356	gseTimeCucRawVec_0_2	Determinator.GSE.GainLocal: Time of estimates in cuc format [0][2]	UINT	INTEGER	Z_IDENTITY
18	26	32	AST82357	gseTimeCucRawVec_0_3	Determinator.GSE.GainLocal: Time of estimates in cuc format [0][3]	UINT	INTEGER	Z_IDENTITY
19	30	32	AST82358	gseTimeCucRawVec_0_4	Determinator.GSE.GainLocal: Time of estimates in cuc format [0][4]	UINT	INTEGER	Z_IDENTITY
20	34	32	AST82359	gseTimeCucRawVec_1_0	Determinator.GSE.GainLocal: Time of estimates in cuc format [1][0]	UINT	INTEGER	Z_IDENTITY
21	38	32	AST82360	gseTimeCucRawVec_1_1	Determinator.GSE.GainLocal: Time of estimates in cuc format [1][1]	UINT	INTEGER	Z_IDENTITY
22	42	32	AST82361	gseTimeCucRawVec_1_2	Determinator.GSE.GainLocal: Time of estimates in cuc format [1][2]	UINT	INTEGER	Z_IDENTITY
23	46	32	AST82362	gseTimeCucRawVec_1_3	Determinator.GSE.GainLocal: Time of estimates in cuc format [1][3]	UINT	INTEGER	Z_IDENTITY
24	50	32	AST82363	gseTimeCucRawVec_1_4	Determinator.GSE.GainLocal: Time of estimates in cuc format [1][4]	UINT	INTEGER	Z_IDENTITY



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32121	AOCS-TM1	3	25	11	6	182	Y	300	FIXED	AST00032	121	10000	Y	32121	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
25	54	64	AST82364	gseAttEstVec_qVec_CJ_0_0	Determinator.GSE.Output: Attitude quaternion estimate vector part [0][0]	DOUI3	REAL	Z_IDENTITY
26	62	64	AST82365	gseAttEstVec_qVec_CJ_0_1	Determinator.GSE.Output: Attitude quaternion estimate vector part [0][1]	DOUI3	REAL	Z_IDENTITY
27	70	64	AST82366	gseAttEstVec_qVec_CJ_0_2	Determinator.GSE.Output: Attitude quaternion estimate vector part [0][2]	DOUI3	REAL	Z_IDENTITY
28	78	64	AST82367	gseAttEstVec_qVec_CJ_0_3	Determinator.GSE.Output: Attitude quaternion estimate vector part [0][3]	DOUI3	REAL	Z_IDENTITY
29	86	64	AST82368	gseAttEstVec_qVec_CJ_0_4	Determinator.GSE.Output: Attitude quaternion estimate vector part [0][4]	DOUI3	REAL	Z_IDENTITY
30	94	64	AST82369	gseAttEstVec_qVec_CJ_1_0	Determinator.GSE.Output: Attitude quaternion estimate vector part [1][0]	DOUI3	REAL	Z_IDENTITY
31	102	64	AST82370	gseAttEstVec_qVec_CJ_1_1	Determinator.GSE.Output: Attitude quaternion estimate vector part [1][1]	DOUI3	REAL	Z_IDENTITY
32	110	64	AST82371	gseAttEstVec_qVec_CJ_1_2	Determinator.GSE.Output: Attitude quaternion estimate vector part [1][2]	DOUI3	REAL	Z_IDENTITY
33	118	64	AST82372	gseAttEstVec_qVec_CJ_1_3	Determinator.GSE.Output: Attitude quaternion estimate vector part [1][3]	DOUI3	REAL	Z_IDENTITY
34	126	64	AST82373	gseAttEstVec_qVec_CJ_1_4	Determinator.GSE.Output: Attitude quaternion estimate vector part [1][4]	DOUI3	REAL	Z_IDENTITY
35	134	64	AST82374	gseAttEstVec_qVec_CJ_2_0	Determinator.GSE.Output: Attitude quaternion estimate vector part [2][0]	DOUI3	REAL	Z_IDENTITY
36	142	64	AST82375	gseAttEstVec_qVec_CJ_2_1	Determinator.GSE.Output: Attitude quaternion estimate vector part [2][1]	DOUI3	REAL	Z_IDENTITY
37	150	64	AST82376	gseAttEstVec_qVec_CJ_2_2	Determinator.GSE.Output: Attitude quaternion estimate vector part [2][2]	DOUI3	REAL	Z_IDENTITY
38	158	64	AST82377	gseAttEstVec_qVec_CJ_2_3	Determinator.GSE.Output: Attitude quaternion estimate vector part [2][3]	DOUI3	REAL	Z_IDENTITY
39	166	64	AST82378	gseAttEstVec_qVec_CJ_2_4	Determinator.GSE.Output: Attitude quaternion estimate vector part [2][4]	DOUI3	REAL	Z_IDENTITY
40	174	64	AST82379	gseAtEstVec_qSca_CJ_0_0	Determinator.GSE.Output: Attitude quaternion estimate scalar part [0][0]	DOUI3	REAL	Z_IDENTITY
41	182	64	AST82380	gseAtEstVec_qSca_CJ_0_1	Determinator.GSE.Output: Attitude quaternion estimate scalar part [0][1]	DOUI3	REAL	Z_IDENTITY
42	190	64	AST82381	gseAtEstVec_qSca_CJ_0_2	Determinator.GSE.Output: Attitude quaternion estimate scalar part [0][2]	DOUI3	REAL	Z_IDENTITY
43	198	64	AST82382	gseAtEstVec_qSca_CJ_0_3	Determinator.GSE.Output: Attitude quaternion estimate scalar part [0][3]	DOUI3	REAL	Z_IDENTITY



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32121	AOCS-TM1		3_25	11	6	182	Y	300	FIXED	AST00032	121	10000	Y	32121	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
					scalar part [0][3]			
44	206	64	AST82383	gseAtEstVec_qSca_CJ_0_4	Determinator.GSE.Output: Attitude quaternion estimate scalar part [0][4]	DOUI3	REAL	Z_IDENTITY
45	214	64	AST82384	gseImuRateEst_C_0	Determinator.GSE.Output: Estimate at latest IMU rate input [0]	DOUI3	REAL	Z_IDENTITY
46	222	64	AST82385	gseImuRateEst_C_1	Determinator.GSE.Output: Estimate at latest IMU rate input [1]	DOUI3	REAL	Z_IDENTITY
47	230	64	AST82386	gseImuRateEst_C_2	Determinator.GSE.Output: Estimate at latest IMU rate input [2]	DOUI3	REAL	Z_IDENTITY
48	238	64	AST82387	gseInnovStrA_U_0	Determinator.GSE.GainLocal: Innovation for str1 [0]	DOUI3	REAL	Z_IDENTITY
49	246	64	AST82388	gseInnovStrA_U_1	Determinator.GSE.GainLocal: Innovation for str1 [1]	DOUI3	REAL	Z_IDENTITY
50	254	64	AST82389	gseInnovStrA_U_2	Determinator.GSE.GainLocal: Innovation for str1 [2]	DOUI3	REAL	Z_IDENTITY
51	262	64	AST82390	gseInnovStrB_U_0	Determinator.GSE.GainLocal: Innovation for str2 [0]	DOUI3	REAL	Z_IDENTITY
52	270	64	AST82391	gseInnovStrB_U_1	Determinator.GSE.GainLocal: Innovation for str2 [1]	DOUI3	REAL	Z_IDENTITY
53	278	64	AST82392	gseInnovStrB_U_2	Determinator.GSE.GainLocal: Innovation for str2 [2]	DOUI3	REAL	Z_IDENTITY



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TM Textual Calibration Curves

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**Name:** ASKT0023TM **Descr:** AOCS\_SMode\_IAM

**Referenced by:**

From	To	Text
0		DEP
1		RD
2		EA
3		YA
4		SS

AST82351 subMode  
IF: TM.AST82350 = "IAM"

**Name:** ASKT0024TM **Descr:** AOCS\_SMode\_NOM

**Referenced by:**

From	To	Text
1		ACQ
2		AH
3		FP
4		SL
5		EFP
6		BSL

AST82351 subMode  
IF: TM.AST82350 = "NOM"

**Name:** ASKT0025TM **Descr:** AOCS\_SMode\_OCM

**Referenced by:**

From	To	Text
1		ACQ
2		SL
3		STAB
4		DV
5		BSL

AST82351 subMode  
IF: TM.AST82350 = "OCM"

**Name:** ASKT0026TM **Descr:** AOCS\_SMode\_SFM

**Referenced by:**

From	To	Text
0		DEP
1		RD
2		EA
3		YA
4		SS

AST82351 subMode  
IF: TM.AST82350 = "SFM"



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

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**Name:** ASKT0022TM **Descr:** AOCS\_Mode

**Referenced by:**  
AST82350 mode

From	To	Text
0		SBM
1		IAM
2		NOM
3		OCM
4		SFM

**Name:** XXKT0019TM **Descr:** Unused\_Used

**Referenced by:**  
AST08089 GPS\_A\_SCV\_OP  
AST0A003 STR\_1\_SCV\_OP  
AST0B003 STR\_2\_SCV\_OP  
AST0C003 STR\_3\_SCV\_OP  
AST18089 GPS\_B\_SCV\_OP  
ASTA7483 IMU\_1\_SCV\_OP  
ASTB7489 IMU\_2\_SCV\_OP  
ASTC7495 IMU\_3\_SCV\_OP  
ASTD7501 IMU\_4\_SCV\_OP

From	To	Text
0		NOT_USEABLE
1		USEABLE



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32122	AOCS-TM2	3	25	11	6	182	Y	101	FIXED	AST00032	122	10000	Y	32122	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	AST82393	oopIsValid	Determinator.OOP.Output: Flag indicating valid output	UINT	INTEGER	Z_IDENTITY
3	2	8	AST82394	oopQualId	Determinator.OOP.Output: Oop solution quality index	UINT	INTEGER	Z_IDENTITY
4	3	64	AST82395	oopPos_J_0	Determinator.OOP.Output: Propagated position in inertial frame [0]	DOUI3	REAL	Z_IDM
5	11	64	AST82396	oopPos_J_1	Determinator.OOP.Output: Propagated position in inertial frame [1]	DOUI3	REAL	Z_IDM
6	19	64	AST82397	oopPos_J_2	Determinator.OOP.Output: Propagated position in inertial frame [2]	DOUI3	REAL	Z_IDM
7	27	64	AST82398	oopVel_J_0	Determinator.OOP.Output: Propagated velocity in inertial frame [0]	DOUI3	REAL	Z_IDMPS
8	35	64	AST82399	oopVel_J_1	Determinator.OOP.Output: Propagated velocity in inertial frame [1]	DOUI3	REAL	Z_IDMPS
9	43	64	AST82400	oopVel_J_2	Determinator.OOP.Output: Propagated velocity in inertial frame [2]	DOUI3	REAL	Z_IDMPS
10	51	64	AST82401	oopOrbitAng	Determinator.OOP.Output: Orbit angle (argument of latitude, range 0,2pi)	DOUI3	REAL	Z_IDRAD
11	59	32	AST82402	oopOrbitNum	Determinator.OOP.Output: Orbit number	UINT	INTEGER	Z_IDENTITY
12	63	64	AST82403	oopTimeSec	Determinator.OOP.Output: Time stamp of propagated output data	DOUI3	REAL	Z_IDENTITY
13	71	64	AST82404	AO_oopGpsMjdUT1d	AOCS OOP UT1 as modified julian date (day)	DOUI3	REAL	Z_IDD
14	79	64	AST82405	AO_oopGpsMjdUT1f	AOCS OOP UT1 as modified julian date (fraction)	DOUI3	REAL	Z_IDD





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Database: SISS2CSW  
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**Referenced by:**

Unit: d X Y

AST82404	AO_oopGpsMjdUT1d
AST82405	AO_oopGpsMjdUT1f

Modelname: GENERIC

**Referenced by:**

Unit: m X Y

AST82395	oopPos_J_0
AST82396	oopPos_J_1
AST82397	oopPos_J_2

Modelname: GENERIC

**Referenced by:**

Unit:	m/s	X	Y
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AST82398	oopVel_J_0
AST82399	oopVel_J_1
AST82400	oopVel_J_2

Modelname: GENERIC

**Referenced by:**

Unit:	rad	X	Y
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AST82401 oopOrbitAng

Modelname: GENERIC



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32124	STR1 SDB Status Data Block	3	25	11	6	182	Y	66	FIXED	AST00032	124	10000	Y	32124	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	AST0A476	STR1_ST_D_ACQ	STR1_STATUS_DATA_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	AST0A477	STR1_ST_D_VAL	STR1_STATUS_DATA_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	AST0A480	STR1_SD_TSC	STR1_STATUS_DATA_TS_COARSE	UINT	INTEGER	Z_IDS
5	7	8	AST0A429	SID_1	ID of the structure / STR1_STATUS_DATA_BYTE_01	UINT	INTEGER	Z_IDENTITY
6	8	8	AST0A430	cycle_1	STR internal cycle number_1 / STR1_STATUS_DATA_BYTE_02	UINT	INTEGER	Z_IDENTITY
7	9	8	AST0A431	cycle_1	STR internal cycle number_2 / STR1_STATUS_DATA_BYTE_03	UINT	INTEGER	Z_IDENTITY
8	10	8	AST0A432	cycStartTimSt_1_1	Time stamp for cycle start_1 / STR1_STATUS_DATA_BYTE_04	UINT	INTEGER	Z_IDENTITY
9	11	8	AST0A433	cycStartTimSt_1_2	Time stamp for cycle start_2 / STR1_STATUS_DATA_BYTE_05	UINT	INTEGER	Z_IDENTITY
10	12	8	AST0A434	cycStartTimSt_1_3	Time stamp for cycle start_3 / STR1_STATUS_DATA_BYTE_06	UINT	INTEGER	Z_IDENTITY
11	13	8	AST0A435	cycStartTimSt_1_4	Time stamp for cycle start_4 / STR1_STATUS_DATA_BYTE_07	UINT	INTEGER	Z_IDENTITY
12	14	8	AST0A436	cycStartTimSt_1_5	Time stamp for cycle start_5 / STR1_STATUS_DATA_BYTE_08	UINT	INTEGER	Z_IDENTITY
13	15	8	AST0A437	cycStartTimSt_1_6	Time stamp for cycle start_6 / STR1_STATUS_DATA_BYTE_09	UINT	INTEGER	Z_IDENTITY
14	16	8	AST0A438	GloPar1SDB_1	Global Parameter 1 SDB / STR1_STATUS_DATA_BYTE_10			
	0	2	ASTD1020	cycleTriggerS_1	0: timer; 1: preprocessor; 2: external** Duplicated from SSTD0020 **	UINT	STRING	SSKT0008TM
	2	3	ASTD1021	opMode_1	STR operating mode** Duplicated from SSTD0021 **	UINT	STRING	SSKT0009TM
	5	1	ASTD1022	isStreakMode_1	1: streak processing mode is active** Duplicated from SSTD0022 **	UINT	STRING	XXKT0027TM
	6	2	ASTD1023	tecMode_1	Thermo electric cooler mode** Duplicated from SSTD0023 **	UINT	STRING	SSKT0010TM
15	17	8	AST0A439	GloPar2SDB_1	Global Parameter 2 SDB / STR1_STATUS_DATA_BYTE_11			
	0	1	ASTD1024	EepromErrApp_1	1: error in application part on EEPROM** Duplicated from SSTD0024 **	UINT	STRING	SSKT0011TM
	1	1	ASTD1025	EepromErrCal_1	1: error in calibration data part on EEPROM** Duplicated from SSTD0025 **	UINT	STRING	SSKT0011TM
	2	1	ASTD1026	ramError_1	1:RAM failure** Duplicated from SSTD0026 **	UINT	STRING	SSKT0011TM



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32124	STR1 SDB Status Data Block	3	25	11	6	182	Y	66	FIXED	AST00032	124	10000	Y	32124	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	3	1	ASTD1027	interfaceError_1	1:failure during interface initialisation** Duplicated from SSTD0027 **	UINT	STRING	SSKT0011TM
	4	1	ASTD1028	watchdogError_1	1:Reboot cause by watchdog timer** Duplicated from SSTD0028 **	UINT	STRING	SSKT0011TM
	5	1	ASTD1029	synchError_1	1:External synchronisation failed** Duplicated from SSTD0029 **	UINT	STRING	SSKT0011TM
	6	1	ASTD1030	timingError_1	1:processing exceeded timing constraints** Duplicated from SSTD0030 **	UINT	STRING	SSKT0011TM
	7	1	ASTD1031	fifoError_1	1:FIFO capacity exceeded** Duplicated from SSTD0031 **	UINT	STRING	SSKT0011TM
16	18	16	SST00032	targetTemp_1	target temperature	SINT	REAL	SSKP0012TM
17	20	16	SST00033	tempDetector_1	detector temperature	SINT	REAL	SSKP0012TM
18	22	16	SST00034	tempOptics_1	optics temperature	SINT	REAL	SSKP0012TM
19	24	16	SST00035	tempHousing_1	housing temperature	SINT	REAL	SSKP0012TM
20	26	8	AST0A448	numEdacErrors_1	number of errors detected by RAM EDAC / STR1_STATUS_DATA_BYTE_20	UINT	INTEGER	Z_IDENTITY
21	27	8	AST0A449	GloPar3SDB_1	Global Parameter 3 SDB / STR1_STATUS_DATA_BYTE_21			
	0	2	ASTD1037	syncSource_1	source selected for external synchronization** Duplicated from SSTD0037 **	UINT	STRING	SSKT0013TM
	2	6	ASTD1038	secSinTimSync_1	number of seconds since latest sychron.** Duplicated from SSTD0038 **	UINT	INTEGER	Z_IDS
22	28	8	AST0A450	meanBackgr_1_1	mean background_1 / STR1_STATUS_DATA_BYTE_22	UINT	INTEGER	Z_IDENTITY
23	29	8	AST0A451	meanBackgr_1_2	mean background_2 / STR1_STATUS_DATA_BYTE_23	UINT	INTEGER	Z_IDENTITY
24	30	8	AST0A452	numObjDetected_1_1	number of detected objects_1 / STR1_STATUS_DATA_BYTE_24	UINT	INTEGER	Z_IDENTITY
25	31	8	AST0A453	numObjDetected_1_2	number of detected objects_2 / STR1_STATUS_DATA_BYTE_25	UINT	INTEGER	Z_IDENTITY
26	32	8	AST0A454	numObjAcquired_1_1	number of acquired objects_1 / STR1_STATUS_DATA_BYTE_26	UINT	INTEGER	Z_IDENTITY
27	33	8	AST0A455	numObjAcquired_1_2	number of acquired objects_2 / STR1_STATUS_DATA_BYTE_27	UINT	INTEGER	Z_IDENTITY
28	34	8	AST0A456	numSinglePixR_1_1	number of single pixels removed by h/w_1 / STR1_STATUS_DATA_BYTE_28	UINT	INTEGER	Z_IDENTITY
29	35	8	AST0A457	numSinglePixR_1_2	number of single pixels removed by h/w_2 / STR1_STATUS_DATA_BYTE_29	UINT	INTEGER	Z_IDENTITY



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32124	STR1 SDB Status Data Block	3	25	11	6	182	Y	66	FIXED	AST00032	124	10000	Y	32124	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
30	36	8	AST0A458	numEoDetected_1_1	number of extended objects detected by h/w_1 / STR1_STATUS_DATA_BYTE_30	UINT	INTEGER	Z_IDENTITY
31	37	8	AST0A459	numEoDetected_1_2	number of extended objects detected by h/w_2 / STR1_STATUS_DATA_BYTE_31	UINT	INTEGER	Z_IDENTITY
32	38	8	AST0A460	numStarsTracka_1	number of trackable stars / STR1_STATUS_DATA_BYTE_32	UINT	INTEGER	Z_IDENTITY
33	39	8	AST0A461	numStarsTrack_1	number of stars tracked /	UINT	INTEGER	Z_IDENTITY
34	40	8	AST0A462	numStarsForRa_1	number of stars used for rate determination / STR1_STATUS_DATA_BYTE_34	UINT	INTEGER	Z_IDENTITY
35	41	8	AST0A463	numStarsIdent_1	number of identified stars / STR1_STATUS_DATA_BYTE_35	UINT	INTEGER	Z_IDENTITY
36	42	8	AST0A464	numStarsUsedA_1	number of stars used for altit. Determinisation / STR1_STATUS_DATA_BYTE_36	UINT	INTEGER	Z_IDENTITY
37	43	8	AST0A465	numLostTrack_1	number of fall-backs from NAT to AAD / STR1_STATUS_DATA_BYTE_37	UINT	INTEGER	Z_IDENTITY
38	44	8	AST0A466	latestCommld_1_1	ID of latest recieved command_1 / STR1_STATUS_DATA_BYTE_38	UINT	INTEGER	Z_IDENTITY
39	45	8	AST0A467	latestCommld_1_2	ID of latest recieved command_2 / STR1_STATUS_DATA_BYTE_39	UINT	INTEGER	Z_IDENTITY
40	46	8	AST0A468	latestCmdRes_1	result of execution of the latest recieved command / STR1_STATUS_DATA_BYTE_40	UINT	INTEGER	Z_IDENTITY
41	47	8	AST0A469	numTcErrors_1	number of telecommand errors / STR1_STATUS_DATA_BYTE_41	UINT	INTEGER	Z_IDENTITY
42	48	8	AST0A470	GloPar4SDB_1	Global Parameter 4 SDB / STR1_STATUS_DATA_BYTE_42			
	0	4	ASTD1053	AttResult_1	last result of altitude determination** Duplicated from SSTD0053 **	SINT	STRING	SSKT0014TM
	4	4	ASTD1054	IdResult_1	last result of star identification error** Duplicated from SSTD0054 **	SINT	STRING	SSKT0015TM
43	49	8	AST0A471	tlnt_1	integration time / STR1_STATUS_DATA_BYTE_43	UINT	INTEGER	Z_IDENTITY
44	50	8	AST0A472	offset_1_1	binarisation time_1 / STR1_STATUS_DATA_BYTE_44	UINT	INTEGER	Z_IDENTITY
45	51	8	AST0AA01	offset_1_2	binarisation time_2 / STR1_STATUS_DATA_BYTE_45	UINT	INTEGER	Z_IDENTITY



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**Name:** SSKP0012TM **Descr:** temperature1

**Unit:** degC X Y

**Referenced by:**

SST00032 targetTemp\_1  
SST00033 tempDetector\_1  
SST00034 tempOptics\_1  
SST00035 tempHousing\_1

---

**Modelname:** GENERIC

-32768 -3276.8  
32767 3276.7

---

**Name:** Z\_IDS **Descr:** Identity [s]

**Unit:** s X Y

**Referenced by:**

AST0A480 STR1\_SD\_TSC  
ASTD1038 secSinTimSync\_1

---

**Modelname:** GENERIC

---



**Sentinel-2**  
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**Name:** ASKT2101TM **Descr:** ACQ\_STATUS

**Referenced by:**  
AST0A476 STR1\_ST\_D\_ACQ

From	To	Text
0		NOT_ACQUIRED
1		ACQ_FAILED
2		ACQUIRED

**Name:** ASKT2102TM **Descr:** ACQ\_VALID\_FLAG

**Referenced by:**  
AST0A477 STR1\_ST\_D\_VAL

From	To	Text
0		INVALID
1		VALID

**Name:** SSKT0008TM **Descr:** trigger source

**Referenced by:**  
ASTD1020 cycleTriggerS\_1

From	To	Text
0		TIMER
1		PREPROCESSOR
2		EXTERNAL

**Name:** SSKT0009TM **Descr:** operation mode

**Referenced by:**  
ASTD1021 opMode\_1

From	To	Text
0		MODEBOOT
2		MODESTANDBY
3		MODEPHOTO
4		MODEAADF
5		MODEAADW
7		MODENAT

**Name:** SSKT0010TM **Descr:** tech mode

**Referenced by:**  
ASTD1023 tecMode\_1

From	To	Text
0		COOLEROFF
1		COOLERCONTR
2		COOLERMAX

**Name:** SSKT0011TM **Descr:** error N/Y

**Referenced by:**  
ASTD1024 EepromErrApp\_1  
ASTD1025 EepromErrCal\_1  
ASTD1026 ramError\_1  
ASTD1027 interfaceError\_1  
ASTD1028 watchdogError\_1  
ASTD1029 synchError\_1  
ASTD1030 timingError\_1  
ASTD1031 fifoError\_1

From	To	Text
0		NOERROR
1		ERROR



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**Name:** SSKT0013TM **Descr:** synch source

**Referenced by:**  
ASTD1037 syncSource\_1

From	To	Text
0		SYNCSOURCENONE
1		SYNCSOURCEPRIM
2		SYNCSOURCESEC
3		SYNCSOURCEANY

**Name:** SSKT0014TM **Descr:** attitude result

**Referenced by:**  
ASTD1053 AttResult\_1

From	To	Text
-7	-1	ATTFAILED
0	0	ATTNOTENOSTARS
1	1	ATTSUCCESS
2	2	ATTREFINED

**Name:** SSKT0015TM **Descr:** last star ident

**Referenced by:**  
ASTD1054 IdResult\_1

From	To	Text
-7	-2	STARIDFAILED
-1	-1	NOTENSTARS
0	0	STIDDLE
1	1	STIDSUCCESS
2	2	STIDRUNNING

**Name:** XXKT0027TM **Descr:** Inactive\_Active

**Referenced by:**  
ASTD1022 isStreakMode\_1

From	To	Text
0		INACTIVE
1		ACTIVE



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32125	STR2 SDB Status Data Block	3	25	11	6	182	Y	66	FIXED	AST00032	125	10000	Y	32125	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	AST0B476	STR2_ST_D_ACQ	STR2_STATUS_DATA_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	AST0B477	STR2_ST_D_VAL	STR2_STATUS_DATA_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	AST0B480	STR2_SD_TSC	STR2_STATUS_DATA_TS_COARSE	UINT	INTEGER	Z_IDS
5	7	8	AST0B429	SID_2	ID of the structure / STR2_STATUS_DATA_BYTE_01	UINT	INTEGER	Z_IDENTITY
6	8	8	AST0B430	cycle_2_1	STR internal cycle number_1 / STR2_STATUS_DATA_BYTE_02	UINT	INTEGER	Z_IDENTITY
7	9	8	AST0B431	cycle_2_2	STR internal cycle number_2 / STR2_STATUS_DATA_BYTE_03	UINT	INTEGER	Z_IDENTITY
8	10	8	AST0B432	cycStartTimSt_2_1	Time stamp for cycle start_1 / STR2_STATUS_DATA_BYTE_04	UINT	INTEGER	Z_IDENTITY
9	11	8	AST0B433	cycStartTimSt_2_2	Time stamp for cycle start_2 / STR2_STATUS_DATA_BYTE_05	UINT	INTEGER	Z_IDENTITY
10	12	8	AST0B434	cycStartTimSt_2_3	Time stamp for cycle start_3 / STR2_STATUS_DATA_BYTE_06	UINT	INTEGER	Z_IDENTITY
11	13	8	AST0B435	cycStartTimSt_2_4	Time stamp for cycle start_4 / STR2_STATUS_DATA_BYTE_07	UINT	INTEGER	Z_IDENTITY
12	14	8	AST0B436	cycStartTimSt_2_5	Time stamp for cycle start_5 / STR2_STATUS_DATA_BYTE_08	UINT	INTEGER	Z_IDENTITY
13	15	8	AST0B437	cycStartTimSt_2_6	Time stamp for cycle start_6 / STR2_STATUS_DATA_BYTE_09	UINT	INTEGER	Z_IDENTITY
14	16	8	AST0B438	GloPar1SDB_2	Global Parameter 1 SDB / STR2_STATUS_DATA_BYTE_10			
	0	2	ASTD3020	cycleTriggerS_2	0: timer; 1: preprocessor; 2: external** Duplicated from SSTD3020 **	UINT	STRING	SSKT0008TM
	2	3	ASTD3021	opMode_2	STR operating mode** Duplicated from SSTD3021 **	UINT	STRING	SSKT0009TM
	5	1	ASTD3022	isStreakMode_2	1: streak processing mode is active** Duplicated from SSTD3022 **	UINT	STRING	XXKT0027TM
	6	2	ASTD3023	tecMode_2	Thermo electric cooler mode** Duplicated from SSTD3023 **	UINT	STRING	SSKT0010TM
15	17	8	AST0B439	GloPar2SDB_2	Global Parameter 2 SDB / STR2_STATUS_DATA_BYTE_11			
	0	1	ASTD3024	EepromErrApp_2	1: error in application part on EEPROM** Duplicated from SSTD3024 **	UINT	STRING	SSKT0011TM
	1	1	ASTD3025	EepromErrCal_2	1: error in calibration data part on EEPROM** Duplicated from SSTD3025 **	UINT	STRING	SSKT0011TM
	2	1	ASTD3026	ramError_2	1:RAM failure** Duplicated from SSTD3026 **	UINT	STRING	SSKT0011TM





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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32125	STR2 SDB Status Data Block	3	25	11	6	182	Y	66	FIXED	AST00032	125	10000	Y	32125	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	3	1	ASTD3027	interfaceError_2	1:failure during interface initialisation** Duplicated from SSTD3027 **	UINT	STRING	SSKT0011TM
	4	1	ASTD3028	watchdogError_2	1:Reboot cause by watchdog timer** Duplicated from SSTD3028 **	UINT	STRING	SSKT0011TM
	5	1	ASTD3029	synchError_2	1:External synchronisation failed** Duplicated from SSTD3029 **	UINT	STRING	SSKT0011TM
	6	1	ASTD3030	timingError_2	1:processing exceeded timing constraints** Duplicated from SSTD3030 **	UINT	STRING	SSKT0011TM
	7	1	ASTD3031	fifoError_2	1:FIFO capacity exceeded** Duplicated from SSTD3031 **	UINT	STRING	SSKT0011TM
16	18	16	SST03032	targetTemp_2	target temperature	SINT	REAL	SSKP0012TM
17	20	16	SST03033	tempDetector_2	detector temperature	SINT	REAL	SSKP0012TM
18	22	16	SST03034	tempOptics_2	optics temperature	SINT	REAL	SSKP0012TM
19	24	16	SST03035	tempHousing_2	housing temperature	SINT	REAL	SSKP0012TM
20	26	8	AST0B448	numEdacErrors_2	number of errors detected by RAM EDAC / STR2_STATUS_DATA_BYTE_20	UINT	INTEGER	Z_IDENTITY
21	27	8	AST0B449	GloPar3SDB_2	Global Parameter 3 SDB / STR2_STATUS_DATA_BYTE_21			
	0	2	ASTD3037	syncSource_2	source selected for external synchronization** Duplicated from SSTD3037 **	UINT	STRING	SSKT0013TM
	2	6	ASTD3038	secSinTimSync_2	number of seconds since latest sychron.** Duplicated from SSTD3038 **	UINT	INTEGER	Z_IDS
22	28	8	AST0B450	meanBackgr_2_1	mean background_1 / STR2_STATUS_DATA_BYTE_22	UINT	INTEGER	Z_IDENTITY
23	29	8	AST0B451	meanBackgr_2_2	mean background_2 / STR2_STATUS_DATA_BYTE_23	UINT	INTEGER	Z_IDENTITY
24	30	8	AST0B452	numObjDetected_2_1	number of detected objects_1 / STR2_STATUS_DATA_BYTE_24	UINT	INTEGER	Z_IDENTITY
25	31	8	AST0B453	numObjDetected_2_2	number of detected objects_2 / STR2_STATUS_DATA_BYTE_25	UINT	INTEGER	Z_IDENTITY
26	32	8	AST0B454	numObjAcquired_2_1	number of acquired objects_1 / STR2_STATUS_DATA_BYTE_26	UINT	INTEGER	Z_IDENTITY
27	33	8	AST0B455	numObjAcquired_2_2	number of acquired objects_2 / STR2_STATUS_DATA_BYTE_27	UINT	INTEGER	Z_IDENTITY
28	34	8	AST0B456	numSinglePixR_2_1	number of single pixels removed by h/w_1 / STR2_STATUS_DATA_BYTE_28	UINT	INTEGER	Z_IDENTITY
29	35	8	AST0B457	numSinglePixR_2_2	number of single pixels removed by h/w_2 / STR2_STATUS_DATA_BYTE_29	UINT	INTEGER	Z_IDENTITY



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32125	STR2 SDB Status Data Block	3	25	11	6	182	Y	66	FIXED	AST00032	125	10000	Y	32125	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
30	36	8	AST0B458	numEoDetected_2_1	number of extended objects detected by h/w_1 / STR2_STATUS_DATA_BYTE_30	UINT	INTEGER	Z_IDENTITY
31	37	8	AST0B459	numEoDetected_2_2	number of extended objects detected by h/w_2 / STR2_STATUS_DATA_BYTE_31	UINT	INTEGER	Z_IDENTITY
32	38	8	AST0B460	numStarsTracka_2	number of trackable stars / STR2_STATUS_DATA_BYTE_32	UINT	INTEGER	Z_IDENTITY
33	39	8	AST0B461	numStarsTrack_2	number of stars tracked /	UINT	INTEGER	Z_IDENTITY
34	40	8	AST0B462	numStarsForRa_2	number of stars used for rate determination / STR2_STATUS_DATA_BYTE_34	UINT	INTEGER	Z_IDENTITY
35	41	8	AST0B463	numStarsIdent_2	number of identified stars / STR2_STATUS_DATA_BYTE_35	UINT	INTEGER	Z_IDENTITY
36	42	8	AST0B464	numStarsUsedA_2	number of stars used for altit. Determinisation / STR2_STATUS_DATA_BYTE_36	UINT	INTEGER	Z_IDENTITY
37	43	8	AST0B465	numLostTrack_2	number of fall-backs from NAT to AAD / STR2_STATUS_DATA_BYTE_37	UINT	INTEGER	Z_IDENTITY
38	44	8	AST0B466	latestCommId_2_1	ID of latest recieved command_1 / STR2_STATUS_DATA_BYTE_38	UINT	INTEGER	Z_IDENTITY
39	45	8	AST0B467	latestCommId_2_2	ID of latest recieved command_2 / STR2_STATUS_DATA_BYTE_39	UINT	INTEGER	Z_IDENTITY
40	46	8	AST0B468	latestCmdRes_2	result of execution of the latest recieved command / STR2_STATUS_DATA_BYTE_40	UINT	INTEGER	Z_IDENTITY
41	47	8	AST0B469	numTcErrors_2	number of telecommand errors / STR2_STATUS_DATA_BYTE_41	UINT	INTEGER	Z_IDENTITY
42	48	8	AST0B470	GloPar4SDB_2	Global Parameter 4 SDB / STR2_STATUS_DATA_BYTE_42			
	0	4	ASTD3053	AttResult_2	last result of altitude determination** Duplicated from SSTD3053 **	SINT	STRING	SSKT0014TM
	4	4	ASTD3054	IdResult_2	last result of star identification error** Duplicated from SSTD3054 **	SINT	STRING	SSKT0015TM
43	49	8	AST0B471	tlnt_2	integration time / STR2_STATUS_DATA_BYTE_43	UINT	INTEGER	Z_IDENTITY
44	50	8	AST0B472	offset_2_1	binarisation time_1 / STR2_STATUS_DATA_BYTE_44	UINT	INTEGER	Z_IDENTITY
45	51	8	AST0BA01	offset_2_2	binarisation time_2 / STR2_STATUS_DATA_BYTE_45	UINT	INTEGER	Z_IDENTITY



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**Name:** SSKP0012TM **Descr:** temperature1

**Unit:** degC X Y

**Referenced by:**

SST03032 targetTemp\_2  
SST03033 tempDetector\_2  
SST03034 tempOptics\_2  
SST03035 tempHousing\_2

---

**Modelname:** GENERIC

-32768 -3276.8  
32767 3276.7

---

**Name:** Z\_IDS **Descr:** Identity [s]

**Unit:** s X Y

**Referenced by:**

AST0B480 STR2\_SD\_TSC  
ASTD3038 secSinTimSync\_2

---

**Modelname:** GENERIC

---



# Sentinel-2

## SRDB Database Extract

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Name: ASKT2101TM Descr: ACQ\_STATUS

Referenced by:  
AST0B476 STR2\_ST\_D\_ACQ

From	To	Text
0		NOT_ACQUIRED
1		ACQ_FAILED
2		ACQUIRED

Name: ASKT2102TM Descr: ACQ\_VALID\_FLAG

Referenced by:  
AST0B477 STR2\_ST\_D\_VAL

From	To	Text
0		INVALID
1		VALID

Name: SSKT0008TM Descr: trigger source

Referenced by:  
ASTD3020 cycleTriggerS\_2

From	To	Text
0		TIMER
1		PREPROCESSOR
2		EXTERNAL

Name: SSKT0009TM Descr: operation mode

Referenced by:  
ASTD3021 opMode\_2

From	To	Text
0		MODEBOOT
2		MODESTANDBY
3		MODEPHOTO
4		MODEAADF
5		MODEAADW
7		MODENAT

Name: SSKT0010TM Descr: tech mode

Referenced by:  
ASTD3023 tecMode\_2

From	To	Text
0		COOLEROFF
1		COOLERCONTR
2		COOLERMAX

Name: SSKT0011TM Descr: error N/Y

Referenced by:  
ASTD3024 EepromErrApp\_2  
ASTD3025 EepromErrCal\_2  
ASTD3026 ramError\_2  
ASTD3027 interfaceError\_2  
ASTD3028 watchdogError\_2  
ASTD3029 synchError\_2  
ASTD3030 timingError\_2  
ASTD3031 fifoError\_2

From	To	Text
0		NOERROR
1		ERROR



**Sentinel-2**  
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**Name:** SSKT0013TM **Descr:** synch source

**Referenced by:**  
ASTD3037 syncSource\_2

From	To	Text
0		SYNCSOURCENONE
1		SYNCSOURCEPRIM
2		SYNCSOURCESEC
3		SYNCSOURCEANY

**Name:** SSKT0014TM **Descr:** attitude result

**Referenced by:**  
ASTD3053 AttResult\_2

From	To	Text
-7	-1	ATTFAILED
0	0	ATTNOTENOSTARS
1	1	ATTSUCCESS
2	2	ATTREFINED

**Name:** SSKT0015TM **Descr:** last star ident

**Referenced by:**  
ASTD3054 IdResult\_2

From	To	Text
-7	-2	STARIDFAILED
-1	-1	NOTENSTARS
0	0	STIDDLE
1	1	STIDSUCCESS
2	2	STIDRUNNING

**Name:** XXKT0027TM **Descr:** Inactive\_Active

**Referenced by:**  
ASTD3022 isStreakMode\_2

From	To	Text
0		INACTIVE
1		ACTIVE



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32126	STR3 SDB Status Data Block	3	25	11	6	182	Y	66	FIXED	AST00032	126	10000	Y	32126	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	8	AST0C476	STR3_ST_D_ACQ	STR3_STATUS_DATA_ATTR_ACQ_FLAG	UINT	STRING	ASKT2101TM
3	2	8	AST0C477	STR3_ST_D_VAL	STR3_STATUS_DATA_ATTR_VALID_FLAG	UINT	STRING	ASKT2102TM
4	3	32	AST0C480	STR3_SD_TSC	STR3_STATUS_DATA_TS_COARSE	UINT	INTEGER	Z_IDS
5	7	8	AST0C429	SID_3	ID of the structure / STR3_STATUS_DATA_BYTE_01	UINT	INTEGER	Z_IDENTITY
6	8	8	AST0C430	cycle_3_1	STR internal cycle number_1 / STR3_STATUS_DATA_BYTE_02	UINT	INTEGER	Z_IDENTITY
7	9	8	AST0C431	cycle_3_2	STR internal cycle number_2 / STR3_STATUS_DATA_BYTE_03	UINT	INTEGER	Z_IDENTITY
8	10	8	AST0C432	cycStartTimSt_3_1	Time stamp for cycle start_1 / STR3_STATUS_DATA_BYTE_04	UINT	INTEGER	Z_IDENTITY
9	11	8	AST0C433	cycStartTimSt_3_2	Time stamp for cycle start_2 / STR3_STATUS_DATA_BYTE_05	UINT	INTEGER	Z_IDENTITY
10	12	8	AST0C434	cycStartTimSt_3_3	Time stamp for cycle start_3 / STR3_STATUS_DATA_BYTE_06	UINT	INTEGER	Z_IDENTITY
11	13	8	AST0C435	cycStartTimSt_3_4	Time stamp for cycle start_4 / STR3_STATUS_DATA_BYTE_07	UINT	INTEGER	Z_IDENTITY
12	14	8	AST0C436	cycStartTimSt_3_5	Time stamp for cycle start_5 / STR3_STATUS_DATA_BYTE_08	UINT	INTEGER	Z_IDENTITY
13	15	8	AST0C437	cycStartTimSt_3_6	Time stamp for cycle start_6 / STR3_STATUS_DATA_BYTE_09	UINT	INTEGER	Z_IDENTITY
14	16	8	AST0C438	GloPar1SDB_3	Global Parameter 1 SDB / STR3_STATUS_DATA_BYTE_10			
	0	2	ASTD6020	cycleTriggerS_3	0: timer; 1: preprocessor; 2: external** Duplicated from SSTD6020 **	UINT	STRING	SSKT0008TM
	2	3	ASTD6021	opMode_3	STR operating mode** Duplicated from SSTD6021 **	UINT	STRING	SSKT0009TM
	5	1	ASTD6022	isStreakMode_3	1: streak processing mode is active** Duplicated from SSTD6022 **	UINT	STRING	XXKT0027TM
	6	2	ASTD6023	tecMode_3	Thermo electric cooler mode** Duplicated from SSTD6023 **	UINT	STRING	SSKT0010TM
15	17	8	AST0C439	GloPar2SDB_3	Global Parameter 2 SDB / STR3_STATUS_DATA_BYTE_11			
	0	1	ASTD6024	EepromErrApp_3	1: error in application part on EEPROM** Duplicated from SSTD6024 **	UINT	STRING	SSKT0011TM
	1	1	ASTD6025	EepromErrCal_3	1: error in calibration data part on EEPROM** Duplicated from SSTD6025 **	UINT	STRING	SSKT0011TM
	2	1	ASTD6026	ramError_3	1:RAM failure** Duplicated from SSTD6026 **	UINT	STRING	SSKT0011TM



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32126	STR3 SDB Status Data Block	3	25	11	6	182	Y	66	FIXED	AST00032	126	10000	Y	32126	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	3	1	ASTD6027	interfaceError_3	1:failure during interface initialisation** Duplicated from SSTD6027 **	UINT	STRING	SSKT0011TM
	5	1	ASTD6029	synchError_3	1:External synchronisation failed** Duplicated from SSTD6029 **	UINT	STRING	SSKT0011TM
	6	1	ASTD6030	timingError_3	1:processing exceeded timing constraints** Duplicated from SSTD6030 **	UINT	STRING	SSKT0011TM
	7	1	ASTD6031	fifoError_3	1:FIFO capacity exceeded** Duplicated from SSTD6031 **	UINT	STRING	SSKT0011TM
16	18	16	SST06032	targetTemp_3	target temperature	SINT	REAL	SSKP0012TM
17	20	16	SST06033	tempDetector_3	detector temperature	SINT	REAL	SSKP0012TM
18	22	16	SST06034	tempOptics_3	optics temperature	SINT	REAL	SSKP0012TM
19	24	16	SST06035	tempHousing_3	housing temperature	SINT	REAL	SSKP0012TM
20	26	8	AST0C448	numEdacErrors_3	number of errors detected by RAM EDAC / STR3_STATUS_DATA_BYTE_20	UINT	INTEGER	Z_IDENTITY
21	27	8	AST0C449	GloPar3SDB_3	Global Parameter 3 SDB / STR3_STATUS_DATA_BYTE_21			
	0	2	ASTD6037	syncSource_3	source selected for external synchronization** Duplicated from SSTD6037 **	UINT	STRING	SSKT0013TM
	2	6	ASTD6038	secSinTimSync_3	number of seconds since latest synchron.** Duplicated from SSTD6038 **	UINT	INTEGER	Z_IDS
22	28	8	AST0C450	meanBackgr_3_1	mean background_1 / STR3_STATUS_DATA_BYTE_22	UINT	INTEGER	Z_IDENTITY
23	29	8	AST0C451	meanBackgr_3_2	mean background_2 / STR3_STATUS_DATA_BYTE_23	UINT	INTEGER	Z_IDENTITY
24	30	8	AST0C452	numObjDetected_3_1	number of detected objects_1 / STR3_STATUS_DATA_BYTE_24	UINT	INTEGER	Z_IDENTITY
25	31	8	AST0C453	numObjDetected_3_2	number of detected objects_2 / STR3_STATUS_DATA_BYTE_25	UINT	INTEGER	Z_IDENTITY
26	32	8	AST0C454	numObjAcquired_3_1	number of acquired objects_1 / STR3_STATUS_DATA_BYTE_26	UINT	INTEGER	Z_IDENTITY
27	33	8	AST0C455	numObjAcquired_3_2	number of acquired objects_2 / STR3_STATUS_DATA_BYTE_27	UINT	INTEGER	Z_IDENTITY
28	34	8	AST0C456	numSinglePixR_3_1	number of single pixels removed by h/w_1 / STR3_STATUS_DATA_BYTE_28	UINT	INTEGER	Z_IDENTITY
29	35	8	AST0C457	numSinglePixR_3_2	number of single pixels removed by h/w_2 / STR3_STATUS_DATA_BYTE_29	UINT	INTEGER	Z_IDENTITY
30	36	8	AST0C458	numEoDetected_3_1	number of extended objects detected by h/w_1 / STR3_STATUS_DATA_BYTE_30	UINT	INTEGER	Z_IDENTITY



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
ASY_ANC32126	STR3 SDB Status Data Block		3_25	11	6	182	Y	66	FIXED	AST00032	126	10000	Y	32126	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
31	37	8	AST0C459	numEoDetected_3_2	number of extended objects detected by h/w_2 / STR3_STATUS_DATA_BYTE_31	UINT	INTEGER	Z_IDENTITY
32	38	8	AST0C460	numStarsTracka_3	number of trackable stars / STR3_STATUS_DATA_BYTE_32	UINT	INTEGER	Z_IDENTITY
33	39	8	AST0C461	numStarsTrack_3	number of stars tracked /	UINT	INTEGER	Z_IDENTITY
34	40	8	AST0C462	numStarsForRa_3	number of stars used for rate determination / STR3_STATUS_DATA_BYTE_34	UINT	INTEGER	Z_IDENTITY
35	41	8	AST0C463	numStarsIdent_3	number of identified stars / STR3_STATUS_DATA_BYTE_35	UINT	INTEGER	Z_IDENTITY
36	42	8	AST0C464	numStarsUsedA_3	number of stars used for altit. Determinisation / STR3_STATUS_DATA_BYTE_36	UINT	INTEGER	Z_IDENTITY
37	43	8	AST0C465	numLostTrack_3	number of fall-backs from NAT to AAD / STR3_STATUS_DATA_BYTE_37	UINT	INTEGER	Z_IDENTITY
38	44	8	AST0C466	latestCommId_3_1	ID of latest recieved command_1 / STR3_STATUS_DATA_BYTE_38	UINT	INTEGER	Z_IDENTITY
39	45	8	AST0C467	latestCommId_3_2	ID of latest recieved command_2 / STR3_STATUS_DATA_BYTE_39	UINT	INTEGER	Z_IDENTITY
40	46	8	AST0C468	latestCmdRes_3	result of execution of the latest recieved command / STR3_STATUS_DATA_BYTE_40	UINT	INTEGER	Z_IDENTITY
41	47	8	AST0C469	numTcErrors_3	number of telecommand errors / STR3_STATUS_DATA_BYTE_41	UINT	INTEGER	Z_IDENTITY
42	48	8	AST0C470	GloPar4SDB_3	Global Parameter 4 SDB / STR3_STATUS_DATA_BYTE_42			
	0	4	ASTD6053	AttResult_3	last result of altitude determination** Duplicated from SSTD6053 **	SINT	STRING	SSKT0014TM
	4	4	ASTD6054	IdResult_3	last result of star identification error** Duplicated from SSTD6054 **	SINT	STRING	SSKT0015TM
43	49	8	AST0C471	tlnt_3	integration time / STR3_STATUS_DATA_BYTE_43	UINT	INTEGER	Z_IDENTITY
44	50	8	AST0C472	offset_3_1	binarisation time_1 / STR3_STATUS_DATA_BYTE_44	UINT	INTEGER	Z_IDENTITY
45	51	8	AST0CA01	offset_3_2	binarisation time_2 / STR3_STATUS_DATA_BYTE_45	UINT	INTEGER	Z_IDENTITY





**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

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**Name:** SSKP0012TM **Descr:** temperature1

**Unit:** degC X Y

**Referenced by:**

SST06032 targetTemp\_3  
SST06033 tempDetector\_3  
SST06034 tempOptics\_3  
SST06035 tempHousing\_3

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**Modelname:** GENERIC

-32768 -3276.8  
32767 3276.7

---

**Name:** Z\_IDS **Descr:** Identity [s]

**Unit:** s X Y

**Referenced by:**

AST0C480 STR3\_SD\_TSC  
ASTD6038 secSinTimSync\_3

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**Modelname:** GENERIC

---



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

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**Name:** ASKT2101TM **Descr:** ACQ\_STATUS

**Referenced by:**  
AST0C476 STR3\_ST\_D\_ACQ

From	To	Text
0		NOT_ACQUIRED
1		ACQ_FAILED
2		ACQUIRED

**Name:** ASKT2102TM **Descr:** ACQ\_VALID\_FLAG

**Referenced by:**  
AST0C477 STR3\_ST\_D\_VAL

From	To	Text
0		INVALID
1		VALID

**Name:** SSKT0008TM **Descr:** trigger source

**Referenced by:**  
ASTD6020 cycleTriggerS\_3

From	To	Text
0		TIMER
1		PREPROCESSOR
2		EXTERNAL

**Name:** SSKT0009TM **Descr:** operation mode

**Referenced by:**  
ASTD6021 opMode\_3

From	To	Text
0		MODEBOOT
2		MODESTANDBY
3		MODEPHOTO
4		MODEAADF
5		MODEAADW
7		MODENAT

**Name:** SSKT0010TM **Descr:** tech mode

**Referenced by:**  
ASTD6023 tecMode\_3

From	To	Text
0		COOLEROFF
1		COOLERCONTR
2		COOLERMAX

**Name:** SSKT0011TM **Descr:** error N/Y

**Referenced by:**  
ASTD6024 EepromErrApp\_3  
ASTD6025 EepromErrCal\_3  
ASTD6026 ramError\_3  
ASTD6027 interfaceError\_3  
ASTD6029 synchError\_3  
ASTD6030 timingError\_3  
ASTD6031 fifoError\_3

From	To	Text
0		NOERROR
1		ERROR



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**SRDB Database Extract**  
TM Textual Calibration Curves

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**Name:** SSKT0013TM **Descr:** synch source

**Referenced by:**  
ASTD6037 syncSource\_3

From	To	Text
0		SYNCSOURCENONE
1		SYNCSOURCEPRIM
2		SYNCSOURCESEC
3		SYNCSOURCEANY

**Name:** SSKT0014TM **Descr:** attitude result

**Referenced by:**  
ASTD6053 AttResult\_3

From	To	Text
-7	-1	ATTFAILED
0	0	ATTNOTENOSTARS
1	1	ATTSUCCESS
2	2	ATTREFINED

**Name:** SSKT0015TM **Descr:** last star ident

**Referenced by:**  
ASTD6054 IdResult\_3

From	To	Text
-7	-2	STARIDFAILED
-1	-1	NOTENSTARS
0	0	STIDDLE
1	1	STIDSUCCESS
2	2	STIDRUNNING

**Name:** XXKT0027TM **Descr:** Inactive\_Active

**Referenced by:**  
ASTD6022 isStreakMode\_3

From	To	Text
0		INACTIVE
1		ACTIVE



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
CJY_ANC17123	FLI_MSI SAD Data	3	25	9	6	150	Y	87	FIXED	CJT00032	123	10000	Y	17123	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
2	1	32	CJT00602	MSI_A_SCV_OP	SCV MSI_A Operational Status	UINT	STRING	XXKT0019TM
3	5	32	CJT10602	MSI_B_SCV_OP	SCV MSI_B Operational Status	UINT	STRING	XXKT0019TM
4	9	16	CJT61000	MSI_MODE_ID_VCU_SA6	MSI VCU Mode Message (Data Word 0)	UINT	STRING	JHKT0073TM
5	11	32	CJT00611	RIUA_CSM_SCV_OP	SCV RIU_CSMDE_A Operational Status	UINT	STRING	XXKT0019TM
6	15	32	CJT10611	RIUB_CSM_SCV_OP	SCV RIU_CSMDE_B Operational Status	UINT	STRING	XXKT0019TM
7	19	32	CJT60071	MSI_INS_MODE_ID	Current MSI High Level mode Identifier	UINT	STRING	CJKT2010TM
8	23	16	CJT28020	THCT_1N_M1	Selected VCU unit Thermal HK 6 data word 20 containing ADC value of control thermistor thermal zone #1 DW_16 [SA14]	UINT	REAL	JHKP0121TM
9	25	16	CJT28029	THCT_10N_TELE	Selected VCU unit Thermal HK 6 data word 29 containing ADC value of control thermistor thermal zone #10 DW_25 [SA14]	UINT	REAL	JHKP0130TM
10	27	16	CJT28022	THCT_3N_ARM	Selected VCU unit Thermal HK 6 data word 22 containing ADC value of control thermistor thermal zone #3 DW_18 [SA14]	UINT	REAL	JHKP0123TM
11	29	16	CJT28021	THCT_2N_ARM	Selected VCU unit Thermal HK 6 data word 21 containing ADC value of control thermistor thermal zone #2 DW_17 [SA14]	UINT	REAL	JHKP0122TM
12	31	16	CJT28023	THCT_4N_TELE	Selected VCU unit Thermal HK 6 data word 23 containing ADC value of control thermistor thermal zone #4 DW_19 [SA14]	UINT	REAL	JHKP0124TM
13	33	16	CJT29005	THCT_14N_M1_SC	Selected VCU unit Thermal HK 7 data word 5 containing ADC value of control thermistor thermal zone #14 DW_1 [SA15]	UINT	REAL	JHKP0134TM
14	35	16	CJT29004	THCT_13N_M3_SC	Selected VCU unit Thermal HK 7 data word 4 containing ADC value of control thermistor thermal zone #13 DW_0 [SA15]	UINT	REAL	JHKP0133TM
15	37	16	CJT28031	THCT_12N_M2	Selected VCU unit Thermal HK 6 data word 31 containing ADC value of control thermistor thermal zone #12 DW_27 [SA14]	UINT	REAL	JHKP0132TM
16	39	16	CJT28026	THCT_7N_VFPA	Selected VCU unit Thermal HK 6 data word 26 containing ADC value of control thermistor thermal zone #7 DW_22 [SA14]	UINT	REAL	JHKP0127TM
17	41	16	CJT28028	THCT_9N_VFEE	Selected VCU unit Thermal HK 6 data word 28 containing ADC value of control thermistor thermal zone #9 DW_24 [SA14]	UINT	REAL	JHKP0129TM
18	43	16	CJT28025	THCT_6N_SFPA	Selected VCU unit Thermal HK 6 data word 25 containing	UINT	REAL	JHKP0126TM



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
CJY_ANC17123	FLI_MSI SAD Data	3	25	9	6	150	Y	87	FIXED	CJT00032	123	10000	Y	17123	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
19	45	16	CJT28027	THCT_8N_SFEE	ADC value of control thermistor thermal zone #6 DW_21 [SA14] Selected VCU unit Thermal HK 6 data word 27 containing ADC value of control thermistor thermal zone #8 DW_23 [SA14]	UINT	REAL	JHKP0128TM
20	47	16	CJT28024	THCT_5N_SPLITBOT	Selected VCU unit Thermal HK 6 data word 24 containing ADC value of control thermistor thermal zone #5 DW_20 [SA14]	UINT	REAL	JHKP0125TM
21	49	16	CJT28030	THCT_11N_SPLITOP	Selected VCU unit Thermal HK 6 data word 30 containing ADC value of control thermistor thermal zone #11 DW_26 [SA14]	UINT	REAL	JHKP0131TM
22	51	16	TST00422	CSM_A1_Temp	MSI CSM Door - #1 Temp / ANY_2_1_1	UINT	REAL	TSKP0030TM
23	53	16	TST00423	CSM_A2_Temp	MSI CSM Frame - #1 Temp / ANY_2_1_2	UINT	REAL	TSKP0030TM
24	55	16	TST00424	CSM_A3_Temp	MSI CSM Thermal Shield - #1 Temp / ANY_2_1_3	UINT	REAL	TSKP0030TM
25	57	16	TST00344	GFA_BP-1_Temp	GFU Assembly Baseplate - #1 Temp / ANY_1_3_3	UINT	REAL	TSKP0030TM
26	59	16	TST00512	STA_ZM-1_Temp	STR Assembly Support Dome -Z - #1 Temp / ANY_2_5_11	UINT	REAL	TSKP0030TM
27	61	16	TST00349	STA_XP-1_Temp	STR Assembly Support Dome +X - #1 Temp / ANY_1_3_8	UINT	REAL	TSKP0030TM
28	63	16	TST00329	STA_XM-1_Temp	STR Assembly Support Dome -X - #1 Temp/ ANY_1_2_8	UINT	REAL	TSKP0030TM
29	65	16	TST00313	STA_BP-1_Temp	STR Assembly Baseplate - #1 Temp / ANY_1_1_12	UINT	REAL	TSKP0030TM
30	67	16	TST00370	STA_YM-1_Temp	STR Assembly Support Dome -Y - #1 Temp / ANY_1_4_9	UINT	REAL	TSKP0030TM
31	69	16	JHTG6001	CSM_sw_flgA_nom	RIU_ACQUISITION_TABLE92_WORD2			
	0	1	JHTD6020	CSMDE_A_RD_ev_A	Evaluated RD switch status	UINT	STRING	XXKT0008TM
	1	1	JHTD6021	CSM_A_Dom_ev_A	Evaluated CSM domain status	UINT	STRING	CRKT1994TM
	2	1	JHTD6022	CSM_A_SM_ev_A	Evaluated SM position switch status	UINT	STRING	XXKT0008TM
	3	1	JHTD6023	CSM_A_CA_ev_A	Evaluated Calibration position switch status	UINT	STRING	XXKT0008TM
	4	1	JHTD6024	CSM_A_CL_ev_A	Evaluated Closed position switch status	UINT	STRING	XXKT0008TM
	5	1	JHTD6025	CSM_A_OP_ev_A	Evaluated Open position switch status	UINT	STRING	XXKT0008TM
	6	1	JHTD6026	CSM_A_RD_rd_A	Actual redunt RD switch status	UINT	STRING	XXKT0008TM
	7	1	JHTD6027	CSM_A_RD_nm_A	Actual nomin RD switch status	UINT	STRING	XXKT0008TM
	8	1	JHTD6028	CSM_A_SMpos_rd_A	Actual redunt SM position switch status	UINT	STRING	XXKT0008TM
	9	1	JHTD6029	CSM_A_SMpos_nm_A	Actual nomin SM position switch status	UINT	STRING	XXKT0008TM
	10	1	JHTD6030	CSM_A_CApos_rd_A	Actual redunt Calibration position switch status	UINT	STRING	XXKT0008TM
	11	1	JHTD6031	CSM_A_CApos_nm_A	Actual nomin Calibration position switch status	UINT	STRING	XXKT0008TM
	12	1	JHTD6032	CSM_A_CLpos_rd_A	Actual redunt Closed position switch status	UINT	STRING	XXKT0008TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatn	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
CJY_ANC17123	FLI_MSI SAD Data	3	25	9	6	150	Y	87	FIXED	CJT00032	123	10000	Y	17123	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
32	71	13	JHTD6033	CSM_A_CLpos_nm_A	Actual nomin Closed position switch status	UINT	STRING	XXKT0008TM
		14	JHTD6034	CSM_A_OPpos_rd_A	Actual redunt Open position switch status	UINT	STRING	XXKT0008TM
		15	JHTD6035	CSM_A_OPpos_nm_A	Actual nomin Open position switch status	UINT	STRING	XXKT0008TM
		16	JHTG6101	CSM_sw_flgB_nom	RIU_ACQUISITION_TABLE94_WORD2			
		0	JHTD6120	CSMDE_A_RD_ev_B		UINT	STRING	XXKT0008TM
		1	JHTD6121	CSM_A_Dom_ev_B		UINT	STRING	CRKT1994TM
		2	JHTD6122	CSM_A_SM_ev_B		UINT	STRING	XXKT0008TM
		3	JHTD6123	CSM_A_CA_ev_B		UINT	STRING	XXKT0008TM
		4	JHTD6124	CSM_A_CL_ev_B		UINT	STRING	XXKT0008TM
		5	JHTD6125	CSM_A_OP_ev_B		UINT	STRING	XXKT0008TM
		6	JHTD6126	CSM_A_RD_rd_B		UINT	STRING	XXKT0008TM
		7	JHTD6127	CSM_A_RD_nm_B		UINT	STRING	XXKT0008TM
		8	JHTD6128	CSM_A_SMpos_rd_B		UINT	STRING	XXKT0008TM
		9	JHTD6129	CSM_A_SMpos_nm_B		UINT	STRING	XXKT0008TM
		10	JHTD6130	CSM_A_CApos_rd_B		UINT	STRING	XXKT0008TM
		11	JHTD6131	CSM_A_CApos_nm_B		UINT	STRING	XXKT0008TM
		12	JHTD6132	CSM_A_CLpos_rd_B		UINT	STRING	XXKT0008TM
		13	JHTD6133	CSM_A_CLpos_nm_B		UINT	STRING	XXKT0008TM
		14	JHTD6134	CSM_A_OPpos_rd_B		UINT	STRING	XXKT0008TM
		15	JHTD6135	CSM_A_OPpos_nm_B		UINT	STRING	XXKT0008TM



**Sentinel-2**  
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TM Numerical Calibration Curves

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**Name:** JHKP0121TM **Descr:** TEMP\_A\_THCT\_01N

**Unit:** degC X Y

**Modelname:** GENERIC

0 -1  
16383 51

**Referenced by:**

CJT28020 THCT\_1N\_M1

**Name:** JHKP0122TM **Descr:** TEMP\_A\_THCT\_02N

**Unit:** degC X Y

**Modelname:** GENERIC

0 -1  
16383 51

**Referenced by:**

CJT28021 THCT\_2N\_ARM

**Name:** JHKP0123TM **Descr:** TEMP\_A\_THCT\_03N

**Unit:** degC X Y

**Modelname:** GENERIC

0 -1  
16383 51

**Referenced by:**

CJT28022 THCT\_3N\_ARM

**Name:** JHKP0124TM **Descr:** TEMP\_A\_THCT\_04N

**Unit:** degC X Y

**Modelname:** GENERIC

0 -1  
16383 51

**Referenced by:**

CJT28023 THCT\_4N\_TELE

**Name:** JHKP0125TM **Descr:** TEMP\_A\_THCT\_05N

**Unit:** degC X Y

**Modelname:** GENERIC

0 -1  
16383 51

**Referenced by:**

CJT28024 THCT\_5N\_SPLITBOT

**Name:** JHKP0126TM **Descr:** TEMP\_A\_M90\_M65\_THCT\_06N

**Unit:** degC X Y

**Modelname:** GENERIC

0 -101  
197 -100  
1453 -98  
3327 -95  
5197 -92  
6439 -90  
8304 -87  
10171 -84  
12032 -81  
13882 -78  
15727 -75  
16383 -74

**Referenced by:**

CJT28025 THCT\_6N\_SFPA



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**Name:** JHKP0127TM **Descr:** TEMP\_A\_THCT\_07N  
**Unit:** degC **X** **Y**  
**Modelname:** GENERIC

**Referenced by:**  
CJT28026 THCT\_7N\_VFPA

0 -1  
16383 51

**Name:** JHKP0128TM **Descr:** TEMP\_A\_THCT\_08N  
**Unit:** degC **X** **Y**  
**Modelname:** GENERIC

**Referenced by:**  
CJT28027 THCT\_8N\_SFEE

0 -1  
16383 51

**Name:** JHKP0129TM **Descr:** TEMP\_A\_THCT\_09N  
**Unit:** degC **X** **Y**  
**Modelname:** GENERIC

**Referenced by:**  
CJT28028 THCT\_9N\_VFEE

0 -1  
16383 51

**Name:** JHKP0130TM **Descr:** TEMP\_A\_THCT\_10N  
**Unit:** degC **X** **Y**  
**Modelname:** GENERIC

**Referenced by:**  
CJT28029 THCT\_10N\_TELE

0 -1  
16383 51

**Name:** JHKP0131TM **Descr:** TEMP\_A\_THCT\_11N  
**Unit:** degC **X** **Y**  
**Modelname:** GENERIC

**Referenced by:**  
CJT28030 THCT\_11N\_SPLITOP

0 -1  
16383 51

**Name:** JHKP0132TM **Descr:** TEMP\_A\_THCT\_12N  
**Unit:** degC **X** **Y**  
**Modelname:** GENERIC

**Referenced by:**  
CJT28031 THCT\_12N\_M2

0 -1  
16383 51

**Name:** JHKP0133TM **Descr:** TEMP\_A\_THCT\_13N  
**Unit:** degC **X** **Y**  
**Modelname:** GENERIC

**Referenced by:**  
CJT29004 THCT\_13N\_M3\_SC

0 -1  
16383 51

**Name:** JHKP0134TM **Descr:** TEMP\_A\_THCT\_14N  
**Unit:** degC **X** **Y**  
**Modelname:** GENERIC

**Referenced by:**  
CJT29005 THCT\_14N\_M1\_SC

0 -1  
16383 51





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**Name:** TSKP0030TM **Descr:** ANY\_BetaTherm\_generic

**Unit:** degC

X

Y

**Referenced by:**

TST00313 STA\_BP-1\_Temp  
TST00329 STA\_XM-1\_Temp  
TST00344 GFA\_BP-1\_Temp  
TST00349 STA\_XP-1\_Temp  
TST00370 STA\_YM-1\_Temp  
TST00422 CSM\_A1\_Temp  
TST00423 CSM\_A2\_Temp  
TST00424 CSM\_A3\_Temp  
TST00512 STA\_ZM-1\_Temp

**Modelname:** GENERIC

347	125
506	110
659	100
869	90
1158	80
1560	70
2124	60
2917	50
3112	48
3319	46
3541	44
3779	42
4033	40
4304	38
4594	36
4904	34
5233	32
5584	30
5958	28
6356	26
6564	25
6778	24
7225	22
7698	20
8197	18
8723	16
9276	14
9856	12
10463	10
11096	8
11754	6
12435	4
13140	2
13864	0
15749	-5
17701	-10
19664	-15
21577	-20



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23384	-25
25036	-30
26500	-35
27757	-40
28807	-45
29661	-50
30340	-55
30866	-60

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**Name:** CJKT2010TM **Descr:** MSI\_INS\_MODE\_ID

**Referenced by:**  
CJT60071 MSI\_INS\_MODE\_ID

From	To	Text
0		INS_SRV
1		INS_STB
2		INS_IDL
3		INS_IMG
4		INS_NOBS
5		INS_EOBS
6		INS_DASC
7		INS_ABSR
8		INS_VIC
9		INS_RAW
10		INS_TST
11		INS_DEC
12		INS_SBY_R
13		INS_SVR_R

**Name:** CRKT1994TM **Descr:** CSM\_domain

**Referenced by:**  
JHTD6021 CSM\_A\_Dom\_ev\_A  
JHTD6121 CSM\_A\_Dom\_ev\_B

From	To	Text
0		CALIB_DOMAIN
1		OPEN_DOMAIN

**Name:** JHKT0073TM **Descr:** MSI\_Mode\_Identifier

**Referenced by:**  
CJT61000 MSI\_MODE\_ID\_VCU\_SA

From	To	Text
1		STAND_BY_MODE
16		IDLE_MODE
256		IMAGE_MODE
1024		DECON_MODE
4369		TRANSITION_MOD



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**Name:** XXKT0008TM **Descr:** RelaySwClosed\_Open

**Referenced by:**

**From To Text**

JHTD6020 CSMDE\_A\_RD\_ev\_A  
JHTD6022 CSM\_A\_SM\_ev\_A  
JHTD6023 CSM\_A\_CA\_ev\_A  
JHTD6024 CSM\_A\_CL\_ev\_A  
JHTD6025 CSM\_A\_OP\_ev\_A  
JHTD6026 CSM\_A\_RD\_rd\_A  
JHTD6027 CSM\_A\_RD\_nm\_A  
JHTD6028 CSM\_A\_SMpos\_rd\_A  
JHTD6029 CSM\_A\_SMpos\_nm\_A  
JHTD6030 CSM\_A\_CApos\_rd\_A  
JHTD6031 CSM\_A\_CApos\_nm\_A  
JHTD6032 CSM\_A\_CLpos\_rd\_A  
JHTD6033 CSM\_A\_CLpos\_nm\_A  
JHTD6034 CSM\_A\_OPpos\_rd\_A  
JHTD6035 CSM\_A\_OPpos\_nm\_A  
JHTD6120 CSMDE\_A\_RD\_ev\_B  
JHTD6122 CSM\_A\_SM\_ev\_B  
JHTD6123 CSM\_A\_CA\_ev\_B  
JHTD6124 CSM\_A\_CL\_ev\_B  
JHTD6125 CSM\_A\_OP\_ev\_B  
JHTD6126 CSM\_A\_RD\_rd\_B  
JHTD6127 CSM\_A\_RD\_nm\_B  
JHTD6128 CSM\_A\_SMpos\_rd\_B  
JHTD6129 CSM\_A\_SMpos\_nm\_B  
JHTD6130 CSM\_A\_CApos\_rd\_B  
JHTD6131 CSM\_A\_CApos\_nm\_B  
JHTD6132 CSM\_A\_CLpos\_rd\_B  
JHTD6133 CSM\_A\_CLpos\_nm\_B  
JHTD6134 CSM\_A\_OPpos\_rd\_B  
JHTD6135 CSM\_A\_OPpos\_nm\_B

0 RELAYSWCLOSED  
1 RELAY\_SW\_OPEN

**Name:** XXKT0019TM **Descr:** Unused\_Used

**Referenced by:**

**From To Text**

CJT00602 MSI\_A\_SCV\_OP  
CJT00611 RIUA\_CSM\_SCV\_OP  
CJT10602 MSI\_B\_SCV\_OP  
CJT10611 RIUB\_CSM\_SCV\_OP

0 NOT\_USEABLE  
1 USEABLE



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37088	N_ScienceDataReport__SatellitesInView	212	1	48	6	774	Y	50	VAR_W	GST01688	SAT_IN_VIEW		Y	37088	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST01688	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST01689	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0168A	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0168B	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG02F7	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0168C	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST0168D	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0168E	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0168F	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG02F8	CONS_SVID_BLOCK__	CONS_SVID_BLOCK_E_B			
	0	3	GST01690	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01691	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	3	GST01692	BLOCK	GPS_SV_Block_type	UINT	STRING	GSKT0214TM
	14	1	GST01693	E	Ephemeris_data_available	UINT	STRING	GSKT0215TM
	15	1	GST01694	B	SV_temporarily_banned_flag	UINT	STRING	GSKT0216TM
8	10	8	GSTG02F9	ANT_X_N_M_S	ANT_X_N_M_S			
	0	4	GST01695	ANT	antenna_identifier	UINT	STRING	GSKT0217TM
	4	1	GST01696	X	SV_is_excluded_by_user	UINT	STRING	GSKT0218TM
	5	1	GST01697	N	SV_is_used_for_navigation_solution	UINT	STRING	GSKT0219TM
	6	1	GST01698	M	multipath_mitigation_masking	UINT	STRING	GSKT0220TM
	7	1	GST01699	S	GNSS_SV_antenna_masking	UINT	STRING	GSKT0221TM
9	11	8	GST0169A	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0222TM
10	12	8	GSTG02FA	URA_AL_FP_NU2	URA_AL_FP_NU2			
	0	5	GST0169B	URA	User_range_accuracy_index	UINT	INTEGER	Z_IDENTITY
	5	1	GST0169C	AL	alert_flag	UINT	INTEGER	Z_IDENTITY
	6	1	GST0169D	FP	Force_P_Y_tracking_flag	UINT	STRING	GSKT0223TM
	7	1	GST0169E	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
11	13	8	GSTG02FB	H1_H2_NU3	H1_H2_NU3			
	0	1	GST0169F	H1	Signal_and_data_health_for_1st_band	UINT	STRING	GSKT0224TM
	1	1	GST016A0	H2	Signal_and_data_health_for_2nd_band	UINT	STRING	GSKT0225TM
	2	6	GST016A1	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
12	14	32	GST016A2	PSEUDO_R_MSB	measured_pseudo_range_MSB_part	UINT	INTEGER	GSKP0347TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37088	N_ScienceDataReport__SatellitesInView	212	1	48	6	774	Y	50	VAR_W	GST01688	SAT_IN_VIEW		Y	37088	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
13	18	16	GST016A3	PSEUDO_R_LSB	measured_pseudo_range_LSB_part	UINT	INTEGER	Z_IDMM
14	20	32	GST016A4	DELTA_R	measured_delta_range	SINT	INTEGER	GSKP0226TM
15	24	16	GST016A5	ZENITH_t0	zenith_angle_at_time_t0	UINT	INTEGER	GSKP0227TM
16	26	16	GST016A6	AZ_t0	azimuth_angle_at_time_t0	SINT	INTEGER	GSKP0228TM
17	28	16	GST016A7	ZENITH_t1	zenith_angle_at_time_t1	UINT	INTEGER	GSKP0227TM
18	30	16	GST016A8	AZ_t1	azimuth_angle_at_time_t1	SINT	INTEGER	GSKP0228TM
19	32	16	GST016A9	ATT_UNC	Attitude_uncertainty	UINT	INTEGER	GSKP0229TM
20	34	16	GST016AA	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY



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**Name:** GSKP0226TM **Descr:** DELTA\_RNG

**Referenced by:**

**Unit:** m/s X Y

GST016A4 DELTA\_R

**Modelname:** GENERIC

-2147483648 -21474.83648  
2147483647 21474.83647

**Name:** GSKP0227TM **Descr:** ZENITH\_t0

**Referenced by:**

**Unit:** deg X Y

GST016A5 ZENITH\_t0  
GST016A7 ZENITH\_t1

**Modelname:** GENERIC

0 0  
65535 655.35

**Name:** GSKP0228TM **Descr:** AZ\_t0

**Referenced by:**

**Unit:** deg X Y

GST016A6 AZ\_t0  
GST016A8 AZ\_t1

**Modelname:** GENERIC

-32768 -327.68  
32767 327.67

**Name:** GSKP0229TM **Descr:** ATT\_UNC

**Referenced by:**

**Unit:** deg X Y

GST016A9 ATT\_UNC

**Modelname:** GENERIC

0 0  
65535 65.535

**Name:** GSKP0347TM **Descr:** MaxPosErrAlm

**Referenced by:**

**Unit:** m X Y

GST016A2 PSEUDO\_R\_MSB

**Modelname:** GENERIC

0 0  
4294967295 4294967.295

**Name:** Z\_IDMM **Descr:** Identity millimetre [mm]

**Referenced by:**

**Unit:** mm X Y

GST016A3 PSEUDO\_R\_LSB

**Modelname:** GENERIC



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**Name:** GSKT0214TM **Descr:** BLOCK

**Referenced by:**  
GST01692 BLOCK

From	To	Text
0		BLOCK_I
1		BLOCK_IIIIAIR
2		BLOCK_IIR-M
3		BLOCK_IIF
7		BLOCK_UNKNOWN

**Name:** GSKT0215TM **Descr:** E

**Referenced by:**  
GST01693 E

From	To	Text
0		NO_EPHEMERIS_A
1		EPHEMERIS_AVAI

**Name:** GSKT0216TM **Descr:** B

**Referenced by:**  
GST01694 B

From	To	Text
0		SV_NOT_BANNED
1		SV_TEMP_BANNED

**Name:** GSKT0217TM **Descr:** ANT

**Referenced by:**  
GST01695 ANT

From	To	Text
0		FIRST_ANTENNA
1		SECOND_ANTENNA

**Name:** GSKT0218TM **Descr:** X

**Referenced by:**  
GST01696 X

From	To	Text
0		SV_NOT_EXCLUDE
1		SV_EXCLUDED

**Name:** GSKT0219TM **Descr:** N

**Referenced by:**  
GST01697 N

From	To	Text
0		SV_NOT_USED_FO
1		SV_USED_FOR_NA

**Name:** GSKT0220TM **Descr:** M

**Referenced by:**  
GST01698 M

From	To	Text
0		SV_NOT_EXCLUDE
1		SV_EXCLUDED_DU

**Name:** GSKT0221TM **Descr:** S

**Referenced by:**  
GST01699 S

From	To	Text
0		SV_NOT_EXCLUDE
1		SV_EXCLUDED_DU





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**Name:** GSKT0222TM **Descr:** MFC\_TS

**Referenced by:**  
GST0169A MFC\_TS

From	To	Text
0		NO_MEASDATA_AV
1		CODE_ACQUISITI
2		CODE_ACQUISITI
3		CODE_TRACKING_
4		CODE_AND_CARRI
5		CODE_AND_CARRI
6		FINAL_TRACKING
7		FINAL_TRACKING
8		FINAL_TRACKING
9		FINAL_TRACKING
10		FINAL_TRACKING
11		FINAL_TRACKING

**Name:** GSKT0223TM **Descr:** FP

**Referenced by:**  
GST0169D FP

From	To	Text
0		L2CM_USED
1		PY_USED

**Name:** GSKT0224TM **Descr:** H1

**Referenced by:**  
GST0169F H1

From	To	Text
0		L1_AND_DATA_HE
1		L1_OR_DATA_UNH

**Name:** GSKT0225TM **Descr:** H2

**Referenced by:**  
GST016A0 H2

From	To	Text
0		L2_AND_DATA_HE
1		L2_OR_DATA_UNH



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Name: GSKT0293TM Descr: SID

Referenced by:  
GST01688 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST

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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0168A FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST0168D V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST0168E R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

**Name:** GSKT0345TM **Descr:** CONS

**Referenced by:**  
GST01690 CONS

From	To	Text
0		GPS_CONSTELLAT



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37089	N_SciDa__ScienceDataReport__CarrierPhase	212	1	48	6	774	Y	38	VAR_W	GST01688	CARR_PHASE		Y	37089	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST01688	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST016BE	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST016BF	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST016C0	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG02FC	SN_V_RMODE	SN_V_RMODE			
	0	4	GST016C1	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST016C2	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST016C3	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST016C4	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG02FD	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST016C5	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST016C6	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST016C7	SIG	Signal_type	UINT	STRING	GSKT0230TM
8	10	8	GSTG02FE	ANT_D_NU2	ANT_D_NU2			
	0	4	GST016C8	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	1	GST016C9	D	Deterioration_flag	UINT	STRING	GSKT0232TM
	5	3	GST016CA	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
9	11	8	GST016CB	SF_CHN	channel_number	UINT	INTEGER	Z_IDENTITY
10	12	32	GST016CC	NCO_PHASE_MSB	Carrier_cycle_count_and_Carrier_NCO_phase_MSB_part	SINT	INTEGER	GSKP0233TM
11	16	32	GST016CD	NCO_PHASE_LSB	Carrier_cycle_count_and_Carrier_NCO_phase_LSB_part	UINT	INTEGER	GSKP0234TM
12	20	32	GST016CE	DELTA_RNG	Delta_range	SINT	INTEGER	GSKP0226TM





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**Name:** GSKP0226TM **Descr:** DELTA\_RNG **Referenced by:**  
**Unit:** m/s **X** **Y** GST016CE DELTA\_RNG

**Modelname:** GENERIC

-2147483648 -21474.83648  
2147483647 21474.83647

**Name:** GSKP0233TM **Descr:** NCO\_PHASE\_MSB **Referenced by:**  
**Unit:** cacy **X** **Y** GST016CC NCO\_PHASE\_MSB

**Modelname:** GENERIC

-2147483648 -524288  
2147483647 524287.9997559

**Name:** GSKP0234TM **Descr:** NCO\_PHASE\_LSB **Referenced by:**  
**Unit:** cacy **X** **Y** GST016CD NCO\_PHASE\_LSB

**Modelname:** GENERIC

0 0  
4294967295 1048575.999756



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**Name:** GSKT0230TM **Descr:** SIG

**Referenced by:**

GST016C7 SIG

From	To	Text
0		GPS_L1_CA
1		GPS_L1_P
2		GPS_L2_CA
3		GPS_L2_P
4		GPS_L2_CM
5		GPS_L2_CL
6		NO_SIGNAL

**Name:** GSKT0231TM **Descr:** ANT

**Referenced by:**

GST016C8 ANT

From	To	Text
0		FIRST_ANTENNA
1		SECOND_ANTENNA

**Name:** GSKT0232TM **Descr:** D

**Referenced by:**

GST016C9 D

From	To	Text
0		STEADY_CARRIER
1		UNSTEADY_CARRI

**Name:** GSKT0293TM **Descr:** SID

**Referenced by:**

GST01688 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST016BF FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST016C2 V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST016C3 R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

**Name:** GSKT0345TM **Descr:** CONS

**Referenced by:**  
GST016C5 CONS

From	To	Text
0		GPS_CONSTELLAT



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37090	N_SciData__ScienceDataReport__CodePhas	212	1	48	6	774	Y	34	VAR_W	GST01688	CODE_PHASE		Y	37090	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST01688	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST016E3	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST016E4	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST016E5	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG02FF	SN_V_RMODE	SN_V_RMODE			
	0	4	GST016E6	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST016E7	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST016E8	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST016E9	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG0300	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST016EA	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST016EB	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST016EC	SIG	Signal_type	UINT	STRING	GSKT0230TM
8	10	8	GSTG0301	ANT_D_S_NU2	ANT_D_S_NU2			
	0	4	GST016ED	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	1	GST016EE	D	Deterioration_flag	UINT	STRING	GSKT0232TM
	5	1	GST016EF	S	Smoothing_flag	UINT	STRING	GSKT0235TM
	6	2	GST016F0	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
9	11	8	GST016F1	SF_CHN	channel_number	UINT	INTEGER	Z_IDENTITY
10	12	32	GST016F2	CC_MSB	Chip_count_MSB_part	UINT	INTEGER	Z_IDCOCH
11	16	16	GST016F3	CC_LSB	Chip_count_LSB_part	UINT	INTEGER	Z_IDCOCH
12	18	16	GST016F4	FP	Code_phase_fractional_part	UINT	INTEGER	GSKP0123TM





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**Name:** GSKP0123TM **Descr:** INITIAL\_CP

**Referenced by:**

**Unit:** coch X Y

GST016F4 FP

**Modelname:** GENERIC

0 0  
65535 0.999984741211

**Name:** Z\_IDCOCH **Descr:** Identity with unit coch

**Referenced by:**

**Unit:** coch X Y

GST016F2 CC\_MSB

GST016F3 CC\_LSB

**Modelname:** GENERIC



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**Name:** GSKT0230TM **Descr:** SIG

**Referenced by:**

GST016EC SIG

From	To	Text
0		GPS_L1_CA
1		GPS_L1_P
2		GPS_L2_CA
3		GPS_L2_P
4		GPS_L2_CM
5		GPS_L2_CL
6		NO_SIGNAL

**Name:** GSKT0231TM **Descr:** ANT

**Referenced by:**

GST016ED ANT

From	To	Text
0		FIRST_ANTENNA
1		SECOND_ANTENNA

**Name:** GSKT0232TM **Descr:** D

**Referenced by:**

GST016EE D

From	To	Text
0		STEADY_CARRIER
1		UNSTEADY_CARRI

**Name:** GSKT0235TM **Descr:** S

**Referenced by:**

GST016EF S

From	To	Text
0		SMOOTHING_NOT_
1		SMOOTHING_APPL

**Name:** GSKT0293TM **Descr:** SID

**Referenced by:**

GST01688 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST016E4 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



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**SRDB Database Extract**  
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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST016E7 V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST016E8 R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

**Name:** GSKT0345TM **Descr:** CONS

**Referenced by:**  
GST016EA CONS

From	To	Text
0		GPS_CONSTELLAT



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37091	N_Sci__ScienceDataReport__S1_NavSolution	212	1	48	11	779	Y	118	FIXED	GST016F7	MIN_NAV_SOL		Y	37091	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST016F7	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST01709	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0170A	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0170B	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG0302	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0170C	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST0170D	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0170E	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0170F	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	32	GST01710	GPST_SEC	seconds	UINT	INTEGER	Z_IDS
8	12	32	GST01711	GPST_SUBSEC	fractions_of_a_second	UINT	INTEGER	GSKP0048TM
9	16	16	GSTG0303	NU3_NSM_QUALIN	NU3_NSM_QUALIN			
	0	1	GST01712	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	1	3	GST01713	NSM	Navigation_solution_method	UINT	STRING	GSKT0204TM
	4	12	GST01714	QUAL_INDEX	Quality_index	UINT	INTEGER	Z_IDM
10	18	16	GST01715	GDOP	Geometrical_dilution_of_precision	UINT	INTEGER	GSKP0205TM
11	20	16	GSTG0304	MAXURA_MAXFIT_NU	MAXURA_MAXFIT_NU4_NOFSV			
	0	5	GST01716	MAX_URA	maximum_user_range_accuracy	SINT	INTEGER	Z_IDENTITY
	5	4	GST01717	MAX_FIT	maximum_curve_fit_interval_taken_from_all_SV_B4_s_use d_in_current_navigation_solution	UINT	STRING	GSKT0206TM
	9	3	GST01718	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST01719	NOF_SV	Nof_SVs_contributing_to_the_nav_solution	UINT	INTEGER	Z_IDENTITY
12	22	32	GST0171A	POS_X_MSB	X_2D_coordinate_MSB_part	SINT	INTEGER	GSKP0207TM
13	26	16	GST0171B	POS_X_LSB	X_2D_coordinate_LSB_part	UINT	INTEGER	Z_IDMM
14	28	32	GST0171C	POS_Y_MSB	Y_2D_coordinate_MSB_part	SINT	INTEGER	GSKP0207TM
15	32	16	GST0171D	POS_Y_LSB	Y_2D_coordinate_LSB_part	UINT	INTEGER	Z_IDMM
16	34	32	GST0171E	POS_Z_MSB	Z_2D_coordinate_MSB_part	SINT	INTEGER	GSKP0207TM
17	38	16	GST0171F	POS_Z_LSB	Z_2D_coordinate_LSB_part	UINT	INTEGER	Z_IDMM
18	40	32	GST01720	VEL_X	X_2D_velocity	SINT	INTEGER	GSKP0049TM
19	44	32	GST01721	VEL_Y	Y_2D_velocity	SINT	INTEGER	GSKP0049TM
20	48	32	GST01722	VEL_Z	Z_2D_velocity	SINT	INTEGER	GSKP0049TM





## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37091	N_Sci__ScienceDataReport__S1_NavSolution	212	1	48	11	779	Y	118	FIXED	GST016F7	MIN_NAV_SOL		Y	37091	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
21	52	16	GST01723	PDOP	position_dilution_of_precision	UINT	INTEGER	GSKP0205TM
22	54	16	GST01724	TDOP	time_dilution_of_precision	UINT	INTEGER	GSKP0205TM
23	56	32	GST01725	delta_x	position_error_in_x_direction	SINT	INTEGER	GSKP0207TM
24	60	32	GST01726	delta_y	position_error_in_y_direction	SINT	INTEGER	GSKP0207TM
25	64	32	GST01727	delta_z	position_error_in_z_direction	SINT	INTEGER	GSKP0207TM
26	68	32	GST01728	delta_t	GNSS_system_time_error	SINT	INTEGER	Z_IDNS
27	72	32	GST01729	delta_v_x	velocity_error_in_x_direction	SINT	INTEGER	GSKP0049TM
28	76	32	GST0172A	delta_v_y	velocity_error_in_y_direction	SINT	INTEGER	GSKP0049TM
29	80	32	GST0172B	delta_v_z	velocity_error_in_z_direction	SINT	INTEGER	GSKP0049TM
30	84	32	GST0172C	delta_f	receiver_clock_frequency_error	SINT	INTEGER	GSKP0208TM
31	88	32	GST0172D	HEIGHT	height_above_ellipsoid	UINT	INTEGER	GSKP0346TM
32	92	32	GST0172E	VERTSPEED	vertical_speed	SINT	INTEGER	GSKP0209TM
33	96	32	GST0172F	LONGITUDE	longitude	SINT	INTEGER	GSKP0210TM
34	100	32	GST01730	LATITUDE	latitude	SINT	INTEGER	GSKP0211TM



# Sentinel-2

## SRDB Database Extract

### TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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**Name:** GSKP0048TM **Descr:** PV\_GPST\_SUBSEC

**Referenced by:**

**Unit:** us X Y

GST01711 GPST\_SUBSEC

**Modelname:** GENERIC

0 0  
4294967295 999999.9997672

**Name:** GSKP0049TM **Descr:** VEL\_X

**Referenced by:**

**Unit:** m/s X Y

GST01720 VEL\_X  
GST01721 VEL\_Y  
GST01722 VEL\_Z  
GST01729 delta\_v\_x  
GST0172A delta\_v\_y  
GST0172B delta\_v\_z

**Modelname:** GENERIC

-2147483648 -2147483.648  
2147483647 2147483.647

**Name:** GSKP0205TM **Descr:** GDOP

**Referenced by:**

**Unit:** X Y

GST01715 GDOP  
GST01723 PDOP  
GST01724 TDOP

**Modelname:** GENERIC

0 0  
65535 655.35

**Name:** GSKP0207TM **Descr:** POS\_X\_MSB

**Referenced by:**

**Unit:** m X Y

GST0171A POS\_X\_MSB  
GST0171C POS\_Y\_MSB  
GST0171E POS\_Z\_MSB  
GST01725 delta\_x  
GST01726 delta\_y  
GST01727 delta\_z

**Modelname:** GENERIC

-2147483648 -2147483.648  
2147483647 2147483.647

**Name:** GSKP0208TM **Descr:** delta\_f

**Referenced by:**

**Unit:** Hz X Y

GST0172C delta\_f

**Modelname:** GENERIC

-2147483648 -2147483.648  
2147483647 2147483.647

**Name:** GSKP0209TM **Descr:** VERTSPEED

**Referenced by:**

**Unit:** mm/s X Y

GST0172E VERTSPEED

**Modelname:** GENERIC

-2147483648 -21474836.48  
2147483647 21474836.47



**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

Date: 11.02.2013  
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**Name:** GSKP0210TM **Descr:** LONGITUDE

**Unit:** deg X Y

**Modelname:** GENERIC

-1800000000

1800000000

**Referenced by:**

GST0172F LONGITUDE

-180

180

**Name:** GSKP0211TM **Descr:** LATITUDE

**Unit:** deg X Y

**Modelname:** GENERIC

-9000000000

9000000000

**Referenced by:**

GST01730 LATITUDE

-90

90

**Name:** GSKP0346TM **Descr:** HEIGHT

**Unit:** m X Y

**Modelname:** GENERIC

0

4294967295

**Referenced by:**

GST0172D HEIGHT

0

42949672.95

**Name:** Z\_IDM **Descr:** Identity metre [m]

**Unit:** m X Y

**Modelname:** GENERIC

**Referenced by:**

GST01714 QUAL\_INDEX

**Name:** Z\_IDMM **Descr:** Identity millimetre [mm]

**Unit:** mm X Y

**Modelname:** GENERIC

**Referenced by:**

GST0171B POS\_X\_LSB

GST0171D POS\_Y\_LSB

GST0171F POS\_Z\_LSB

**Name:** Z\_IDNS **Descr:** Identity [ns]

**Unit:** ns X Y

**Modelname:** GENERIC

**Referenced by:**

GST01728 delta\_t

**Name:** Z\_IDS **Descr:** Identity [s]

**Unit:** s X Y

**Modelname:** GENERIC

**Referenced by:**

GST01710 GPST\_SEC



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
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**Name:** GSKT0204TM **Descr:** NSM

**Referenced by:**  
GST01713 NSM

From	To	Text
1		PROPAGATED
2		FIRST_FIX
3		COLD_FIRST_FIX
4		LEAST_SQUARE
5		KALMAN_FILTER
7		INVALID

**Name:** GSKT0206TM **Descr:** MAX\_FIT

**Referenced by:**  
GST01717 MAX\_FIT

From	To	Text
0		4_H
1		6_H
2		8_H
3		14_H
4		26_H
5		50_H
6		74_H
7		98_H
8		122_H
9		146_H
15		PROPAGATED_PVT

**Name:** GSKT0293TM **Descr:** SID

**Referenced by:**  
GST016F7 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0170A FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99





**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST0170D V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST0170E R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37092	N_ScienceDataRepor__IMT_GPST_Correlatio	212	1	48	11	779	Y	42	FIXED	GST016F7	IMT_GPST_CORR		Y	37092	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST016F7	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST01745	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST01746	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST01747	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG0305	SN_V_RMODE	SN_V_RMODE			
	0	4	GST01748	SN	Serial_Number__not_used_	UINT	INTEGER	Z_IDENTITY
	4	1	GST01749	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0174A	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0174B	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG0306	NU2_NSM_QUALID	NU2_NSM_QUALID			
	0	1	GST0174C	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	1	3	GST0174D	NSM	navigation_solution_method	UINT	STRING	GSKT0212TM
	4	12	GST0174E	QUAL_IDX	Quality_index	UINT	INTEGER	Z_IDNSOM
8	10	16	GST0174F	TDOP	Time_dilution_of_precision	UINT	INTEGER	GSKP0205TM
9	12	32	GST01750	IMT_MSB	Instrument_Measurement_Time_tag_MSB_part	UINT	INTEGER	Z_IDENTITY
10	16	32	GST01751	IMT_LSB	Instrument_Measurement_Time_tag_LSB_part	UINT	INTEGER	Z_IDENTITY
11	20	32	GST01752	GPST_SEC	seconds	UINT	INTEGER	Z_IDS
12	24	32	GST01753	GPST_SUBSEC	fractions_of_a_second	UINT	INTEGER	GSKP0048TM



**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
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**Name:** GSKP0048TM **Descr:** PV\_GPST\_SUBSEC

**Referenced by:**

**Unit:** us X Y

GST01753 GPST\_SUBSEC

**Modelname:** GENERIC

0 0  
4294967295 999999.9997672

**Name:** GSKP0205TM **Descr:** GDOP

**Referenced by:**

**Unit:** X Y

GST0174F TDOP

**Modelname:** GENERIC

0 0  
65535 655.35

**Name:** Z\_IDNSOM **Descr:** Identity with unit nsom

**Referenced by:**

**Unit:** nsom X Y

GST0174E QUAL\_IDX

**Modelname:** GENERIC

**Name:** Z\_IDS **Descr:** Identity [s]

**Referenced by:**

**Unit:** s X Y

GST01752 GPST\_SEC

**Modelname:** GENERIC



**Sentinel-2**  
**SRDB Database Extract**  
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Date: 11.02.2013  
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**Name:** GSKT0212TM **Descr:** NSM

**Referenced by:**  
GST0174D NSM

From	To	Text
1		PROPAGATED
2		FIRST_FIX
3		COLD_FIRST_FIX
4		LEAST_SQUARE
5		KALMAN_FILTER
7		INVALID

**Name:** GSKT0293TM **Descr:** SID

**Referenced by:**  
GST016F7 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST01746 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99





**Sentinel-2**  
**SRDB Database Extract**  
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Date: 11.02.2013  
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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST01749 V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST0174A R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE



## Sentinel-2 SRDB Database Extract

TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37111	N_ScienceDataReport__ConstellationStatus	212	1	48	13	781	Y	26	VAR_W	GST018DF	CONST_STAT		Y	37111	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST018DF	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST018E0	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST018E1	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST018E2	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG030E	SN_V_RMODE	SN_V_RMODE			
	0	4	GST018E3	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST018E4	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST018E5	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST018E6	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG030F	CONS_SVID_AS_X_B	CONS_SVID_AS_X_BLOCK			
	0	3	GST018E7	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST018E8	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST018E9	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
	12	1	GST018EA	X	SV_excluded_by_ground_command	UINT	STRING	GSKT0169TM
	13	3	GST018EB	BLOCK	GPS_SV_Block_type	UINT	STRING	GSKT0170TM
8	10	8	GSTG0310	AN_EN_CN_DN_AC_E	AN_EN_CN_DN_AC_EC_CC_DC			
	0	1	GST018EC	AN	almanac_data_from_NAV_message_available	UINT	STRING	GSKT0171TM
	1	1	GST018ED	EN	Ephemeris_data_from_NAV_message_available	UINT	STRING	GSKT0171TM
	2	1	GST018EE	CN	Clock_correction_data_from_NAV_message_available	UINT	STRING	GSKT0171TM
	3	1	GST018EF	DN	Differential_correction_data_from_NAV_message_availabl e	UINT	STRING	GSKT0171TM
	4	1	GST018F0	AC	almanac_data_from_CNAV_message_available	UINT	STRING	GSKT0171TM
	5	1	GST018F1	EC	Ephemeris_data_from_CNAV_message_available	UINT	STRING	GSKT0171TM
	6	1	GST018F2	CC	Clock_correction_data_from_CNAV_message_available	UINT	STRING	GSKT0171TM
	7	1	GST018F3	DC	Differential_correction_data_from_CNAV_message_availab le	UINT	STRING	GSKT0171TM
9	11	8	GSTG0311	GC_FP_HEALTH	GC_FP_HEALTH			
	0	1	GST018F4	GC	Group_delay_data_from_CNAV_message_available	UINT	STRING	GSKT0172TM
	1	1	GST018F5	FP	Force_P_Y__tracking_flag	UINT	STRING	GSKT0173TM
	2	6	GST018F6	HEALTH	SV_health	UINT	INTEGER	Z_IDENTITY



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Name: GSKT0168TM Descr: AS

Referenced by:  
GST018E9 AS

From	To	Text
0		ANTI-SPOOF_OFF
1		ANTI-SPOOF_ON

Name: GSKT0169TM Descr: X

Referenced by:  
GST018EA X

From	To	Text
0		SV_EXCLUDED
1		SV_INCLUDED

Name: GSKT0170TM Descr: BLOCK

Referenced by:  
GST018EB BLOCK

From	To	Text
0		BLOCK_I
1		BLOCK_IIIIAIR
2		BLOCK_IIR-M
3		BLOCK_IIF
7		BLOCK_UNKNOWN

Name: GSKT0171TM Descr: AN

Referenced by:  
GST018EC AN  
GST018ED EN  
GST018EE CN  
GST018EF DN  
GST018F0 AC  
GST018F1 EC  
GST018F2 CC  
GST018F3 DC

From	To	Text
0		NOT_AVAILABLE
1		AVAILABLE

Name: GSKT0172TM Descr: GC

Referenced by:  
GST018F4 GC

From	To	Text
0		NOT_AVAILABLE
1		AVAILABLE

Name: GSKT0173TM Descr: FP

Referenced by:  
GST018F5 FP

From	To	Text
0		L2CM_USED
1		PY_USED



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Name: GSKT0293TM Descr: SID

Referenced by:  
GST018DF SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST

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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST018E1 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



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83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



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132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



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182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99





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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST018E4 V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST018E5 R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

**Name:** GSKT0345TM **Descr:** CONS

**Referenced by:**  
GST018E7 CONS

From	To	Text
0		GPS_CONSTELLAT



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37112	N_ScienceDataReport__TrackingState_8_	212	1	48	12	780	Y	118	FIXED	GST01AE8	TRACKING_STATE		Y	37112	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST01AE8	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST01AFA	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST01AFB	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST01AFC	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG036F	SN_V_RMODE	SN_V_RMODE			
	0	4	GST01AFD	SN	Serial_Number__not_used_	UINT	INTEGER	Z_IDENTITY
	4	1	GST01AFE	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST01AFF	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST01B00	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG0370	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST01B01	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01B02	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST01B03	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST01B04	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
8	10	8	GST01B05	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM
9	11	8	GST01B06	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
10	12	8	GSTG0371	NU3_SIG1	NU3_SIG1			
	0	3	GST01B07	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B08	SIG1	signal_type_being_processed_on_the_first_SFC_within_th e_MFC	UINT	STRING	GSKT0251TM
11	13	8	GST01B09	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
12	14	8	GSTG0372	NU4_SIG2	NU4_SIG2			
	0	3	GST01B0A	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B0B	SIG2	signal_type_being_processed_on_the_second_SFC_within _the_MFC	UINT	STRING	GSKT0252TM
13	15	8	GST01B0C	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
14	16	8	GSTG0373	NU5_SIG3	NU5_SIG3			
	0	3	GST01B0D	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B0E	SIG3	signal_type_being_processed_on_the_third_SFC_within_th e_MFC	UINT	STRING	GSKT0253TM
15	17	8	GST01B0F	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
16	18	16	GST01B10	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY



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TM Packets Structure

Date: 11.02.2013  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37112	N_ScienceDataReport__TrackingState_8_	212	1	48	12	780	Y	118	FIXED	GST01AE8	TRACKING_STATE		Y	37112	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
17	20	16	GSTG0374	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST01B11	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01B12	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST01B13	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST01B14	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
18	22	8	GST01B15	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM
19	23	8	GST01B16	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
20	24	8	GSTG0375	NU3_SIG1	NU3_SIG1			
	0	3	GST01B17	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B18	SIG1	signal_type_being_processed_on_the_first_SFC_within_the_MFC	UINT	STRING	GSKT0251TM
21	25	8	GST01B19	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
22	26	8	GSTG0376	NU4_SIG2	NU4_SIG2			
	0	3	GST01B1A	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B1B	SIG2	signal_type_being_processed_on_the_second_SFC_within_the_MFC	UINT	STRING	GSKT0252TM
23	27	8	GST01B1C	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
24	28	8	GSTG0377	NU5_SIG3	NU5_SIG3			
	0	3	GST01B1D	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B1E	SIG3	signal_type_being_processed_on_the_third_SFC_within_the_MFC	UINT	STRING	GSKT0253TM
25	29	8	GST01B1F	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
26	30	16	GST01B20	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY
27	32	16	GSTG0378	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST01B21	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01B22	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST01B23	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST01B24	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
28	34	8	GST01B25	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM
29	35	8	GST01B26	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
30	36	8	GSTG0379	NU3_SIG1	NU3_SIG1			
	0	3	GST01B27	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37112	N_ScienceDataReport__TrackingState_8_	212	1	48	12	780	Y	118	FIXED	GST01AE8	TRACKING_STATE		Y	37112	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	3	5	GST01B28	SIG1	signal_type_being_processed_on_the_first_SFC_within_the_MFC	UINT	STRING	GSKT0251TM
31	37	8	GST01B29	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
32	38	8	GSTG037A	NU4_SIG2	NU4_SIG2			
	0	3	GST01B2A	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B2B	SIG2	signal_type_being_processed_on_the_second_SFC_within_the_MFC	UINT	STRING	GSKT0252TM
33	39	8	GST01B2C	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
34	40	8	GSTG037B	NU5_SIG3	NU5_SIG3			
	0	3	GST01B2D	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B2E	SIG3	signal_type_being_processed_on_the_third_SFC_within_the_MFC	UINT	STRING	GSKT0253TM
35	41	8	GST01B2F	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
36	42	16	GST01B30	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY
37	44	16	GSTG037C	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST01B31	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01B32	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST01B33	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST01B34	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
38	46	8	GST01B35	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM
39	47	8	GST01B36	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
40	48	8	GSTG037D	NU3_SIG1	NU3_SIG1			
	0	3	GST01B37	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B38	SIG1	signal_type_being_processed_on_the_first_SFC_within_the_MFC	UINT	STRING	GSKT0251TM
41	49	8	GST01B39	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
42	50	8	GSTG037E	NU4_SIG2	NU4_SIG2			
	0	3	GST01B3A	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B3B	SIG2	signal_type_being_processed_on_the_second_SFC_within_the_MFC	UINT	STRING	GSKT0252TM
43	51	8	GST01B3C	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
44	52	8	GSTG037F	NU5_SIG3	NU5_SIG3			
	0	3	GST01B3D	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37112	N_ScienceDataReport__TrackingState_8_	212	1	48	12	780	Y	118	FIXED	GST01AE8	TRACKING_STATE		Y	37112	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	3	5	GST01B3E	SIG3	signal_type_being_processed_on_the_third_SFC_within_the_MFC	UINT	STRING	GSKT0253TM
45	53	8	GST01B3F	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
46	54	16	GST01B40	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY
47	56	16	GSTG0380	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST01B41	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01B42	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST01B43	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST01B44	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
48	58	8	GST01B45	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM
49	59	8	GST01B46	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
50	60	8	GSTG0381	NU3_SIG1	NU3_SIG1			
	0	3	GST01B47	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B48	SIG1	signal_type_being_processed_on_the_first_SFC_within_the_MFC	UINT	STRING	GSKT0251TM
51	61	8	GST01B49	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
52	62	8	GSTG0382	NU4_SIG2	NU4_SIG2			
	0	3	GST01B4A	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B4B	SIG2	signal_type_being_processed_on_the_second_SFC_within_the_MFC	UINT	STRING	GSKT0252TM
53	63	8	GST01B4C	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
54	64	8	GSTG0383	NU5_SIG3	NU5_SIG3			
	0	3	GST01B4D	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B4E	SIG3	signal_type_being_processed_on_the_third_SFC_within_the_MFC	UINT	STRING	GSKT0253TM
55	65	8	GST01B4F	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
56	66	16	GST01B50	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY
57	68	16	GSTG0384	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST01B51	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01B52	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST01B53	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST01B54	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
58	70	8	GST01B55	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37112	N_ScienceDataReport__TrackingState_8_	212	1	48	12	780	Y	118	FIXED	GST01AE8	TRACKING_STATE		Y	37112	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
59	71	8	GST01B56	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
60	72	8	GSTG0385	NU3_SIG1	NU3_SIG1			
	0	3	GST01B57	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B58	SIG1	signal_type_being_processed_on_the_first_SFC_within_the_MFC	UINT	STRING	GSKT0251TM
61	73	8	GST01B59	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
62	74	8	GSTG0386	NU4_SIG2	NU4_SIG2			
	0	3	GST01B5A	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B5B	SIG2	signal_type_being_processed_on_the_second_SFC_within_the_MFC	UINT	STRING	GSKT0252TM
63	75	8	GST01B5C	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
64	76	8	GSTG0387	NU5_SIG3	NU5_SIG3			
	0	3	GST01B5D	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B5E	SIG3	signal_type_being_processed_on_the_third_SFC_within_the_MFC	UINT	STRING	GSKT0253TM
65	77	8	GST01B5F	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
66	78	16	GST01B60	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY
67	80	16	GSTG0388	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST01B61	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01B62	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST01B63	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST01B64	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
68	82	8	GST01B65	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM
69	83	8	GST01B66	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
70	84	8	GSTG0389	NU3_SIG1	NU3_SIG1			
	0	3	GST01B67	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B68	SIG1	signal_type_being_processed_on_the_first_SFC_within_the_MFC	UINT	STRING	GSKT0251TM
71	85	8	GST01B69	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
72	86	8	GSTG038A	NU4_SIG2	NU4_SIG2			
	0	3	GST01B6A	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B6B	SIG2	signal_type_being_processed_on_the_second_SFC_within_the_MFC	UINT	STRING	GSKT0252TM



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GSY_SCI37112	N_ScienceDataReport__TrackingState_8_	212	1	48	12	780	Y	118	FIXED	GST01AE8	TRACKING_STATE		Y	37112	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
73	87	8	GST01B6C	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
74	88	8	GSTG038B	NU5_SIG3	NU5_SIG3			
	0	3	GST01B6D	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B6E	SIG3	signal_type_being_processed_on_the_third_SFC_within_th e_MFC	UINT	STRING	GSKT0253TM
75	89	8	GST01B6F	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
76	90	16	GST01B70	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY
77	92	16	GSTG038C	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST01B71	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01B72	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST01B73	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST01B74	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
78	94	8	GST01B75	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM
79	95	8	GST01B76	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
80	96	8	GSTG038D	NU3_SIG1	NU3_SIG1			
	0	3	GST01B77	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B78	SIG1	signal_type_being_processed_on_the_first_SFC_within_th e_MFC	UINT	STRING	GSKT0251TM
81	97	8	GST01B79	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
82	98	8	GSTG038E	NU4_SIG2	NU4_SIG2			
	0	3	GST01B7A	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B7B	SIG2	signal_type_being_processed_on_the_second_SFC_within _the_MFC	UINT	STRING	GSKT0252TM
83	99	8	GST01B7C	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
84	100	8	GSTG038F	NU5_SIG3	NU5_SIG3			
	0	3	GST01B7D	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST01B7E	SIG3	signal_type_being_processed_on_the_third_SFC_within_th e_MFC	UINT	STRING	GSKT0253TM
85	101	8	GST01B7F	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
86	102	16	GST01B80	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY



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**Name:** GSKT0249TM **Descr:** ANT

**Referenced by:**

**From To Text**

GST01B04 ANT  
GST01B14 ANT  
GST01B24 ANT  
GST01B34 ANT  
GST01B44 ANT  
GST01B54 ANT  
GST01B64 ANT  
GST01B74 ANT

0 FIRST\_ANTENNA  
1 SECOND\_ANTENNA

**Name:** GSKT0250TM **Descr:** MFC\_TS

**Referenced by:**

**From To Text**

GST01B05 MFC\_TS  
GST01B15 MFC\_TS  
GST01B25 MFC\_TS  
GST01B35 MFC\_TS  
GST01B45 MFC\_TS  
GST01B55 MFC\_TS  
GST01B65 MFC\_TS  
GST01B75 MFC\_TS

0 NO\_MEASDATA\_AV  
1 CODE\_ACQUISITI  
2 CODE\_ACQUISITI  
3 CODE\_TRACKING\_  
4 CODE\_AND\_CARRI  
5 CODE\_AND\_CARRI  
6 FINAL\_TRACKING  
7 FINAL\_TRACKING  
8 FINAL\_TRACKING  
9 FINAL\_TRACKING  
10 FINAL\_TRACKING  
11 FINAL\_TRACKING





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**Name:** GSKT0251TM **Descr:** SIG1

**Referenced by:**

**From To Text**

GST01B08 SIG1  
GST01B18 SIG1  
GST01B28 SIG1  
GST01B38 SIG1  
GST01B48 SIG1  
GST01B58 SIG1  
GST01B68 SIG1  
GST01B78 SIG1

0 GPS\_L1\_CA  
1 GPS\_L1\_P  
2 GPS\_L2\_CA  
3 GPS\_L2\_P  
4 GPS\_L2\_CM  
5 GPS\_L2\_CL  
6 NO\_SIGNAL

**Name:** GSKT0252TM **Descr:** SIG2

**Referenced by:**

**From To Text**

GST01B0B SIG2  
GST01B1B SIG2  
GST01B2B SIG2  
GST01B3B SIG2  
GST01B4B SIG2  
GST01B5B SIG2  
GST01B6B SIG2  
GST01B7B SIG2

0 GPS\_L1\_CA  
1 GPS\_L1\_P  
2 GPS\_L2\_CA  
3 GPS\_L2\_P  
4 GPS\_L2\_CM  
5 GPS\_L2\_CL  
6 NO\_SIGNAL



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Name: GSKT0253TM Descr: SIG3

**Referenced by:**

GST01B0E SIG3  
GST01B1E SIG3  
GST01B2E SIG3  
GST01B3E SIG3  
GST01B4E SIG3  
GST01B5E SIG3  
GST01B6E SIG3  
GST01B7E SIG3

From	To	Text
0		GPS_L1_CA
1		GPS_L1_P
2		GPS_L2_CA
3		GPS_L2_P
4		GPS_L2_CM
5		GPS_L2_CL
6		NO_SIGNAL

Name: GSKT0293TM Descr: SID

**Referenced by:**

GST01AE8 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST01AFB FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



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82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



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132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



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186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST01AFE V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST01AFF R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

**Name:** GSKT0345TM **Descr:** CONS

**Referenced by:**  
GST01B01 CONS  
GST01B11 CONS  
GST01B21 CONS  
GST01B31 CONS  
GST01B41 CONS  
GST01B51 CONS  
GST01B61 CONS  
GST01B71 CONS

From	To	Text
0		GPS_CONSTELLAT



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST01AE8	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST01B95	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST01B96	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST01B97	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG0390	SN_V_RMODE	SN_V_RMODE			
	0	4	GST01B98	SN	Serial_Number_not_used_	UINT	INTEGER	Z_IDENTITY
	4	1	GST01B99	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST01B9A	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST01B9B	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG0391	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01B9C	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01B9D	SV_ID	Space_vehicle_identifier_2C_0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01B9E	SIG	Signal_type	UINT	STRING	GSKT0230TM
8	10	8	GSTG0392	ANT_NDS	ANT_NDS			
	0	4	GST01B9F	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01BA0	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
9	11	8	GST01BA1	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
10	12	8	GSTG0393	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01BA2	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01BA3	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01BA4	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01BA5	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01BA6	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
11	13	8	GSTG0394	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01BA7	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01BA8	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01BA9	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01BAA	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01BAB	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
12	14	8	GST01BAC	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
13	15	8	GSTG0395	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01BAD	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM





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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	1	1	GST01BAE	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01BAF	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01BB0	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01BB1	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01BB2	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01BB3	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01BB4	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
14	16	16	GSTG0396	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01BB5	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01BB6	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01BB7	SIG	Signal_type	UINT	STRING	GSKT0230TM
15	18	8	GSTG0397	ANT_NDS	ANT_NDS			
	0	4	GST01BB8	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01BB9	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
16	19	8	GST01BBA	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
17	20	8	GSTG0398	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01BBB	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01BBC	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01BBD	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01BBE	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01BBF	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
18	21	8	GSTG0399	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01BC0	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01BC1	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01BC2	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01BC3	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01BC4	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
19	22	8	GST01BC5	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
20	23	8	GSTG039A	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01BC6	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01BC7	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01BC8	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01BC9	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
21	4	1	GST01BCA	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01BCB	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01BCC	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01BCD	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	24	16	GSTG039B	CONS_SVID_SIG	CONS_SVID_SIG			
22	0	3	GST01BCE	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01BCF	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01BD0	SIG	Signal_type	UINT	STRING	GSKT0230TM
	26	8	GSTG039C	ANT_NDS	ANT_NDS			
	0	4	GST01BD1	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
23	4	4	GST01BD2	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
	27	8	GST01BD3	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
24	28	8	GSTG039D	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01BD4	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01BD5	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01BD6	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01BD7	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
25	6	2	GST01BD8	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
	29	8	GSTG039E	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01BD9	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01BDA	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01BDB	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
26	5	1	GST01BDC	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01BDD	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
	30	8	GST01BDE	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
27	31	8	GSTG039F	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01BDF	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01BE0	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01BE1	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01BE2	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01BE3	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01BE4	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01BE5	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
28	7	1	GST01BE6	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	32	16	GSTG03A0	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01BE7	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01BE8	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
29	11	5	GST01BE9	SIG	Signal_type	UINT	STRING	GSKT0230TM
	34	8	GSTG03A1	ANT_NDS	ANT_NDS			
	0	4	GST01BEA	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01BEB	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
30	35	8	GST01BEC	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
31	36	8	GSTG03A2	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01BED	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01BEE	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01BEF	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01BF0	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01BF1	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
	37	8	GSTG03A3	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01BF2	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
32	2	2	GST01BF3	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01BF4	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01BF5	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01BF6	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
	38	8	GST01BF7	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
	39	8	GSTG03A4	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01BF8	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01BF9	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
33	2	1	GST01BFA	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01BFB	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01BFC	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01BFD	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01BFE	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01BFF	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	40	16	GSTG03A5	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01C00	CONS	constellation_identifier	UINT	STRING	GSKT0345TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
36	3	8	GST01C01	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01C02	SIG	Signal_type	UINT	STRING	GSKT0230TM
	42	8	GSTG03A6	ANT_NDS	ANT_NDS			
	0	4	GST01C03	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01C04	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
37	43	8	GST01C05	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
38	44	8	GSTG03A7	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01C06	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01C07	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01C08	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01C09	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01C0A	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
39	45	8	GSTG03A8	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01C0B	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01C0C	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01C0D	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01C0E	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01C0F	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
40	46	8	GST01C10	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
41	47	8	GSTG03A9	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01C11	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01C12	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01C13	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01C14	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01C15	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01C16	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01C17	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01C18	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
42	48	16	GSTG03AA	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01C19	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01C1A	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01C1B	SIG	Signal_type	UINT	STRING	GSKT0230TM
43	50	8	GSTG03AB	ANT_NDS	ANT_NDS			



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	0	4	GST01C1C	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01C1D	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
44	51	8	GST01C1E	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
45	52	8	GSTG03AC	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01C1F	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01C20	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01C21	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01C22	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01C23	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
46	53	8	GSTG03AD	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01C24	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01C25	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01C26	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01C27	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01C28	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
47	54	8	GST01C29	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
48	55	8	GSTG03AE	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01C2A	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01C2B	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01C2C	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01C2D	FRTH	Carrier_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01C2E	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01C2F	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01C30	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01C31	FDTH	Code_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
49	56	16	GSTG03AF	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01C32	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01C33	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01C34	SIG	Signal_type	UINT	STRING	GSKT0230TM
50	58	8	GSTG03B0	ANT_NDS	ANT_NDS			
	0	4	GST01C35	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01C36	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
51	59	8	GST01C37	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
52	60	8	GSTG03B1	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01C38	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01C39	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01C3A	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01C3B	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01C3C	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
53	61	8	GSTG03B2	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01C3D	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01C3E	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01C3F	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01C40	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01C41	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
54	62	8	GST01C42	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
55	63	8	GSTG03B3	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01C43	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01C44	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01C45	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01C46	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01C47	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01C48	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01C49	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01C4A	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
56	64	16	GSTG03B4	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01C4B	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01C4C	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01C4D	SIG	Signal_type	UINT	STRING	GSKT0230TM
57	66	8	GSTG03B5	ANT_NDS	ANT_NDS			
	0	4	GST01C4E	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01C4F	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
58	67	8	GST01C50	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
59	68	8	GSTG03B6	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01C51	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01C52	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
60	4	1	GST01C53	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01C54	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01C55	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
	69	8	GSTG03B7	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01C56	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01C57	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01C58	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01C59	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
61	6	2	GST01C5A	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
	70	8	GST01C5B	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
62	71	8	GSTG03B8	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01C5C	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01C5D	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01C5E	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01C5F	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01C60	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01C61	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01C62	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01C63	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
63	72	16	GSTG03B9	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01C64	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01C65	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01C66	SIG	Signal_type	UINT	STRING	GSKT0230TM
64	74	8	GSTG03BA	ANT_NDS	ANT_NDS			
	0	4	GST01C67	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01C68	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
65	75	8	GST01C69	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
66	76	8	GSTG03BB	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01C6A	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01C6B	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01C6C	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01C6D	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01C6E	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM





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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
67	77	8	GSTG03BC	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01C6F	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01C70	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01C71	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01C72	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01C73	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
68	78	8	GST01C74	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
69	79	8	GSTG03BD	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01C75	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01C76	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01C77	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01C78	FRTH	Carrier_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01C79	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01C7A	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01C7B	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01C7C	FDTH	Code_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
70	80	16	GSTG03BE	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01C7D	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01C7E	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01C7F	SIG	Signal_type	UINT	STRING	GSKT0230TM
71	82	8	GSTG03BF	ANT_NDS	ANT_NDS			
	0	4	GST01C80	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01C81	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
72	83	8	GST01C82	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
73	84	8	GSTG03C0	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01C83	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01C84	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01C85	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01C86	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01C87	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
74	85	8	GSTG03C1	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01C88	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01C89	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY





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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	4	1	GST01C8A	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01C8B	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01C8C	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
75	86	8	GST01C8D	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
76	87	8	GSTG03C2	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01C8E	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01C8F	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01C90	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01C91	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01C92	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01C93	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01C94	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01C95	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
77	88	16	GSTG03C3	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01C96	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01C97	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01C98	SIG	Signal_type	UINT	STRING	GSKT0230TM
78	90	8	GSTG03C4	ANT_NDS	ANT_NDS			
	0	4	GST01C99	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01C9A	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
79	91	8	GST01C9B	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
80	92	8	GSTG03C5	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01C9C	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01C9D	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01C9E	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01C9F	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01CA0	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
81	93	8	GSTG03C6	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01CA1	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01CA2	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01CA3	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01CA4	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01CA5	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
82	94	8	GST01CA6	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
83	95	8	GSTG03C7	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01CA7	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01CA8	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01CA9	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01CAA	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01CAB	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01CAC	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01CAD	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01CAE	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
84	96	16	GSTG03C8	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01CAF	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01CB0	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01CB1	SIG	Signal_type	UINT	STRING	GSKT0230TM
85	98	8	GSTG03C9	ANT_NDS	ANT_NDS			
	0	4	GST01CB2	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01CB3	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
86	99	8	GST01CB4	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
87	100	8	GSTG03CA	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01CB5	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01CB6	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01CB7	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01CB8	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01CB9	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
88	101	8	GSTG03CB	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01CBA	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01CBB	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01CBC	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01CBD	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01CBE	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
89	102	8	GST01CBF	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
90	103	8	GSTG03CC	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01CC0	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
91	104	1	GST01CC1	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
		1	GST01CC2	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
		1	GST01CC3	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
		1	GST01CC4	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
		1	GST01CC5	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
		1	GST01CC6	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
		1	GST01CC7	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	106	16	GSTG03CD	CONS_SVID_SIG	CONS_SVID_SIG			
		0	GST01CC8	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
		3	GST01CC9	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
		11	GST01CCA	SIG	Signal_type	UINT	STRING	GSKT0230TM
92	107	8	GSTG03CE	ANT_NDS	ANT_NDS			
		0	GST01CCB	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
		4	GST01CCC	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
93	108	8	GST01CCD	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
94	108	8	GSTG03CF	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
		0	GST01CCE	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
		2	GST01CCF	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
		4	GST01CD0	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
		5	GST01CD1	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
		6	GST01CD2	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
		8	GSTG03D0	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	109	0	GST01CD3	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
		2	GST01CD4	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
		4	GST01CD5	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
		5	GST01CD6	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
		6	GST01CD7	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
95	110	8	GST01CD8	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
96	111	8	GSTG03D1	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
		0	GST01CD9	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
		1	GST01CDA	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
		2	GST01CDB	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
		3	GST01CDC	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
98	4	1	GST01CDD	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01CDE	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01CDF	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01CE0	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	112	16	GSTG03D2	CONS_SVID_SIG	CONS_SVID_SIG			
99	0	3	GST01CE1	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01CE2	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01CE3	SIG	Signal_type	UINT	STRING	GSKT0230TM
	114	8	GSTG03D3	ANT_NDS	ANT_NDS			
100	0	4	GST01CE4	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01CE5	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
	115	8	GST01CE6	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
101	116	8	GSTG03D4	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
102	0	2	GST01CE7	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01CE8	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01CE9	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01CEA	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01CEB	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
	117	8	GSTG03D5	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01CEC	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01CED	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01CEE	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01CEF	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
103	6	2	GST01CF0	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
	118	8	GST01CF1	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
104	119	8	GSTG03D6	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01CF2	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01CF3	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01CF4	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01CF5	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01CF6	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01CF7	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01CF8	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
105	7	1	GST01CF9	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	120	16	GSTG03D7	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01CFA	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01CFB	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
106	11	5	GST01CFC	SIG	Signal_type	UINT	STRING	GSKT0230TM
	122	8	GSTG03D8	ANT_NDS	ANT_NDS			
	0	4	GST01CFD	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01CFE	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
107	123	8	GST01CFF	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
108	124	8	GSTG03D9	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01D00	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01D01	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01D02	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
109	5	1	GST01D03	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01D04	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
	125	8	GSTG03DA	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01D05	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
110	2	2	GST01D06	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01D07	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01D08	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01D09	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
111	126	8	GST01D0A	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
112	127	8	GSTG03DB	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01D0B	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01D0C	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01D0D	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
112	3	1	GST01D0E	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01D0F	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01D10	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01D11	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
112	7	1	GST01D12	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	128	16	GSTG03DC	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01D13	CONS	constellation_identifier	UINT	STRING	GSKT0345TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
113	130	3	GST01D14	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
		11	GST01D15	SIG	Signal_type	UINT	STRING	GSKT0230TM
		8	GSTG03DD	ANT_NDS	ANT_NDS			
		0	GST01D16	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
		4	GST01D17	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
114	131	8	GST01D18	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
115	132	8	GSTG03DE	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
116	133	0	GST01D19	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
		2	GST01D1A	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
		4	GST01D1B	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
		5	GST01D1C	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
		6	GST01D1D	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
		8	GSTG03DF	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
		0	GST01D1E	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
		2	GST01D1F	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
		4	GST01D20	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
		5	GST01D21	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
117	134	6	GST01D22	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
		8	GST01D23	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
118	135	8	GSTG03E0	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
119	136	0	GST01D24	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
		1	GST01D25	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
		2	GST01D26	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
		3	GST01D27	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
		4	GST01D28	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
		5	GST01D29	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
		6	GST01D2A	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
		7	GST01D2B	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
		16	GSTG03E1	CONS_SVID_SIG	CONS_SVID_SIG			
		0	GST01D2C	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
120	138	3	GST01D2D	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
		11	GST01D2E	SIG	Signal_type	UINT	STRING	GSKT0230TM
		8	GSTG03E2	ANT_NDS	ANT_NDS			



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	0	4	GST01D2F	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01D30	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
121	139	8	GST01D31	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
122	140	8	GSTG03E3	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01D32	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01D33	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01D34	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01D35	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01D36	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
123	141	8	GSTG03E4	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01D37	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01D38	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01D39	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01D3A	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01D3B	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
124	142	8	GST01D3C	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
125	143	8	GSTG03E5	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01D3D	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01D3E	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01D3F	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01D40	FRTH	Carrier_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01D41	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01D42	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01D43	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01D44	FDTH	Code_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
126	144	16	GSTG03E6	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01D45	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01D46	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01D47	SIG	Signal_type	UINT	STRING	GSKT0230TM
127	146	8	GSTG03E7	ANT_NDS	ANT_NDS			
	0	4	GST01D48	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01D49	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
128	147	8	GST01D4A	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY





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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
129	148	8	GSTG03E8	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01D4B	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01D4C	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01D4D	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01D4E	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01D4F	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
130	149	8	GSTG03E9	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01D50	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01D51	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01D52	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01D53	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01D54	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
131	150	8	GST01D55	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
132	151	8	GSTG03EA	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01D56	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01D57	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01D58	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01D59	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01D5A	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01D5B	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01D5C	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01D5D	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
133	152	16	GSTG03EB	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01D5E	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01D5F	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01D60	SIG	Signal_type	UINT	STRING	GSKT0230TM
134	154	8	GSTG03EC	ANT_NDS	ANT_NDS			
	0	4	GST01D61	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01D62	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
135	155	8	GST01D63	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
136	156	8	GSTG03ED	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01D64	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01D65	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY





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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
137	4	1	GST01D66	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01D67	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01D68	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
	157	8	GSTG03EE	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01D69	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01D6A	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01D6B	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01D6C	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
138	6	2	GST01D6D	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
	158	8	GST01D6E	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
139	159	8	GSTG03EF	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
140	0	1	GST01D6F	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01D70	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01D71	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01D72	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01D73	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01D74	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01D75	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01D76	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	160	16	GSTG03F0	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01D77	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01D78	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
141	11	5	GST01D79	SIG	Signal_type	UINT	STRING	GSKT0230TM
	162	8	GSTG03F1	ANT_NDS	ANT_NDS			
	0	4	GST01D7A	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
142	4	4	GST01D7B	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
	163	8	GST01D7C	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
143	164	8	GSTG03F2	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01D7D	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01D7E	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01D7F	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01D80	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01D81	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
144	165	8	GSTG03F3	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01D82	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01D83	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01D84	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01D85	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01D86	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
145	166	8	GST01D87	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
146	167	8	GSTG03F4	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01D88	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01D89	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01D8A	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01D8B	FRTH	Carrier_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01D8C	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01D8D	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01D8E	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01D8F	FDTH	Code_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
147	168	16	GSTG03F5	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01D90	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01D91	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01D92	SIG	Signal_type	UINT	STRING	GSKT0230TM
148	170	8	GSTG03F6	ANT_NDS	ANT_NDS			
	0	4	GST01D93	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01D94	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
149	171	8	GST01D95	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
150	172	8	GSTG03F7	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01D96	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01D97	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01D98	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01D99	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01D9A	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
151	173	8	GSTG03F8	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01D9B	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01D9C	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	4	1	GST01D9D	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01D9E	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01D9F	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
152	174	8	GST01DA0	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
153	175	8	GSTG03F9	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01DA1	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01DA2	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01DA3	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01DA4	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01DA5	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01DA6	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01DA7	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01DA8	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
154	176	16	GSTG03FA	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01DA9	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01DAA	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01DAB	SIG	Signal_type	UINT	STRING	GSKT0230TM
155	178	8	GSTG03FB	ANT_NDS	ANT_NDS			
	0	4	GST01DAC	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01DAD	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
156	179	8	GST01DAE	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
157	180	8	GSTG03FC	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01DAF	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01DB0	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01DB1	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01DB2	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01DB3	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
158	181	8	GSTG03FD	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01DB4	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01DB5	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01DB6	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01DB7	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01DB8	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
159	182	8	GST01DB9	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
160	183	8	GSTG03FE	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01DBA	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01DBB	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01DBC	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01DBD	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01DBE	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01DBF	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01DC0	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01DC1	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
161	184	16	GSTG03FF	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01DC2	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01DC3	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01DC4	SIG	Signal_type	UINT	STRING	GSKT0230TM
162	186	8	GSTG0400	ANT_NDS	ANT_NDS			
	0	4	GST01DC5	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01DC6	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
163	187	8	GST01DC7	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
164	188	8	GSTG0401	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01DC8	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01DC9	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01DCA	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01DCB	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01DCC	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
165	189	8	GSTG0402	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01DCD	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01DCE	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01DCF	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01DD0	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01DD1	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
166	190	8	GST01DD2	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
167	191	8	GSTG0403	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01DD3	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport_ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	1	1	GST01DD4	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01DD5	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01DD6	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST01DD7	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01DD8	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01DD9	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01DDA	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
168	192	16	GSTG0404	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01DDB	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01DDC	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01DDD	SIG	Signal_type	UINT	STRING	GSKT0230TM
169	194	8	GSTG0405	ANT_NDS	ANT_NDS			
	0	4	GST01DDE	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01DDF	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
170	195	8	GST01DE0	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
171	196	8	GSTG0406	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST01DE1	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01DE2	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01DE3	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST01DE4	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST01DE5	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
172	197	8	GSTG0407	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST01DE6	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST01DE7	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST01DE8	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST01DE9	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST01DEA	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
173	198	8	GST01DEB	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
174	199	8	GSTG0408	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST01DEC	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST01DED	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST01DEE	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST01DEF	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37113	N_ScienceDataReport__ChannelStatus_24_	212	1	48	12	780	Y	214	FIXED	GST01AE8	CHN_STATUS		Y	37113	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	4	1	GST01DF0	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST01DF1	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST01DF2	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST01DF3	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM



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Name: GSKT0230TM Descr: SIG

**Referenced by:**

From To Text

GST01B9E SIG  
GST01BB7 SIG  
GST01BD0 SIG  
GST01BE9 SIG  
GST01C02 SIG  
GST01C1B SIG  
GST01C34 SIG  
GST01C4D SIG  
GST01C66 SIG  
GST01C7F SIG  
GST01C98 SIG  
GST01CB1 SIG  
GST01CCA SIG  
GST01CE3 SIG  
GST01CFC SIG  
GST01D15 SIG  
GST01D2E SIG  
GST01D47 SIG  
GST01D60 SIG  
GST01D79 SIG  
GST01D92 SIG  
GST01DAB SIG  
GST01DC4 SIG  
GST01DDD SIG

0 GPS\_L1\_CA  
1 GPS\_L1\_P  
2 GPS\_L2\_CA  
3 GPS\_L2\_P  
4 GPS\_L2\_CM  
5 GPS\_L2\_CL  
6 NO\_SIGNAL



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Name: GSKT0231TM Descr: ANT

**Referenced by:**

From To Text

GST01B9F ANT  
GST01BB8 ANT  
GST01BD1 ANT  
GST01BEA ANT  
GST01C03 ANT  
GST01C1C ANT  
GST01C35 ANT  
GST01C4E ANT  
GST01C67 ANT  
GST01C80 ANT  
GST01C99 ANT  
GST01CB2 ANT  
GST01CCB ANT  
GST01CE4 ANT  
GST01CFD ANT  
GST01D16 ANT  
GST01D2F ANT  
GST01D48 ANT  
GST01D61 ANT  
GST01D7A ANT  
GST01D93 ANT  
GST01DAC ANT  
GST01DC5 ANT  
GST01DDE ANT

0 FIRST\_ANTENNA  
1 SECOND\_ANTENNA

---





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Name: GSKT0254TM Descr: NDS

**Referenced by:**

From To Text

GST01BA0 NDS  
GST01BB9 NDS  
GST01BD2 NDS  
GST01BEB NDS  
GST01C04 NDS  
GST01C1D NDS  
GST01C36 NDS  
GST01C4F NDS  
GST01C68 NDS  
GST01C81 NDS  
GST01C9A NDS  
GST01CB3 NDS  
GST01CCC NDS  
GST01CE5 NDS  
GST01CFE NDS  
GST01D17 NDS  
GST01D30 NDS  
GST01D49 NDS  
GST01D62 NDS  
GST01D7B NDS  
GST01D94 NDS  
GST01DAD NDS  
GST01DC6 NDS  
GST01DDF NDS

0 NOT\_SYNC  
1 SYNC\_NAVDATA\_N  
2 INVALID  
3 SYNC\_NAVDATA\_I



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Name: GSKT0255TM Descr: CRD

**Referenced by:**

From To Text

GST01BA4 CRD  
GST01BBD CRD  
GST01BD6 CRD  
GST01BEF CRD  
GST01C08 CRD  
GST01C21 CRD  
GST01C3A CRD  
GST01C53 CRD  
GST01C6C CRD  
GST01C85 CRD  
GST01C9E CRD  
GST01CB7 CRD  
GST01CD0 CRD  
GST01CE9 CRD  
GST01D02 CRD  
GST01D1B CRD  
GST01D34 CRD  
GST01D4D CRD  
GST01D66 CRD  
GST01D7F CRD  
GST01D98 CRD  
GST01DB1 CRD  
GST01DCA CRD  
GST01DE3 CRD

0 NO\_DETERIORATI  
1 DETERIORATION

---



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Database: SISS2CSW  
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Name: GSKT0256TM Descr: CRL

**Referenced by:**

From To Text

GST01BA5 CRL  
GST01BBE CRL  
GST01BD7 CRL  
GST01BF0 CRL  
GST01C09 CRL  
GST01C22 CRL  
GST01C3B CRL  
GST01C54 CRL  
GST01C6D CRL  
GST01C86 CRL  
GST01C9F CRL  
GST01CB8 CRL  
GST01CD1 CRL  
GST01CEA CRL  
GST01D03 CRL  
GST01D1C CRL  
GST01D35 CRL  
GST01D4E CRL  
GST01D67 CRL  
GST01D80 CRL  
GST01D99 CRL  
GST01DB2 CRL  
GST01DCB CRL  
GST01DE4 CRL

0 NOT\_LOCKED  
1 LOCKED

---



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Name: GSKT0257TM Descr: CRM

**Referenced by:**

From To Text

GST01BA6 CRM  
GST01BBF CRM  
GST01BD8 CRM  
GST01BF1 CRM  
GST01C0A CRM  
GST01C23 CRM  
GST01C3C CRM  
GST01C55 CRM  
GST01C6E CRM  
GST01C87 CRM  
GST01CA0 CRM  
GST01CB9 CRM  
GST01CD2 CRM  
GST01CEB CRM  
GST01D04 CRM  
GST01D1D CRM  
GST01D36 CRM  
GST01D4F CRM  
GST01D68 CRM  
GST01D81 CRM  
GST01D9A CRM  
GST01DB3 CRM  
GST01DCC CRM  
GST01DE5 CRM

0 NO\_ACTIVITIES  
1 ACQUISITION  
2 TRACKING  
3 ACQUISITION\_ER



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Name: GSKT0258TM Descr: CDD

**Referenced by:**

From To Text

GST01BA9 CDD  
GST01BC2 CDD  
GST01BDB CDD  
GST01BF4 CDD  
GST01C0D CDD  
GST01C26 CDD  
GST01C3F CDD  
GST01C58 CDD  
GST01C71 CDD  
GST01C8A CDD  
GST01CA3 CDD  
GST01CBC CDD  
GST01CD5 CDD  
GST01CEE CDD  
GST01D07 CDD  
GST01D20 CDD  
GST01D39 CDD  
GST01D52 CDD  
GST01D6B CDD  
GST01D84 CDD  
GST01D9D CDD  
GST01DB6 CDD  
GST01DCF CDD  
GST01DE8 CDD

0 NO\_DETERIORATI  
1 DETERIORATION

---



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**Name:** GSKT0259TM **Descr:** CDL

**Referenced by:**

**From To Text**

GST01BAA CDL  
GST01BC3 CDL  
GST01BDC CDL  
GST01BF5 CDL  
GST01C0E CDL  
GST01C27 CDL  
GST01C40 CDL  
GST01C59 CDL  
GST01C72 CDL  
GST01C8B CDL  
GST01CA4 CDL  
GST01CBD CDL  
GST01CD6 CDL  
GST01CEF CDL  
GST01D08 CDL  
GST01D21 CDL  
GST01D3A CDL  
GST01D53 CDL  
GST01D6C CDL  
GST01D85 CDL  
GST01D9E CDL  
GST01DB7 CDL  
GST01DD0 CDL  
GST01DE9 CDL

0 NOT\_LOCKED  
1 LOCKED

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Name: GSKT0260TM Descr: CDM

**Referenced by:**

From To Text

GST01BAB CDM  
GST01BC4 CDM  
GST01BDD CDM  
GST01BF6 CDM  
GST01C0F CDM  
GST01C28 CDM  
GST01C41 CDM  
GST01C5A CDM  
GST01C73 CDM  
GST01C8C CDM  
GST01CA5 CDM  
GST01CBE CDM  
GST01CD7 CDM  
GST01CF0 CDM  
GST01D09 CDM  
GST01D22 CDM  
GST01D3B CDM  
GST01D54 CDM  
GST01D6D CDM  
GST01D86 CDM  
GST01D9F CDM  
GST01DB8 CDM  
GST01DD1 CDM  
GST01DEA CDM

0 NO\_ACTIVITIES  
1 ACQUISITION  
2 TRACKING  
3 ACQUISITION\_ER



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Name: GSKT0261TM Descr: TS

**Referenced by:**

From	To	Text
		GST01BAC TS
		GST01BC5 TS
		GST01BDE TS
		GST01BF7 TS
		GST01C10 TS
		GST01C29 TS
		GST01C42 TS
		GST01C5B TS
		GST01C74 TS
		GST01C8D TS
		GST01CA6 TS
		GST01CBF TS
		GST01CD8 TS
		GST01CF1 TS
		GST01D0A TS
		GST01D23 TS
		GST01D3C TS
		GST01D55 TS
		GST01D6E TS
		GST01D87 TS
		GST01DA0 TS
		GST01DB9 TS
		GST01DD2 TS
		GST01DEB TS

0	CA_INIT
1	CA_WAIT_PPS
2	CA_DISPATCH
3	CA_COLD_INIT
4	CA_COLD_WAIT_I
5	COLD_WAIT_ME_1
6	CA_COLD_MFC_SY
7	COLD_WAIT_ME_2
8	CA_COLD_START_
9	CA_COLD_1ST_DW
10	CA_FST_WARM_IN
11	CA_WARM_WAIT_I
12	CA_WARM_WAIT_M
13	CA_WARM_MFC_SY
14	CA_WARM_START_
15	CA_WARM_1ST_DW
16	2D_RUN_WAIT_ME
17	2D_RUN_WAIT_IE
18	CA_2ND_RUN_STA
19	CA_COLD_ACQ_FB
20	CA_FST_WARM_AC
21	CA_WARM_ACQ_FB
22	CA_DEFAULT_ACQ
23	CA_CODE_TRACKI





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24	CA_WARM_INIT
25	CA_DEFAULT_INI
26	CA_DEF_WAIT_IE
27	CA_DEF_WAIT_ME
28	DEF_WAIT_IE_IM
29	CA_DEF_START_S
30	DEF_1ST_DWELL
31	DEF_1_DWELL_WA
32	CA_CHANGE_DELA
33	CA_WAIT_CODE_L
34	CA_CODE_LOCK_C
35	CA_CODE_BW_RED
36	CA_PREP_FFT_SA
37	CA_COLL_FFT_SA
38	CA_WAIT_CARR_L
39	CA_CARR_LOCK_C
40	CA_CARR_BW_RED
41	COR_SPAC_6CC_4
42	COR_SPAC_4CC_2
43	CA_PREP_1ST_TI
44	CA_INIT_1ST_TI
45	CA_EXEC_1ST_TI
46	CA_TRACKING_ST
47	CA_EXEC_1ST_PA
48	CA_PREP_2ND_TI
49	CA_INIT_2ND_TI
50	CA_EXEC_2ND_TI
51	CA_EXEC_2ND_PA
52	CA_PREP_3RD_TI
53	CA_INIT_3RD_TI
54	CA_EXEC_3RD_TI
55	CA_EXEC_3RD_PA
56	CA_STEADY
57	P1_INIT
58	P1_WAIT_IE
59	P1_PREP_TINT_C
60	P1_INIT_TINT_C
61	P1_EXEC_TINT_C
62	P1_WAIT_CODE_L
63	P1_CODE_LOCK_C
64	P1_CODE_BW_RED
65	P1_TRACKING_ST
66	P1_EXEC_1ST_PA
67	P1_PREP_2ND_TI
68	P1_INIT_2ND_TI
69	P1_EXEC_2ND_TI
70	P1_EXEC_2ND_PA
71	P1_PREP_3RD_TI
72	P1_INIT_3RD_TI
73	P1_EXEC_3RD_TI



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74	P1_EXEC_3RD_PA
75	P1_STEADY
76	P2_INIT
77	P2_WAIT_IE
78	P2_PREP_TINT_C
79	P2_INIT_TINT_C
80	P2_EXEC_TINT_C
81	P2_WAIT_RETRY_
82	P2_INIT_CCC
83	P2_WRITE_P_COD
84	P2_RECOVER_P1_
85	P2_RECOVER_P2_
86	P2__START_CODE
87	P2_WRITE_CYCLE
88	P2_WAIT_ME
89	P2_START_SHIFT
90	P2_1ST_DWELL
91	P2_1ST_DWELL_W
92	P2_WAIT_CODE_L
93	P2_CODE_LOCK_C
94	P2_CODE_BW_RED
95	P2_PREP_FFT_SA
96	P2_COLL_FFT_SA
97	P2_WAIT_CARR_L
98	P2_CARR_LOCK_C
99	P2_CARR_BW_RED
100	P2_TRACKING_ST
101	P2_EXEC_1ST_PA
102	P2_PREP_2ND_TI
103	P2_INIT_2ND_TI
104	P2_EXEC_2ND_TI
105	P2_EXEC_2ND_PA
106	P2_PREP_3RD_TI
107	P2_INIT_3RD_TI
108	P2_EXEC_3RD_TI
109	P2_EXEC_3RD_PA
110	P2_STEADY
111	SLAVE_INIT
112	SL_WAIT_ME
113	SL_START_SHIFT
114	SL_WAIT_IE_IMT
115	SL_WAIT_IE
116	SL_PREP_1ST_TI
117	SL_INIT_1ST_TI
118	SL_EXEC_1ST_TI
119	SL_TIMESLOT_WA
120	SL_START_CODEG
121	SL_ACQ_FB
122	SL_CODE_TRACKI
123	SL_1ST_DWELL



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124	SL_1ST_DWELL_W
125	SL_CHANGE_DELA
126	SL_WAIT_CODE_L
127	SL_CODE_LOCK_C
128	SL_CODE_BW_RED
129	SL_PREP_FFT_SA
130	SL_COLL_FFT_SA
131	SL_WAIT_CARR_L
132	SL_CARR_LOCK_C
133	SL_CARR_BW_RED
134	S_CO_SP_6CC_4C
135	S_CO_SP_4CC_2C
136	SL_TRACKING_ST
137	SL_EXEC_1ST_PA
138	SL_PREP_2ND_TI
139	SL_INIT_2ND_TI
140	SL_EXEC_2ND_TI
141	SL_EXEC_2ND_PA
142	SL_PREP_3RD_TI
143	SL_INIT_3RD_TI
144	SL_EXEC_3RD_TI
145	SL_EXEC_3RD_PA
146	SL_STEADY
147	COD_ACQ_ERROR
148	COD_ACQ_ERR_RE
149	CAR_ACQ_ERROR
150	CAR_ACQ_ERR_RE
151	STOPPED
152	STOPPED_REPORT

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Name: GSKT0262TM Descr: FRIT

**Referenced by:**

From To Text

GST01BAD FRIT  
GST01BC6 FRIT  
GST01BDF FRIT  
GST01BF8 FRIT  
GST01C11 FRIT  
GST01C2A FRIT  
GST01C43 FRIT  
GST01C5C FRIT  
GST01C75 FRIT  
GST01C8E FRIT  
GST01CA7 FRIT  
GST01CC0 FRIT  
GST01CD9 FRIT  
GST01CF2 FRIT  
GST01D0B FRIT  
GST01D24 FRIT  
GST01D3D FRIT  
GST01D56 FRIT  
GST01D6F FRIT  
GST01D88 FRIT  
GST01DA1 FRIT  
GST01DBA FRIT  
GST01DD3 FRIT  
GST01DEC FRIT

0 NOT\_FINAL\_INTE  
1 INTEGRATION\_TI

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**Name:** GSKT0263TM **Descr:** FRBW

**Referenced by:**

**From To Text**

GST01BAE FRBW  
GST01BB2 FDBW  
GST01BC7 FRBW  
GST01BCB FDBW  
GST01BE0 FRBW  
GST01BE4 FDBW  
GST01BF9 FRBW  
GST01BFD FDBW  
GST01C12 FRBW  
GST01C16 FDBW  
GST01C2B FRBW  
GST01C2F FDBW  
GST01C44 FRBW  
GST01C48 FDBW  
GST01C5D FRBW  
GST01C61 FDBW  
GST01C76 FRBW  
GST01C7A FDBW  
GST01C8F FRBW  
GST01C93 FDBW  
GST01CA8 FRBW  
GST01CAC FDBW  
GST01CC1 FRBW  
GST01CC5 FDBW  
GST01CDA FRBW  
GST01CDE FDBW  
GST01CF3 FRBW  
GST01CF7 FDBW  
GST01D0C FRBW  
GST01D10 FDBW  
GST01D25 FRBW  
GST01D29 FDBW  
GST01D3E FRBW  
GST01D42 FDBW  
GST01D57 FRBW  
GST01D5B FDBW  
GST01D70 FRBW  
GST01D74 FDBW  
GST01D89 FRBW  
GST01D8D FDBW  
GST01DA2 FRBW  
GST01DA6 FDBW  
GST01DBB FRBW  
GST01DBF FDBW  
GST01DD4 FRBW  
GST01DD8 FDBW  
GST01DED FRBW  
GST01DF1 FDBW



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0 NO\_FINAL\_BANDW  
1 BANDWIDTH\_APPLI

Name: GSKT0264TM Descr: FRDS

**Referenced by:**

From To Text

GST01BAF FRDS  
GST01BC8 FRDS  
GST01BE1 FRDS  
GST01BFA FRDS  
GST01C13 FRDS  
GST01C2C FRDS  
GST01C45 FRDS  
GST01C5E FRDS  
GST01C77 FRDS  
GST01C90 FRDS  
GST01CA9 FRDS  
GST01CC2 FRDS  
GST01CDB FRDS  
GST01CF4 FRDS  
GST01D0D FRDS  
GST01D26 FRDS  
GST01D3F FRDS  
GST01D58 FRDS  
GST01D71 FRDS  
GST01D8A FRDS  
GST01DA3 FRDS  
GST01DBC FRDS  
GST01DD5 FRDS  
GST01DEE FRDS

0 NO\_FINAL\_DISCR  
1 DISCRIMINATOR\_



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Name: GSKT0265TM Descr: FRTH

**Referenced by:**

From To Text

GST01BB0 FRTH  
GST01BB4 FDTH  
GST01BC9 FRTH  
GST01BCD FDTH  
GST01BE2 FRTH  
GST01BE6 FDTH  
GST01BFB FRTH  
GST01BFF FDTH  
GST01C14 FRTH  
GST01C18 FDTH  
GST01C2D FRTH  
GST01C31 FDTH  
GST01C46 FRTH  
GST01C4A FDTH  
GST01C5F FRTH  
GST01C63 FDTH  
GST01C78 FRTH  
GST01C7C FDTH  
GST01C91 FRTH  
GST01C95 FDTH  
GST01CAA FRTH  
GST01CAE FDTH  
GST01CC3 FRTH  
GST01CC7 FDTH  
GST01CDC FRTH  
GST01CE0 FDTH  
GST01CF5 FRTH  
GST01CF9 FDTH  
GST01D0E FRTH  
GST01D12 FDTH  
GST01D27 FRTH  
GST01D2B FDTH  
GST01D40 FRTH  
GST01D44 FDTH  
GST01D59 FRTH  
GST01D5D FDTH  
GST01D72 FRTH  
GST01D76 FDTH  
GST01D8B FRTH  
GST01D8F FDTH  
GST01DA4 FRTH  
GST01DA8 FDTH  
GST01DBD FRTH  
GST01DC1 FDTH  
GST01DD6 FRTH  
GST01DDA FDTH  
GST01DEF FRTH  
GST01DF3 FDTH



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0 NO\_FINAL\_THRES  
1 THRESHOLD\_APPL

Name: GSKT0266TM Descr: FDIT

**Referenced by:**

From To Text

GST01BB1 FDIT  
GST01BCA FDIT  
GST01BE3 FDIT  
GST01BFC FDIT  
GST01C15 FDIT  
GST01C2E FDIT  
GST01C47 FDIT  
GST01C60 FDIT  
GST01C79 FDIT  
GST01C92 FDIT  
GST01CAB FDIT  
GST01CC4 FDIT  
GST01CDD FDIT  
GST01CF6 FDIT  
GST01D0F FDIT  
GST01D28 FDIT  
GST01D41 FDIT  
GST01D5A FDIT  
GST01D73 FDIT  
GST01D8C FDIT  
GST01DA5 FDIT  
GST01DBE FDIT  
GST01DD7 FDIT  
GST01DF0 FDIT

0 NO\_FINAL\_INTEG  
1 APPLIED\_INTEGR





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Name: GSKT0267TM Descr: FDSP

**Referenced by:**

From	To	Text
		GST01BB3 FDSP
		GST01BCC FDSP
		GST01BE5 FDSP
		GST01BFE FDSP
		GST01C17 FDSP
		GST01C30 FDSP
		GST01C49 FDSP
		GST01C62 FDSP
		GST01C7B FDSP
		GST01C94 FDSP
		GST01CAD FDSP
		GST01CC6 FDSP
		GST01CDF FDSP
		GST01CF8 FDSP
		GST01D11 FDSP
		GST01D2A FDSP
		GST01D43 FDSP
		GST01D5C FDSP
		GST01D75 FDSP
		GST01D8E FDSP
		GST01DA7 FDSP
		GST01DC0 FDSP
		GST01DD9 FDSP
		GST01DF2 FDSP
0		NO_FINAL_CORRE
1		CORRELATOR_SPA

Name: GSKT0293TM Descr: SID

**Referenced by:**

From	To	Text
		GST01AE8 SID
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST01B96 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST01B99 V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST01B9A R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
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Name: GSKT0345TM Descr: CONS

**Referenced by:**

From To Text

GST01B9C CONS  
GST01BB5 CONS  
GST01BCE CONS  
GST01BE7 CONS  
GST01C00 CONS  
GST01C19 CONS  
GST01C32 CONS  
GST01C4B CONS  
GST01C64 CONS  
GST01C7D CONS  
GST01C96 CONS  
GST01CAF CONS  
GST01CC8 CONS  
GST01CE1 CONS  
GST01CFA CONS  
GST01D13 CONS  
GST01D2C CONS  
GST01D45 CONS  
GST01D5E CONS  
GST01D77 CONS  
GST01D90 CONS  
GST01DA9 CONS  
GST01DC2 CONS  
GST01DDB CONS



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37114	N_ScienceDataReport__CarrierAmplitude	212	1	48	6	774	Y	30	VAR_W	GST01688	CARR_AMPL		Y	37114	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST01688	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST01E08	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST01E09	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST01E0A	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG0409	SN_V_RMODE	SN_V_RMODE			
	0	4	GST01E0B	SN	Serial_Number__not_used_	UINT	INTEGER	Z_IDENTITY
	4	1	GST01E0C	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST01E0D	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST01E0E	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG040A	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST01E0F	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST01E10	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST01E11	SIG	Signal_type	UINT	STRING	GSKT0230TM
8	10	8	GSTG040B	ANT_NU2	ANT_NU2			
	0	4	GST01E12	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST01E13	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
9	11	8	GST01E14	SF_CHN	channel_number	UINT	INTEGER	Z_IDENTITY
10	12	16	GST01E15	C_N_0	Carrier_to_noise_power_density_ratio	SINT	INTEGER	GSKP0268TM
11	14	16	GST01E16	AMPL	Carrier_amplitude	SINT	INTEGER	GSKP0269TM







**Sentinel-2**  
**SRDB Database Extract**  
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**Name:** GSKT0230TM **Descr:** SIG

**Referenced by:**

GST01E11 SIG

From	To	Text
0		GPS_L1_CA
1		GPS_L1_P
2		GPS_L2_CA
3		GPS_L2_P
4		GPS_L2_CM
5		GPS_L2_CL
6		NO_SIGNAL

**Name:** GSKT0231TM **Descr:** ANT

**Referenced by:**

GST01E12 ANT

From	To	Text
0		FIRST_ANTENNA
1		SECOND_ANTENNA

**Name:** GSKT0293TM **Descr:** SID

**Referenced by:**

GST01688 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST01E09 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

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Database: SISS2CSW  
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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
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Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST01E0C V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST01E0D R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

**Name:** GSKT0345TM **Descr:** CONS

**Referenced by:**  
GST01E0F CONS

From	To	Text
0		GPS_CONSTELLAT



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37115	N_ScienceDataReport__NoiseHistogram_2_	212	1	48	12	780	Y	94	FIXED	GST01AE8	NOISE_HIST		Y	37115	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST01AE8	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST01E2B	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST01E2C	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST01E2D	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG040C	SN_V_RMODE	SN_V_RMODE			
	0	4	GST01E2E	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST01E2F	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST01E30	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST01E31	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG040D	CHAIN_NU2	CHAIN_NU2			
	0	4	GST01E32	CHAIN	chain_number	UINT	STRING	GSKT0270TM
	4	12	GST01E33	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
8	10	16	GST01E34	N_POWER	Noise_power	SINT	INTEGER	GSKP0269TM
9	12	32	GST01E35	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
10	16	16	GST01E36	LVL_I_P3	normalised_signal_level_detector_counts_of_the_positive_I n_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
11	18	16	GST01E37	LVL_I_P1	normalised_signal_level_detector_counts_of_the_positive_I n_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
12	20	16	GST01E38	LVL_I_M1	normalised_signal_level_detector_counts_of_the_negative _In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
13	22	16	GST01E39	LVL_I_M3	normalised_signal_level_detector_counts_of_the_negative _In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
14	24	32	GST01E3A	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
15	28	32	GST01E3B	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
16	32	16	GST01E3C	LVL_Q_P3	normalised_signal_level_detector_counts_of_the_quadratur e_In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
17	34	16	GST01E3D	LVL_Q_P1	normalised_signal_level_detector_counts_of_the_quadratur e_In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
18	36	16	GST01E3E	LVL_Q_M1	normalised_signal_level_detector_counts_of_the_negative _quadrature_In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
19	38	16	GST01E3F	LVL_Q_M3	normalised_signal_level_detector_counts_of_the_negative _quadrature_In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
20	40	32	GST01E40	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY





## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
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Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37115	N_ScienceDataReport__NoiseHistogram_2_	212	1	48	12	780	Y	94	FIXED	GST01AE8	NOISE_HIST		Y	37115	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
21	44	16	GSTG040E	CHAIN_NU2	CHAIN_NU2			
	0	4	GST01E41	CHAIN	chain_number	UINT	STRING	GSKT0270TM
	4	12	GST01E42	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
22	46	16	GST01E43	N_POWER	Noise_power	SINT	INTEGER	GSKP0269TM
23	48	32	GST01E44	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
24	52	16	GST01E45	LVL_I_P3	normalised_signal_level_detector_counts_of_the_positive_I n_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
25	54	16	GST01E46	LVL_I_P1	normalised_signal_level_detector_counts_of_the_positive_I n_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
26	56	16	GST01E47	LVL_I_M1	normalised_signal_level_detector_counts_of_the_negative _ln_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
27	58	16	GST01E48	LVL_I_M3	normalised_signal_level_detector_counts_of_the_negative _ln_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
28	60	32	GST01E49	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
29	64	32	GST01E4A	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
30	68	16	GST01E4B	LVL_Q_P3	normalised_signal_level_detector_counts_of_the_quadratur e_In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
31	70	16	GST01E4C	LVL_Q_P1	normalised_signal_level_detector_counts_of_the_quadratur e_In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
32	72	16	GST01E4D	LVL_Q_M1	normalised_signal_level_detector_counts_of_the_negative _quadrature_In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
33	74	16	GST01E4E	LVL_Q_M3	normalised_signal_level_detector_counts_of_the_negative _quadrature_In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
34	76	32	GST01E4F	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY



**Sentinel-2**  
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TM Numerical Calibration Curves

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**Name:** GSKP0269TM **Descr:** AMPL

**Unit:** dB

X

Y

**Referenced by:**

GST01E34 N\_POWER

GST01E43 N\_POWER

**Modelname:** GENERIC

-32768

-327.68

32767

327.67



**Sentinel-2**  
**SRDB Database Extract**  
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**Name:** GSKT0270TM **Descr:** CHAIN

**Referenced by:**

GST01E32 CHAIN

GST01E41 CHAIN

From	To	Text
0		ANTENNA_1_-_L1
1		ANTENNA_1_-_L2

**Name:** GSKT0293TM **Descr:** SID

**Referenced by:**

GST01AE8 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST01E2C FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST01E2F V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST01E30 R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE





## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37116	N_SciData__ScienceDataReport__AGC_Statu	212	1	48	13	781	Y	34	VAR_W	GST018DF	AGC_STATUS		Y	37116	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST018DF	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST01E64	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST01E65	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST01E66	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG040F	SN_V_RMODE	SN_V_RMODE			
	0	4	GST01E67	SN	Serial_Number__not_used_	UINT	INTEGER	Z_IDENTITY
	4	1	GST01E68	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST01E69	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST01E6A	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	32	GST01E6B	GCTS_MSB	gain_control_change_timestamp_MSB_part	UINT	INTEGER	Z_IDENTITY
8	12	32	GST01E6C	GCTS_LSB	gain_control_change_timestamp_LSB_part	UINT	INTEGER	Z_IDENTITY
9	16	8	GSTG0410	CHAIN_NU_L_U_E	CHAIN_NU_L_U_E			
	0	4	GST01E6D	CHAIN	Chain_index	UINT	STRING	GSKT0271TM
	4	1	GST01E6E	N_U	not_used	UINT	INTEGER	Z_IDENTITY
	5	1	GST01E6F	L	lower_settling_threshold	UINT	STRING	GSKT0272TM
	6	1	GST01E70	U	upper_settling_threshold	UINT	STRING	GSKT0273TM
	7	1	GST01E71	E	Enabled	UINT	STRING	GSKT0274TM
10	17	8	GST01E72	GAIN	analogue_gain_setting	UINT	INTEGER	Z_IDENTITY
11	18	16	GST01E73	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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**Name:** GSKT0271TM **Descr:** CHAIN

**Referenced by:**  
GST01E6D CHAIN

From	To	Text
0		ANTENNA_1_-_L1
1		ANTENNA_1_-_L2

**Name:** GSKT0272TM **Descr:** L

**Referenced by:**  
GST01E6F L

From	To	Text
0		NOT_BELOW_LOWE
1		LOWER_SETTLING

**Name:** GSKT0273TM **Descr:** U

**Referenced by:**  
GST01E70 U

From	To	Text
0		NOT_ABOVE_UPPE
1		UPPER_SETTLING

**Name:** GSKT0274TM **Descr:** E

**Referenced by:**  
GST01E71 E

From	To	Text
0		AGC_DISABLED
1		AGC_ENABLED

**Name:** GSKT0293TM **Descr:** SID

**Referenced by:**  
GST018DF SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST01E65 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST01E68 V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST01E69 R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37117	N_ScienceDataReport__GPS_NAV_Almanac	212	1	48	13	781	Y	58	VAR_W	GST018DF	GPS_NAV_ALM		Y	37117	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST018DF	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST01E88	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST01E89	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST01E8A	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG0411	SN_V_RMODE	SN_V_RMODE			
	0	4	GST01E8B	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST01E8C	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST01E8D	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST01E8E	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG0412	CONS_SVID_NU	CONS_SVID_NU			
	0	3	GST01E8F	CONS	constellation_identifier	UINT	STRING	GSKT0343TM
	3	8	GST01E90	SV_ID	Space_vehicle_identifier	UINT	INTEGER	Z_IDENTITY
	11	5	GST01E91	N_U	not_used	UINT	INTEGER	Z_IDENTITY
8	10	16	GST01E92	T_REC	Time_of_reception	UINT	INTEGER	Z_IDENTITY
9	12	8	GST01E93	ACQ_SV_ID	SV_identity_of_download	UINT	INTEGER	Z_IDENTITY
10	13	8	GST01E94	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
11	14	8	GST01E95	WNa	Week_number	UINT	INTEGER	Z_IDENTITY
12	15	8	GSTG0413	NDH_SH	NDH_SH			
	0	3	GST01E96	NDH	Navigation_Data_Health	UINT	STRING	GSKT0008TM
	3	5	GST01E97	SH	Signal_Health	UINT	STRING	GSKT0009TM
13	16	16	GST01E98	a_f0	SV_clock_correction_polynomial_constants	SINT	INTEGER	GSKP0010TM
14	18	16	GST01E99	a_f1	SV_clock_correction_polynomial_constants	SINT	INTEGER	GSKP0011TM
15	20	8	GST01E9A	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
16	21	8	GST01E9B	t_oa	SV_clock_correlation_reference_time	UINT	INTEGER	GSKP0012TM
17	22	16	GST01E9C	E	Eccentricity	UINT	INTEGER	GSKP0013TM
18	24	16	GST01E9D	rho_i	Derivation__correction__of_inclination	SINT	INTEGER	GSKP0014TM
19	26	16	GST01E9E	Omega_DOT	rate_of_right_ascension	SINT	INTEGER	GSKP0015TM
20	28	32	GST01E9F	Root_A	Square_root_of_the_semimajor_axis	UINT	INTEGER	GSKP0016TM
21	32	32	GST01EA0	Omega_0	Longitude_of_ascending_node_of_Orbit_plane_at_weekly_epoch	SINT	INTEGER	GSKP0017TM





## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatn	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37117	N_ScienceDataReport__GPS_NAV_Almanac	212	1	48	13	781	Y	58	VAR_W	GST018DF	GPS_NAV_ALM		Y	37117	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
22	36	32	GST01EA1	w	argument_of_perigee	SINT	INTEGER	GSKP0017TM
23	40	32	GST01EA2	M_0	mean_anomaly_at_reference_time	SINT	INTEGER	GSKP0017TM



**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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**Name:** GSKP0010TM **Descr:** a\_f0

**Referenced by:**

**Unit:** s X Y

GST01E98 a\_f0

**Modelname:** GENERIC

-1024 -0.0009765625  
1023 0.000975608826

**Name:** GSKP0011TM **Descr:** a\_f1

**Referenced by:**

**Unit:** s/s X Y

GST01E99 a\_f1

**Modelname:** GENERIC

-1024 -3.7252903E-09  
1023 3.72165232E-09

**Name:** GSKP0012TM **Descr:** t\_oa

**Referenced by:**

**Unit:** s X Y

GST01E9B t\_oa

**Modelname:** GENERIC

0 0  
255 1044480

**Name:** GSKP0013TM **Descr:** E

**Referenced by:**

**Unit:** X Y

GST01E9C E

**Modelname:** GENERIC

0 0  
65535 0.031249523163

**Name:** GSKP0014TM **Descr:** rho\_i

**Referenced by:**

**Unit:** sc X Y

GST01E9D rho\_i

**Modelname:** GENERIC

-32768 -0.0625  
32767 0.062498092651

**Name:** GSKP0015TM **Descr:** Omega\_DOT

**Referenced by:**

**Unit:** sc/s X Y

GST01E9E Omega\_DOT

**Modelname:** GENERIC

-32768 -0.00000011920929  
32767 0.000000119205652

**Name:** GSKP0016TM **Descr:** Root\_A

**Referenced by:**

**Unit:** rotm X Y

GST01E9F Root\_A

**Modelname:** GENERIC

1 0.00048828125  
16777215 8191.999511719



**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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**Name:** GSKP0017TM **Descr:** Omega\_0

**Unit:** sc

X

Y

**Referenced by:**

GST01EA0 Omega\_0

GST01EA1 w

GST01EA2 M\_0

---

**Modelname:** GENERIC

-8388608

-1

8388607

0.999999880791

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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name: GSKT0008TM Descr: NDH

Referenced by:  
GST01E96 NDH

From	To	Text
0		ALL_OK
1		PARITY_FAILURE
2		TLM_HOW_PROBLE
3		Z_COUNT_BAD
4		SUB-FRAMES_1_2
5		SUB-FRAMES_4_5
6		ALL_UPLOADED_B
7		ALL_DATA_BAD

Name: GSKT0009TM Descr: SH

Referenced by:  
GST01E97 SH

From	To	Text
0		ALL_OK
1		ALL_WEAK
2		ALL_DEAD
3		ALL_WITHOUT_DA
4		L1_P_WEAK
5		L1_P_DEAD
6		L1_P_WITHOUT_D
7		L2_P_WEAK
8		L2_P_DEAD
9		L2_P_WITHOUT_D
10		L1_C_WEAK
11		L1_C_DEAD
12		L1_C_WITHOUT_D
13		L2_C_WEAK
14		L2_C_DEAD
15		L2_C_WITHOUT_D
16		L1_AND_L2_P_WE
17		L1_AND_L2_P_DE
18		L1_AND_L2_P_WI
19		L1_AND_L2_C_WE
20		L1_AND_L2_C_DE
21		L1_AND_L2_C_WI
22		L1_WEAK
23		L1_DEAD
24		L1_WITHOUT_DAT
25		L2_WEAK
26		L2_DEAD
27		L2_WITHOUT_DAT
28		GPS_SV_TEMP_OU
29		GPS_SV_WILL_BE
30		SPARE
31		OTHER_ANOMALIE



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name: GSKT0293TM Descr: SID

Referenced by:  
GST018DF SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST

---



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 3 of 7

Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST01E89 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



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83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



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134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75





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184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



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232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST01E8C V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST01E8D R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

**Name:** GSKT0343TM **Descr:** CONS

**Referenced by:**  
GST01E8F CONS

From	To	Text
0		GPS_CONSTELLAT



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37118	N_ScienceDataReport__GPS_NAV_Ephemeris	212	1	48	13	781	Y	90	VAR_W	GST018DF	GPS_NAV_EPH		Y	37118	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST018DF	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST01EB7	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST01EB8	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST01EB9	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG0414	SN_V_RMODE	SN_V_RMODE			
	0	4	GST01EBA	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST01EBB	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST01EBC	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST01EBD	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG087F	CONS_SVID_NU	CONS_SVID_NU			
	0	3	GST0415E	CONS	constellation_identifier	UINT	STRING	GSKT0344TM
	3	8	GST0415F	SV_ID	Space_vehicle_identifier	UINT	INTEGER	Z_IDENTITY
	11	5	GST01EC0	N_U	not_used	UINT	INTEGER	Z_IDENTITY
8	10	16	GST01EC1	T_REC	Time_of_reception	UINT	INTEGER	Z_IDENTITY
9	12	16	GSTG0416	AS_D2_CF_C2_A_NH	AS_D2_CF_C2_A_NH_SH_URA			
	0	1	GST01EC2	AS	Anti_spoof_flag	UINT	STRING	GSKT0018TM
	1	1	GST01EC3	D2	Data_flag_for_L2_P_2D_code	UINT	STRING	GSKT0019TM
	2	1	GST01EC4	CF	curve_fit_interval	UINT	STRING	GSKT0020TM
	3	2	GST01EC5	C2	Codes_on_L2_channel	UINT	STRING	GSKT0021TM
	5	1	GST01EC6	A	Alert_flag	UINT	STRING	GSKT0022TM
	6	1	GST01EC7	NH	Navigation_Data_Health_Summary	UINT	STRING	GSKT0023TM
	7	5	GST01EC8	SH	Signal_health	UINT	STRING	GSKT0024TM
	12	4	GST01EC9	URA	GPS_SV_Accurracy	UINT	INTEGER	Z_IDM
10	14	16	GSTG0417	NU2_WN	NU2_WN			
	0	6	GST01ECA	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	6	10	GST01ECB	WN	week_number	UINT	INTEGER	Z_IDENTITY
11	16	16	GST01ECC	IODC	Issue_of_Data_clock	UINT	INTEGER	Z_IDENTITY
12	18	16	GST01ECD	a_f1	GPS_SV_Clock_correction_polynomial_coefficients	SINT	INTEGER	GSKP0025TM
13	20	32	GST01ECE	a_f0	GPS_SV_Clock_correction_polynomial_coefficients	SINT	INTEGER	GSKP0026TM
14	24	8	GST01ECF	a_f2	GPS_SV_Clock_correction_polynomial_coefficients	SINT	INTEGER	GSKP0027TM
15	25	8	GST01ED0	T_GD	estimated_group_delay	SINT	INTEGER	GSKP0028TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37118	N_ScienceDataReport__GPS_NAV_Ephemeris	212	1	48	13	781	Y	90	VAR_W	GST018DF	GPS_NAV_EPH		Y	37118	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
16	26	16	GST01ED1	t_oc	GPS_SV_Clock_data_reference_time	UINT	INTEGER	GSKP0029TM
17	28	16	GST01ED2	IODE	Issue_of_Data_2C__Ephemeris	UINT	INTEGER	Z_IDENTITY
18	30	16	GST01ED3	C_rs	amplitude_of_the_sine_harmonic_correction_term_to_the_orbit_radius	SINT	INTEGER	GSKP0030TM
19	32	16	GST01ED4	C_rc	amplitude_of_the_cosine_harmonic_correction_term_to_the_orbit_radius	SINT	INTEGER	GSKP0030TM
20	34	16	GST01ED5	C_us	amplitude_of_the_sine_harmonic_correction_term_to_the_argument_of_Lattitude	SINT	INTEGER	GSKP0031TM
21	36	16	GST01ED6	C_uc	amplitude_of_the_cosine_harmonic_correction_term_to_the_argument_of_Lattitude	SINT	INTEGER	GSKP0031TM
22	38	16	GST01ED7	C_is	amplitude_of_the_sine_harmonic_correction_term_to_the_angle_of_inclination	SINT	INTEGER	GSKP0031TM
23	40	16	GST01ED8	C_ic	amplitude_of_the_cosine_harmonic_correction_term_to_the_angle_of_inclination	SINT	INTEGER	GSKP0031TM
24	42	16	GST01ED9	Delta_n	mean_motion_difference_from_computed_value	SINT	INTEGER	GSKP0032TM
25	44	32	GST01EDA	M_0	mean_anomaly_at_reference_time	SINT	INTEGER	GSKP0033TM
26	48	32	GST01EDB	E	Eccentricity	UINT	INTEGER	GSKP0034TM
27	52	32	GST01EDC	Root_A	square_root_for_the_semi_major_axis	UINT	INTEGER	GSKP0035TM
28	56	32	GST01EDD	Omega_0	longitude_of_ascending_node_of_orbit_plane_at_weekly_epoch	SINT	INTEGER	GSKP0033TM
29	60	32	GST01EDE	i_0	Inclination_angle_at_reference_time	SINT	INTEGER	GSKP0033TM
30	64	32	GST01EDF	w	argument_of_perigee	SINT	INTEGER	GSKP0033TM
31	68	32	GST01EE0	Omega_DOT	rate_of_right_ascension	SINT	INTEGER	GSKP0036TM
32	72	16	GST01EE1	t_oe	reference_time_Ephemeris	UINT	INTEGER	GSKP0029TM
33	74	16	GST01EE2	I_DOT	rate_of_inclination_angle	SINT	INTEGER	GSKP0037TM



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**Name:** GSKP0025TM **Descr:** a\_f1

**Referenced by:**

**Unit:** s/s X Y

GST01ECD a\_f1

**Modelname:** GENERIC

-32768 -3.7252903E-09  
32767 3.72517661E-09

**Name:** GSKP0026TM **Descr:** a\_f0

**Referenced by:**

**Unit:** s X Y

GST01ECE a\_f0

**Modelname:** GENERIC

-2097152 -0.0009765625  
2097151 0.000976562034

**Name:** GSKP0027TM **Descr:** a\_f2

**Referenced by:**

**Unit:** s/s2 X Y

GST01ECF a\_f2

**Modelname:** GENERIC

-128 -3.5527137E-15  
127 3.5249581E-15

**Name:** GSKP0028TM **Descr:** T\_GD

**Referenced by:**

**Unit:** s X Y

GST01ED0 T\_GD

**Modelname:** GENERIC

-128 -0.000000059604645  
127 5.91389835E-08

**Name:** GSKP0029TM **Descr:** t\_oc

**Referenced by:**

**Unit:** s X Y

GST01ED1 t\_oc

GST01EE1 t\_oe

**Modelname:** GENERIC

0 0  
65535 1048560

**Name:** GSKP0030TM **Descr:** C\_rs

**Referenced by:**

**Unit:** m X Y

GST01ED3 C\_rs

GST01ED4 C\_rc

**Modelname:** GENERIC

-32768 -1024  
32767 1023.96875

**Name:** GSKP0031TM **Descr:** C\_us

**Referenced by:**

**Unit:** rad X Y

GST01ED5 C\_us

GST01ED6 C\_uc

GST01ED7 C\_is

GST01ED8 C\_ic

**Modelname:** GENERIC

-32768 -0.000061035156  
32767 0.0000610332936



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**Name:** GSKP0032TM **Descr:** Delta\_n **Referenced by:**  
**Unit:** sc/s X Y GST01ED9 Delta\_n

**Modelname:** GENERIC

-32768 -3.7252903E-09  
32767 3.72517661E-09

**Name:** GSKP0033TM **Descr:** M\_0 **Referenced by:**  
**Unit:** sc X Y GST01EDA M\_0  
GST01EDD Omega\_0  
GST01EDE i\_0  
GST01EDF w

**Modelname:** GENERIC

-2147483648 -1  
2147483647 0.999999999534

**Name:** GSKP0034TM **Descr:** E **Referenced by:**  
**Unit:** X Y GST01EDB E

**Modelname:** GENERIC

0 0  
4294967295 0.499999999884

**Name:** GSKP0035TM **Descr:** Root\_A **Referenced by:**  
**Unit:** rotm X Y GST01EDC Root\_A

**Modelname:** GENERIC

1 0.00000190734863  
4294967295 8191.999998093

**Name:** GSKP0036TM **Descr:** Omega\_DOT **Referenced by:**  
**Unit:** sc/s X Y GST01EE0 Omega\_DOT

**Modelname:** GENERIC

-8388608 -0.00000095367432  
8388607 0.000000953674203

**Name:** GSKP0037TM **Descr:** I\_DOT **Referenced by:**  
**Unit:** sc/s X Y GST01EE2 I\_DOT

**Modelname:** GENERIC

-8192 -9.3132257E-10  
8191 9.31208888E-10

**Name:** Z\_IDM **Descr:** Identity metre [m] **Referenced by:**  
**Unit:** m X Y GST01EC9 URA

**Modelname:** GENERIC



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**Name:** GSKT0018TM **Descr:** AS

**Referenced by:**  
GST01EC2 AS

From	To	Text
0		ANTI-SPOOF_OFF
1		ANTI-SPOOF_ON

**Name:** GSKT0019TM **Descr:** D2

**Referenced by:**  
GST01EC3 D2

From	To	Text
0		DATA_FLAG_ON
1		DATA_FLAG_OFF

**Name:** GSKT0020TM **Descr:** CF

**Referenced by:**  
GST01EC4 CF

From	To	Text
0		4HRS
1		OVER_4HRS

**Name:** GSKT0021TM **Descr:** C2

**Referenced by:**  
GST01EC5 C2

From	To	Text
0		RESERVED
1		P-CODE_ON
2		CA-CODE_ON

**Name:** GSKT0022TM **Descr:** A

**Referenced by:**  
GST01EC6 A

From	To	Text
0		NOMINAL
1		UNAUTHORIZED_U

**Name:** GSKT0023TM **Descr:** NH

**Referenced by:**  
GST01EC7 NH

From	To	Text
0		NAV_DATA_OK
1		SOME_OR_ALL_NA



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Name: GSKT0024TM Descr: SH

Referenced by:  
GST01EC8 SH

From	To	Text
0		ALL_OK
1		ALL_WEAK
2		ALL_DEAD
3		ALL_WITHOUT_DA
4		L1_P_WEAK
5		L1_P_DEAD
6		L1_P_WITHOUT_D
7		L2_P_WEAK
8		L2_P_DEAD
9		L2_P_WITHOUT_D
10		L1_C_WEAK
11		L1_C_DEAD
12		L1_C_WITHOUT_D
13		L2_C_WEAK
14		L2_C_DEAD
15		L2_C_WITHOUT_D
16		L1_AND_L2_P_WE
17		L1_AND_L2_P_DE
18		L1_AND_L2_P_WI
19		L1_AND_L2_C_WE
20		L1_AND_L2_C_DE
21		L1_AND_L2_C_WI
22		L1_WEAK
23		L1_DEAD
24		L1_WITHOUT_DAT
25		L2_WEAK
26		L2_DEAD
27		L2_WITHOUT_DAT
28		GPS_SV_TEMP_OU
29		GPS_SV_WILL_BE
30		SPARE
31		OTHER_ANOMALIE





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Name: GSKT0293TM Descr: SID

Referenced by:

GST018DF SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST

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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST01EB8 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



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83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
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101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
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122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



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133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST01EBB V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST01EBC R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

**Name:** GSKT0344TM **Descr:** CONS

**Referenced by:**  
GST0415E CONS

From	To	Text
0		GPS_CONSTELLAT



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37119	N_ScienceDat__GPS_NAV_UTC_and_Ionosp	212	1	48	13	781	Y	50	FIXED	GST018DF	GPS_NAV_UTC_IO		Y	37119	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST018DF	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST01EF7	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST01EF8	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST01EF9	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG0418	SN_V_RMODE	SN_V_RMODE			
	0	4	GST01EFA	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST01EFB	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST01EFC	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST01EFD	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG0419	CONS_ACQSVI_NU3	CONS_ACQSVI_NU3			
	0	3	GST01EFE	CONS	constellation_identifier	UINT	STRING	GSKT0343TM
	3	8	GST01EFF	ACQ_SV_ID	SV_identity_of_download	UINT	INTEGER	Z_IDENTITY
	11	5	GST01F00	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
8	10	16	GST01F01	T_REC	Time_of_reception	UINT	INTEGER	Z_IDENTITY
9	12	16	GST01F02	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
10	14	8	GST01F03	delta_t_ls	delta_time_due_to_leap_seconds	SINT	INTEGER	Z_IDS
11	15	8	GST01F04	t_ot	reference_time_for_UTC_data	UINT	INTEGER	GSKP0012TM
12	16	8	GST01F05	WN_t	UTC_reference_week_number	UINT	INTEGER	Z_IDWK
13	17	8	GST01F06	WN_LSF	UTC_reference_week_number_due_to_leap_seconds	UINT	INTEGER	Z_IDWK
14	18	8	GST01F07	DN	Day_number	UINT	INTEGER	Z_IDENTITY
15	19	8	GST01F08	delta_t_LSF	delta_time_due_to_leap_seconds	SINT	INTEGER	Z_IDS
16	20	32	GST01F09	A_0	polynomial_constants	SINT	INTEGER	GSKP0038TM
17	24	32	GST01F0A	A_1	polynomial_constants	SINT	INTEGER	GSKP0039TM
18	28	8	GST01F0B	alpha0	lonosphere_parameter	SINT	INTEGER	GSKP0040TM
19	29	8	GST01F0C	alpha1	lonosphere_parameter	SINT	INTEGER	GSKP0041TM
20	30	8	GST01F0D	alpha2	lonosphere_parameter	SINT	INTEGER	GSKP0042TM
21	31	8	GST01F0E	alpha3	lonosphere_parameter	SINT	INTEGER	GSKP0043TM
22	32	8	GST01F0F	beta0	lonosphere_parameter	SINT	INTEGER	GSKP0044TM
23	33	8	GST01F10	beta1	lonosphere_parameter	SINT	INTEGER	GSKP0045TM
24	34	8	GST01F11	beta2	lonosphere_parameter	SINT	INTEGER	GSKP0046TM



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatn	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37119	N_ScienceDat__GPS_NAV.UTC_and_Ionosp	212	1	48	13	781	Y	50	FIXED	GST018DF	GPS_NAV.UTC_IO		Y	37119	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
25	35	8	GST01F12	beta3	lonosphere_parameter	SINT	INTEGER	GSKP0047TM





**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

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**Name:** GSKP0012TM **Descr:** t\_oa

**Referenced by:**

**Unit:** s X Y

GST01F04 t\_ot

**Modelname:** GENERIC

0 0  
255 1044480

**Name:** GSKP0038TM **Descr:** A\_0

**Referenced by:**

**Unit:** s X Y

GST01F09 A\_0

**Modelname:** GENERIC

-2147483648 -2  
2147483647 1.999999999069

**Name:** GSKP0039TM **Descr:** A\_1

**Referenced by:**

**Unit:** s/s X Y

GST01F0A A\_1

**Modelname:** GENERIC

-8388608 -7.4505806E-09  
8388607 7.45057971E-09

**Name:** GSKP0040TM **Descr:** alpha0

**Referenced by:**

**Unit:** s X Y

GST01F0B alpha0

**Modelname:** GENERIC

-128 -0.00000011920929  
127 0.000000118277967

**Name:** GSKP0041TM **Descr:** alpha1

**Referenced by:**

**Unit:** s/sc X Y

GST01F0C alpha1

**Modelname:** GENERIC

-128 -0.00000095367432  
127 0.000000946223736

**Name:** GSKP0042TM **Descr:** alpha2

**Referenced by:**

**Unit:** s/c2 X Y

GST01F0D alpha2

**Modelname:** GENERIC

-128 -0.0000076293945  
127 0.00000756978989

**Name:** GSKP0043TM **Descr:** alpha3

**Referenced by:**

**Unit:** s/c3 X Y

GST01F0E alpha3

**Modelname:** GENERIC

-128 -0.0000076293945  
127 0.00000756978989

**Name:** GSKP0044TM **Descr:** beta0

**Referenced by:**

**Unit:** s X Y

GST01F0F beta0

**Modelname:** GENERIC

-128 -262144  
127 260096



**Sentinel-2**  
**SRDB Database Extract**  
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**Name:** GSKP0045TM **Descr:** beta1

**Unit:** s/sc X Y

**Modelname:** GENERIC

-128 -2097152  
127 2080768

**Referenced by:**

GST01F10 beta1

**Name:** GSKP0046TM **Descr:** beta2

**Unit:** s/c2 X Y

**Modelname:** GENERIC

-128 -8388608  
127 8323072

**Referenced by:**

GST01F11 beta2

**Name:** GSKP0047TM **Descr:** beta3

**Unit:** s/c3 X Y

**Modelname:** GENERIC

-128 -8388608  
127 8323072

**Referenced by:**

GST01F12 beta3

**Name:** Z\_IDS **Descr:** Identity [s]

**Unit:** s X Y

**Modelname:** GENERIC

**Referenced by:**

GST01F03 delta\_t\_Is  
GST01F08 delta\_t\_LSF

**Name:** Z\_IDWK **Descr:** Identity weeks [-]

**Unit:** wk X Y

**Modelname:** GENERIC

**Referenced by:**

GST01F05 WN\_t  
GST01F06 WN\_LSF



**Sentinel-2**  
**SRDB Database Extract**  
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Name: GSKT0293TM Descr: SID

Referenced by:  
GST018DF SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST

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**Sentinel-2**  
**SRDB Database Extract**  
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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST01EF8 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

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Comment/Unit:  
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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST01EFB V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST01EFC R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

**Name:** GSKT0343TM **Descr:** CONS

**Referenced by:**  
GST01EFE CONS

From	To	Text
0		GPS_CONSTELLAT





## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37120	N_SciDa__ScienceDataReport__Auxiliary_8_	212	1	48	6	774	Y	54	FIXED	GST01688	SENTINEL_AUX		Y	37120	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST01688	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST01F27	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST01F28	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST01F29	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG041A	SN_V_RMODE	SN_V_RMODE			
	0	4	GST01F2A	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST01F2B	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST01F2C	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST01F2D	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG0862	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
	0	3	GST04054	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel__	UINT	STRING	GSKT0301TM
	3	8	GST01F2F	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST01F30	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
	12	4	GST01F31	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
8	10	8	GST01F32	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
9	11	8	GSTG041C	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			
	0	2	GST01F33	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
	2	1	GST01F34	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
	3	1	GST01F35	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
	4	1	GST01F36	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM
	5	1	GST01F37	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
	6	1	GST01F38	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
	7	1	GST01F39	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM
10	12	16	GSTG0863	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
	0	3	GST04055	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel__	UINT	STRING	GSKT0301TM
	3	8	GST01F3B	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST01F3C	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
	12	4	GST01F3D	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
11	14	8	GST01F3E	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
12	15	8	GSTG041E	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			



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TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37120	N_SciDa__ScienceDataReport__Auxiliary_8_	212	1	48	6	774	Y	54	FIXED	GST01688	SENTINEL_AUX		Y	37120	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
13	16	0	GST01F3F	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
		2	GST01F40	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
		3	GST01F41	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
		4	GST01F42	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM
		5	GST01F43	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
		6	GST01F44	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
		7	GST01F45	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM
	18	16	GSTG0864	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
		0	GST04056	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel_	UINT	STRING	GSKT0301TM
		3	GST01F47	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
		11	GST01F48	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
		12	GST01F49	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
		8	GST01F4A	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
14	19	8	GSTG0420	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			
15	20	0	GST01F4B	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
		2	GST01F4C	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
		3	GST01F4D	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
		4	GST01F4E	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM
		5	GST01F4F	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
		6	GST01F50	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
		7	GST01F51	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM
	22	16	GSTG0865	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
		0	GST04057	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel_	UINT	STRING	GSKT0301TM
		3	GST01F53	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
		11	GST01F54	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
		12	GST01F55	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
		8	GST01F56	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
16	23	8	GSTG0422	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			
17	23	0	GST01F57	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
		2	GST01F58	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
		3	GST01F59	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
		4	GST01F5A	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37120	N_SciDa__ScienceDataReport__Auxiliary_8_	212	1	48	6	774	Y	54	FIXED	GST01688	SENTINEL_AUX		Y	37120	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
19	5	1	GST01F5B	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
	6	1	GST01F5C	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
	7	1	GST01F5D	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM
	24	16	GSTG0866	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
	0	3	GST04058	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel_	UINT	STRING	GSKT0301TM
	3	8	GST01F5F	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST01F60	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
20	12	4	GST01F61	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
	26	8	GST01F62	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
	27	8	GSTG0424	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			
22	0	2	GST01F63	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
	2	1	GST01F64	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
	3	1	GST01F65	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
	4	1	GST01F66	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM
	5	1	GST01F67	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
	6	1	GST01F68	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
	7	1	GST01F69	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM
	28	16	GSTG0867	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
	0	3	GST04059	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel_	UINT	STRING	GSKT0301TM
	3	8	GST01F6B	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
23	11	1	GST01F6C	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
	12	4	GST01F6D	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
	30	8	GST01F6E	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
24	31	8	GSTG0426	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			
	0	2	GST01F6F	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
	2	1	GST01F70	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
	3	1	GST01F71	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
	4	1	GST01F72	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM
	5	1	GST01F73	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
	6	1	GST01F74	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
	7	1	GST01F75	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37120	N_SciDa__ScienceDataReport__Auxiliary_8_	212	1	48	6	774	Y	54	FIXED	GST01688	SENTINEL_AUX		Y	37120	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
25	32	16	GSTG0868	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
	0	3	GST0405A	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel_	UINT	STRING	GSKT0301TM
	3	8	GST01F77	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST01F78	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
	12	4	GST01F79	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
26	34	8	GST01F7A	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
27	35	8	GSTG0428	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			
	0	2	GST01F7B	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
	2	1	GST01F7C	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
	3	1	GST01F7D	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
	4	1	GST01F7E	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM
	5	1	GST01F7F	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
	6	1	GST01F80	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
	7	1	GST01F81	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM
28	36	16	GSTG0869	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
	0	3	GST0405B	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel_	UINT	STRING	GSKT0301TM
	3	8	GST01F83	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST01F84	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
	12	4	GST01F85	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
29	38	8	GST01F86	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
30	39	8	GSTG042A	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			
	0	2	GST01F87	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
	2	1	GST01F88	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
	3	1	GST01F89	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
	4	1	GST01F8A	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM
	5	1	GST01F8B	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
	6	1	GST01F8C	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
	7	1	GST01F8D	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM



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Name: GSKT0168TM Descr: AS

**Referenced by:**

From	To	Text
		GST01F30 AS
		GST01F3C AS
		GST01F48 AS
		GST01F54 AS
		GST01F60 AS
		GST01F6C AS
		GST01F78 AS
		GST01F84 AS

0	ANTI-SPOOF_OFF
1	ANTI-SPOOF_ON

Name: GSKT0275TM Descr: MFC\_TS

**Referenced by:**

From	To	Text
		GST01F32 MFC_TS
		GST01F3E MFC_TS
		GST01F4A MFC_TS
		GST01F56 MFC_TS
		GST01F62 MFC_TS
		GST01F6E MFC_TS
		GST01F7A MFC_TS
		GST01F86 MFC_TS

0	NO_MEASDATA_AV
1	CODE_ACQUISITI
2	CODE_ACQUISITI
3	CODE_TRACKING_
4	CODE_AND_CARRI
5	CODE_AND_CARRI
6	FINAL_TRACKING
7	FINAL_TRACKING
8	FINAL_TRACKING
9	FINAL_TRACKING
10	FINAL_TRACKING
11	FINAL_TRACKING

Name: GSKT0276TM Descr: NDS

**Referenced by:**

From	To	Text
		GST01F33 NDS
		GST01F3F NDS
		GST01F4B NDS
		GST01F57 NDS
		GST01F63 NDS
		GST01F6F NDS
		GST01F7B NDS
		GST01F87 NDS

0	NOT_SYNC
1	SYNC_NAVDATA_N
2	INVALID
3	SYNC_NAVDATA_I



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**Name:** GSKT0277TM **Descr:** C3

**Referenced by:**

From	To	Text
		GST01F34 C3
		GST01F40 C3
		GST01F4C C3
		GST01F58 C3
		GST01F64 C3
		GST01F70 C3
		GST01F7C C3
		GST01F88 C3

0	NO_CODE_LOCK
1	P2_CODE_LOCK

**Name:** GSKT0278TM **Descr:** C2

**Referenced by:**

From	To	Text
		GST01F35 C2
		GST01F41 C2
		GST01F4D C2
		GST01F59 C2
		GST01F65 C2
		GST01F71 C2
		GST01F7D C2
		GST01F89 C2

0	NO_CODE_LOCK
1	P1CM_CODE_LOCK

**Name:** GSKT0279TM **Descr:** C1

**Referenced by:**

From	To	Text
		GST01F36 C1
		GST01F42 C1
		GST01F4E C1
		GST01F5A C1
		GST01F66 C1
		GST01F72 C1
		GST01F7E C1
		GST01F8A C1

0	NO_CODE_LOCK
1	CA_CODE_LOCK



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**Name:** GSKT0280TM **Descr:** A3

**Referenced by:**

**From To Text**

GST01F37 A3  
GST01F43 A3  
GST01F4F A3  
GST01F5B A3  
GST01F67 A3  
GST01F73 A3  
GST01F7F A3  
GST01F8B A3

0 NO\_CARRIER\_LOC  
1 L2\_CARRIER\_LOC

**Name:** GSKT0281TM **Descr:** A2

**Referenced by:**

**From To Text**

GST01F38 A2  
GST01F39 A1  
GST01F44 A2  
GST01F45 A1  
GST01F50 A2  
GST01F51 A1  
GST01F5C A2  
GST01F5D A1  
GST01F68 A2  
GST01F69 A1  
GST01F74 A2  
GST01F75 A1  
GST01F80 A2  
GST01F81 A1  
GST01F8C A2  
GST01F8D A1

0 NO\_CARRIER\_LOC  
1 L1\_CARRIER\_LOC



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**Name:** GSKT0293TM **Descr:** SID

**Referenced by:**

GST01688 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST

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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST01F28 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST01F2B V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST01F2C R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE



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**Name:** GSKT0301TM **Descr:** SCHEME

**Referenced by:**

**From To Text**

GST04054 SCHEME  
GST04055 SCHEME  
GST04056 SCHEME  
GST04057 SCHEME  
GST04058 SCHEME  
GST04059 SCHEME  
GST0405A SCHEME  
GST0405B SCHEME

0 L1CA-L1PY-L2PY  
1 L1CA-L1CA  
2 L1CA-L2CM

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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37209	R_ScienceDataReport__SatellitesInView	212	1	49	6	790	Y	50	VAR_W	GST0B617	SAT_IN_VIEW		Y	37209	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST0B617	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST0B618	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0B619	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0B61A	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG1AAA	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0B61B	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST0B61C	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0B61D	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0B61E	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG1AAB	CONS_SVID_BLOCK__	CONS_SVID_BLOCK_E_B			
	0	3	GST0B61F	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0B620	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	3	GST0B621	BLOCK	GPS_SV_Block_type	UINT	STRING	GSKT0214TM
	14	1	GST0B622	E	Ephemeris_data_available	UINT	STRING	GSKT0215TM
	15	1	GST0B623	B	SV_temporarily_banned_flag	UINT	STRING	GSKT0216TM
8	10	8	GSTG1AAC	ANT_X_N_M_S	ANT_X_N_M_S			
	0	4	GST0B624	ANT	antenna_identifier	UINT	STRING	GSKT0217TM
	4	1	GST0B625	X	SV_is_excluded_by_user	UINT	STRING	GSKT0218TM
	5	1	GST0B626	N	SV_is_used_for_navigation_solution	UINT	STRING	GSKT0219TM
	6	1	GST0B627	M	multipath_mitigation_masking	UINT	STRING	GSKT0220TM
	7	1	GST0B628	S	GNSS_SV_antenna_masking	UINT	STRING	GSKT0221TM
9	11	8	GST0B629	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0222TM
10	12	8	GSTG1AAD	URA_AL_FP_NU2	URA_AL_FP_NU2			
	0	5	GST0B62A	URA	User_range_accuracy_index	UINT	INTEGER	Z_IDENTITY
	5	1	GST0B62B	AL	alert_flag	UINT	INTEGER	Z_IDENTITY
	6	1	GST0B62C	FP	Force_P_Y_tracking_flag	UINT	STRING	GSKT0223TM
	7	1	GST0B62D	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
11	13	8	GSTG1AAE	H1_H2_NU3	H1_H2_NU3			
	0	1	GST0B62E	H1	Signal_and_data_health_for_1st_band	UINT	STRING	GSKT0224TM
	1	1	GST0B62F	H2	Signal_and_data_health_for_2nd_band	UINT	STRING	GSKT0225TM
	2	6	GST0B630	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
12	14	32	GST0B631	PSEUDO_R_MSB	measured_pseudo_range_MSB_part	UINT	INTEGER	GSKP0347TM



# Sentinel-2

## SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37209	R_ScienceDataReport__SatellitesInView	212	1	49	6	790	Y	50	VAR_W	GST0B617	SAT_IN_VIEW		Y	37209	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
13	18	16	GST0B632	PSEUDO_R_LSB	measured_pseudo_range_LSB_part	UINT	INTEGER	Z_IDMM
14	20	32	GST0B633	DELTA_R	measured_delta_range	SINT	INTEGER	GSKP0226TM
15	24	16	GST0B634	ZENITH_t0	zenith_angle_at_time_t0	UINT	INTEGER	GSKP0227TM
16	26	16	GST0B635	AZ_t0	azimuth_angle_at_time_t0	SINT	INTEGER	GSKP0228TM
17	28	16	GST0B636	ZENITH_t1	zenith_angle_at_time_t1	UINT	INTEGER	GSKP0227TM
18	30	16	GST0B637	AZ_t1	azimuth_angle_at_time_t1	SINT	INTEGER	GSKP0228TM
19	32	16	GST0B638	ATT_UNC	Attitude_uncertainty	UINT	INTEGER	GSKP0229TM
20	34	16	GST0B639	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY





# Sentinel-2

## SRDB Database Extract

### TM Numerical Calibration Curves

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**Name:** GSKP0226TM **Descr:** DELTA\_RNG

**Referenced by:**

**Unit:** m/s X Y

GST0B633 DELTA\_R

**Modelname:** GENERIC

-2147483648

-21474.83648

2147483647

21474.83647

**Name:** GSKP0227TM **Descr:** ZENITH\_t0

**Referenced by:**

**Unit:** deg X Y

GST0B634 ZENITH\_t0

GST0B636 ZENITH\_t1

**Modelname:** GENERIC

0

0

65535

655.35

**Name:** GSKP0228TM **Descr:** AZ\_t0

**Referenced by:**

**Unit:** deg X Y

GST0B635 AZ\_t0

GST0B637 AZ\_t1

**Modelname:** GENERIC

-32768

-327.68

32767

327.67

**Name:** GSKP0229TM **Descr:** ATT\_UNC

**Referenced by:**

**Unit:** deg X Y

GST0B638 ATT\_UNC

**Modelname:** GENERIC

0

0

65535

65.535

**Name:** GSKP0347TM **Descr:** MaxPosErrAlm

**Referenced by:**

**Unit:** m X Y

GST0B631 PSEUDO\_R\_MSB

**Modelname:** GENERIC

0

0

4294967295

4294967.295

**Name:** Z\_IDMM **Descr:** Identity millimetre [mm]

**Referenced by:**

**Unit:** mm X Y

GST0B632 PSEUDO\_R\_LSB

**Modelname:** GENERIC



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## SRDB Database Extract

TM Textual Calibration Curves

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Name: GSKT0214TM Descr: BLOCK

Referenced by:  
GST0B621 BLOCK

From	To	Text
0		BLOCK_I
1		BLOCK_IIIIAIR
2		BLOCK_IIR-M
3		BLOCK_IIF
7		BLOCK_UNKNOWN

Name: GSKT0215TM Descr: E

Referenced by:  
GST0B622 E

From	To	Text
0		NO_EPHEMERIS_A
1		EPHEMERIS_AVAI

Name: GSKT0216TM Descr: B

Referenced by:  
GST0B623 B

From	To	Text
0		SV_NOT_BANNED
1		SV_TEMP_BANNED

Name: GSKT0217TM Descr: ANT

Referenced by:  
GST0B624 ANT

From	To	Text
0		FIRST_ANTENNA
1		SECOND_ANTENNA

Name: GSKT0218TM Descr: X

Referenced by:  
GST0B625 X

From	To	Text
0		SV_NOT_EXCLUDE
1		SV_EXCLUDED

Name: GSKT0219TM Descr: N

Referenced by:  
GST0B626 N

From	To	Text
0		SV_NOT_USED_FO
1		SV_USED_FOR_NA

Name: GSKT0220TM Descr: M

Referenced by:  
GST0B627 M

From	To	Text
0		SV_NOT_EXCLUDE
1		SV_EXCLUDED_DU

Name: GSKT0221TM Descr: S

Referenced by:  
GST0B628 S

From	To	Text
0		SV_NOT_EXCLUDE
1		SV_EXCLUDED_DU



**Sentinel-2**  
**SRDB Database Extract**  
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**Name:** GSKT0222TM **Descr:** MFC\_TS

**Referenced by:**  
GST0B629 MFC\_TS

From	To	Text
0		NO_MEASDATA_AV
1		CODE_ACQUISITI
2		CODE_ACQUISITI
3		CODE_TRACKING_
4		CODE_AND_CARRI
5		CODE_AND_CARRI
6		FINAL_TRACKING
7		FINAL_TRACKING
8		FINAL_TRACKING
9		FINAL_TRACKING
10		FINAL_TRACKING
11		FINAL_TRACKING

**Name:** GSKT0223TM **Descr:** FP

**Referenced by:**  
GST0B62C FP

From	To	Text
0		L2CM_USED
1		PY_USED

**Name:** GSKT0224TM **Descr:** H1

**Referenced by:**  
GST0B62E H1

From	To	Text
0		L1_AND_DATA_HE
1		L1_OR_DATA_UNH

**Name:** GSKT0225TM **Descr:** H2

**Referenced by:**  
GST0B62F H2

From	To	Text
0		L2_AND_DATA_HE
1		L2_OR_DATA_UNH



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Name: GSKT0293TM Descr: SID

Referenced by:  
GST0B617 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST

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**Sentinel-2**  
**SRDB Database Extract**  
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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0B619 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
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Date: 11.02.2013  
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Database: SISS2CSW  
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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99





**Sentinel-2**  
**SRDB Database Extract**  
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Date: 11.02.2013  
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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST0B61C V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST0B61D R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

**Name:** GSKT0345TM **Descr:** CONS

**Referenced by:**  
GST0B61F CONS

From	To	Text
0		GPS_CONSTELLAT



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37210	R_SciDa__ScienceDataReport__CarrierPhase	212	1	49	6	790	Y	38	VAR_W	GST0B617	CARR_PHASE		Y	37210	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST0B617	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST0B64D	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0B64E	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0B64F	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG1AAF	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0B650	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST0B651	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0B652	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0B653	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG1AB0	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0B654	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0B655	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0B656	SIG	Signal_type	UINT	STRING	GSKT0230TM
8	10	8	GSTG1AB1	ANT_D_NU2	ANT_D_NU2			
	0	4	GST0B657	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	1	GST0B658	D	Deterioration_flag	UINT	STRING	GSKT0232TM
	5	3	GST0B659	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
9	11	8	GST0B65A	SF_CHN	channel_number	UINT	INTEGER	Z_IDENTITY
10	12	32	GST0B65B	NCO_PHASE_MSB	Carrier_cycle_count_and_Carrier_NCO_phase_MSB_part	SINT	INTEGER	GSKP0233TM
11	16	32	GST0B65C	NCO_PHASE_LSB	Carrier_cycle_count_and_Carrier_NCO_phase_LSB_part	UINT	INTEGER	GSKP0234TM
12	20	32	GST0B65D	DELTA_RNG	Delta_range	SINT	INTEGER	GSKP0226TM



**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

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**Name:** GSKP0226TM **Descr:** DELTA\_RNG

**Referenced by:**

**Unit:** m/s X Y

GST0B65D DELTA\_RNG

**Modelname:** GENERIC

-2147483648 -21474.83648  
2147483647 21474.83647

**Name:** GSKP0233TM **Descr:** NCO\_PHASE\_MSB

**Referenced by:**

**Unit:** cacy X Y

GST0B65B NCO\_PHASE\_MSB

**Modelname:** GENERIC

-2147483648 -524288  
2147483647 524287.9997559

**Name:** GSKP0234TM **Descr:** NCO\_PHASE\_LSB

**Referenced by:**

**Unit:** cacy X Y

GST0B65C NCO\_PHASE\_LSB

**Modelname:** GENERIC

0 0  
4294967295 1048575.999756



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## SRDB Database Extract

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Name: GSKT0230TM Descr: SIG

Referenced by:

GST0B656 SIG

From	To	Text
0		GPS_L1_CA
1		GPS_L1_P
2		GPS_L2_CA
3		GPS_L2_P
4		GPS_L2_CM
5		GPS_L2_CL
6		NO_SIGNAL

Name: GSKT0231TM Descr: ANT

Referenced by:

GST0B657 ANT

From	To	Text
0		FIRST_ANTENNA
1		SECOND_ANTENNA

Name: GSKT0232TM Descr: D

Referenced by:

GST0B658 D

From	To	Text
0		STEADY_CARRIER
1		UNSTEADY_CARRI

Name: GSKT0293TM Descr: SID

Referenced by:

GST0B617 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



**Sentinel-2**  
**SRDB Database Extract**  
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Date: 11.02.2013  
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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0B64E FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

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Comment/Unit:  
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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99





**Sentinel-2**  
**SRDB Database Extract**  
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Date: 11.02.2013  
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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST0B651 V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST0B652 R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

**Name:** GSKT0345TM **Descr:** CONS

**Referenced by:**  
GST0B654 CONS

From	To	Text
0		GPS_CONSTELLAT



# Sentinel-2

## SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37211	R_SciData__ScienceDataReport__CodePhas	212	1	49	6	790	Y	34	VAR_W	GST0B617	CODE_PHASE		Y	37211	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST0B617	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST0B672	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0B673	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0B674	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG1AB2	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0B675	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST0B676	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0B677	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0B678	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG1AB3	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0B679	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0B67A	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0B67B	SIG	Signal_type	UINT	STRING	GSKT0230TM
8	10	8	GSTG1AB4	ANT_D_S_NU2	ANT_D_S_NU2			
	0	4	GST0B67C	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	1	GST0B67D	D	Deterioration_flag	UINT	STRING	GSKT0232TM
	5	1	GST0B67E	S	Smoothing_flag	UINT	STRING	GSKT0235TM
	6	2	GST0B67F	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
9	11	8	GST0B680	SF_CHN	channel_number	UINT	INTEGER	Z_IDENTITY
10	12	32	GST0B681	CC_MSB	Chip_count_MSB_part	UINT	INTEGER	Z_IDCOCH
11	16	16	GST0B682	CC_LSB	Chip_count_LSB_part	UINT	INTEGER	Z_IDCOCH
12	18	16	GST0B683	FP	Code_phase_fractional_part	UINT	INTEGER	GSKP0123TM



**Sentinel-2**  
**SRDB Database Extract**  
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**Name:** GSKP0123TM **Descr:** INITIAL\_CP

**Referenced by:**

**Unit:** coch X Y

GST0B683 FP

**Modelname:** GENERIC

0 0  
65535 0.999984741211

**Name:** Z\_IDCOCH **Descr:** Identity with unit coch

**Referenced by:**

**Unit:** coch X Y

GST0B681 CC\_MSB

GST0B682 CC\_LSB

**Modelname:** GENERIC



**Sentinel-2**  
**SRDB Database Extract**  
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**Name:** GSKT0230TM **Descr:** SIG

**Referenced by:**

GST0B67B SIG

From	To	Text
0		GPS_L1_CA
1		GPS_L1_P
2		GPS_L2_CA
3		GPS_L2_P
4		GPS_L2_CM
5		GPS_L2_CL
6		NO_SIGNAL

**Name:** GSKT0231TM **Descr:** ANT

**Referenced by:**

GST0B67C ANT

From	To	Text
0		FIRST_ANTENNA
1		SECOND_ANTENNA

**Name:** GSKT0232TM **Descr:** D

**Referenced by:**

GST0B67D D

From	To	Text
0		STEADY_CARRIER
1		UNSTEADY_CARRI

**Name:** GSKT0235TM **Descr:** S

**Referenced by:**

GST0B67E S

From	To	Text
0		SMOOTHING_NOT_
1		SMOOTHING_APPL

**Name:** GSKT0293TM **Descr:** SID

**Referenced by:**

GST0B617 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



**Sentinel-2**  
**SRDB Database Extract**  
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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0B673 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99





**Sentinel-2**  
**SRDB Database Extract**  
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Date: 11.02.2013  
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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST0B676 V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST0B677 R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

**Name:** GSKT0345TM **Descr:** CONS

**Referenced by:**  
GST0B679 CONS

From	To	Text
0		GPS_CONSTELLAT



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37212	R_Sci__ScienceDataReport__S1_NavSolution	212	1	49	11	795	Y	118	FIXED	GST0B686	MIN_NAV_SOL		Y	37212	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST0B686	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST0B698	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0B699	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0B69A	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG1AB5	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0B69B	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST0B69C	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0B69D	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0B69E	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	32	GST0B69F	GPST_SEC	seconds	UINT	INTEGER	Z_IDS
8	12	32	GST0B6A0	GPST_SUBSEC	fractions_of_a_second	UINT	INTEGER	GSKP0048TM
9	16	16	GSTG1AB6	NU3_NSM_QUALIN	NU3_NSM_QUALIN			
	0	1	GST0B6A1	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	1	3	GST0B6A2	NSM	Navigation_solution_method	UINT	STRING	GSKT0204TM
	4	12	GST0B6A3	QUAL_INDEX	Quality_index	UINT	INTEGER	Z_IDM
10	18	16	GST0B6A4	GDOP	Geometrical_dilution_of_precision	UINT	INTEGER	GSKP0205TM
11	20	16	GSTG1AB7	MAXURA_MAXFIT_NU	MAXURA_MAXFIT_NU4_NOFSV			
	0	5	GST0B6A5	MAX_URA	maximum_user_range_accuracy	SINT	INTEGER	Z_IDENTITY
	5	4	GST0B6A6	MAX_FIT	maximum_curve_fit_interval_taken_from_all_SV_B4_s_use d_in_current_navigation_solution	UINT	STRING	GSKT0206TM
	9	3	GST0B6A7	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST0B6A8	NOF_SV	Nof_SVs_contributing_to_the_nav_solution	UINT	INTEGER	Z_IDENTITY
12	22	32	GST0B6A9	POS_X_MSB	X_2D_coordinate_MSB_part	SINT	INTEGER	GSKP0207TM
13	26	16	GST0B6AA	POS_X_LSB	X_2D_coordinate_LSB_part	UINT	INTEGER	Z_IDMM
14	28	32	GST0B6AB	POS_Y_MSB	Y_2D_coordinate_MSB_part	SINT	INTEGER	GSKP0207TM
15	32	16	GST0B6AC	POS_Y_LSB	Y_2D_coordinate_LSB_part	UINT	INTEGER	Z_IDMM
16	34	32	GST0B6AD	POS_Z_MSB	Z_2D_coordinate_MSB_part	SINT	INTEGER	GSKP0207TM
17	38	16	GST0B6AE	POS_Z_LSB	Z_2D_coordinate_LSB_part	UINT	INTEGER	Z_IDMM
18	40	32	GST0B6AF	VEL_X	X_2D_velocity	SINT	INTEGER	GSKP0049TM
19	44	32	GST0B6B0	VEL_Y	Y_2D_velocity	SINT	INTEGER	GSKP0049TM
20	48	32	GST0B6B1	VEL_Z	Z_2D_velocity	SINT	INTEGER	GSKP0049TM



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## SRDB Database Extract

TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37212	R_Sci__ScienceDataReport__S1_NavSolution	212	1	49	11	795	Y	118	FIXED	GST0B686	MIN_NAV_SOL		Y	37212	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
21	52	16	GST0B6B2	PDOP	position_dilution_of_precision	UINT	INTEGER	GSKP0205TM
22	54	16	GST0B6B3	TDOP	time_dilution_of_precision	UINT	INTEGER	GSKP0205TM
23	56	32	GST0B6B4	delta_x	position_error_in_x_direction	SINT	INTEGER	GSKP0207TM
24	60	32	GST0B6B5	delta_y	position_error_in_y_direction	SINT	INTEGER	GSKP0207TM
25	64	32	GST0B6B6	delta_z	position_error_in_z_direction	SINT	INTEGER	GSKP0207TM
26	68	32	GST0B6B7	delta_t	GNSS_system_time_error	SINT	INTEGER	Z_IDNS
27	72	32	GST0B6B8	delta_v_x	velocity_error_in_x_direction	SINT	INTEGER	GSKP0049TM
28	76	32	GST0B6B9	delta_v_y	velocity_error_in_y_direction	SINT	INTEGER	GSKP0049TM
29	80	32	GST0B6BA	delta_v_z	velocity_error_in_z_direction	SINT	INTEGER	GSKP0049TM
30	84	32	GST0B6BB	delta_f	receiver_clock_frequency_error	SINT	INTEGER	GSKP0208TM
31	88	32	GST0B6BC	HEIGHT	height_above_ellipsoid	UINT	INTEGER	GSKP0346TM
32	92	32	GST0B6BD	VERTSPEED	vertical_speed	SINT	INTEGER	GSKP0209TM
33	96	32	GST0B6BE	LONGITUDE	longitude	SINT	INTEGER	GSKP0210TM
34	100	32	GST0B6BF	LATITUDE	latitude	SINT	INTEGER	GSKP0211TM



**Sentinel-2**  
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**Name:** GSKP0048TM **Descr:** PV\_GPST\_SUBSEC

**Referenced by:**

**Unit:** us X Y

GST0B6A0 GPST\_SUBSEC

**Modelname:** GENERIC

0 0  
4294967295 999999.9997672

**Name:** GSKP0049TM **Descr:** VEL\_X

**Referenced by:**

**Unit:** m/s X Y

GST0B6AF VEL\_X  
GST0B6B0 VEL\_Y  
GST0B6B1 VEL\_Z  
GST0B6B8 delta\_v\_x  
GST0B6B9 delta\_v\_y  
GST0B6BA delta\_v\_z

**Modelname:** GENERIC

-2147483648 -2147483.648  
2147483647 2147483.647

**Name:** GSKP0205TM **Descr:** GDOP

**Referenced by:**

**Unit:** X Y

GST0B6A4 GDOP  
GST0B6B2 PDOP  
GST0B6B3 TDOP

**Modelname:** GENERIC

0 0  
65535 655.35

**Name:** GSKP0207TM **Descr:** POS\_X\_MSB

**Referenced by:**

**Unit:** m X Y

GST0B6A9 POS\_X\_MSB  
GST0B6AB POS\_Y\_MSB  
GST0B6AD POS\_Z\_MSB  
GST0B6B4 delta\_x  
GST0B6B5 delta\_y  
GST0B6B6 delta\_z

**Modelname:** GENERIC

-2147483648 -2147483.648  
2147483647 2147483.647

**Name:** GSKP0208TM **Descr:** delta\_f

**Referenced by:**

**Unit:** Hz X Y

GST0B6BB delta\_f

**Modelname:** GENERIC

-2147483648 -2147483.648  
2147483647 2147483.647

**Name:** GSKP0209TM **Descr:** VERTSPEED

**Referenced by:**

**Unit:** mm/s X Y

GST0B6BD VERTSPEED

**Modelname:** GENERIC

-2147483648 -21474836.48  
2147483647 21474836.47



**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

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**Name:** GSKP0210TM **Descr:** LONGITUDE

**Unit:** deg X Y

**Modelname:** GENERIC

-1800000000

1800000000

**Referenced by:**

GST0B6BE LONGITUDE

-180

180

**Name:** GSKP0211TM **Descr:** LATITUDE

**Unit:** deg X Y

**Modelname:** GENERIC

-9000000000

9000000000

**Referenced by:**

GST0B6BF LATITUDE

-90

90

**Name:** GSKP0346TM **Descr:** HEIGHT

**Unit:** m X Y

**Modelname:** GENERIC

0

4294967295

**Referenced by:**

GST0B6BC HEIGHT

0

42949672.95

**Name:** Z\_IDM **Descr:** Identity metre [m]

**Unit:** m X Y

**Modelname:** GENERIC

**Referenced by:**

GST0B6A3 QUAL\_INDEX

**Name:** Z\_IDMM **Descr:** Identity millimetre [mm]

**Unit:** mm X Y

**Modelname:** GENERIC

**Referenced by:**

GST0B6AA POS\_X\_LSB

GST0B6AC POS\_Y\_LSB

GST0B6AE POS\_Z\_LSB

**Name:** Z\_IDNS **Descr:** Identity [ns]

**Unit:** ns X Y

**Modelname:** GENERIC

**Referenced by:**

GST0B6B7 delta\_t

**Name:** Z\_IDS **Descr:** Identity [s]

**Unit:** s X Y

**Modelname:** GENERIC

**Referenced by:**

GST0B69F GPST\_SEC



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

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**Name:** GSKT0204TM **Descr:** NSM

**Referenced by:**  
GST0B6A2 NSM

From	To	Text
1		PROPAGATED
2		FIRST_FIX
3		COLD_FIRST_FIX
4		LEAST_SQUARE
5		KALMAN_FILTER
7		INVALID

**Name:** GSKT0206TM **Descr:** MAX\_FIT

**Referenced by:**  
GST0B6A6 MAX\_FIT

From	To	Text
0		4_H
1		6_H
2		8_H
3		14_H
4		26_H
5		50_H
6		74_H
7		98_H
8		122_H
9		146_H
15		PROPAGATED_PVT

**Name:** GSKT0293TM **Descr:** SID

**Referenced by:**  
GST0B686 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0B699 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2





**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST0B69C V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST0B69D R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37213	R_ScienceDataRepor__IMT_GPST_Correlatio	212	1	49	11	795	Y	42	FIXED	GST0B686	IMT_GPST_CORR		Y	37213	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST0B686	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST0B6D4	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0B6D5	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0B6D6	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG1AB8	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0B6D7	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST0B6D8	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0B6D9	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0B6DA	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG1AB9	NU2_NSM_QUALID	NU2_NSM_QUALID			
	0	1	GST0B6DB	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	1	3	GST0B6DC	NSM	navigation_solution_method	UINT	STRING	GSKT0212TM
	4	12	GST0B6DD	QUAL_IDX	Quality_index	UINT	INTEGER	Z_IDNSOM
8	10	16	GST0B6DE	TDOP	Time_dilution_of_precision	UINT	INTEGER	GSKP0205TM
9	12	32	GST0B6DF	IMT_MSB	Instrument_Measurement_Time_tag_MSB_part	UINT	INTEGER	Z_IDENTITY
10	16	32	GST0B6E0	IMT_LSB	Instrument_Measurement_Time_tag_LSB_part	UINT	INTEGER	Z_IDENTITY
11	20	32	GST0B6E1	GPST_SEC	seconds	UINT	INTEGER	Z_IDS
12	24	32	GST0B6E2	GPST_SUBSEC	fractions_of_a_second	UINT	INTEGER	GSKP0048TM



**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

Date: 11.02.2013  
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**Name:** GSKP0048TM **Descr:** PV\_GPST\_SUBSEC

**Referenced by:**

**Unit:** us X Y

GST0B6E2 GPST\_SUBSEC

**Modelname:** GENERIC

0 0  
4294967295 999999.9997672

**Name:** GSKP0205TM **Descr:** GDOP

**Referenced by:**

**Unit:** X Y

GST0B6DE TDOP

**Modelname:** GENERIC

0 0  
65535 655.35

**Name:** Z\_IDNSOM **Descr:** Identity with unit nsom

**Referenced by:**

**Unit:** nsom X Y

GST0B6DD QUAL\_IDX

**Modelname:** GENERIC

**Name:** Z\_IDS **Descr:** Identity [s]

**Referenced by:**

**Unit:** s X Y

GST0B6E1 GPST\_SEC

**Modelname:** GENERIC



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

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**Name:** GSKT0212TM **Descr:** NSM

**Referenced by:**  
GST0B6DC NSM

From	To	Text
1		PROPAGATED
2		FIRST_FIX
3		COLD_FIRST_FIX
4		LEAST_SQUARE
5		KALMAN_FILTER
7		INVALID

**Name:** GSKT0293TM **Descr:** SID

**Referenced by:**  
GST0B686 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0B6D5 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2





**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST0B6D8 V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST0B6D9 R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37232	R_ScienceDataReport__ConstellationStatus	212	1	49	13	797	Y	26	VAR_W	GST0B86E	CONST_STAT		Y	37232	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST0B86E	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST0B86F	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0B870	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0B871	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG1AC1	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0B872	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST0B873	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0B874	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0B875	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG1AC2	CONS_SVID_AS_X_B	CONS_SVID_AS_X_BLOCK			
	0	3	GST0B876	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0B877	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST0B878	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
	12	1	GST0B879	X	SV_excluded_by_ground_command	UINT	STRING	GSKT0169TM
	13	3	GST0B87A	BLOCK	GPS_SV_Block_type	UINT	STRING	GSKT0170TM
8	10	8	GSTG1AC3	AN_EN_CN_DN_AC_E	AN_EN_CN_DN_AC_EC_CC_DC			
	0	1	GST0B87B	AN	almanac_data_from_NAV_message_available	UINT	STRING	GSKT0171TM
	1	1	GST0B87C	EN	Ephemeris_data_from_NAV_message_available	UINT	STRING	GSKT0171TM
	2	1	GST0B87D	CN	Clock_correction_data_from_NAV_message_available	UINT	STRING	GSKT0171TM
	3	1	GST0B87E	DN	Differential_correction_data_from_NAV_message_availabl e	UINT	STRING	GSKT0171TM
	4	1	GST0B87F	AC	almanac_data_from_CNAV_message_available	UINT	STRING	GSKT0171TM
	5	1	GST0B880	EC	Ephemeris_data_from_CNAV_message_available	UINT	STRING	GSKT0171TM
	6	1	GST0B881	CC	Clock_correction_data_from_CNAV_message_available	UINT	STRING	GSKT0171TM
	7	1	GST0B882	DC	Differential_correction_data_from_CNAV_message_availab le	UINT	STRING	GSKT0171TM
9	11	8	GSTG1AC4	GC_FP_HEALTH	GC_FP_HEALTH			
	0	1	GST0B883	GC	Group_delay_data_from_CNAV_message_available	UINT	STRING	GSKT0172TM
	1	1	GST0B884	FP	Force_P_Y_tracking_flag	UINT	STRING	GSKT0173TM
	2	6	GST0B885	HEALTH	SV_health	UINT	INTEGER	Z_IDENTITY



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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**Name:** GSKT0168TM **Descr:** AS

**Referenced by:**  
GST0B878 AS

From	To	Text
0		ANTI-SPOOF_OFF
1		ANTI-SPOOF_ON

**Name:** GSKT0169TM **Descr:** X

**Referenced by:**  
GST0B879 X

From	To	Text
0		SV_EXCLUDED
1		SV_INCLUDED

**Name:** GSKT0170TM **Descr:** BLOCK

**Referenced by:**  
GST0B87A BLOCK

From	To	Text
0		BLOCK_I
1		BLOCK_IIIIAIR
2		BLOCK_IIR-M
3		BLOCK_IIF
7		BLOCK_UNKNOWN

**Name:** GSKT0171TM **Descr:** AN

**Referenced by:**  
GST0B87B AN  
GST0B87C EN  
GST0B87D CN  
GST0B87E DN  
GST0B87F AC  
GST0B880 EC  
GST0B881 CC  
GST0B882 DC

From	To	Text
0		NOT_AVAILABLE
1		AVAILABLE

**Name:** GSKT0172TM **Descr:** GC

**Referenced by:**  
GST0B883 GC

From	To	Text
0		NOT_AVAILABLE
1		AVAILABLE

**Name:** GSKT0173TM **Descr:** FP

**Referenced by:**  
GST0B884 FP

From	To	Text
0		L2CM_USED
1		PY_USED



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Name: GSKT0293TM Descr: SID

Referenced by:  
GST0B86E SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST

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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0B870 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2





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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST0B873 V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST0B874 R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

**Name:** GSKT0345TM **Descr:** CONS

**Referenced by:**  
GST0B876 CONS

From	To	Text
0		GPS_CONSTELLAT



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37233	R_ScienceDataReport__TrackingState_8_	212	1	49	12	796	Y	118	FIXED	GST0BA77	TRACKING_STATE		Y	37233	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST0BA77	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST0BA89	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0BA8A	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0BA8B	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG1B22	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0BA8C	SN	Serial_Number__not_used_	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BA8D	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0BA8E	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0BA8F	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG1B23	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST0BA90	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BA91	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST0BA92	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST0BA93	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
8	10	8	GST0BA94	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM
9	11	8	GST0BA95	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
10	12	8	GSTG1B24	NU3_SIG1	NU3_SIG1			
	0	3	GST0BA96	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BA97	SIG1	signal_type_being_processed_on_the_first_SFC_within_th e_MFC	UINT	STRING	GSKT0251TM
11	13	8	GST0BA98	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
12	14	8	GSTG1B25	NU4_SIG2	NU4_SIG2			
	0	3	GST0BA99	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BA9A	SIG2	signal_type_being_processed_on_the_second_SFC_within _the_MFC	UINT	STRING	GSKT0252TM
13	15	8	GST0BA9B	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
14	16	8	GSTG1B26	NU5_SIG3	NU5_SIG3			
	0	3	GST0BA9C	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BA9D	SIG3	signal_type_being_processed_on_the_third_SFC_within_th e_MFC	UINT	STRING	GSKT0253TM
15	17	8	GST0BA9E	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
16	18	16	GST0BA9F	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37233	R_ScienceDataReport__TrackingState_8_	212	1	49	12	796	Y	118	FIXED	GST0BA77	TRACKING_STATE		Y	37233	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
17	20	16	GSTG1B27	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST0BAA0	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BAA1	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST0BAA2	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST0BAA3	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
18	22	8	GST0BAA4	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM
19	23	8	GST0BAA5	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
20	24	8	GSTG1B28	NU3_SIG1	NU3_SIG1			
	0	3	GST0BAA6	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BAA7	SIG1	signal_type_being_processed_on_the_first_SFC_within_th e_MFC	UINT	STRING	GSKT0251TM
21	25	8	GST0BAA8	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
22	26	8	GSTG1B29	NU4_SIG2	NU4_SIG2			
	0	3	GST0BAA9	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BAAA	SIG2	signal_type_being_processed_on_the_second_SFC_within _the_MFC	UINT	STRING	GSKT0252TM
23	27	8	GST0BAAB	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
24	28	8	GSTG1B2A	NU5_SIG3	NU5_SIG3			
	0	3	GST0BAAC	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BAAD	SIG3	signal_type_being_processed_on_the_third_SFC_within_th e_MFC	UINT	STRING	GSKT0253TM
25	29	8	GST0BAAE	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
26	30	16	GST0BAAF	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY
27	32	16	GSTG1B2B	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST0BAB0	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BAB1	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST0BAB2	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST0BAB3	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
28	34	8	GST0BAB4	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM
29	35	8	GST0BAB5	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
30	36	8	GSTG1B2C	NU3_SIG1	NU3_SIG1			
	0	3	GST0BAB6	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37233	R_ScienceDataReport__TrackingState_8_	212	1	49	12	796	Y	118	FIXED	GST0BA77	TRACKING_STATE		Y	37233	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	3	5	GST0BAB7	SIG1	signal_type_being_processed_on_the_first_SFC_within_the_MFC	UINT	STRING	GSKT0251TM
31	37	8	GST0BAB8	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
32	38	8	GSTG1B2D	NU4_SIG2	NU4_SIG2			
	0	3	GST0BAB9	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BABA	SIG2	signal_type_being_processed_on_the_second_SFC_within_the_MFC	UINT	STRING	GSKT0252TM
33	39	8	GST0BABB	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
34	40	8	GSTG1B2E	NU5_SIG3	NU5_SIG3			
	0	3	GST0BABC	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BABD	SIG3	signal_type_being_processed_on_the_third_SFC_within_the_MFC	UINT	STRING	GSKT0253TM
35	41	8	GST0BABE	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
36	42	16	GST0BABF	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY
37	44	16	GSTG1B2F	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST0BAC0	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BAC1	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST0BAC2	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST0BAC3	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
38	46	8	GST0BAC4	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM
39	47	8	GST0BAC5	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
40	48	8	GSTG1B30	NU3_SIG1	NU3_SIG1			
	0	3	GST0BAC6	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BAC7	SIG1	signal_type_being_processed_on_the_first_SFC_within_the_MFC	UINT	STRING	GSKT0251TM
41	49	8	GST0BAC8	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
42	50	8	GSTG1B31	NU4_SIG2	NU4_SIG2			
	0	3	GST0BAC9	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BACA	SIG2	signal_type_being_processed_on_the_second_SFC_within_the_MFC	UINT	STRING	GSKT0252TM
43	51	8	GST0BACB	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
44	52	8	GSTG1B32	NU5_SIG3	NU5_SIG3			
	0	3	GST0BACC	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37233	R_ScienceDataReport__TrackingState_8_	212	1	49	12	796	Y	118	FIXED	GST0BA77	TRACKING_STATE		Y	37233	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	3	5	GST0BACD	SIG3	signal_type_being_processed_on_the_third_SFC_within_the_MFC	UINT	STRING	GSKT0253TM
45	53	8	GST0BACE	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
46	54	16	GST0BACF	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY
47	56	16	GSTG1B33	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST0BAD0	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BAD1	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST0BAD2	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST0BAD3	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
48	58	8	GST0BAD4	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM
49	59	8	GST0BAD5	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
50	60	8	GSTG1B34	NU3_SIG1	NU3_SIG1			
	0	3	GST0BAD6	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BAD7	SIG1	signal_type_being_processed_on_the_first_SFC_within_the_MFC	UINT	STRING	GSKT0251TM
51	61	8	GST0BAD8	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
52	62	8	GSTG1B35	NU4_SIG2	NU4_SIG2			
	0	3	GST0BAD9	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BADA	SIG2	signal_type_being_processed_on_the_second_SFC_within_the_MFC	UINT	STRING	GSKT0252TM
53	63	8	GST0BADB	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
54	64	8	GSTG1B36	NU5_SIG3	NU5_SIG3			
	0	3	GST0BADC	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BADD	SIG3	signal_type_being_processed_on_the_third_SFC_within_the_MFC	UINT	STRING	GSKT0253TM
55	65	8	GST0BADE	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
56	66	16	GST0BADF	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY
57	68	16	GSTG1B37	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST0BAE0	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BAE1	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST0BAE2	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST0BAE3	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
58	70	8	GST0BAE4	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37233	R_ScienceDataReport__TrackingState_8_	212	1	49	12	796	Y	118	FIXED	GST0BA77	TRACKING_STATE		Y	37233	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
59	71	8	GST0BAE5	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
60	72	8	GSTG1B38	NU3_SIG1	NU3_SIG1			
	0	3	GST0BAE6	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BAE7	SIG1	signal_type_being_processed_on_the_first_SFC_within_th e_MFC	UINT	STRING	GSKT0251TM
61	73	8	GST0BAE8	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
62	74	8	GSTG1B39	NU4_SIG2	NU4_SIG2			
	0	3	GST0BAE9	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BAEA	SIG2	signal_type_being_processed_on_the_second_SFC_within _the_MFC	UINT	STRING	GSKT0252TM
63	75	8	GST0BAEB	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
64	76	8	GSTG1B3A	NU5_SIG3	NU5_SIG3			
	0	3	GST0BAEC	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BAED	SIG3	signal_type_being_processed_on_the_third_SFC_within_th e_MFC	UINT	STRING	GSKT0253TM
65	77	8	GST0BAEE	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
66	78	16	GST0BAEF	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY
67	80	16	GSTG1B3B	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST0BAF0	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BAF1	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST0BAF2	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST0BAF3	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
68	82	8	GST0BAF4	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM
69	83	8	GST0BAF5	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
70	84	8	GSTG1B3C	NU3_SIG1	NU3_SIG1			
	0	3	GST0BAF6	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BAF7	SIG1	signal_type_being_processed_on_the_first_SFC_within_th e_MFC	UINT	STRING	GSKT0251TM
71	85	8	GST0BAF8	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
72	86	8	GSTG1B3D	NU4_SIG2	NU4_SIG2			
	0	3	GST0BAF9	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BAFA	SIG2	signal_type_being_processed_on_the_second_SFC_within _the_MFC	UINT	STRING	GSKT0252TM





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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37233	R_ScienceDataReport__TrackingState_8_	212	1	49	12	796	Y	118	FIXED	GST0BA77	TRACKING_STATE		Y	37233	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
73	87	8	GST0BAFB	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
74	88	8	GSTG1B3E	NU5_SIG3	NU5_SIG3			
	0	3	GST0BAFC	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BAFD	SIG3	signal_type_being_processed_on_the_third_SFC_within_th e_MFC	UINT	STRING	GSKT0253TM
75	89	8	GST0BAFE	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
76	90	16	GST0BAFF	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY
77	92	16	GSTG1B3F	CONS_SVID_NU2_AN	CONS_SVID_NU2_ANT			
	0	3	GST0BB00	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BB01	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST0BB02	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	12	4	GST0BB03	ANT	Antenna_identifier	UINT	STRING	GSKT0249TM
78	94	8	GST0BB04	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0250TM
79	95	8	GST0BB05	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
80	96	8	GSTG1B40	NU3_SIG1	NU3_SIG1			
	0	3	GST0BB06	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BB07	SIG1	signal_type_being_processed_on_the_first_SFC_within_th e_MFC	UINT	STRING	GSKT0251TM
81	97	8	GST0BB08	CHN1	channel_number_of_the_first_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
82	98	8	GSTG1B41	NU4_SIG2	NU4_SIG2			
	0	3	GST0BB09	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BB0A	SIG2	signal_type_being_processed_on_the_second_SFC_within _the_MFC	UINT	STRING	GSKT0252TM
83	99	8	GST0BB0B	CHN2	channel_number_of_the_second_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
84	100	8	GSTG1B42	NU5_SIG3	NU5_SIG3			
	0	3	GST0BB0C	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
	3	5	GST0BB0D	SIG3	signal_type_being_processed_on_the_third_SFC_within_th e_MFC	UINT	STRING	GSKT0253TM
85	101	8	GST0BB0E	CHN3	channel_number_of_the_third_SFC_within_the_MFC	UINT	INTEGER	Z_IDENTITY
86	102	16	GST0BB0F	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY



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**Name:** GSKT0249TM **Descr:** ANT

**Referenced by:**

From	To	Text
		GST0BA93 ANT
		GST0BAA3 ANT
		GST0BAB3 ANT
		GST0BAC3 ANT
		GST0BAD3 ANT
		GST0BAE3 ANT
		GST0BAF3 ANT
		GST0BB03 ANT
0		FIRST_ANTENNA
1		SECOND_ANTENNA

**Name:** GSKT0250TM **Descr:** MFC\_TS

**Referenced by:**

From	To	Text
		GST0BA94 MFC_TS
		GST0BAA4 MFC_TS
		GST0BAB4 MFC_TS
		GST0BAC4 MFC_TS
		GST0BAD4 MFC_TS
		GST0BAE4 MFC_TS
		GST0BAF4 MFC_TS
		GST0BB04 MFC_TS
0		NO_MEASDATA_AV
1		CODE_ACQUISITI
2		CODE_ACQUISITI
3		CODE_TRACKING_
4		CODE_AND_CARRI
5		CODE_AND_CARRI
6		FINAL_TRACKING
7		FINAL_TRACKING
8		FINAL_TRACKING
9		FINAL_TRACKING
10		FINAL_TRACKING
11		FINAL_TRACKING



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**Name:** GSKT0251TM **Descr:** SIG1

**Referenced by:**

**From To Text**

GST0BA97 SIG1  
GST0BAA7 SIG1  
GST0BAB7 SIG1  
GST0BAC7 SIG1  
GST0BAD7 SIG1  
GST0BAE7 SIG1  
GST0BAF7 SIG1  
GST0BB07 SIG1

0 GPS\_L1\_CA  
1 GPS\_L1\_P  
2 GPS\_L2\_CA  
3 GPS\_L2\_P  
4 GPS\_L2\_CM  
5 GPS\_L2\_CL  
6 NO\_SIGNAL

**Name:** GSKT0252TM **Descr:** SIG2

**Referenced by:**

**From To Text**

GST0BA9A SIG2  
GST0BAAA SIG2  
GST0BABA SIG2  
GST0BACA SIG2  
GST0BADA SIG2  
GST0BAEA SIG2  
GST0BAFA SIG2  
GST0BB0A SIG2

0 GPS\_L1\_CA  
1 GPS\_L1\_P  
2 GPS\_L2\_CA  
3 GPS\_L2\_P  
4 GPS\_L2\_CM  
5 GPS\_L2\_CL  
6 NO\_SIGNAL



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Name: GSKT0253TM Descr: SIG3

### Referenced by:

GST0BA9D SIG3  
GST0BAAD SIG3  
GST0BABD SIG3  
GST0BACD SIG3  
GST0BADD SIG3  
GST0BAED SIG3  
GST0BAFD SIG3  
GST0BB0D SIG3

From	To	Text
0		GPS_L1_CA
1		GPS_L1_P
2		GPS_L2_CA
3		GPS_L2_P
4		GPS_L2_CM
5		GPS_L2_CL
6		NO_SIGNAL

Name: GSKT0293TM Descr: SID

### Referenced by:

GST0BA77 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0BA8A FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99





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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST0BA8D V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST0BA8E R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

**Name:** GSKT0345TM **Descr:** CONS

**Referenced by:**  
GST0BA90 CONS  
GST0BAA0 CONS  
GST0BAB0 CONS  
GST0BAC0 CONS  
GST0BAD0 CONS  
GST0BAE0 CONS  
GST0BAF0 CONS  
GST0BB00 CONS

From	To	Text
0		GPS_CONSTELLAT



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST0BA77	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST0BB24	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0BB25	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0BB26	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG1B43	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0BB27	SN	Serial_Number_not_used	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BB28	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0BB29	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0BB2A	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG1B44	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BB2B	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BB2C	SV_ID	Space_vehicle_identifier_2C_0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BB2D	SIG	Signal_type	UINT	STRING	GSKT0230TM
8	10	8	GSTG1B45	ANT_NDS	ANT_NDS			
	0	4	GST0BB2E	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BB2F	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
9	11	8	GST0BB30	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
10	12	8	GSTG1B46	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BB31	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BB32	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BB33	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BB34	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BB35	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
11	13	8	GSTG1B47	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BB36	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BB37	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BB38	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BB39	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BB3A	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
12	14	8	GST0BB3B	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
13	15	8	GSTG1B48	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BB3C	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	1	1	GST0BB3D	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BB3E	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BB3F	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BB40	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BB41	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BB42	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BB43	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
14	16	16	GSTG1B49	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BB44	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BB45	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BB46	SIG	Signal_type	UINT	STRING	GSKT0230TM
15	18	8	GSTG1B4A	ANT_NDS	ANT_NDS			
	0	4	GST0BB47	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BB48	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
16	19	8	GST0BB49	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
17	20	8	GSTG1B4B	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BB4A	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BB4B	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BB4C	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BB4D	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BB4E	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
18	21	8	GSTG1B4C	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BB4F	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BB50	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BB51	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BB52	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BB53	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
19	22	8	GST0BB54	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
20	23	8	GSTG1B4D	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BB55	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BB56	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BB57	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BB58	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	4	1	GST0BB59	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BB5A	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BB5B	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BB5C	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
21	24	16	GSTG1B4E	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BB5D	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BB5E	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BB5F	SIG	Signal_type	UINT	STRING	GSKT0230TM
22	26	8	GSTG1B4F	ANT_NDS	ANT_NDS			
	0	4	GST0BB60	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BB61	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
23	27	8	GST0BB62	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
24	28	8	GSTG1B50	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BB63	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BB64	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BB65	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BB66	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BB67	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
25	29	8	GSTG1B51	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BB68	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BB69	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BB6A	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BB6B	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BB6C	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
26	30	8	GST0BB6D	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
27	31	8	GSTG1B52	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BB6E	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BB6F	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BB70	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BB71	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BB72	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BB73	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BB74	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
28	7	1	GST0BB75	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	32	16	GSTG1B53	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BB76	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BB77	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
29	11	5	GST0BB78	SIG	Signal_type	UINT	STRING	GSKT0230TM
	34	8	GSTG1B54	ANT_NDS	ANT_NDS			
	0	4	GST0BB79	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BB7A	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
30	35	8	GST0BB7B	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
31	36	8	GSTG1B55	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BB7C	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BB7D	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BB7E	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BB7F	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BB80	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
	37	8	GSTG1B56	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BB81	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
32	2	2	GST0BB82	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BB83	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BB84	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BB85	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
	38	8	GST0BB86	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
	39	8	GSTG1B57	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BB87	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BB88	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
33	2	1	GST0BB89	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BB8A	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BB8B	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BB8C	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BB8D	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BB8E	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	40	16	GSTG1B58	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BB8F	CONS	constellation_identifier	UINT	STRING	GSKT0345TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
36	3	8	GST0BB90	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BB91	SIG	Signal_type	UINT	STRING	GSKT0230TM
	42	8	GSTG1B59	ANT_NDS	ANT_NDS			
	0	4	GST0BB92	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
37	4	4	GST0BB93	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
	43	8	GST0BB94	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
38	44	8	GSTG1B5A	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BB95	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BB96	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BB97	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BB98	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BB99	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
	45	8	GSTG1B5B	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BB9A	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BB9B	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BB9C	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BB9D	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BB9E	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
	46	8	GST0BB9F	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
41	47	8	GSTG1B5C	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BBA0	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BBA1	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BBA2	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BBA3	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BBA4	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BBA5	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BBA6	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BBA7	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
42	48	16	GSTG1B5D	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BBA8	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BBA9	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BBAA	SIG	Signal_type	UINT	STRING	GSKT0230TM
43	50	8	GSTG1B5E	ANT_NDS	ANT_NDS			



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	0	4	GST0BBAB	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BBAC	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
44	51	8	GST0BBAD	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
45	52	8	GSTG1B5F	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BBAE	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BBAF	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BBB0	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BBB1	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BBB2	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
46	53	8	GSTG1B60	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BBB3	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BBB4	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BBB5	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BBB6	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BBB7	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
47	54	8	GST0BBB8	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
48	55	8	GSTG1B61	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BBB9	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BBBA	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BBBB	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BBBC	FRTH	Carrier_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BBBD	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BBBE	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BBBF	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BBC0	FDTH	Code_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
49	56	16	GSTG1B62	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BBC1	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BBC2	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BBC3	SIG	Signal_type	UINT	STRING	GSKT0230TM
50	58	8	GSTG1B63	ANT_NDS	ANT_NDS			
	0	4	GST0BBC4	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BBC5	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
51	59	8	GST0BBC6	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY





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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
52	60	8	GSTG1B64	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BBC7	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BBC8	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BBC9	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BBCA	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BBCB	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
53	61	8	GSTG1B65	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BBCC	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BBCD	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BBCE	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BBCF	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BBD0	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
54	62	8	GST0BBD1	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
55	63	8	GSTG1B66	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BBD2	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BBD3	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BBD4	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BBD5	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BBD6	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BBD7	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BBD8	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BBD9	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
56	64	16	GSTG1B67	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BBDA	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BBDB	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BBDC	SIG	Signal_type	UINT	STRING	GSKT0230TM
57	66	8	GSTG1B68	ANT_NDS	ANT_NDS			
	0	4	GST0BBDD	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BBDE	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
58	67	8	GST0BBDF	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
59	68	8	GSTG1B69	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BBE0	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BBE1	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY





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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
60	4	1	GST0BBE2	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BBE3	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BBE4	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
	69	8	GSTG1B6A	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BBE5	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BBE6	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BBE7	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BBE8	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
61	6	2	GST0BBE9	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
	70	8	GST0BBEA	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
62	71	8	GSTG1B6B	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BBEB	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BBEC	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BBED	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BBEE	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BBEF	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BBF0	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BBF1	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BBF2	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	72	16	GSTG1B6C	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BBF3	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BBF4	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BBF5	SIG	Signal_type	UINT	STRING	GSKT0230TM
	74	8	GSTG1B6D	ANT_NDS	ANT_NDS			
	0	4	GST0BBF6	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BBF7	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
65	75	8	GST0BBF8	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
66	76	8	GSTG1B6E	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BBF9	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BBFA	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BBFB	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BBFC	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BBFD	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
67	77	8	GSTG1B6F	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BBFE	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BBFF	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BC00	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BC01	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BC02	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
68	78	8	GST0BC03	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
69	79	8	GSTG1B70	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BC04	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BC05	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BC06	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BC07	FRTH	Carrier_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BC08	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BC09	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BC0A	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BC0B	FDTH	Code_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
70	80	16	GSTG1B71	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BC0C	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BC0D	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BC0E	SIG	Signal_type	UINT	STRING	GSKT0230TM
71	82	8	GSTG1B72	ANT_NDS	ANT_NDS			
	0	4	GST0BC0F	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BC10	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
72	83	8	GST0BC11	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
73	84	8	GSTG1B73	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BC12	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BC13	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BC14	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BC15	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BC16	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
74	85	8	GSTG1B74	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BC17	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BC18	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	4	1	GST0BC19	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BC1A	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BC1B	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
75	86	8	GST0BC1C	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
76	87	8	GSTG1B75	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BC1D	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BC1E	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BC1F	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BC20	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BC21	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BC22	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BC23	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BC24	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
77	88	16	GSTG1B76	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BC25	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BC26	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BC27	SIG	Signal_type	UINT	STRING	GSKT0230TM
78	90	8	GSTG1B77	ANT_NDS	ANT_NDS			
	0	4	GST0BC28	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BC29	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
79	91	8	GST0BC2A	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
80	92	8	GSTG1B78	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BC2B	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BC2C	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BC2D	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BC2E	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BC2F	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
81	93	8	GSTG1B79	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BC30	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BC31	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BC32	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BC33	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BC34	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
82	94	8	GST0BC35	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
83	95	8	GSTG1B7A	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BC36	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BC37	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BC38	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BC39	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BC3A	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BC3B	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BC3C	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BC3D	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
84	96	16	GSTG1B7B	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BC3E	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BC3F	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BC40	SIG	Signal_type	UINT	STRING	GSKT0230TM
85	98	8	GSTG1B7C	ANT_NDS	ANT_NDS			
	0	4	GST0BC41	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BC42	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
86	99	8	GST0BC43	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
87	100	8	GSTG1B7D	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BC44	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BC45	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BC46	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BC47	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BC48	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
88	101	8	GSTG1B7E	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BC49	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BC4A	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BC4B	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BC4C	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BC4D	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
89	102	8	GST0BC4E	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
90	103	8	GSTG1B7F	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BC4F	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.	
91	104	1	GST0BC50	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM	
		2	GST0BC51	FRDS	Carrier_loop_discrimminator_final_flag	UINT	STRING	GSKT0264TM	
		3	GST0BC52	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM	
		4	GST0BC53	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM	
		5	GST0BC54	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM	
		6	GST0BC55	FDSP	Code_loop_discrimminator_final_flag	UINT	STRING	GSKT0267TM	
		7	GST0BC56	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM	
	106	16	GSTG1B80	CONS_SVID_SIG	CONS_SVID_SIG				
		0	3	GST0BC57	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
		3	8	GST0BC58	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
		11	5	GST0BC59	SIG	Signal_type	UINT	STRING	GSKT0230TM
92	106	8	GSTG1B81	ANT_NDS	ANT_NDS				
		0	4	GST0BC5A	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
		4	4	GST0BC5B	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
93	107	8	GST0BC5C	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY	
94	108	8	GSTG1B82	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM				
		0	2	GST0BC5D	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
		2	2	GST0BC5E	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
		4	1	GST0BC5F	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
		5	1	GST0BC60	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
		6	2	GST0BC61	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
	109	8	GSTG1B83	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM				
		0	2	GST0BC62	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
		2	2	GST0BC63	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
		4	1	GST0BC64	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
		5	1	GST0BC65	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
95	109	6	GST0BC66	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM	
		8	GST0BC67	TS	logical_tracking_state	UINT	STRING	GSKT0261TM	
		8	GSTG1B84	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH				
96	110	0	GST0BC68	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM	
		1	GST0BC69	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM	
		2	GST0BC6A	FRDS	Carrier_loop_discrimminator_final_flag	UINT	STRING	GSKT0264TM	
		3	GST0BC6B	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM	



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	4	1	GST0BC6C	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BC6D	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BC6E	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BC6F	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
98	112	16	GSTG1B85	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BC70	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BC71	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BC72	SIG	Signal_type	UINT	STRING	GSKT0230TM
99	114	8	GSTG1B86	ANT_NDS	ANT_NDS			
	0	4	GST0BC73	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BC74	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
100	115	8	GST0BC75	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
101	116	8	GSTG1B87	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BC76	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BC77	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BC78	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BC79	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BC7A	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
102	117	8	GSTG1B88	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BC7B	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BC7C	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BC7D	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BC7E	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BC7F	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
103	118	8	GST0BC80	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
104	119	8	GSTG1B89	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BC81	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BC82	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BC83	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BC84	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BC85	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BC86	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BC87	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
105	7	1	GST0BC88	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	120	16	GSTG1B8A	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BC89	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BC8A	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
106	11	5	GST0BC8B	SIG	Signal_type	UINT	STRING	GSKT0230TM
	122	8	GSTG1B8B	ANT_NDS	ANT_NDS			
	0	4	GST0BC8C	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BC8D	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
107	123	8	GST0BC8E	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
108	124	8	GSTG1B8C	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BC8F	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BC90	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BC91	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BC92	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BC93	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
	125	8	GSTG1B8D	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
109	0	2	GST0BC94	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BC95	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BC96	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BC97	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BC98	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
	126	8	GST0BC99	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
	127	8	GSTG1B8E	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
110	0	1	GST0BC9A	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BC9B	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BC9C	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BC9D	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BC9E	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BC9F	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BCA0	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BCA1	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	128	16	GSTG1B8F	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BCA2	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
113	130	3	GST0BCA3	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
		11	GST0BCA4	SIG	Signal_type	UINT	STRING	GSKT0230TM
		8	GSTG1B90	ANT_NDS	ANT_NDS			
		0	GST0BCA5	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
		4	GST0BCA6	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
114	131	8	GST0BCA7	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
115	132	8	GSTG1B91	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
116	133	0	GST0BCA8	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
		2	GST0BCA9	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
		4	GST0BCAA	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
		5	GST0BCAB	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
		6	GST0BCAC	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
		8	GSTG1B92	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
		0	GST0BCAD	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
		2	GST0BCAE	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
		4	GST0BCAF	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
		5	GST0BCB0	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
117	134	6	GST0BCB1	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
		8	GST0BCB2	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
		8	GSTG1B93	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
118	135	0	GST0BCB3	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
		1	GST0BCB4	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
		2	GST0BCB5	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
		3	GST0BCB6	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
		4	GST0BCB7	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
		5	GST0BCB8	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
		6	GST0BCB9	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
		7	GST0BCBA	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
		16	GSTG1B94	CONS_SVID_SIG	CONS_SVID_SIG			
		0	GST0BCBB	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
119	136	3	GST0BCBC	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
		11	GST0BCBD	SIG	Signal_type	UINT	STRING	GSKT0230TM
		8	GSTG1B95	ANT_NDS	ANT_NDS			





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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	0	4	GST0BCBE	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BCBF	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
121	139	8	GST0BCC0	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
122	140	8	GSTG1B96	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BCC1	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BCC2	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BCC3	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BCC4	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BCC5	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
123	141	8	GSTG1B97	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BCC6	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BCC7	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BCC8	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BCC9	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BCCA	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
124	142	8	GST0BCCB	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
125	143	8	GSTG1B98	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BCCC	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BCCD	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BCCE	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BCCF	FRTH	Carrier_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BCD0	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BCD1	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BCD2	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BCD3	FDTH	Code_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
126	144	16	GSTG1B99	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BCD4	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BCD5	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BCD6	SIG	Signal_type	UINT	STRING	GSKT0230TM
127	146	8	GSTG1B9A	ANT_NDS	ANT_NDS			
	0	4	GST0BCD7	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BCD8	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
128	147	8	GST0BCD9	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
129	148	8	GSTG1B9B	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BCDA	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BCDB	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BCDC	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BCDD	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BCDE	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
130	149	8	GSTG1B9C	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BCDF	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BCE0	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BCE1	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BCE2	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BCE3	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
131	150	8	GST0BCE4	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
132	151	8	GSTG1B9D	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BCE5	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BCE6	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BCE7	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BCE8	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BCE9	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BCEA	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BCEB	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BCEC	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
133	152	16	GSTG1B9E	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BCED	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BCEE	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BCEF	SIG	Signal_type	UINT	STRING	GSKT0230TM
134	154	8	GSTG1B9F	ANT_NDS	ANT_NDS			
	0	4	GST0BCF0	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BCF1	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
135	155	8	GST0BCF2	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
136	156	8	GSTG1BA0	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BCF3	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BCF4	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
137	157	4	GST0BCF5	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
		5	GST0BCF6	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
		6	GST0BCF7	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
		8	GSTG1BA1	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
		0	GST0BCF8	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
		2	GST0BCF9	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
		4	GST0BCFA	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
		5	GST0BCFB	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
138	158	6	GST0BCFC	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
		8	GST0BCFD	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
139	159	8	GSTG1BA2	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
140	160	0	GST0BCFE	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
		1	GST0BCFF	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
		2	GST0BD00	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
		3	GST0BD01	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
		4	GST0BD02	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
		5	GST0BD03	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
		6	GST0BD04	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
		7	GST0BD05	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
		16	GSTG1BA3	CONS_SVID_SIG	CONS_SVID_SIG			
		0	GST0BD06	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
		3	GST0BD07	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
141	162	11	GST0BD08	SIG	Signal_type	UINT	STRING	GSKT0230TM
		8	GSTG1BA4	ANT_NDS	ANT_NDS			
		0	GST0BD09	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
142	163	4	GST0BD0A	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
		8	GST0BD0B	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
143	164	8	GSTG1BA5	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
		0	GST0BD0C	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
		2	GST0BD0D	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
		4	GST0BD0E	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
		5	GST0BD0F	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
		6	GST0BD10	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
144	165	8	GSTG1BA6	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BD11	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BD12	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BD13	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BD14	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BD15	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
145	166	8	GST0BD16	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
146	167	8	GSTG1BA7	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BD17	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BD18	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BD19	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BD1A	FRTH	Carrier_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BD1B	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BD1C	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BD1D	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BD1E	FDTH	Code_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
147	168	16	GSTG1BA8	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BD1F	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BD20	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BD21	SIG	Signal_type	UINT	STRING	GSKT0230TM
148	170	8	GSTG1BA9	ANT_NDS	ANT_NDS			
	0	4	GST0BD22	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BD23	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
149	171	8	GST0BD24	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
150	172	8	GSTG1BAA	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BD25	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BD26	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BD27	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BD28	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BD29	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
151	173	8	GSTG1BAB	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BD2A	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BD2B	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	4	1	GST0BD2C	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BD2D	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BD2E	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
152	174	8	GST0BD2F	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
153	175	8	GSTG1BAC	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BD30	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BD31	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BD32	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BD33	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BD34	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BD35	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BD36	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BD37	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
154	176	16	GSTG1BAD	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BD38	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BD39	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BD3A	SIG	Signal_type	UINT	STRING	GSKT0230TM
155	178	8	GSTG1BAE	ANT_NDS	ANT_NDS			
	0	4	GST0BD3B	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BD3C	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
156	179	8	GST0BD3D	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
157	180	8	GSTG1BAF	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BD3E	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BD3F	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BD40	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BD41	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BD42	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
158	181	8	GSTG1BB0	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BD43	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BD44	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BD45	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BD46	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BD47	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
159	182	8	GST0BD48	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
160	183	8	GSTG1BB1	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BD49	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BD4A	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BD4B	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BD4C	FRTH	Carrier_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BD4D	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BD4E	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BD4F	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BD50	FDTH	Code_loop_threshold_final_flag	UINT	STRING	GSKT0265TM
161	184	16	GSTG1BB2	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BD51	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BD52	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BD53	SIG	Signal_type	UINT	STRING	GSKT0230TM
162	186	8	GSTG1BB3	ANT_NDS	ANT_NDS			
	0	4	GST0BD54	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BD55	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
163	187	8	GST0BD56	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
164	188	8	GSTG1BB4	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BD57	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BD58	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BD59	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BD5A	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BD5B	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
165	189	8	GSTG1BB5	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BD5C	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BD5D	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BD5E	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BD5F	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BD60	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
166	190	8	GST0BD61	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
167	191	8	GSTG1BB6	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BD62	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37234	R_ScienceDataReport_ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	1	1	GST0BD63	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BD64	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BD65	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
	4	1	GST0BD66	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BD67	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BD68	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BD69	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM
168	192	16	GSTG1BB7	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BD6A	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BD6B	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BD6C	SIG	Signal_type	UINT	STRING	GSKT0230TM
169	194	8	GSTG1BB8	ANT_NDS	ANT_NDS			
	0	4	GST0BD6D	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BD6E	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0254TM
170	195	8	GST0BD6F	SF_CHN	Channel_number	UINT	INTEGER	Z_IDENTITY
171	196	8	GSTG1BB9	CRIT_CRBW_CRD_CR	CRIT_CRBW_CRD_CRL_CRM			
	0	2	GST0BD70	CRIT	Carrier_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BD71	CRBW	Carrier_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BD72	CRD	Carrier_phase_deterioration	UINT	STRING	GSKT0255TM
	5	1	GST0BD73	CRL	Carrier_loop_lock	UINT	STRING	GSKT0256TM
	6	2	GST0BD74	CRM	Carrier_loop_mode	UINT	STRING	GSKT0257TM
172	197	8	GSTG1BBA	CDIT_CDBW_CDD_CD	CDIT_CDBW_CDD_CDL_CDM			
	0	2	GST0BD75	CDIT	Code_loop_integration_time	UINT	INTEGER	Z_IDENTITY
	2	2	GST0BD76	CDBW	Code_loop_bandwidth	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BD77	CDD	Code_phase_deterioration	UINT	STRING	GSKT0258TM
	5	1	GST0BD78	CDL	Code_loop_lock	UINT	STRING	GSKT0259TM
	6	2	GST0BD79	CDM	Code_loop_mode	UINT	STRING	GSKT0260TM
173	198	8	GST0BD7A	TS	logical_tracking_state	UINT	STRING	GSKT0261TM
174	199	8	GSTG1BBB	FRIT_FRBW_FRDS_F	FRIT_FRBW_FRDS_FRTH_FDIT_FDBW_FDSP_FDTH			
	0	1	GST0BD7B	FRIT	Carrier_loop_integration_time_final_flag	UINT	STRING	GSKT0262TM
	1	1	GST0BD7C	FRBW	Carrier_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	2	1	GST0BD7D	FRDS	Carrier_loop_discriminator_final_flag	UINT	STRING	GSKT0264TM
	3	1	GST0BD7E	FRTH	Carrier_loop_treshold_final_flag	UINT	STRING	GSKT0265TM





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GSY_SCI37234	R_ScienceDataReport__ChannelStatus_24_	212	1	49	12	796	Y	214	FIXED	GST0BA77	CHN_STATUS		Y	37234	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	4	1	GST0BD7F	FDIT	Code_loop_integration_time_final_flag	UINT	STRING	GSKT0266TM
	5	1	GST0BD80	FDBW	Code_loop_bandwidth_final_flag	UINT	STRING	GSKT0263TM
	6	1	GST0BD81	FDSP	Code_loop_discriminator_final_flag	UINT	STRING	GSKT0267TM
	7	1	GST0BD82	FDTH	Code_loop_treshold_final_flag	UINT	STRING	GSKT0265TM





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Name: GSKT0230TM Descr: SIG

**Referenced by:**

From To Text

GST0BB2D SIG  
GST0BB46 SIG  
GST0BB5F SIG  
GST0BB78 SIG  
GST0BB91 SIG  
GST0BBAA SIG  
GST0BBC3 SIG  
GST0BBDC SIG  
GST0BBF5 SIG  
GST0BC0E SIG  
GST0BC27 SIG  
GST0BC40 SIG  
GST0BC59 SIG  
GST0BC72 SIG  
GST0BC8B SIG  
GST0BCA4 SIG  
GST0BCBD SIG  
GST0BCD6 SIG  
GST0BCEF SIG  
GST0BD08 SIG  
GST0BD21 SIG  
GST0BD3A SIG  
GST0BD53 SIG  
GST0BD6C SIG

0 GPS\_L1\_CA  
1 GPS\_L1\_P  
2 GPS\_L2\_CA  
3 GPS\_L2\_P  
4 GPS\_L2\_CM  
5 GPS\_L2\_CL  
6 NO\_SIGNAL

---



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**Name:** GSKT0231TM **Descr:** ANT

**Referenced by:**

**From To Text**

GST0BB2E ANT  
GST0BB47 ANT  
GST0BB60 ANT  
GST0BB79 ANT  
GST0BB92 ANT  
GST0BBAB ANT  
GST0BBC4 ANT  
GST0BBDD ANT  
GST0BBF6 ANT  
GST0BC0F ANT  
GST0BC28 ANT  
GST0BC41 ANT  
GST0BC5A ANT  
GST0BC73 ANT  
GST0BC8C ANT  
GST0BCA5 ANT  
GST0BCBE ANT  
GST0BCD7 ANT  
GST0BCF0 ANT  
GST0BD09 ANT  
GST0BD22 ANT  
GST0BD3B ANT  
GST0BD54 ANT  
GST0BD6D ANT

0 FIRST\_ANTENNA  
1 SECOND\_ANTENNA

---



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Name: GSKT0254TM Descr: NDS

**Referenced by:**

From To Text

GST0BB2F NDS  
GST0BB48 NDS  
GST0BB61 NDS  
GST0BB7A NDS  
GST0BB93 NDS  
GST0BBAC NDS  
GST0BBC5 NDS  
GST0BBDE NDS  
GST0BBF7 NDS  
GST0BC10 NDS  
GST0BC29 NDS  
GST0BC42 NDS  
GST0BC5B NDS  
GST0BC74 NDS  
GST0BC8D NDS  
GST0BCA6 NDS  
GST0BCBF NDS  
GST0BCD8 NDS  
GST0BCF1 NDS  
GST0BD0A NDS  
GST0BD23 NDS  
GST0BD3C NDS  
GST0BD55 NDS  
GST0BD6E NDS

0 NOT\_SYNC  
1 SYNC\_NAVDATA\_N  
2 INVALID  
3 SYNC\_NAVDATA\_I



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Name: GSKT0255TM Descr: CRD

**Referenced by:**

From To Text

GST0BB33 CRD  
GST0BB4C CRD  
GST0BB65 CRD  
GST0BB7E CRD  
GST0BB97 CRD  
GST0BBB0 CRD  
GST0BBC9 CRD  
GST0BBE2 CRD  
GST0BBFB CRD  
GST0BC14 CRD  
GST0BC2D CRD  
GST0BC46 CRD  
GST0BC5F CRD  
GST0BC78 CRD  
GST0BC91 CRD  
GST0BCAA CRD  
GST0BCC3 CRD  
GST0BCDC CRD  
GST0BCF5 CRD  
GST0BD0E CRD  
GST0BD27 CRD  
GST0BD40 CRD  
GST0BD59 CRD  
GST0BD72 CRD

0 NO\_DETERIORATI  
1 DETERIORATION

---



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Name: GSKT0256TM Descr: CRL

**Referenced by:**

From To Text

GST0BB34 CRL  
GST0BB4D CRL  
GST0BB66 CRL  
GST0BB7F CRL  
GST0BB98 CRL  
GST0BBB1 CRL  
GST0BBCA CRL  
GST0BBE3 CRL  
GST0BBFC CRL  
GST0BC15 CRL  
GST0BC2E CRL  
GST0BC47 CRL  
GST0BC60 CRL  
GST0BC79 CRL  
GST0BC92 CRL  
GST0BCAB CRL  
GST0BCC4 CRL  
GST0BCDD CRL  
GST0BCF6 CRL  
GST0BD0F CRL  
GST0BD28 CRL  
GST0BD41 CRL  
GST0BD5A CRL  
GST0BD73 CRL

0 NOT\_LOCKED  
1 LOCKED

---



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Name: GSKT0257TM Descr: CRM

**Referenced by:**

From To Text

GST0BB35 CRM  
GST0BB4E CRM  
GST0BB67 CRM  
GST0BB80 CRM  
GST0BB99 CRM  
GST0BBB2 CRM  
GST0BBCB CRM  
GST0BBE4 CRM  
GST0BBFD CRM  
GST0BC16 CRM  
GST0BC2F CRM  
GST0BC48 CRM  
GST0BC61 CRM  
GST0BC7A CRM  
GST0BC93 CRM  
GST0BCAC CRM  
GST0BCC5 CRM  
GST0BCDE CRM  
GST0BCF7 CRM  
GST0BD10 CRM  
GST0BD29 CRM  
GST0BD42 CRM  
GST0BD5B CRM  
GST0BD74 CRM

0 NO\_ACTIVITIES  
1 ACQUISITION  
2 TRACKING  
3 ACQUISITION\_ER

---



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Name: GSKT0258TM Descr: CDD

**Referenced by:**

From To Text

GST0BB38 CDD  
GST0BB51 CDD  
GST0BB6A CDD  
GST0BB83 CDD  
GST0BB9C CDD  
GST0BBB5 CDD  
GST0BBCE CDD  
GST0BBE7 CDD  
GST0BC00 CDD  
GST0BC19 CDD  
GST0BC32 CDD  
GST0BC4B CDD  
GST0BC64 CDD  
GST0BC7D CDD  
GST0BC96 CDD  
GST0BCAF CDD  
GST0BCC8 CDD  
GST0BCE1 CDD  
GST0BCFA CDD  
GST0BD13 CDD  
GST0BD2C CDD  
GST0BD45 CDD  
GST0BD5E CDD  
GST0BD77 CDD

0 NO\_DETERIORATI  
1 DETERIORATION

---



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Name: GSKT0259TM Descr: CDL

**Referenced by:**

From To Text

GST0BB39 CDL  
GST0BB52 CDL  
GST0BB6B CDL  
GST0BB84 CDL  
GST0BB9D CDL  
GST0BBB6 CDL  
GST0BBCF CDL  
GST0BBE8 CDL  
GST0BC01 CDL  
GST0BC1A CDL  
GST0BC33 CDL  
GST0BC4C CDL  
GST0BC65 CDL  
GST0BC7E CDL  
GST0BC97 CDL  
GST0BCB0 CDL  
GST0BCC9 CDL  
GST0BCE2 CDL  
GST0BCFB CDL  
GST0BD14 CDL  
GST0BD2D CDL  
GST0BD46 CDL  
GST0BD5F CDL  
GST0BD78 CDL

0 NOT\_LOCKED  
1 LOCKED

---





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Name: GSKT0260TM Descr: CDM

**Referenced by:**

From To Text

GST0BB3A CDM  
GST0BB53 CDM  
GST0BB6C CDM  
GST0BB85 CDM  
GST0BB9E CDM  
GST0BBB7 CDM  
GST0BBD0 CDM  
GST0BBE9 CDM  
GST0BC02 CDM  
GST0BC1B CDM  
GST0BC34 CDM  
GST0BC4D CDM  
GST0BC66 CDM  
GST0BC7F CDM  
GST0BC98 CDM  
GST0BCB1 CDM  
GST0BCCA CDM  
GST0BCE3 CDM  
GST0BCFC CDM  
GST0BD15 CDM  
GST0BD2E CDM  
GST0BD47 CDM  
GST0BD60 CDM  
GST0BD79 CDM

0 NO\_ACTIVITIES  
1 ACQUISITION  
2 TRACKING  
3 ACQUISITION\_ER

---



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Name: GSKT0261TM Descr: TS

**Referenced by:**

From	To	Text
		GST0BB3B TS
		GST0BB54 TS
		GST0BB6D TS
		GST0BB86 TS
		GST0BB9F TS
		GST0BBB8 TS
		GST0BBD1 TS
		GST0BBEA TS
		GST0BC03 TS
		GST0BC1C TS
		GST0BC35 TS
		GST0BC4E TS
		GST0BC67 TS
		GST0BC80 TS
		GST0BC99 TS
		GST0BCB2 TS
		GST0BCCB TS
		GST0BCE4 TS
		GST0BCFD TS
		GST0BD16 TS
		GST0BD2F TS
		GST0BD48 TS
		GST0BD61 TS
		GST0BD7A TS

0	CA_INIT
1	CA_WAIT_PPS
2	CA_DISPATCH
3	CA_COLD_INIT
4	CA_COLD_WAIT_I
5	COLD_WAIT_ME_1
6	CA_COLD_MFC_SY
7	COLD_WAIT_ME_2
8	CA_COLD_START_
9	CA_COLD_1ST_DW
10	CA_FST_WARM_IN
11	CA_WARM_WAIT_I
12	CA_WARM_WAIT_M
13	CA_WARM_MFC_SY
14	CA_WARM_START_
15	CA_WARM_1ST_DW
16	2D_RUN_WAIT_ME
17	2D_RUN_WAIT_IE
18	CA_2ND_RUN_STA
19	CA_COLD_ACQ_FB
20	CA_FST_WARM_AC
21	CA_WARM_ACQ_FB
22	CA_DEFAULT_ACQ
23	CA_CODE_TRACKI



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24	CA_WARM_INIT
25	CA_DEFAULT_INI
26	CA_DEF_WAIT_IE
27	CA_DEF_WAIT_ME
28	DEF_WAIT_IE_IM
29	CA_DEF_START_S
30	DEF_1ST_DWELL
31	DEF_1_DWELL_WA
32	CA_CHANGE_DELA
33	CA_WAIT_CODE_L
34	CA_CODE_LOCK_C
35	CA_CODE_BW_RED
36	CA_PREP_FFT_SA
37	CA_COLL_FFT_SA
38	CA_WAIT_CARR_L
39	CA_CARR_LOCK_C
40	CA_CARR_BW_RED
41	COR_SPAC_6CC_4
42	COR_SPAC_4CC_2
43	CA_PREP_1ST_TI
44	CA_INIT_1ST_TI
45	CA_EXEC_1ST_TI
46	CA_TRACKING_ST
47	CA_EXEC_1ST_PA
48	CA_PREP_2ND_TI
49	CA_INIT_2ND_TI
50	CA_EXEC_2ND_TI
51	CA_EXEC_2ND_PA
52	CA_PREP_3RD_TI
53	CA_INIT_3RD_TI
54	CA_EXEC_3RD_TI
55	CA_EXEC_3RD_PA
56	CA_STEADY
57	P1_INIT
58	P1_WAIT_IE
59	P1_PREP_TINT_C
60	P1_INIT_TINT_C
61	P1_EXEC_TINT_C
62	P1_WAIT_CODE_L
63	P1_CODE_LOCK_C
64	P1_CODE_BW_RED
65	P1_TRACKING_ST
66	P1_EXEC_1ST_PA
67	P1_PREP_2ND_TI
68	P1_INIT_2ND_TI
69	P1_EXEC_2ND_TI
70	P1_EXEC_2ND_PA
71	P1_PREP_3RD_TI
72	P1_INIT_3RD_TI
73	P1_EXEC_3RD_TI



**Sentinel-2**  
**SRDB Database Extract**  
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74	P1_EXEC_3RD_PA
75	P1_STEADY
76	P2_INIT
77	P2_WAIT_IE
78	P2_PREP_TINT_C
79	P2_INIT_TINT_C
80	P2_EXEC_TINT_C
81	P2_WAIT_RETRY_
82	P2_INIT_CCC
83	P2_WRITE_P_COD
84	P2_RECOVER_P1_
85	P2_RECOVER_P2_
86	P2__START_CODE
87	P2_WRITE_CYCLE
88	P2_WAIT_ME
89	P2_START_SHIFT
90	P2_1ST_DWELL
91	P2_1ST_DWELL_W
92	P2_WAIT_CODE_L
93	P2_CODE_LOCK_C
94	P2_CODE_BW_RED
95	P2_PREP_FFT_SA
96	P2_COLL_FFT_SA
97	P2_WAIT_CARR_L
98	P2_CARR_LOCK_C
99	P2_CARR_BW_RED
100	P2_TRACKING_ST
101	P2_EXEC_1ST_PA
102	P2_PREP_2ND_TI
103	P2_INIT_2ND_TI
104	P2_EXEC_2ND_TI
105	P2_EXEC_2ND_PA
106	P2_PREP_3RD_TI
107	P2_INIT_3RD_TI
108	P2_EXEC_3RD_TI
109	P2_EXEC_3RD_PA
110	P2_STEADY
111	SLAVE_INIT
112	SL_WAIT_ME
113	SL_START_SHIFT
114	SL_WAIT_IE_IMT
115	SL_WAIT_IE
116	SL_PREP_1ST_TI
117	SL_INIT_1ST_TI
118	SL_EXEC_1ST_TI
119	SL_TIMESLOT_WA
120	SL_START_CODEG
121	SL_ACQ_FB
122	SL_CODE_TRACKI
123	SL_1ST_DWELL



## Sentinel-2 SRDB Database Extract

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124	SL_1ST_DWELL_W
125	SL_CHANGE_DELA
126	SL_WAIT_CODE_L
127	SL_CODE_LOCK_C
128	SL_CODE_BW_RED
129	SL_PREP_FFT_SA
130	SL_COLL_FFT_SA
131	SL_WAIT_CARR_L
132	SL_CARR_LOCK_C
133	SL_CARR_BW_RED
134	S_CO_SP_6CC_4C
135	S_CO_SP_4CC_2C
136	SL_TRACKING_ST
137	SL_EXEC_1ST_PA
138	SL_PREP_2ND_TI
139	SL_INIT_2ND_TI
140	SL_EXEC_2ND_TI
141	SL_EXEC_2ND_PA
142	SL_PREP_3RD_TI
143	SL_INIT_3RD_TI
144	SL_EXEC_3RD_TI
145	SL_EXEC_3RD_PA
146	SL_STEADY
147	COD_ACQ_ERROR
148	COD_ACQ_ERR_RE
149	CAR_ACQ_ERROR
150	CAR_ACQ_ERR_RE
151	STOPPED
152	STOPPED_REPORT

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**Sentinel-2**  
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Name: GSKT0262TM Descr: FRIT

**Referenced by:**

From To Text

GST0BB3C FRIT  
GST0BB55 FRIT  
GST0BB6E FRIT  
GST0BB87 FRIT  
GST0BBA0 FRIT  
GST0BBB9 FRIT  
GST0BBD2 FRIT  
GST0BBEB FRIT  
GST0BC04 FRIT  
GST0BC1D FRIT  
GST0BC36 FRIT  
GST0BC4F FRIT  
GST0BC68 FRIT  
GST0BC81 FRIT  
GST0BC9A FRIT  
GST0BCB3 FRIT  
GST0BCCC FRIT  
GST0BCE5 FRIT  
GST0BCFE FRIT  
GST0BD17 FRIT  
GST0BD30 FRIT  
GST0BD49 FRIT  
GST0BD62 FRIT  
GST0BD7B FRIT

0 NOT\_FINAL\_INTE  
1 INTEGRATION\_TI

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**Sentinel-2**  
**SRDB Database Extract**  
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Date: 11.02.2013  
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**Name:** GSKT0263TM **Descr:** FRBW

**Referenced by:**

**From To Text**

GST0BB3D FRBW  
GST0BB41 FDBW  
GST0BB56 FRBW  
GST0BB5A FDBW  
GST0BB6F FRBW  
GST0BB73 FDBW  
GST0BB88 FRBW  
GST0BB8C FDBW  
GST0BBA1 FRBW  
GST0BBA5 FDBW  
GST0BBBA FRBW  
GST0BBBE FDBW  
GST0BBD3 FRBW  
GST0BBD7 FDBW  
GST0BBEC FRBW  
GST0BBF0 FDBW  
GST0BC05 FRBW  
GST0BC09 FDBW  
GST0BC1E FRBW  
GST0BC22 FDBW  
GST0BC37 FRBW  
GST0BC3B FDBW  
GST0BC50 FRBW  
GST0BC54 FDBW  
GST0BC69 FRBW  
GST0BC6D FDBW  
GST0BC82 FRBW  
GST0BC86 FDBW  
GST0BC9B FRBW  
GST0BC9F FDBW  
GST0BCB4 FRBW  
GST0BCB8 FDBW  
GST0BCCD FRBW  
GST0BCD1 FDBW  
GST0BCE6 FRBW  
GST0BCEA FDBW  
GST0BCFF FRBW  
GST0BD03 FDBW  
GST0BD18 FRBW  
GST0BD1C FDBW  
GST0BD31 FRBW  
GST0BD35 FDBW  
GST0BD4A FRBW  
GST0BD4E FDBW  
GST0BD63 FRBW  
GST0BD67 FDBW  
GST0BD7C FRBW  
GST0BD80 FDBW



**Sentinel-2**  
**SRDB Database Extract**  
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0 NO\_FINAL\_BANDW  
1 BANDWIDTH\_APPLI

**Name:** GSKT0264TM **Descr:** FRDS

**Referenced by:**

From	To	Text
		GST0BB3E FRDS
		GST0BB57 FRDS
		GST0BB70 FRDS
		GST0BB89 FRDS
		GST0BBA2 FRDS
		GST0BBBB FRDS
		GST0BBD4 FRDS
		GST0BBED FRDS
		GST0BC06 FRDS
		GST0BC1F FRDS
		GST0BC38 FRDS
		GST0BC51 FRDS
		GST0BC6A FRDS
		GST0BC83 FRDS
		GST0BC9C FRDS
		GST0BCB5 FRDS
		GST0BCCE FRDS
		GST0BCE7 FRDS
		GST0BD00 FRDS
		GST0BD19 FRDS
		GST0BD32 FRDS
		GST0BD4B FRDS
		GST0BD64 FRDS
		GST0BD7D FRDS

0 NO\_FINAL\_DISCR  
1 DISCRIMINATOR\_





**Sentinel-2**  
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Name: GSKT0265TM Descr: FRTH

**Referenced by:**

From To Text

GST0BB3F FRTH  
GST0BB43 FDTH  
GST0BB58 FRTH  
GST0BB5C FDTH  
GST0BB71 FRTH  
GST0BB75 FDTH  
GST0BB8A FRTH  
GST0BB8E FDTH  
GST0BBA3 FRTH  
GST0BBA7 FDTH  
GST0BBBC FRTH  
GST0BBC0 FDTH  
GST0BBD5 FRTH  
GST0BBD9 FDTH  
GST0BBEE FRTH  
GST0BBF2 FDTH  
GST0BC07 FRTH  
GST0BC0B FDTH  
GST0BC20 FRTH  
GST0BC24 FDTH  
GST0BC39 FRTH  
GST0BC3D FDTH  
GST0BC52 FRTH  
GST0BC56 FDTH  
GST0BC6B FRTH  
GST0BC6F FDTH  
GST0BC84 FRTH  
GST0BC88 FDTH  
GST0BC9D FRTH  
GST0BCA1 FDTH  
GST0BCB6 FRTH  
GST0BCBA FDTH  
GST0BCCF FRTH  
GST0BCD3 FDTH  
GST0BCE8 FRTH  
GST0BCEC FDTH  
GST0BD01 FRTH  
GST0BD05 FDTH  
GST0BD1A FRTH  
GST0BD1E FDTH  
GST0BD33 FRTH  
GST0BD37 FDTH  
GST0BD4C FRTH  
GST0BD50 FDTH  
GST0BD65 FRTH  
GST0BD69 FDTH  
GST0BD7E FRTH  
GST0BD82 FDTH



**Sentinel-2**  
**SRDB Database Extract**  
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0 NO\_FINAL\_THRES  
1 THRESHOLD\_APPL

Name: GSKT0266TM Descr: FDIT

**Referenced by:**

From To Text

GST0BB40 FDIT  
GST0BB59 FDIT  
GST0BB72 FDIT  
GST0BB8B FDIT  
GST0BBA4 FDIT  
GST0BBBD FDIT  
GST0BBD6 FDIT  
GST0BBEF FDIT  
GST0BC08 FDIT  
GST0BC21 FDIT  
GST0BC3A FDIT  
GST0BC53 FDIT  
GST0BC6C FDIT  
GST0BC85 FDIT  
GST0BC9E FDIT  
GST0BCB7 FDIT  
GST0BCD0 FDIT  
GST0BCE9 FDIT  
GST0BD02 FDIT  
GST0BD1B FDIT  
GST0BD34 FDIT  
GST0BD4D FDIT  
GST0BD66 FDIT  
GST0BD7F FDIT

0 NO\_FINAL\_INTEG  
1 APPLIED\_INTEGR



**Sentinel-2**  
**SRDB Database Extract**  
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Name: GSKT0267TM Descr: FDSP

**Referenced by:**

From	To	Text
		GST0BB42 FDSP
		GST0BB5B FDSP
		GST0BB74 FDSP
		GST0BB8D FDSP
		GST0BBA6 FDSP
		GST0BBBF FDSP
		GST0BBD8 FDSP
		GST0BBF1 FDSP
		GST0BC0A FDSP
		GST0BC23 FDSP
		GST0BC3C FDSP
		GST0BC55 FDSP
		GST0BC6E FDSP
		GST0BC87 FDSP
		GST0BCA0 FDSP
		GST0BCB9 FDSP
		GST0BCD2 FDSP
		GST0BCEB FDSP
		GST0BD04 FDSP
		GST0BD1D FDSP
		GST0BD36 FDSP
		GST0BD4F FDSP
		GST0BD68 FDSP
		GST0BD81 FDSP
0		NO_FINAL_CORRE
1		CORRELATOR_SPA

Name: GSKT0293TM Descr: SID

**Referenced by:**

From	To	Text
		GST0BA77 SID
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0BB25 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST0BB28 V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST0BB29 R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE





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Name: GSKT0345TM Descr: CONS

**Referenced by:**

From To Text

GST0BB2B CONS  
GST0BB44 CONS  
GST0BB5D CONS  
GST0BB76 CONS  
GST0BB8F CONS  
GST0BBA8 CONS  
GST0BBC1 CONS  
GST0BBDA CONS  
GST0BBF3 CONS  
GST0BC0C CONS  
GST0BC25 CONS  
GST0BC3E CONS  
GST0BC57 CONS  
GST0BC70 CONS  
GST0BC89 CONS  
GST0BCA2 CONS  
GST0BCBB CONS  
GST0BCD4 CONS  
GST0BCED CONS  
GST0BD06 CONS  
GST0BD1F CONS  
GST0BD38 CONS  
GST0BD51 CONS  
GST0BD6A CONS



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37235	R_ScienceDataReport__CarrierAmplitude	212	1	49	6	790	Y	30	VAR_W	GST0B617	CARR_AMPL		Y	37235	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST0B617	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST0BD97	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0BD98	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0BD99	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG1BBC	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0BD9A	SN	Serial_Number__not_used_	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BD9B	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0BD9C	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0BD9D	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG1BBD	CONS_SVID_SIG	CONS_SVID_SIG			
	0	3	GST0BD9E	CONS	constellation_identifier	UINT	STRING	GSKT0345TM
	3	8	GST0BD9F	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BDA0	SIG	Signal_type	UINT	STRING	GSKT0230TM
8	10	8	GSTG1BBE	ANT_NU2	ANT_NU2			
	0	4	GST0BDA1	ANT	Antenna_identifier	UINT	STRING	GSKT0231TM
	4	4	GST0BDA2	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
9	11	8	GST0BDA3	SF_CHN	channel_number	UINT	INTEGER	Z_IDENTITY
10	12	16	GST0BDA4	C_N_0	Carrier_to_noise_power_density_ratio	SINT	INTEGER	GSKP0268TM
11	14	16	GST0BDA5	AMPL	Carrier_amplitude	SINT	INTEGER	GSKP0269TM





# Sentinel-2

## SRDB Database Extract

TM Textual Calibration Curves

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Comment/Unit:  
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Name: GSKT0230TM Descr: SIG

Referenced by:  
GST0BDA0 SIG

From	To	Text
0		GPS_L1_CA
1		GPS_L1_P
2		GPS_L2_CA
3		GPS_L2_P
4		GPS_L2_CM
5		GPS_L2_CL
6		NO_SIGNAL

Name: GSKT0231TM Descr: ANT

Referenced by:  
GST0BDA1 ANT

From	To	Text
0		FIRST_ANTENNA
1		SECOND_ANTENNA

Name: GSKT0293TM Descr: SID

Referenced by:  
GST0B617 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0BD98 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 5 of 6

181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99





**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST0BD9B V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST0BD9C R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

**Name:** GSKT0345TM **Descr:** CONS

**Referenced by:**  
GST0BD9E CONS

From	To	Text
0		GPS_CONSTELLAT



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37236	R_ScienceDataReport_NoiseHistogram_2_	212	1	49	12	796	Y	94	FIXED	GST0BA77	NOISE_HIST		Y	37236	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST0BA77	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST0BDBA	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0BDBB	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0BDBC	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG1BBF	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0BDBD	SN	Serial_Number_not_used_	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BDBE	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0BDBF	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0BDC0	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG1BC0	CHAIN_NU2	CHAIN_NU2			
	0	4	GST0BDC1	CHAIN	chain_number	UINT	STRING	GSKT0270TM
	4	12	GST0BDC2	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
8	10	16	GST0BDC3	N_POWER	Noise_power	SINT	INTEGER	GSKP0269TM
9	12	32	GST0BDC4	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
10	16	16	GST0BDC5	LVL_I_P3	normalised_signal_level_detector_counts_of_the_positive_I n_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
11	18	16	GST0BDC6	LVL_I_P1	normalised_signal_level_detector_counts_of_the_positive_I n_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
12	20	16	GST0BDC7	LVL_I_M1	normalised_signal_level_detector_counts_of_the_negative _In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
13	22	16	GST0BDC8	LVL_I_M3	normalised_signal_level_detector_counts_of_the_negative _In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
14	24	32	GST0BDC9	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
15	28	32	GST0BDCA	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
16	32	16	GST0BDCB	LVL_Q_P3	normalised_signal_level_detector_counts_of_the_quadratur e_In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
17	34	16	GST0BDCC	LVL_Q_P1	normalised_signal_level_detector_counts_of_the_quadratur e_In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
18	36	16	GST0BDCE	LVL_Q_M1	normalised_signal_level_detector_counts_of_the_negative _quadrature_In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
19	38	16	GST0BDCE	LVL_Q_M3	normalised_signal_level_detector_counts_of_the_negative _quadrature_In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
20	40	32	GST0BDCF	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37236	R_ScienceDataReport__NoiseHistogram_2_	212	1	49	12	796	Y	94	FIXED	GST0BA77	NOISE_HIST		Y	37236	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
21	44	16	GSTG1BC1	CHAIN_NU2	CHAIN_NU2			
	0	4	GST0BDD0	CHAIN	chain_number	UINT	STRING	GSKT0270TM
	4	12	GST0BDD1	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
22	46	16	GST0BDD2	N_POWER	Noise_power	SINT	INTEGER	GSKP0269TM
23	48	32	GST0BDD3	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
24	52	16	GST0BDD4	LVL_I_P3	normalised_signal_level_detector_counts_of_the_positive_I n_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
25	54	16	GST0BDD5	LVL_I_P1	normalised_signal_level_detector_counts_of_the_positive_I n_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
26	56	16	GST0BDD6	LVL_I_M1	normalised_signal_level_detector_counts_of_the_negative _In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
27	58	16	GST0BDD7	LVL_I_M3	normalised_signal_level_detector_counts_of_the_negative _In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
28	60	32	GST0BDD8	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
29	64	32	GST0BDD9	N_U_5	not_used	UINT	INTEGER	Z_IDENTITY
30	68	16	GST0BDDA	LVL_Q_P3	normalised_signal_level_detector_counts_of_the_quadratu r_e_In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
31	70	16	GST0BDDB	LVL_Q_P1	normalised_signal_level_detector_counts_of_the_quadratu r_e_In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
32	72	16	GST0BDDC	LVL_Q_M1	normalised_signal_level_detector_counts_of_the_negative _quadrature_In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
33	74	16	GST0BDDD	LVL_Q_M3	normalised_signal_level_detector_counts_of_the_negative _quadrature_In_2D_phase_samples	UINT	INTEGER	Z_IDENTITY
34	76	32	GST0BDDE	N_U_6	not_used	UINT	INTEGER	Z_IDENTITY



**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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**Name:** GSKP0269TM **Descr:** AMPL

**Unit:** dB

X

Y

**Referenced by:**

GST0BDC3 N\_POWER  
GST0BDD2 N\_POWER

**Modelname:** GENERIC

-32768

-327.68

32767

327.67



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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**Name:** GSKT0270TM **Descr:** CHAIN

**Referenced by:**

GST0BDC1 CHAIN  
GST0BDD0 CHAIN

From	To	Text
0		ANTENNA_1_-_L1
1		ANTENNA_1_-_L2

**Name:** GSKT0293TM **Descr:** SID

**Referenced by:**

GST0BA77 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0BDBB FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75





**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
Page: 5 of 6

181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 , 77  
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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST0BDBE V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST0BDBF R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE



# Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2. 77  
Page: 1 of 1

Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37237	R_SciData__ScienceDataReport__AGC_Statu	212	1	49	13	797	Y	34	VAR_W	GST0B86E	AGC_STATUS		Y	37237	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST0B86E	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST0BDF3	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0BDF4	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0BDF5	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG1BC2	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0BDF6	SN	Serial_Number__not_used_	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BDF7	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0BDF8	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0BDF9	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	32	GST0BDFA	GCTS_MSB	gain_control_change_timestamp_MSB_part	UINT	INTEGER	Z_IDENTITY
8	12	32	GST0BDFB	GCTS_LSB	gain_control_change_timestamp_LSB_part	UINT	INTEGER	Z_IDENTITY
9	16	8	GSTG1BC3	CHAIN_NU_L_U_E	CHAIN_NU_L_U_E			
	0	4	GST0BDFC	CHAIN	Chain_index	UINT	STRING	GSKT0271TM
	4	1	GST0BDFD	N_U	not_used	UINT	INTEGER	Z_IDENTITY
	5	1	GST0BDFF	L	lower_settling_threshold	UINT	STRING	GSKT0272TM
	6	1	GST0BDFF	U	upper_settling_threshold	UINT	STRING	GSKT0273TM
	7	1	GST0BE00	E	Enabled	UINT	STRING	GSKT0274TM
10	17	8	GST0BE01	GAIN	analogue_gain_setting	UINT	INTEGER	Z_IDENTITY
11	18	16	GST0BE02	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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**Name:** GSKT0271TM **Descr:** CHAIN

**Referenced by:**  
GST0BDFC CHAIN

From	To	Text
0		ANTENNA_1_-_L1
1		ANTENNA_1_-_L2

**Name:** GSKT0272TM **Descr:** L

**Referenced by:**  
GST0BDFE L

From	To	Text
0		NOT_BELOW_LOWE
1		LOWER_SETTLING

**Name:** GSKT0273TM **Descr:** U

**Referenced by:**  
GST0BDFF U

From	To	Text
0		NOT_ABOVE_UPPE
1		UPPER_SETTLING

**Name:** GSKT0274TM **Descr:** E

**Referenced by:**  
GST0BE00 E

From	To	Text
0		AGC_DISABLED
1		AGC_ENABLED

**Name:** GSKT0293TM **Descr:** SID

**Referenced by:**  
GST0B86E SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST



**Sentinel-2**  
**SRDB Database Extract**  
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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0BDF4 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



**Sentinel-2**  
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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
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Date: 11.02.2013  
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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99





**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST0BDF7 V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST0BDF8 R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37238	R_ScienceDataReport__GPS_NAV_Almanac	212	1	49	13	797	Y	58	VAR_W	GST0B86E	GPS_NAV_ALM		Y	37238	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST0B86E	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST0BE17	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0BE18	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0BE19	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG1BC4	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0BE1A	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BE1B	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0BE1C	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0BE1D	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG1BC5	CONS_SVID_NU	CONS_SVID_NU			
	0	3	GST0BE1E	CONS	constellation_identifier	UINT	STRING	GSKT0343TM
	3	8	GST0BE1F	SV_ID	Space_vehicle_identifier	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BE20	N_U	not_used	UINT	INTEGER	Z_IDENTITY
8	10	16	GST0BE21	T_REC	Time_of_reception	UINT	INTEGER	Z_IDENTITY
9	12	8	GST0BE22	ACQ_SV_ID	SV_identity_of_download	UINT	INTEGER	Z_IDENTITY
10	13	8	GST0BE23	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
11	14	8	GST0BE24	WNa	Week_number	UINT	INTEGER	Z_IDENTITY
12	15	8	GSTG1BC6	NDH_SH	NDH_SH			
	0	3	GST0BE25	NDH	Navigation_Data_Health	UINT	STRING	GSKT0008TM
	3	5	GST0BE26	SH	Signal_Health	UINT	STRING	GSKT0009TM
13	16	16	GST0BE27	a_f0	SV_clock_correction_polynomial_constants	SINT	INTEGER	GSKP0010TM
14	18	16	GST0BE28	a_f1	SV_clock_correction_polynomial_constants	SINT	INTEGER	GSKP0011TM
15	20	8	GST0BE29	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
16	21	8	GST0BE2A	t_oa	SV_clock_correlation_reference_time	UINT	INTEGER	GSKP0012TM
17	22	16	GST0BE2B	E	Eccentricity	UINT	INTEGER	GSKP0013TM
18	24	16	GST0BE2C	rho_i	Derivation__correction__of_inclination	SINT	INTEGER	GSKP0014TM
19	26	16	GST0BE2D	Omega_DOT	rate_of_right_ascension	SINT	INTEGER	GSKP0015TM
20	28	32	GST0BE2E	Root_A	Square_root_of_the_semimajor_axis	UINT	INTEGER	GSKP0016TM
21	32	32	GST0BE2F	Omega_0	Longitude_of_ascending_node_of_Orbit_plane_at_weekly_epoch	SINT	INTEGER	GSKP0017TM



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatn	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37238	R_ScienceDataReport__GPS_NAV_Almanac	212	1	49	13	797	Y	58	VAR_W	GST0B86E	GPS_NAV_ALM		Y	37238	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
22	36	32	GST0BE30	w	argument_of_perigee	SINT	INTEGER	GSKP0017TM
23	40	32	GST0BE31	M_0	mean_anomaly_at_reference_time	SINT	INTEGER	GSKP0017TM



**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

Date: 11.02.2013  
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**Name:** GSKP0010TM **Descr:** a\_f0

**Referenced by:**

**Unit:** s X Y

GST0BE27 a\_f0

**Modelname:** GENERIC

-1024 -0.0009765625  
1023 0.000975608826

**Name:** GSKP0011TM **Descr:** a\_f1

**Referenced by:**

**Unit:** s/s X Y

GST0BE28 a\_f1

**Modelname:** GENERIC

-1024 -3.7252903E-09  
1023 3.72165232E-09

**Name:** GSKP0012TM **Descr:** t\_oa

**Referenced by:**

**Unit:** s X Y

GST0BE2A t\_oa

**Modelname:** GENERIC

0 0  
255 1044480

**Name:** GSKP0013TM **Descr:** E

**Referenced by:**

**Unit:** X Y

GST0BE2B E

**Modelname:** GENERIC

0 0  
65535 0.031249523163

**Name:** GSKP0014TM **Descr:** rho\_i

**Referenced by:**

**Unit:** sc X Y

GST0BE2C rho\_i

**Modelname:** GENERIC

-32768 -0.0625  
32767 0.062498092651

**Name:** GSKP0015TM **Descr:** Omega\_DOT

**Referenced by:**

**Unit:** sc/s X Y

GST0BE2D Omega\_DOT

**Modelname:** GENERIC

-32768 -0.00000011920929  
32767 0.000000119205652

**Name:** GSKP0016TM **Descr:** Root\_A

**Referenced by:**

**Unit:** rotm X Y

GST0BE2E Root\_A

**Modelname:** GENERIC

1 0.00048828125  
16777215 8191.999511719



**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

Date: 11.02.2013  
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**Name:** GSKP0017TM **Descr:** Omega\_0

**Unit:** sc

X

Y

**Referenced by:**

GST0BE2F Omega\_0

GST0BE30 w

GST0BE31 M\_0

---

**Modelname:** GENERIC

-8388608

-1

8388607

0.999999880791

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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
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Name: GSKT0008TM Descr: NDH

Referenced by:  
GST0BE25 NDH

From	To	Text
0		ALL_OK
1		PARITY_FAILURE
2		TLM_HOW_PROBLE
3		Z_COUNT_BAD
4		SUB-FRAMES_1_2
5		SUB-FRAMES_4_5
6		ALL_UPLOADED_B
7		ALL_DATA_BAD

Name: GSKT0009TM Descr: SH

Referenced by:  
GST0BE26 SH

From	To	Text
0		ALL_OK
1		ALL_WEAK
2		ALL_DEAD
3		ALL_WITHOUT_DA
4		L1_P_WEAK
5		L1_P_DEAD
6		L1_P_WITHOUT_D
7		L2_P_WEAK
8		L2_P_DEAD
9		L2_P_WITHOUT_D
10		L1_C_WEAK
11		L1_C_DEAD
12		L1_C_WITHOUT_D
13		L2_C_WEAK
14		L2_C_DEAD
15		L2_C_WITHOUT_D
16		L1_AND_L2_P_WE
17		L1_AND_L2_P_DE
18		L1_AND_L2_P_WI
19		L1_AND_L2_C_WE
20		L1_AND_L2_C_DE
21		L1_AND_L2_C_WI
22		L1_WEAK
23		L1_DEAD
24		L1_WITHOUT_DAT
25		L2_WEAK
26		L2_DEAD
27		L2_WITHOUT_DAT
28		GPS_SV_TEMP_OU
29		GPS_SV_WILL_BE
30		SPARE
31		OTHER_ANOMALIE



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

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Comment/Unit:  
Database: SISS2CSW  
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Name: GSKT0293TM Descr: SID

Referenced by:  
GST0B86E SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST

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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0BE18 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92





**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
Rel./Iss. 2 . 77  
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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST0BE1B V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST0BE1C R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

**Name:** GSKT0343TM **Descr:** CONS

**Referenced by:**  
GST0BE1E CONS

From	To	Text
0		GPS_CONSTELLAT



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37239	R_ScienceDataReport__GPS_NAV_Ephemeris	212	1	49	13	797	Y	90	VAR_W	GST0B86E	GPS_NAV_EPH		Y	37239	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST0B86E	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST0BE46	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0BE47	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0BE48	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG1BC7	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0BE49	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BE4A	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0BE4B	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0BE4C	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG1C09	CONS_SVID_NU	CONS_SVID_NU			
	0	3	GST0C162	CONS	constellation_identifier	UINT	STRING	GSKT0344TM
	3	8	GST0C163	SV_ID	Space_vehicle_identifier	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BE4F	N_U	not_used	UINT	INTEGER	Z_IDENTITY
8	10	16	GST0BE50	T_REC	Time_of_reception	UINT	INTEGER	Z_IDENTITY
9	12	16	GSTG1BC9	AS_D2_CF_C2_A_NH	AS_D2_CF_C2_A_NH_SH_URA			
	0	1	GST0BE51	AS	Anti_spoof_flag	UINT	STRING	GSKT0018TM
	1	1	GST0BE52	D2	Data_flag_for_L2_P_2D_code	UINT	STRING	GSKT0019TM
	2	1	GST0BE53	CF	curve_fit_interval	UINT	STRING	GSKT0020TM
	3	2	GST0BE54	C2	Codes_on_L2_channel	UINT	STRING	GSKT0021TM
	5	1	GST0BE55	A	Alert_flag	UINT	STRING	GSKT0022TM
	6	1	GST0BE56	NH	Navigation_Data_Health_Summary	UINT	STRING	GSKT0023TM
	7	5	GST0BE57	SH	Signal_health	UINT	STRING	GSKT0024TM
	12	4	GST0BE58	URA	GPS_SV_Accuracy	UINT	INTEGER	Z_IDM
10	14	16	GSTG1BCA	NU2_WN	NU2_WN			
	0	6	GST0BE59	N_U_2	not_used	UINT	INTEGER	Z_IDENTITY
	6	10	GST0BE5A	WN	week_number	UINT	INTEGER	Z_IDENTITY
11	16	16	GST0BE5B	IODC	Issue_of_Data_clock	UINT	INTEGER	Z_IDENTITY
12	18	16	GST0BE5C	a_f1	GPS_SV_Clock_correction_polynomial_coefficients	SINT	INTEGER	GSKP0025TM
13	20	32	GST0BE5D	a_f0	GPS_SV_Clock_correction_polynomial_coefficients	SINT	INTEGER	GSKP0026TM
14	24	8	GST0BE5E	a_f2	GPS_SV_Clock_correction_polynomial_coefficients	SINT	INTEGER	GSKP0027TM
15	25	8	GST0BE5F	T_GD	estimated_group_delay	SINT	INTEGER	GSKP0028TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37239	R_ScienceDataReport__GPS_NAV_Ephemeris	212	1	49	13	797	Y	90	VAR_W	GST0B86E	GPS_NAV_EPH		Y	37239	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
16	26	16	GST0BE60	t_oc	GPS_SV_Clock_data_reference_time	UINT	INTEGER	GSKP0029TM
17	28	16	GST0BE61	IODE	Issue_of_Data_2C__Ephemeris	UINT	INTEGER	Z_IDENTITY
18	30	16	GST0BE62	C_rs	amplitude_of_the_sine_harmonic_correction_term_to_the_orbit_radius	SINT	INTEGER	GSKP0030TM
19	32	16	GST0BE63	C_rc	amplitude_of_the_cosine_harmonic_correction_term_to_the_orbit_radius	SINT	INTEGER	GSKP0030TM
20	34	16	GST0BE64	C_us	amplitude_of_the_sine_harmonic_correction_term_to_the_argument_of_Lattitude	SINT	INTEGER	GSKP0031TM
21	36	16	GST0BE65	C_uc	amplitude_of_the_cosine_harmonic_correction_term_to_the_argument_of_Lattitude	SINT	INTEGER	GSKP0031TM
22	38	16	GST0BE66	C_is	amplitude_of_the_sine_harmonic_correction_term_to_the_angle_of_inclination	SINT	INTEGER	GSKP0031TM
23	40	16	GST0BE67	C_ic	amplitude_of_the_cosine_harmonic_correction_term_to_the_angle_of_inclination	SINT	INTEGER	GSKP0031TM
24	42	16	GST0BE68	Delta_n	mean_motion_difference_from_computed_value	SINT	INTEGER	GSKP0032TM
25	44	32	GST0BE69	M_0	mean_anomaly_at_reference_time	SINT	INTEGER	GSKP0033TM
26	48	32	GST0BE6A	E	Eccentricity	UINT	INTEGER	GSKP0034TM
27	52	32	GST0BE6B	Root_A	square_root_for_the_semi_major_axis	UINT	INTEGER	GSKP0035TM
28	56	32	GST0BE6C	Omega_0	longitude_of_ascending_node_of_orbit_plane_at_weekly_epoch	SINT	INTEGER	GSKP0033TM
29	60	32	GST0BE6D	i_0	Inclination_angle_at_reference_time	SINT	INTEGER	GSKP0033TM
30	64	32	GST0BE6E	w	argument_of_perigee	SINT	INTEGER	GSKP0033TM
31	68	32	GST0BE6F	Omega_DOT	rate_of_right_ascension	SINT	INTEGER	GSKP0036TM
32	72	16	GST0BE70	t_oe	reference_time_Ephemeris	UINT	INTEGER	GSKP0029TM
33	74	16	GST0BE71	I_DOT	rate_of_inclination_angle	SINT	INTEGER	GSKP0037TM



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**Name:** GSKP0025TM **Descr:** a\_f1 **Referenced by:**  
**Unit:** s/s **X** **Y** GST0BE5C a\_f1

**Modelname:** GENERIC

-32768 -3.7252903E-09  
32767 3.72517661E-09

**Name:** GSKP0026TM **Descr:** a\_f0 **Referenced by:**  
**Unit:** s **X** **Y** GST0BE5D a\_f0

**Modelname:** GENERIC

-2097152 -0.0009765625  
2097151 0.000976562034

**Name:** GSKP0027TM **Descr:** a\_f2 **Referenced by:**  
**Unit:** s/s2 **X** **Y** GST0BE5E a\_f2

**Modelname:** GENERIC

-128 -3.5527137E-15  
127 3.5249581E-15

**Name:** GSKP0028TM **Descr:** T\_GD **Referenced by:**  
**Unit:** s **X** **Y** GST0BE5F T\_GD

**Modelname:** GENERIC

-128 -0.000000059604645  
127 5.91389835E-08

**Name:** GSKP0029TM **Descr:** t\_oc **Referenced by:**  
**Unit:** s **X** **Y** GST0BE60 t\_oc  
GST0BE70 t\_oe

**Modelname:** GENERIC

0 0  
65535 1048560

**Name:** GSKP0030TM **Descr:** C\_rs **Referenced by:**  
**Unit:** m **X** **Y** GST0BE62 C\_rs  
GST0BE63 C\_rc

**Modelname:** GENERIC

-32768 -1024  
32767 1023.96875

**Name:** GSKP0031TM **Descr:** C\_us **Referenced by:**  
**Unit:** rad **X** **Y** GST0BE64 C\_us  
GST0BE65 C\_uc  
GST0BE66 C\_is  
GST0BE67 C\_ic

**Modelname:** GENERIC

-32768 -0.000061035156  
32767 0.0000610332936



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**Name:** GSKP0032TM **Descr:** Delta\_n  
**Unit:** sc/s X Y **Referenced by:** GST0BE68 Delta\_n

**Modelname:** GENERIC

-32768 -3.7252903E-09  
32767 3.72517661E-09

**Name:** GSKP0033TM **Descr:** M\_0  
**Unit:** sc X Y **Referenced by:** GST0BE69 M\_0  
GST0BE6C Omega\_0  
GST0BE6D i\_0  
GST0BE6E w

**Modelname:** GENERIC

-2147483648 -1  
2147483647 0.999999999534

**Name:** GSKP0034TM **Descr:** E  
**Unit:** X Y **Referenced by:** GST0BE6A E

**Modelname:** GENERIC

0 0  
4294967295 0.499999999884

**Name:** GSKP0035TM **Descr:** Root\_A  
**Unit:** rotm X Y **Referenced by:** GST0BE6B Root\_A

**Modelname:** GENERIC

1 0.00000190734863  
4294967295 8191.999998093

**Name:** GSKP0036TM **Descr:** Omega\_DOT  
**Unit:** sc/s X Y **Referenced by:** GST0BE6F Omega\_DOT

**Modelname:** GENERIC

-8388608 -0.00000095367432  
8388607 0.000000953674203

**Name:** GSKP0037TM **Descr:** I\_DOT  
**Unit:** sc/s X Y **Referenced by:** GST0BE71 I\_DOT

**Modelname:** GENERIC

-8192 -9.3132257E-10  
8191 9.3120888E-10

**Name:** Z\_IDM **Descr:** Identity metre [m]  
**Unit:** m X Y **Referenced by:** GST0BE58 URA

**Modelname:** GENERIC





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**Name:** GSKT0018TM **Descr:** AS

**Referenced by:**  
GST0BE51 AS

From	To	Text
0		ANTI-SPOOF_OFF
1		ANTI-SPOOF_ON

**Name:** GSKT0019TM **Descr:** D2

**Referenced by:**  
GST0BE52 D2

From	To	Text
0		DATA_FLAG_ON
1		DATA_FLAG_OFF

**Name:** GSKT0020TM **Descr:** CF

**Referenced by:**  
GST0BE53 CF

From	To	Text
0		4HRS
1		OVER_4HRS

**Name:** GSKT0021TM **Descr:** C2

**Referenced by:**  
GST0BE54 C2

From	To	Text
0		RESERVED
1		P-CODE_ON
2		CA-CODE_ON

**Name:** GSKT0022TM **Descr:** A

**Referenced by:**  
GST0BE55 A

From	To	Text
0		NOMINAL
1		UNAUTHORIZED_U

**Name:** GSKT0023TM **Descr:** NH

**Referenced by:**  
GST0BE56 NH

From	To	Text
0		NAV_DATA_OK
1		SOME_OR_ALL_NA



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Name: GSKT0024TM Descr: SH

Referenced by:  
GST0BE57 SH

From	To	Text
0		ALL_OK
1		ALL_WEAK
2		ALL_DEAD
3		ALL_WITHOUT_DA
4		L1_P_WEAK
5		L1_P_DEAD
6		L1_P_WITHOUT_D
7		L2_P_WEAK
8		L2_P_DEAD
9		L2_P_WITHOUT_D
10		L1_C_WEAK
11		L1_C_DEAD
12		L1_C_WITHOUT_D
13		L2_C_WEAK
14		L2_C_DEAD
15		L2_C_WITHOUT_D
16		L1_AND_L2_P_WE
17		L1_AND_L2_P_DE
18		L1_AND_L2_P_WI
19		L1_AND_L2_C_WE
20		L1_AND_L2_C_DE
21		L1_AND_L2_C_WI
22		L1_WEAK
23		L1_DEAD
24		L1_WITHOUT_DAT
25		L2_WEAK
26		L2_DEAD
27		L2_WITHOUT_DAT
28		GPS_SV_TEMP_OU
29		GPS_SV_WILL_BE
30		SPARE
31		OTHER_ANOMALIE



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Name: GSKT0293TM Descr: SID

Referenced by:  
GST0B86E SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST

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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0BE47 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST0BE4A V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST0BE4B R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

**Name:** GSKT0344TM **Descr:** CONS

**Referenced by:**  
GST0C162 CONS

From	To	Text
0		GPS_CONSTELLAT





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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37240	R_ScienceDat__GPS_NAV_UTC_and_Ionos	212	1	49	13	797	Y	50	FIXED	GST0B86E	GPS_NAV_UTC_IO		Y	37240	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST0B86E	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST0BE86	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0BE87	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0BE88	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG1BCB	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0BE89	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BE8A	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0BE8B	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0BE8C	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG1BCC	CONS_ACQSVI_NU3	CONS_ACQSVI_NU3			
	0	3	GST0BE8D	CONS	constellation_identifier	UINT	STRING	GSKT0343TM
	3	8	GST0BE8E	ACQ_SV_ID	SV_identity_of_download	UINT	INTEGER	Z_IDENTITY
	11	5	GST0BE8F	N_U_3	not_used	UINT	INTEGER	Z_IDENTITY
8	10	16	GST0BE90	T_REC	Time_of_reception	UINT	INTEGER	Z_IDENTITY
9	12	16	GST0BE91	N_U_4	not_used	UINT	INTEGER	Z_IDENTITY
10	14	8	GST0BE92	delta_t_ls	delta_time_due_to_leap_seconds	SINT	INTEGER	Z_IDS
11	15	8	GST0BE93	t_ot	reference_time_for_UTC_data	UINT	INTEGER	GSKP0012TM
12	16	8	GST0BE94	WN_t	UTC_reference_week_number	UINT	INTEGER	Z_IDWK
13	17	8	GST0BE95	WN_LSF	UTC_reference_week_number_due_to_leap_seconds	UINT	INTEGER	Z_IDWK
14	18	8	GST0BE96	DN	Day_number	UINT	INTEGER	Z_IDENTITY
15	19	8	GST0BE97	delta_t_LSF	delta_time_due_to_leap_seconds	SINT	INTEGER	Z_IDS
16	20	32	GST0BE98	A_0	polynomial_constants	SINT	INTEGER	GSKP0038TM
17	24	32	GST0BE99	A_1	polynomial_constants	SINT	INTEGER	GSKP0039TM
18	28	8	GST0BE9A	alpha0	lonosphere_parameter	SINT	INTEGER	GSKP0040TM
19	29	8	GST0BE9B	alpha1	lonosphere_parameter	SINT	INTEGER	GSKP0041TM
20	30	8	GST0BE9C	alpha2	lonosphere_parameter	SINT	INTEGER	GSKP0042TM
21	31	8	GST0BE9D	alpha3	lonosphere_parameter	SINT	INTEGER	GSKP0043TM
22	32	8	GST0BE9E	beta0	lonosphere_parameter	SINT	INTEGER	GSKP0044TM
23	33	8	GST0BE9F	beta1	lonosphere_parameter	SINT	INTEGER	GSKP0045TM
24	34	8	GST0BEA0	beta2	lonosphere_parameter	SINT	INTEGER	GSKP0046TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatn	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37240	R_ScienceDat__GPS_NAV_UTC_and_Ionosp	212	1	49	13	797	Y	50	FIXED	GST0B86E	GPS_NAV_UTC_IO		Y	37240	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
25	35	8	GST0BEA1	beta3	lonosphere_parameter	SINT	INTEGER	GSKP0047TM



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Name: GSKP0012TM Descr: t\_oa

Referenced by:

Unit: s X Y

GST0BE93 t\_ot

Modelname: GENERIC

0 0  
255 1044480

Name: GSKP0038TM Descr: A\_0

Referenced by:

Unit: s X Y

GST0BE98 A\_0

Modelname: GENERIC

-2147483648 -2  
2147483647 1.999999999069

Name: GSKP0039TM Descr: A\_1

Referenced by:

Unit: s/s X Y

GST0BE99 A\_1

Modelname: GENERIC

-8388608 -7.4505806E-09  
8388607 7.45057971E-09

Name: GSKP0040TM Descr: alpha0

Referenced by:

Unit: s X Y

GST0BE9A alpha0

Modelname: GENERIC

-128 -0.00000011920929  
127 0.000000118277967

Name: GSKP0041TM Descr: alpha1

Referenced by:

Unit: s/sc X Y

GST0BE9B alpha1

Modelname: GENERIC

-128 -0.00000095367432  
127 0.000000946223736

Name: GSKP0042TM Descr: alpha2

Referenced by:

Unit: s/c2 X Y

GST0BE9C alpha2

Modelname: GENERIC

-128 -0.0000076293945  
127 0.00000756978989

Name: GSKP0043TM Descr: alpha3

Referenced by:

Unit: s/c3 X Y

GST0BE9D alpha3

Modelname: GENERIC

-128 -0.0000076293945  
127 0.00000756978989

Name: GSKP0044TM Descr: beta0

Referenced by:

Unit: s X Y

GST0BE9E beta0

Modelname: GENERIC

-128 -262144  
127 260096



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**Name:** GSKP0045TM **Descr:** beta1

**Unit:** s/sc X Y

**Modelname:** GENERIC

-128 -2097152  
127 2080768

**Referenced by:**

GST0BE9F beta1

**Name:** GSKP0046TM **Descr:** beta2

**Unit:** s/c2 X Y

**Modelname:** GENERIC

-128 -8388608  
127 8323072

**Referenced by:**

GST0BEA0 beta2

**Name:** GSKP0047TM **Descr:** beta3

**Unit:** s/c3 X Y

**Modelname:** GENERIC

-128 -8388608  
127 8323072

**Referenced by:**

GST0BEA1 beta3

**Name:** Z\_IDS **Descr:** Identity [s]

**Unit:** s X Y

**Modelname:** GENERIC

**Referenced by:**

GST0BE92 delta\_t\_Is  
GST0BE97 delta\_t\_LSF

**Name:** Z\_IDWK **Descr:** Identity weeks [-]

**Unit:** wk X Y

**Modelname:** GENERIC

**Referenced by:**

GST0BE94 WN\_t  
GST0BE95 WN\_LSF



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**Name:** GSKT0293TM **Descr:** SID

**Referenced by:**  
GST0B86E SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST

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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0BE87 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75





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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST0BE8A V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST0BE8B R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE

**Name:** GSKT0343TM **Descr:** CONS

**Referenced by:**  
GST0BE8D CONS

From	To	Text
0		GPS_CONSTELLAT



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37241	R_SciDa__ScienceDataReport__Auxiliary_8_	212	1	49	6	790	Y	54	FIXED	GST0B617	SENTINEL_AUX		Y	37241	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	GST0B617	SID	structure_identifier	UINT	STRING	GSKT0293TM
2	1	24	GST0BEB6	FILLER	not_used	UINT	INTEGER	Z_IDENTITY
3	4	8	GST0BEB7	FE_TEMP	R_2F_F_frontend_temperature	UINT	STRING	GSKT0298TM
4	5	8	GST0BEB8	ID	internal_use	UINT	INTEGER	Z_IDENTITY
5	6	8	GSTG1BCD	SN_V_RMODE	SN_V_RMODE			
	0	4	GST0BEB9	SN	Serial_Number__not_used__	UINT	INTEGER	Z_IDENTITY
	4	1	GST0BEBA	V	data_valid_flag	UINT	STRING	GSKT0299TM
	5	3	GST0BEBB	R_MODE	receiver_mode	UINT	STRING	GSKT0300TM
6	7	8	GST0BECB	NOF_RECORD	Nof_records_in_data_block	UINT	INTEGER	Z_IDENTITY
7	8	16	GSTG1BFE	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
	0	3	GST0C0F5	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel__	UINT	STRING	GSKT0301TM
	3	8	GST0BEBE	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST0BEBF	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
	12	4	GST0BEC0	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
8	10	8	GST0BEC1	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
9	11	8	GSTG1BCF	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			
	0	2	GST0BEC2	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
	2	1	GST0BEC3	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
	3	1	GST0BEC4	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
	4	1	GST0BEC5	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM
	5	1	GST0BEC6	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
	6	1	GST0BEC7	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
	7	1	GST0BEC8	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM
10	12	16	GSTG1BFF	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
	0	3	GST0C0F6	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel__	UINT	STRING	GSKT0301TM
	3	8	GST0BECA	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST0BECB	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
	12	4	GST0BECC	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
11	14	8	GST0BEDC	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
12	15	8	GSTG1BD1	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37241	R_SciDa__ScienceDataReport__Auxiliary_8_	212	1	49	6	790	Y	54	FIXED	GST0B617	SENTINEL_AUX		Y	37241	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
13	16	0	GST0BECE	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
		2	GST0BECF	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
		3	GST0BED0	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
		4	GST0BED1	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM
		5	GST0BED2	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
		6	GST0BED3	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
		7	GST0BED4	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM
	18	16	GSTG1C00	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
		0	GST0C0F7	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel_	UINT	STRING	GSKT0301TM
		3	GST0BED6	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
		11	GST0BED7	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
		12	GST0BED8	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
		8	GST0BED9	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
14	19	8	GSTG1BD3	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			
15	20	0	GST0BEDA	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
		2	GST0BEDB	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
		3	GST0BEDC	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
		4	GST0BEDD	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM
		5	GST0BEDE	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
		6	GST0BEDF	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
		7	GST0BEE0	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM
	22	16	GSTG1C01	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
		0	GST0C0F8	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel_	UINT	STRING	GSKT0301TM
		3	GST0BEE2	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
		11	GST0BEE3	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
		12	GST0BEE4	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
		8	GST0BEE5	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
16	23	8	GSTG1BD5	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			
17	24	0	GST0BEE6	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
		2	GST0BEE7	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
		3	GST0BEE8	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
		4	GST0BEE9	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37241	R_SciDa__ScienceDataReport__Auxiliary_8_	212	1	49	6	790	Y	54	FIXED	GST0B617	SENTINEL_AUX		Y	37241	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
19	5	1	GST0BEEA	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
	6	1	GST0BEEB	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
	7	1	GST0BEEC	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM
	24	16	GSTG1C02	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
	0	3	GST0C0F9	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel_	UINT	STRING	GSKT0301TM
	3	8	GST0BEEE	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST0BEEF	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
20	12	4	GST0BEF0	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
	26	8	GST0BEF1	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
	27	8	GSTG1BD7	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			
21	0	2	GST0BEF2	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
	2	1	GST0BEF3	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
	3	1	GST0BEF4	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
	4	1	GST0BEF5	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM
	5	1	GST0BEF6	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
	6	1	GST0BEF7	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
	7	1	GST0BEF8	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM
	28	16	GSTG1C03	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
	0	3	GST0C0FA	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel_	UINT	STRING	GSKT0301TM
	3	8	GST0BEFA	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
22	11	1	GST0BEFB	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
	12	4	GST0BEFC	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
	30	8	GST0BEFD	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
	31	8	GSTG1BD9	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			
23	0	2	GST0BEFE	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
	2	1	GST0BEFF	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
	3	1	GST0BF00	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
	4	1	GST0BF01	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM
	5	1	GST0BF02	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
	6	1	GST0BF03	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
	7	1	GST0BF04	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM



## Sentinel-2 SRDB Database Extract

TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
GSY_SCI37241	R_SciDa__ScienceDataReport__Auxiliary_8_	212	1	49	6	790	Y	54	FIXED	GST0B617	SENTINEL_AUX		Y	37241	

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
25	32	16	GSTG1C04	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
	0	3	GST0C0FB	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel_	UINT	STRING	GSKT0301TM
	3	8	GST0BF06	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST0BF07	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
	12	4	GST0BF08	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
26	34	8	GST0BF09	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
27	35	8	GSTG1BDB	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			
	0	2	GST0BF0A	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
	2	1	GST0BF0B	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
	3	1	GST0BF0C	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
	4	1	GST0BF0D	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM
	5	1	GST0BF0E	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
	6	1	GST0BF0F	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
	7	1	GST0BF10	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM
28	36	16	GSTG1C05	SCHEME_SVID_AS_M	SCHEME_SVID_AS_MFCHN			
	0	3	GST0C0FC	SCHEME	Tracking_Scheme__signal_allocation_for_single_frequency_channels_within_a_multi_2D_frequency_channel_	UINT	STRING	GSKT0301TM
	3	8	GST0BF12	SV_ID	Space_vehicle_identifier_2C__0_identifies_no_SV_found	UINT	INTEGER	Z_IDENTITY
	11	1	GST0BF13	AS	anti_spoof_flag	UINT	STRING	GSKT0168TM
	12	4	GST0BF14	MF_CHN	multi_frequency_channel_number	UINT	INTEGER	Z_IDENTITY
29	38	8	GST0BF15	MFC_TS	multi_frequency_channel_tracking_state	UINT	STRING	GSKT0275TM
30	39	8	GSTG1BDD	NDS_C3_C2_C1_A3_	NDS_C3_C2_C1_A3_A2_A1			
	0	2	GST0BF16	NDS	Navigation_Data_Synchronization_Status	UINT	STRING	GSKT0276TM
	2	1	GST0BF17	C3	code_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0277TM
	3	1	GST0BF18	C2	code_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0278TM
	4	1	GST0BF19	C1	code_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0279TM
	5	1	GST0BF1A	A3	carrier_lock_flag_for_3rd_single_freq_channel	UINT	STRING	GSKT0280TM
	6	1	GST0BF1B	A2	carrier_lock_flag_for_2nd_single_freq_channel	UINT	STRING	GSKT0281TM
	7	1	GST0BF1C	A1	carrier_lock_flag_for_1st_single_freq_channel	UINT	STRING	GSKT0281TM



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Name: GSKT0168TM Descr: AS

**Referenced by:**

From	To	Text
		GST0BEBF AS
		GST0BECB AS
		GST0BED7 AS
		GST0BEE3 AS
		GST0BEEF AS
		GST0BEFB AS
		GST0BF07 AS
		GST0BF13 AS

0	ANTI-SPOOF_OFF
1	ANTI-SPOOF_ON

Name: GSKT0275TM Descr: MFC\_TS

**Referenced by:**

From	To	Text
		GST0BEC1 MFC_TS
		GST0BECB MFC_TS
		GST0BED9 MFC_TS
		GST0BEE5 MFC_TS
		GST0BEF1 MFC_TS
		GST0BEFD MFC_TS
		GST0BF09 MFC_TS
		GST0BF15 MFC_TS

0	NO_MEASDATA_AV
1	CODE_ACQUISITI
2	CODE_ACQUISITI
3	CODE_TRACKING_
4	CODE_AND_CARRI
5	CODE_AND_CARRI
6	FINAL_TRACKING
7	FINAL_TRACKING
8	FINAL_TRACKING
9	FINAL_TRACKING
10	FINAL_TRACKING
11	FINAL_TRACKING

Name: GSKT0276TM Descr: NDS

**Referenced by:**

From	To	Text
		GST0BEC2 NDS
		GST0BECE NDS
		GST0BEDA NDS
		GST0BEE6 NDS
		GST0BEF2 NDS
		GST0BEFE NDS
		GST0BF0A NDS
		GST0BF16 NDS

0	NOT_SYNC
1	SYNC_NAVDATA_N
2	INVALID
3	SYNC_NAVDATA_I



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**Name:** GSKT0277TM **Descr:** C3

**Referenced by:**

From	To	Text
		GST0BEC3 C3
		GST0BECF C3
		GST0BEDB C3
		GST0BEE7 C3
		GST0BEF3 C3
		GST0BEFF C3
		GST0BF0B C3
		GST0BF17 C3

0	NO_CODE_LOCK
1	P2_CODE_LOCK

**Name:** GSKT0278TM **Descr:** C2

**Referenced by:**

From	To	Text
		GST0BEC4 C2
		GST0BED0 C2
		GST0BEDC C2
		GST0BEE8 C2
		GST0BEF4 C2
		GST0BF00 C2
		GST0BF0C C2
		GST0BF18 C2

0	NO_CODE_LOCK
1	P1CM_CODE_LOCK

**Name:** GSKT0279TM **Descr:** C1

**Referenced by:**

From	To	Text
		GST0BEC5 C1
		GST0BED1 C1
		GST0BEDD C1
		GST0BEE9 C1
		GST0BEF5 C1
		GST0BF01 C1
		GST0BF0D C1
		GST0BF19 C1

0	NO_CODE_LOCK
1	CA_CODE_LOCK





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**Name:** GSKT0280TM **Descr:** A3

**Referenced by:**

From	To	Text
		GST0BEC6 A3
		GST0BED2 A3
		GST0BEDE A3
		GST0BEEA A3
		GST0BEF6 A3
		GST0BF02 A3
		GST0BF0E A3
		GST0BF1A A3

0	NO_CARRIER_LOC
1	L2_CARRIER_LOC

**Name:** GSKT0281TM **Descr:** A2

**Referenced by:**

From	To	Text
		GST0BEC7 A2
		GST0BEC8 A1
		GST0BED3 A2
		GST0BED4 A1
		GST0BEDF A2
		GST0BEE0 A1
		GST0BEEB A2
		GST0BEEC A1
		GST0BEF7 A2
		GST0BEF8 A1
		GST0BF03 A2
		GST0BF04 A1
		GST0BF0F A2
		GST0BF10 A1
		GST0BF1B A2
		GST0BF1C A1

0	NO_CARRIER_LOC
1	L1_CARRIER_LOC



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**Name:** GSKT0293TM **Descr:** SID

**Referenced by:**  
GST0B617 SID

From	To	Text
215		TRACKING_STATE
216		MIN_NAV_SOL
217		IMT_GPST_CORR
218		SENTINEL_AUX
223		SAT_IN_VIEW
224		CHN_STATUS
225		CARR_PHASE
226		CARR_AMPL
227		CODE_PHASE
229		CONST_STAT
230		GPS_NAV_ALM
231		GPS_NAV_EPH
232		GPS_NAV_UTC_IO
234		AGC_STATUS
235		NOISE_HIST

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Name: GSKT0298TM Descr: FE\_TEMP

Referenced by:  
GST0BEB7 FE\_TEMP

From	To	Text
0		NA
35		-88_80
36		-88_8
37		-71_54
38		-63_7
39		-58_43
40		-54_4
41		-51_11
42		-48_32
43		-45_88
44		-43_72
45		-41_77
46		-39_98
47		-38_34
48		-36_81
49		-35_38
50		-34_04
51		-32_77
52		-31_56
53		-30_42
54		-29_33
55		-28_28
56		-27_27
57		-26_3
58		-25_37
59		-24_47
60		-23_59
61		-22_75
62		-21_93
63		-21_13
64		-20_35
65		-19_59
66		-18_85
67		-18_13
68		-17_42
69		-16_73
70		-16_06
71		-15_39
72		-14_74
73		-14_1
74		-13_48
75		-12_86
76		-12_25
77		-11_66
78		-11_07
79		-10_49
80		-9_92



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81	-9_36
82	-8_8
83	-8_25
84	-7_71
85	-7_18
86	-6_65
87	-6_13
88	-5_61
89	-5_1
90	-4_59
91	-4_09
92	-3_59
93	-3_1
94	-2_61
95	-2_13
96	-1_65
97	-1_17
98	-0_7
99	-0_23
100	0_23
101	0_7
102	1_16
103	1_61
104	2_06
105	2_52
106	2_96
107	3_41
108	3_85
109	4_29
110	4_73
111	5_17
112	5_6
113	6_04
114	6_47
115	6_9
116	7_33
117	7_75
118	8_18
119	8_6
120	9_02
121	9_45
122	9_87
123	10_29
124	10_71
125	11_12
126	11_54
127	11_96
128	12_37
129	12_79
130	13_2



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131	13_62
132	14_03
133	14_44
134	14_86
135	15_27
136	15_68
137	16_1
138	16_51
139	16_92
140	17_33
141	17_75
142	18_16
143	18_58
144	18_99
145	19_41
146	19_82
147	20_24
148	20_65
149	21_07
150	21_49
151	21_91
152	22_33
153	22_75
154	23_17
155	23_59
156	24_02
157	24_44
158	24_87
159	25_3
160	25_73
161	26_16
162	26_59
163	27_03
164	27_46
165	27_9
166	28_34
167	28_78
168	29_23
169	29_67
170	30_12
171	30_57
172	31_03
173	31_48
174	31_94
175	32_4
176	32_86
177	33_33
178	33_8
179	34_27
180	34_75



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181	35_23
182	35_71
183	36_2
184	36_69
185	37_18
186	37_68
187	38_18
188	38_69
189	39_2
190	39_71
191	40_23
192	40_76
193	41_29
194	41_82
195	42_36
196	42_91
197	43_46
198	44_02
199	44_58
200	45_15
201	45_73
202	46_31
203	46_9
204	47_5
205	48_11
206	48_72
207	49_34
208	49_97
209	50_61
210	51_26
211	51_92
212	52_59
213	53_27
214	53_96
215	54_66
216	55_38
217	56_1
218	56_84
219	57_59
220	58_36
221	59_14
222	59_94
223	60_76
224	61_59
225	62_44
226	63_31
227	64_19
228	65_11
229	66_04
230	66_99



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231	67_98
232	68_98
233	70_02
234	71_09
235	72_19
236	73_32
237	74_49
238	75_7
239	76_95
240	78_24
241	79_59
242	80_99
243	82_44
244	83_96
245	85_55
246	87_21
247	88_96
248	90_8
249	92_74
250	94_79
251	96_97
252	99_3
253	101_79
254	104_47
255	107_37

**Name:** GSKT0299TM **Descr:** V

**Referenced by:**  
GST0BEBB V

From	To	Text
0		NOT_ALL_DATA_V
1		ALL_DATA_VALID

**Name:** GSKT0300TM **Descr:** R\_MODE

**Referenced by:**  
GST0BEBB R\_MODE

From	To	Text
1		STARTUP
2		STANDBY
3		NAVIGATE



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**Name:** GSKT0301TM **Descr:** SCHEME

**Referenced by:**

**From To Text**

GST0C0F5 SCHEME  
GST0C0F6 SCHEME  
GST0C0F7 SCHEME  
GST0C0F8 SCHEME  
GST0C0F9 SCHEME  
GST0C0FA SCHEME  
GST0C0FB SCHEME  
GST0C0FC SCHEME

0 L1CA-L1PY-L2PY  
1 L1CA-L1CA  
2 L1CA-L2CM

---





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## SRDB Database Extract

### TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatn	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35501	TM_ADB_1		3_25	37	6	598	Y	53	FIXED	SST01000	105		Y	35501	ENABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	SST01000	SID_1	ID of the structure	UINT	INTEGER	Z_IDENTITY
2	1	32	SST00001	qv1_1	vector part of altitude quaternion	SINT	REAL	SSKP0001TM
3	5	32	SST00002	qv2_1	vector part of altitude quaternion	SINT	REAL	SSKP0001TM
4	9	32	SST00003	qv3_1	vector part of altitude quaternion	SINT	REAL	SSKP0001TM
5	13	32	SST00004	qs_1	vector part of altitude quaternion	SINT	REAL	SSKP0001TM
6	17	16	SST00005	rateX_1	angular rate in BRF	SINT	REAL	SSKP0002TM
7	19	16	SST00006	rateY_1	angular rate in BRF	SINT	REAL	SSKP0002TM
8	21	16	SST00007	rateZ_1	angular rate in BRF	SINT	REAL	SSKP0002TM
9	23	48	SST00008	TimeStamp_1	Time stamp of the center of integration associated with the attitude	UINT	INTEGER	SSKP0200TM
10	29	16	SST00009	julianDate_1	Julian date used for precession correction	UINT	INTEGER	Z_IDD
11	31	16	SST00010	vVectorSciX_1	X coordinate of velocity vector	SINT	REAL	SSKP0004TM
12	33	16	SST00011	vVectorSciY_1	Y coordinate of velocity vector	SINT	REAL	SSKP0004TM
13	35	16	SST00012	vVectorSciZ_1	Z coordinate of velocity vector	SINT	REAL	SSKP0004TM
14	37	8	SSTG0001	GloPar1ADB_1	Global Parameter 1 ADB			
	0	3	SSTD0013	altitQuality_1	altitude quality	UINT	STRING	SSKT0005TM
	3	1	SSTD0014	isPrecCorr_1	if set to 1, precession correction applied	UINT	STRING	SSKT0006TM
	4	1	SSTD0015	isAbberCorr_1	if set to 1, aberration correction applied	UINT	STRING	SSKT0006TM
	5	2	SSTD0016	rateQuality_1	rate quality	UINT	STRING	SSKT0007TM
	7	1	SSTD0017	isValidRate_1	if set to 1, rate information valid	UINT	STRING	SSKT0006TM
15	38	8	SST01017	attQualityIx_1	sum of single-star qualities of attitude stars	UINT	INTEGER	Z_IDENTITY



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**Name:** SSKP0001TM **Descr:** attitude

**Unit:** X Y

**Referenced by:**

SST00001 qv1\_1  
SST00002 qv2\_1  
SST00003 qv3\_1  
SST00004 qs\_1

**Modelname:** GENERIC

-2147483648  
2147483647

-2  
2

**Name:** SSKP0002TM **Descr:** angular rate

**Unit:** dg/s X Y

**Referenced by:**

SST00005 rateX\_1  
SST00006 rateY\_1  
SST00007 rateZ\_1

**Modelname:** GENERIC

-32768  
32767

-16  
16

**Name:** SSKP0004TM **Descr:** velocity vector

**Unit:** m/s X Y

**Referenced by:**

SST00010 vVectorSciX\_1  
SST00011 vVectorSciY\_1  
SST00012 vVectorSciZ\_1

**Modelname:** GENERIC

-32768  
32767

-2342128.578  
2342057.102

**Name:** SSKP0200TM **Descr:** Time Stamp

**Unit:** s X Y

**Referenced by:**

SST00008 TimeStamp\_1

**Modelname:** GENERIC

0  
281474967000000

0  
4294967296

**Name:** Z\_IDD **Descr:** Identity day [d]

**Unit:** d X Y

**Referenced by:**

SST00009 julianDate\_1

**Modelname:** GENERIC



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**Name:** SSKT0005TM **Descr:** attitude quality

**Referenced by:**  
SSTD0013 altitQuality\_1

From	To	Text
0		NOATTITUDE
1		APRIORIATT
5		COARSEATT
6		UNCONFATT
7		VALIDATT

**Name:** SSKT0006TM **Descr:** applied Y/N

**Referenced by:**  
SSTD0014 isPrecCorr\_1  
SSTD0015 isAbberCorr\_1  
SSTD0017 isValidRate\_1

From	To	Text
0		NOTAPPLIED
1		APPLIED

**Name:** SSKT0007TM **Descr:** rate quality

**Referenced by:**  
SSTD0016 rateQuality\_1

From	To	Text
0		NORATE
1		COARSERATE
2		FINERATE
3		FILTEREDRATE



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35502	TM_SDB_1	3	25	37	4	596	Y	59	FIXED	SST01000	1		Y	35502	ENABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	SST01000	SID_1	ID of the structure	UINT	INTEGER	Z_IDENTITY
2	1	16	SST00018	cycle_1	STR internal cycle number	UINT	INTEGER	Z_IDENTITY
3	3	48	SST00019	cycStartTimSt_1	Time stamp for cycle start	UINT	INTEGER	Z_IDENTITY
4	9	8	SSTG0002	GloPar1SDB_1	Global Parameter 1 SDB			
	0	2	SSTD0020	cycleTriggerS_1	0: timer; 1: preprocessor; 2: external	UINT	STRING	SSKT0008TM
	2	3	SSTD0021	opMode_1	STR operating mode	UINT	STRING	SSKT0009TM
	5	1	SSTD0022	isStreakMode_1	1: streak processing mode is active	UINT	STRING	XXKT0027TM
	6	2	SSTD0023	tecMode_1	Thermo electric cooler mode	UINT	STRING	SSKT0010TM
5	10	8	SSTG0003	GloPar2SDB_1	Global Parameter 2 SDB			
	0	1	SSTD0024	EepromErrApp_1	1: error in application part on EEPROM	UINT	STRING	SSKT0011TM
	1	1	SSTD0025	EepromErrCal_1	1: error in calibration data part on EEPROM	UINT	STRING	SSKT0011TM
	2	1	SSTD0026	ramError_1	1:RAM failure	UINT	STRING	SSKT0011TM
	3	1	SSTD0027	interfaceError_1	1:failure during interface initialisation	UINT	STRING	SSKT0011TM
	4	1	SSTD0028	watchdogError_1	1:Reboot cause by watchdog timer	UINT	STRING	SSKT0011TM
	5	1	SSTD0029	synchError_1	1:External synchronisation failed	UINT	STRING	SSKT0011TM
	6	1	SSTD0030	timingError_1	1:processing exceeded timing constraints	UINT	STRING	SSKT0011TM
	7	1	SSTD0031	fifoError_1	1:FIFO capacity exceeded	UINT	STRING	SSKT0011TM
6	11	16	SST00032	targetTemp_1	target temperature	SINT	REAL	SSKP0012TM
7	13	16	SST00033	tempDetector_1	detector temperature	SINT	REAL	SSKP0012TM
8	15	16	SST00034	tempOptics_1	optics temperature	SINT	REAL	SSKP0012TM
9	17	16	SST00035	tempHousing_1	housing temperature	SINT	REAL	SSKP0012TM
10	19	8	SST00036	numEdacErrors_1	number of errors detected by RAM EDAC	UINT	INTEGER	Z_IDENTITY
11	20	8	SSTG0004	GloPar3SDB_1	Global Parameter 3 SDB			
	0	2	SSTD0037	syncSource_1	source selected for external synchronization	UINT	STRING	SSKT0013TM
	2	6	SSTD0038	secSinTimSync_1	number of seconds since latest synchron.	UINT	INTEGER	Z_IDS
12	21	16	SST00039	meanBackgr_1	mean background	SINT	INTEGER	Z_IDENTITY
13	23	16	SST00040	numObjDetected_1	number of detected objects	UINT	INTEGER	Z_IDENTITY
14	25	16	SST00041	numObjAcquired_1	number of acquired objects	UINT	INTEGER	Z_IDENTITY
15	27	16	SST00042	numSinglePixR_1	number of single pixels removed by h/w	UINT	INTEGER	Z_IDENTITY
16	29	16	SST00043	numEoDetected_1	number of extended objects detected by h/w	UINT	INTEGER	Z_IDENTITY
17	31	8	SST00044	numStarsTracka_1	number of trackable stars	UINT	INTEGER	Z_IDENTITY



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35502	TM_SDB_1	3	25	37	4	596	Y	59	FIXED	SST01000	1		Y	35502	ENABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
18	32	8	SST00045	numStarsTrack_1	number of stars tracked	UINT	INTEGER	Z_IDENTITY
19	33	8	SST00046	numStarsForRa_1	number of stars used for rate determination	UINT	INTEGER	Z_IDENTITY
20	34	8	SST00047	numStarsIdent_1	number of identified stars	UINT	INTEGER	Z_IDENTITY
21	35	8	SST00048	numStarsUsedA_1	number of stars used for altit. Determinisation	UINT	INTEGER	Z_IDENTITY
22	36	8	SST00049	numLostTrack_1	number of fall-backs from NAT to AAD	UINT	INTEGER	Z_IDENTITY
23	37	16	SST00050	latestCommId_1	ID of latest recieved command	UINT	INTEGER	Z_IDENTITY
24	39	8	SST00051	latestCmdRes_1	result of execution of the latest recieved command	UINT	INTEGER	Z_IDENTITY
25	40	8	SST00052	numTcErrors_1	number of telecommand errors	UINT	INTEGER	Z_IDENTITY
26	41	8	SSTG0005	GloPar4SDB_1	Global Parameter 4 SDB			
	0	4	SSTD0053	AttResult_1	last result of altitude determination	SINT	STRING	SSKT0014TM
	4	4	SSTD0054	IdResult_1	last result of star identification error	SINT	STRING	SSKT0015TM
27	42	8	SST00055	tlnt_1	integration time	UINT	INTEGER	Z_IDMS
28	43	16	SST00056	offset_1	binarisation time	UINT	INTEGER	Z_IDENTITY



# Sentinel-2

## SRDB Database Extract

### TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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**Name:** SSKP0012TM **Descr:** temperature1

**Unit:** degC X Y

**Modelname:** GENERIC

-32768

32767

**Referenced by:**

SST00032 targetTemp\_1  
SST00033 tempDetector\_1  
SST00034 tempOptics\_1  
SST00035 tempHousing\_1

-3276.8

3276.7

**Name:** Z\_IDMS **Descr:** Identity [ms]

**Unit:** ms X Y

**Modelname:** GENERIC

**Referenced by:**

SST00055 tInt\_1

**Name:** Z\_IDS **Descr:** Identity [s]

**Unit:** s X Y

**Modelname:** GENERIC

**Referenced by:**

SSTD0038 secSinTimSync\_1



# Sentinel-2

## SRDB Database Extract

### TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 1 of 2

**Name:** SSKT0008TM **Descr:** trigger source

**Referenced by:**  
SSTD0020 cycleTriggerS\_1

From	To	Text
0		TIMER
1		PREPROCESSOR
2		EXTERNAL

**Name:** SSKT0009TM **Descr:** operation mode

**Referenced by:**  
SSTD0021 opMode\_1

From	To	Text
0		MODEBOOT
2		MODESTANDBY
3		MODEPHOTO
4		MODEAADF
5		MODEAADW
7		MODENAT

**Name:** SSKT0010TM **Descr:** tech mode

**Referenced by:**  
SSTD0023 tecMode\_1

From	To	Text
0		COOLEROFF
1		COOLERCONTR
2		COOLERMAX

**Name:** SSKT0011TM **Descr:** error N/Y

**Referenced by:**  
SSTD0024 EepromErrApp\_1  
SSTD0025 EepromErrCal\_1  
SSTD0026 ramError\_1  
SSTD0027 interfaceError\_1  
SSTD0028 watchdogError\_1  
SSTD0029 synchError\_1  
SSTD0030 timingError\_1  
SSTD0031 fifoError\_1

From	To	Text
0		NOERROR
1		ERROR

**Name:** SSKT0013TM **Descr:** synch source

**Referenced by:**  
SSTD0037 syncSource\_1

From	To	Text
0		SYNCSOURCENONE
1		SYNCSOURCEPRIM
2		SYNCSOURCESEC
3		SYNCSOURCEANY



**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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**Name:** SSKT0014TM **Descr:** attitude result

**Referenced by:**  
SSTD0053 AttResult\_1

From	To	Text
-7	-1	ATTFAILED
0	0	ATTNOTENOSTARS
1	1	ATTSUCCESS
2	2	ATTREFINED

**Name:** SSKT0015TM **Descr:** last star ident

**Referenced by:**  
SSTD0054 IdResult\_1

From	To	Text
-7	-2	STARIDFAILED
-1	-1	NOTENSTARS
0	0	STIDDLE
1	1	STIDSUCCESS
2	2	STIDRUNNING

**Name:** XXKT0027TM **Descr:** Inactive\_Active

**Referenced by:**  
SSTD0022 isStreakMode\_1

From	To	Text
0		INACTIVE
1		ACTIVE





# Sentinel-2

## SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35503	TM_TDB_1	3	25	37	6	598	Y	161	FIXED	SST01000	106		Y	35503	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	SST01000	SID_1	ID of the structure	UINT	INTEGER	Z_IDENTITY
2	1	24	SST00057	S1_TA_1	tangent value of star 1 alpha coordinate	SINT	REAL	SSKP0016TM
3	4	24	SST00058	S1_TB_1	tangent value of star 1 beta coordinate	SINT	REAL	SSKP0016TM
4	7	24	SST00059	S2_TA_1	tangent value of star 2 alpha coordinate	SINT	REAL	SSKP0016TM
5	10	24	SST00060	S2_TB_1	tangent value of star 2 beta coordinate	SINT	REAL	SSKP0016TM
6	13	24	SST00061	S3_TA_1	tangent value of star 3 alpha coordinate	SINT	REAL	SSKP0016TM
7	16	24	SST00062	S3_TB_1	tangent value of star 3 beta coordinate	SINT	REAL	SSKP0016TM
8	19	24	SST00063	S4_TA_1	tangent value of star 4 alpha coordinate	SINT	REAL	SSKP0016TM
9	22	24	SST00064	S4_TB_1	tangent value of star 4 beta coordinate	SINT	REAL	SSKP0016TM
10	25	24	SST00065	S5_TA_1	tangent value of star 5 alpha coordinate	SINT	REAL	SSKP0016TM
11	28	24	SST00066	S5_TB_1	tangent value of star 5 beta coordinate	SINT	REAL	SSKP0016TM
12	31	24	SST00067	S6_TA_1	tangent value of star 6 alpha coordinate	SINT	REAL	SSKP0016TM
13	34	24	SST00068	S6_TB_1	tangent value of star 6 beta coordinate	SINT	REAL	SSKP0016TM
14	37	24	SST00069	S7_TA_1	tangent value of star 7 alpha coordinate	SINT	REAL	SSKP0016TM
15	40	24	SST00070	S7_TB_1	tangent value of star 7 beta coordinate	SINT	REAL	SSKP0016TM
16	43	24	SST00071	S8_TA_1	tangent value of star 8 alpha coordinate	SINT	REAL	SSKP0016TM
17	46	24	SST00072	S8_TB_1	tangent value of star 8 beta coordinate	SINT	REAL	SSKP0016TM
18	49	24	SST00073	S9_TA_1	tangent value of star 9 alpha coordinate	SINT	REAL	SSKP0016TM
19	52	24	SST00074	S9_TB_1	tangent value of star 9 beta coordinate	SINT	REAL	SSKP0016TM
20	55	24	SST00075	S10_TA_1	tangent value of star 10 alpha coordinate	SINT	REAL	SSKP0016TM
21	58	24	SST00076	S10_TB_1	tangent value of star 10 beta coordinate	SINT	REAL	SSKP0016TM
22	61	24	SST00077	S11_TA_1	tangent value of star 11 alpha coordinate	SINT	REAL	SSKP0016TM
23	64	24	SST00078	S11_TB_1	tangent value of star 11 beta coordinate	SINT	REAL	SSKP0016TM
24	67	24	SST00079	S12_TA_1	tangent value of star 12 alpha coordinate	SINT	REAL	SSKP0016TM
25	70	24	SST00080	S12_TB_1	tangent value of star 12 beta coordinate	SINT	REAL	SSKP0016TM
26	73	24	SST00081	S13_TA_1	tangent value of star 13 alpha coordinate	SINT	REAL	SSKP0016TM
27	76	24	SST00082	S13_TB_1	tangent value of star 13 beta coordinate	SINT	REAL	SSKP0016TM
28	79	24	SST00083	S14_TA_1	tangent value of star 14 alpha coordinate	SINT	REAL	SSKP0016TM



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35503	TM_TDB_1	3	25	37	6	598	Y	161	FIXED	SST01000	106		Y	35503	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
29	82	24	SST00084	S14_TB_1	tangent value of star 14 beta coordinate	SINT	REAL	SSKP0016TM
30	85	24	SST00085	S15_TA_1	tangent value of star 15 alpha coordinate	SINT	REAL	SSKP0016TM
31	88	24	SST00086	S15_TB_1	tangent value of star 15 beta coordinate	SINT	REAL	SSKP0016TM
32	91	24	SST00087	S16_TA_1	tangent value of star 16 alpha coordinate	SINT	REAL	SSKP0016TM
33	94	24	SST00088	S16_TB_1	tangent value of star 16 beta coordinate	SINT	REAL	SSKP0016TM
34	97	16	SST00089	S1_CNR_1	star 1 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
35	99	16	SST00090	S2_CNR_1	star 2 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
36	101	16	SST00091	S3_CNR_1	star 3 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
37	103	16	SST00092	S4_CNR_1	star 4 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
38	105	16	SST00093	S5_CNR_1	star 5 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
39	107	16	SST00094	S6_CNR_1	star 6 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
40	109	16	SST00095	S7_CNR_1	star 7 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
41	111	16	SST00096	S8_CNR_1	star 8 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
42	113	16	SST00097	S9_CNR_1	star 9 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
43	115	16	SST00098	S10_CNR_1	star 10 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
44	117	16	SST00099	S11_CNR_1	star 11 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
45	119	16	SST00100	S12_CNR_1	star 12 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
46	121	16	SST00101	S13_CNR_1	star 13 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
47	123	16	SST00102	S14_CNR_1	star 14 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
48	125	16	SST00103	S15_CNR_1	star 15 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY



# Sentinel-2

## SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35503	TM_TDB_1	3	25	37	6	598	Y	161	FIXED	SST01000	106		Y	35503	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
49	127	16	SST00104	S16_CNR_1	star 16 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
50	129	8	SST00105	S1_MAG_1	star 1 instrumental magnitude	SINT	REAL	SSKP0017TM
51	130	8	SST00106	S2_MAG_1	star 2 instrumental magnitude	SINT	REAL	SSKP0017TM
52	131	8	SST00107	S3_MAG_1	star 3 instrumental magnitude	SINT	REAL	SSKP0017TM
53	132	8	SST00108	S4_MAG_1	star 4 instrumental magnitude	SINT	REAL	SSKP0017TM
54	133	8	SST00109	S5_MAG_1	star 5 instrumental magnitude	SINT	REAL	SSKP0017TM
55	134	8	SST00110	S6_MAG_1	star 6 instrumental magnitude	SINT	REAL	SSKP0017TM
56	135	8	SST00111	S7_MAG_1	star 7 instrumental magnitude	SINT	REAL	SSKP0017TM
57	136	8	SST00112	S8_MAG_1	star 8 instrumental magnitude	SINT	REAL	SSKP0017TM
58	137	8	SST00113	S9_MAG_1	star 9 instrumental magnitude	SINT	REAL	SSKP0017TM
59	138	8	SST00114	S10_MAG_1	star 10 instrumental magnitude	SINT	REAL	SSKP0017TM
60	139	8	SST00115	S11_MAG_1	star 11 instrumental magnitude	SINT	REAL	SSKP0017TM
61	140	8	SST00116	S12_MAG_1	star 12 instrumental magnitude	SINT	REAL	SSKP0017TM
62	141	8	SST00117	S13_MAG_1	star 13 instrumental magnitude	SINT	REAL	SSKP0017TM
63	142	8	SST00118	S14_MAG_1	star 14 instrumental magnitude	SINT	REAL	SSKP0017TM
64	143	8	SST00119	S15_MAG_1	star 15 instrumental magnitude	SINT	REAL	SSKP0017TM
65	144	8	SST00120	S16_MAG_1	star 16 instrumental magnitude	SINT	REAL	SSKP0017TM
66	145	16	SSTG0006	GloPar1TDB_1	Global Parameter 1 TDB			
	0	1	SSTD0121	S1_VALID_1	if set to 1 the star 1 data are valid	UINT	STRING	SSKT0018TM
	1	1	SSTD0122	S2_VALID_1	if set to 1 the star 2 data are valid	UINT	STRING	SSKT0018TM
	2	1	SSTD0123	S3_VALID_1	if set to 1 the star 3 data are valid	UINT	STRING	SSKT0018TM
	3	1	SSTD0124	S4_VALID_1	if set to 1 the star 4 data are valid	UINT	STRING	SSKT0018TM
	4	1	SSTD0125	S5_VALID_1	if set to 1 the star 5 data are valid	UINT	STRING	SSKT0018TM
	5	1	SSTD0126	S6_VALID_1	if set to 1 the star 6 data are valid	UINT	STRING	SSKT0018TM
	6	1	SSTD0127	S7_VALID_1	if set to 1 the star 7 data are valid	UINT	STRING	SSKT0018TM
	7	1	SSTD0128	S8_VALID_1	if set to 1 the star 8 data are valid	UINT	STRING	SSKT0018TM
	8	1	SSTD0129	S9_VALID_1	if set to 1 the star 9 data are valid	UINT	STRING	SSKT0018TM
	9	1	SSTD0130	S10_VALID_1	if set to 1 the star 10 data are valid	UINT	STRING	SSKT0018TM
	10	1	SSTD0131	S11_VALID_1	if set to 1 the star 11 data are valid	UINT	STRING	SSKT0018TM
	11	1	SSTD0132	S12_VALID_1	if set to 1 the star 12 data are valid	UINT	STRING	SSKT0018TM



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatn	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35503	TM_TDB_1		3,25	37	6	598	Y	161	FIXED	SST01000	106		Y	35503	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	12	1	SSTD0133	S13_VALID_1	if set to 1 the star 13 data are valid	UINT	STRING	SSKT0018TM
	13	1	SSTD0134	S14_VALID_1	if set to 1 the star 14 data are valid	UINT	STRING	SSKT0018TM
	14	1	SSTD0135	S15_VALID_1	if set to 1 the star 15 data are valid	UINT	STRING	SSKT0018TM
	15	1	SSTD0136	S16_VALID_1	if set to 1 the star 16 data are valid	UINT	STRING	SSKT0018TM



**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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**Name:** SSKP0016TM **Descr:** tangent value

**Unit:**

X

Y

**Referenced by:**

SST00057 S1\_TA\_1  
SST00058 S1\_TB\_1  
SST00059 S2\_TA\_1  
SST00060 S2\_TB\_1  
SST00061 S3\_TA\_1  
SST00062 S3\_TB\_1  
SST00063 S4\_TA\_1  
SST00064 S4\_TB\_1  
SST00065 S5\_TA\_1  
SST00066 S5\_TB\_1  
SST00067 S6\_TA\_1  
SST00068 S6\_TB\_1  
SST00069 S7\_TA\_1  
SST00070 S7\_TB\_1  
SST00071 S8\_TA\_1  
SST00072 S8\_TB\_1  
SST00073 S9\_TA\_1  
SST00074 S9\_TB\_1  
SST00075 S10\_TA\_1  
SST00076 S10\_TB\_1  
SST00077 S11\_TA\_1  
SST00078 S11\_TB\_1  
SST00079 S12\_TA\_1  
SST00080 S12\_TB\_1  
SST00081 S13\_TA\_1  
SST00082 S13\_TB\_1  
SST00083 S14\_TA\_1  
SST00084 S14\_TB\_1  
SST00085 S15\_TA\_1  
SST00086 S15\_TB\_1  
SST00087 S16\_TA\_1  
SST00088 S16\_TB\_1

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**Modelname:** GENERIC

-8388608

-1

8388607

1

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**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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**Name:** SSKP0017TM **Descr:** instrumental magnitude

**Unit:** X Y

**Referenced by:**

SST00105 S1\_MAG\_1  
SST00106 S2\_MAG\_1  
SST00107 S3\_MAG\_1  
SST00108 S4\_MAG\_1  
SST00109 S5\_MAG\_1  
SST00110 S6\_MAG\_1  
SST00111 S7\_MAG\_1  
SST00112 S8\_MAG\_1  
SST00113 S9\_MAG\_1  
SST00114 S10\_MAG\_1  
SST00115 S11\_MAG\_1  
SST00116 S12\_MAG\_1  
SST00117 S13\_MAG\_1  
SST00118 S14\_MAG\_1  
SST00119 S15\_MAG\_1  
SST00120 S16\_MAG\_1

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**Modelname:** GENERIC

-128 12.8  
127 17.7

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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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**Name:** SSKT0018TM **Descr:** valid N/Y

**Referenced by:**

**From To Text**

SSTD0121 S1\_VALID\_1  
SSTD0122 S2\_VALID\_1  
SSTD0123 S3\_VALID\_1  
SSTD0124 S4\_VALID\_1  
SSTD0125 S5\_VALID\_1  
SSTD0126 S6\_VALID\_1  
SSTD0127 S7\_VALID\_1  
SSTD0128 S8\_VALID\_1  
SSTD0129 S9\_VALID\_1  
SSTD0130 S10\_VALID\_1  
SSTD0131 S11\_VALID\_1  
SSTD0132 S12\_VALID\_1  
SSTD0133 S13\_VALID\_1  
SSTD0134 S14\_VALID\_1  
SSTD0135 S15\_VALID\_1  
SSTD0136 S16\_VALID\_1

0 NOTVALID  
1 VALID



# Sentinel-2

## SRDB Database Extract

### TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35651	TM_ADB_2	3	25	38	6	614	Y	53	FIXED	SST04000	105		Y	35651	ENABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	SST04000	SID_2	ID of the structure	UINT	INTEGER	Z_IDENTITY
2	1	32	SST03001	qv1_2	vector part of altitude quaternion	SINT	REAL	SSKP0001TM
3	5	32	SST03002	qv2_2	vector part of altitude quaternion	SINT	REAL	SSKP0001TM
4	9	32	SST03003	qv3_2	vector part of altitude quaternion	SINT	REAL	SSKP0001TM
5	13	32	SST03004	qs_2	vector part of altitude quaternion	SINT	REAL	SSKP0001TM
6	17	16	SST03005	rateX_2	angular rate in BRF	SINT	REAL	SSKP0002TM
7	19	16	SST03006	rateY_2	angular rate in BRF	SINT	REAL	SSKP0002TM
8	21	16	SST03007	rateZ_2	angular rate in BRF	SINT	REAL	SSKP0002TM
9	23	48	SST03008	TimeStamp_2	Time stamp of the center of integration associated with the attitude	UINT	INTEGER	SSKP0200TM
10	29	16	SST03009	julianDate_2	Julian date used for precession correction	UINT	INTEGER	Z_IDD
11	31	16	SST03010	vVectorSciX_2	X coordinate of velocity vector	SINT	REAL	SSKP0004TM
12	33	16	SST03011	vVectorSciY_2	Y coordinate of velocity vector	SINT	REAL	SSKP0004TM
13	35	16	SST03012	vVectorSciZ_2	Z coordinate of velocity vector	SINT	REAL	SSKP0004TM
14	37	8	SSTG3001	GloPar1ADB_2	Global Parameter 1 ADB			
	0	3	SSTD3013	altitQuality_2	altitude quality	UINT	STRING	SSKT0005TM
	3	1	SSTD3014	isPrecCorr_2	if set to 1, precession correction applied	UINT	STRING	SSKT0006TM
	4	1	SSTD3015	isAbberCorr_2	if set to 1, aberration correction applied	UINT	STRING	SSKT0006TM
	5	2	SSTD3016	rateQuality_2	rate quality	UINT	STRING	SSKT0007TM
	7	1	SSTD3017	isValidRate_2	if set to 1, rate information valid	UINT	STRING	SSKT0006TM
15	38	8	SST04017	attQualityIx_2	sum of single-star qualities of attitude stars	UINT	INTEGER	Z_IDENTITY





**Sentinel-2**  
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**Name:** SSKP0001TM **Descr:** attitude

**Unit:** X Y

**Referenced by:**

SST03001 qv1\_2  
SST03002 qv2\_2  
SST03003 qv3\_2  
SST03004 qs\_2

**Modelname:** GENERIC

-2147483648  
2147483647

-2  
2

**Name:** SSKP0002TM **Descr:** angular rate

**Unit:** dg/s X Y

**Referenced by:**

SST03005 rateX\_2  
SST03006 rateY\_2  
SST03007 rateZ\_2

**Modelname:** GENERIC

-32768  
32767

-16  
16

**Name:** SSKP0004TM **Descr:** velocity vector

**Unit:** m/s X Y

**Referenced by:**

SST03010 vVectorSciX\_2  
SST03011 vVectorSciY\_2  
SST03012 vVectorSciZ\_2

**Modelname:** GENERIC

-32768  
32767

-2342128.578  
2342057.102

**Name:** SSKP0200TM **Descr:** Time Stamp

**Unit:** s X Y

**Referenced by:**

SST03008 TimeStamp\_2

**Modelname:** GENERIC

0  
281474967000000

0  
4294967296

**Name:** Z\_IDD **Descr:** Identity day [d]

**Unit:** d X Y

**Referenced by:**

SST03009 julianDate\_2

**Modelname:** GENERIC



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**Name:** SSKT0005TM **Descr:** attitude quality

**Referenced by:**  
SSTD3013 altitQuality\_2

From	To	Text
0		NOATTITUDE
1		APRIORIATT
5		COARSEATT
6		UNCONFATT
7		VALIDATT

**Name:** SSKT0006TM **Descr:** applied Y/N

**Referenced by:**  
SSTD3014 isPrecCorr\_2  
SSTD3015 isAbberCorr\_2  
SSTD3017 isValidRate\_2

From	To	Text
0		NOTAPPLIED
1		APPLIED

**Name:** SSKT0007TM **Descr:** rate quality

**Referenced by:**  
SSTD3016 rateQuality\_2

From	To	Text
0		NORATE
1		COARSERATE
2		FINERATE
3		FILTEREDRATE



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35652	TM_SDB_2	3	25	38	4	612	Y	59	FIXED	SST04000	1		Y	35652	ENABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	SST04000	SID_2	ID of the structure	UINT	INTEGER	Z_IDENTITY
2	1	16	SST03018	cycle_2	STR internal cycle number	UINT	INTEGER	Z_IDENTITY
3	3	48	SST03019	cycStartTimSt_2	Time stamp for cycle start	UINT	INTEGER	Z_IDENTITY
4	9	8	SSTG3002	GloPar1SDB_2	Global Parameter 1 SDB			
	0	2	SSTD3020	cycleTriggerS_2	0: timer; 1: preprocessor; 2: external	UINT	STRING	SSKT0008TM
	2	3	SSTD3021	opMode_2	STR operating mode	UINT	STRING	SSKT0009TM
	5	1	SSTD3022	isStreakMode_2	1: streak processing mode is active	UINT	STRING	XXKT0027TM
	6	2	SSTD3023	tecMode_2	Thermo electric cooler mode	UINT	STRING	SSKT0010TM
5	10	8	SSTG3003	GloPar2SDB_2	Global Parameter 2 SDB			
	0	1	SSTD3024	EepromErrApp_2	1: error in application part on EEPROM	UINT	STRING	SSKT0011TM
	1	1	SSTD3025	EepromErrCal_2	1: error in calibration data part on EEPROM	UINT	STRING	SSKT0011TM
	2	1	SSTD3026	ramError_2	1:RAM failure	UINT	STRING	SSKT0011TM
	3	1	SSTD3027	interfaceError_2	1:failure during interface initialisation	UINT	STRING	SSKT0011TM
	4	1	SSTD3028	watchdogError_2	1:Reboot cause by watchdog timer	UINT	STRING	SSKT0011TM
	5	1	SSTD3029	synchError_2	1:External synchronisation failed	UINT	STRING	SSKT0011TM
	6	1	SSTD3030	timingError_2	1:processing exceeded timing constraints	UINT	STRING	SSKT0011TM
	7	1	SSTD3031	fifoError_2	1:FIFO capacity exceeded	UINT	STRING	SSKT0011TM
6	11	16	SST03032	targetTemp_2	target temperature	SINT	REAL	SSKP0012TM
7	13	16	SST03033	tempDetector_2	detector temperature	SINT	REAL	SSKP0012TM
8	15	16	SST03034	tempOptics_2	optics temperature	SINT	REAL	SSKP0012TM
9	17	16	SST03035	tempHousing_2	housing temperature	SINT	REAL	SSKP0012TM
10	19	8	SST03036	numEdacErrors_2	number of errors detected by RAM EDAC	UINT	INTEGER	Z_IDENTITY
11	20	8	SSTG3004	GloPar3SDB_2	Global Parameter 3 SDB			
	0	2	SSTD3037	syncSource_2	source selected for external synchronization	UINT	STRING	SSKT0013TM
	2	6	SSTD3038	secSinTimSync_2	number of seconds since latest synchron.	UINT	INTEGER	Z_IDS
12	21	16	SST03039	meanBackgr_2	mean background	SINT	INTEGER	Z_IDENTITY
13	23	16	SST03040	numObjDetected_2	number of detected objects	UINT	INTEGER	Z_IDENTITY
14	25	16	SST03041	numObjAcquired_2	number of acquired objects	UINT	INTEGER	Z_IDENTITY
15	27	16	SST03042	numSinglePixR_2	number of single pixels removed by h/w	UINT	INTEGER	Z_IDENTITY
16	29	16	SST03043	numEoDetected_2	number of extended objects detected by h/w	UINT	INTEGER	Z_IDENTITY
17	31	8	SST03044	numStarsTracka_2	number of trackable stars	UINT	INTEGER	Z_IDENTITY



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TM Packets Structure

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatn	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35652	TM_SDB_2		3_25	38	4	612	Y	59	FIXED	SST04000	1		Y	35652	ENABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
18	32	8	SST03045	numStarsTrack_2	number of stars tracked	UINT	INTEGER	Z_IDENTITY
19	33	8	SST03046	numStarsForRa_2	number of stars used for rate determination	UINT	INTEGER	Z_IDENTITY
20	34	8	SST03047	numStarsIdent_2	number of identified stars	UINT	INTEGER	Z_IDENTITY
21	35	8	SST03048	numStarsUsedA_2	number of stars used for altit. Determinisation	UINT	INTEGER	Z_IDENTITY
22	36	8	SST03049	numLostTrack_2	number of fall-backs from NAT to AAD	UINT	INTEGER	Z_IDENTITY
23	37	16	SST03050	latestCommId_2	ID of latest recieved command	UINT	INTEGER	Z_IDENTITY
24	39	8	SST03051	latestCmdRes_2	result of execution of the latest recieved command	UINT	INTEGER	Z_IDENTITY
25	40	8	SST03052	numTcErrors_2	number of telecommand errors	UINT	INTEGER	Z_IDENTITY
26	41	8	SSTG3005	GloPar4SDB_2	Global Parameter 4 SDB			
	0	4	SSTD3053	AttResult_2	last result of altitude determination	SINT	STRING	SSKT0014TM
	4	4	SSTD3054	IdResult_2	last result of star identification error	SINT	STRING	SSKT0015TM
27	42	8	SST03055	tlnt_2	integration time	UINT	INTEGER	Z_IDMS
28	43	16	SST03056	offset_2	binarisation time	UINT	INTEGER	Z_IDENTITY



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### TM Numerical Calibration Curves

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**Name:** SSKP0012TM **Descr:** temperature1

**Unit:** degC X Y

**Modelname:** GENERIC

-32768

32767

**Referenced by:**

SST03032 targetTemp\_2  
SST03033 tempDetector\_2  
SST03034 tempOptics\_2  
SST03035 tempHousing\_2

**Name:** Z\_IDMS **Descr:** Identity [ms]

**Unit:** ms X Y

**Modelname:** GENERIC

**Referenced by:**

SST03055 tInt\_2

**Name:** Z\_IDS **Descr:** Identity [s]

**Unit:** s X Y

**Modelname:** GENERIC

**Referenced by:**

SSTD3038 secSinTimSync\_2



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### TM Textual Calibration Curves

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**Name:** SSKT0008TM **Descr:** trigger source

**Referenced by:**  
SSTD3020 cycleTriggerS\_2

From	To	Text
0		TIMER
1		PREPROCESSOR
2		EXTERNAL

**Name:** SSKT0009TM **Descr:** operation mode

**Referenced by:**  
SSTD3021 opMode\_2

From	To	Text
0		MODEBOOT
2		MODESTANDBY
3		MODEPHOTO
4		MODEAADF
5		MODEAADW
7		MODENAT

**Name:** SSKT0010TM **Descr:** tech mode

**Referenced by:**  
SSTD3023 tecMode\_2

From	To	Text
0		COOLEROFF
1		COOLERCONTR
2		COOLERMAX

**Name:** SSKT0011TM **Descr:** error N/Y

**Referenced by:**  
SSTD3024 EepromErrApp\_2  
SSTD3025 EepromErrCal\_2  
SSTD3026 ramError\_2  
SSTD3027 interfaceError\_2  
SSTD3028 watchdogError\_2  
SSTD3029 synchError\_2  
SSTD3030 timingError\_2  
SSTD3031 fifoError\_2

From	To	Text
0		NOERROR
1		ERROR

**Name:** SSKT0013TM **Descr:** synch source

**Referenced by:**  
SSTD3037 syncSource\_2

From	To	Text
0		SYNCSOURCENONE
1		SYNCSOURCEPRIM
2		SYNCSOURCESEC
3		SYNCSOURCEANY



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TM Textual Calibration Curves

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**Name:** SSKT0014TM **Descr:** attitude result

**Referenced by:**  
SSTD3053 AttResult\_2

From	To	Text
-7	-1	ATTFAILED
0	0	ATTNOTENOSTARS
1	1	ATTSUCCESS
2	2	ATTREFINED

**Name:** SSKT0015TM **Descr:** last star ident

**Referenced by:**  
SSTD3054 IdResult\_2

From	To	Text
-7	-2	STARIDFAILED
-1	-1	NOTENSTARS
0	0	STIDDLE
1	1	STIDSUCCESS
2	2	STIDRUNNING

**Name:** XXKT0027TM **Descr:** Inactive\_Active

**Referenced by:**  
SSTD3022 isStreakMode\_2

From	To	Text
0		INACTIVE
1		ACTIVE



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35653	TM_TDB_2	3	25	38	6	614	Y	161	FIXED	SST04000	106		Y	35653	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	SST04000	SID_2	ID of the structure	UINT	INTEGER	Z_IDENTITY
2	1	24	SST03057	S1_TA_2	tangent value of star 1 alpha coordinate	SINT	REAL	SSKP0016TM
3	4	24	SST03058	S1_TB_2	tangent value of star 1 beta coordinate	SINT	REAL	SSKP0016TM
4	7	24	SST03059	S2_TA_2	tangent value of star 2 alpha coordinate	SINT	REAL	SSKP0016TM
5	10	24	SST03060	S2_TB_2	tangent value of star 2 beta coordinate	SINT	REAL	SSKP0016TM
6	13	24	SST03061	S3_TA_2	tangent value of star 3 alpha coordinate	SINT	REAL	SSKP0016TM
7	16	24	SST03062	S3_TB_2	tangent value of star 3 beta coordinate	SINT	REAL	SSKP0016TM
8	19	24	SST03063	S4_TA_2	tangent value of star 4 alpha coordinate	SINT	REAL	SSKP0016TM
9	22	24	SST03064	S4_TB_2	tangent value of star 4 beta coordinate	SINT	REAL	SSKP0016TM
10	25	24	SST03065	S5_TA_2	tangent value of star 5 alpha coordinate	SINT	REAL	SSKP0016TM
11	28	24	SST03066	S5_TB_2	tangent value of star 5 beta coordinate	SINT	REAL	SSKP0016TM
12	31	24	SST03067	S6_TA_2	tangent value of star 6 alpha coordinate	SINT	REAL	SSKP0016TM
13	34	24	SST03068	S6_TB_2	tangent value of star 6 beta coordinate	SINT	REAL	SSKP0016TM
14	37	24	SST03069	S7_TA_2	tangent value of star 7 alpha coordinate	SINT	REAL	SSKP0016TM
15	40	24	SST03070	S7_TB_2	tangent value of star 7 beta coordinate	SINT	REAL	SSKP0016TM
16	43	24	SST03071	S8_TA_2	tangent value of star 8 alpha coordinate	SINT	REAL	SSKP0016TM
17	46	24	SST03072	S8_TB_2	tangent value of star 8 beta coordinate	SINT	REAL	SSKP0016TM
18	49	24	SST03073	S9_TA_2	tangent value of star 9 alpha coordinate	SINT	REAL	SSKP0016TM
19	52	24	SST03074	S9_TB_2	tangent value of star 9 beta coordinate	SINT	REAL	SSKP0016TM
20	55	24	SST03075	S10_TA_2	tangent value of star 10 alpha coordinate	SINT	REAL	SSKP0016TM
21	58	24	SST03076	S10_TB_2	tangent value of star 10 beta coordinate	SINT	REAL	SSKP0016TM
22	61	24	SST03077	S11_TA_2	tangent value of star 11 alpha coordinate	SINT	REAL	SSKP0016TM
23	64	24	SST03078	S11_TB_2	tangent value of star 11 beta coordinate	SINT	REAL	SSKP0016TM
24	67	24	SST03079	S12_TA_2	tangent value of star 12 alpha coordinate	SINT	REAL	SSKP0016TM
25	70	24	SST03080	S12_TB_2	tangent value of star 12 beta coordinate	SINT	REAL	SSKP0016TM
26	73	24	SST03081	S13_TA_2	tangent value of star 13 alpha coordinate	SINT	REAL	SSKP0016TM
27	76	24	SST03082	S13_TB_2	tangent value of star 13 beta coordinate	SINT	REAL	SSKP0016TM
28	79	24	SST03083	S14_TA_2	tangent value of star 14 alpha coordinate	SINT	REAL	SSKP0016TM





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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35653	TM_TDB_2	3	25	38	6	614	Y	161	FIXED	SST04000	106		Y	35653	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
29	82	24	SST03084	S14_TB_2	tangent value of star 14 beta coordinate	SINT	REAL	SSKP0016TM
30	85	24	SST03085	S15_TA_2	tangent value of star 15 alpha coordinate	SINT	REAL	SSKP0016TM
31	88	24	SST03086	S15_TB_2	tangent value of star 15 beta coordinate	SINT	REAL	SSKP0016TM
32	91	24	SST03087	S16_TA_2	tangent value of star 16 alpha coordinate	SINT	REAL	SSKP0016TM
33	94	24	SST03088	S16_TB_2	tangent value of star 16 beta coordinate	SINT	REAL	SSKP0016TM
34	97	16	SST03089	S1_CNR_2	star 1 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
35	99	16	SST03090	S2_CNR_2	star 2 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
36	101	16	SST03091	S3_CNR_2	star 3 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
37	103	16	SST03092	S4_CNR_2	star 4 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
38	105	16	SST03093	S5_CNR_2	star 5 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
39	107	16	SST03094	S6_CNR_2	star 6 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
40	109	16	SST03095	S7_CNR_2	star 7 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
41	111	16	SST03096	S8_CNR_2	star 8 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
42	113	16	SST03097	S9_CNR_2	star 9 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
43	115	16	SST03098	S10_CNR_2	star 10 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
44	117	16	SST03099	S11_CNR_2	star 11 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
45	119	16	SST03100	S12_CNR_2	star 12 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
46	121	16	SST03101	S13_CNR_2	star 13 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
47	123	16	SST03102	S14_CNR_2	star 14 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
48	125	16	SST03103	S15_CNR_2	star 15 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35653	TM_TDB_2	3	25	38	6	614	Y	161	FIXED	SST04000	106		Y	35653	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
49	127	16	SST03104	S16_CNR_2	star 16 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
50	129	8	SST03105	S1_MAG_2	star 1 instrumental magnitude	SINT	REAL	SSKP0017TM
51	130	8	SST03106	S2_MAG_2	star 2 instrumental magnitude	SINT	REAL	SSKP0017TM
52	131	8	SST03107	S3_MAG_2	star 3 instrumental magnitude	SINT	REAL	SSKP0017TM
53	132	8	SST03108	S4_MAG_2	star 4 instrumental magnitude	SINT	REAL	SSKP0017TM
54	133	8	SST03109	S5_MAG_2	star 5 instrumental magnitude	SINT	REAL	SSKP0017TM
55	134	8	SST03110	S6_MAG_2	star 6 instrumental magnitude	SINT	REAL	SSKP0017TM
56	135	8	SST03111	S7_MAG_2	star 7 instrumental magnitude	SINT	REAL	SSKP0017TM
57	136	8	SST03112	S8_MAG_2	star 8 instrumental magnitude	SINT	REAL	SSKP0017TM
58	137	8	SST03113	S9_MAG_2	star 9 instrumental magnitude	SINT	REAL	SSKP0017TM
59	138	8	SST03114	S10_MAG_2	star 10 instrumental magnitude	SINT	REAL	SSKP0017TM
60	139	8	SST03115	S11_MAG_2	star 11 instrumental magnitude	SINT	REAL	SSKP0017TM
61	140	8	SST03116	S12_MAG_2	star 12 instrumental magnitude	SINT	REAL	SSKP0017TM
62	141	8	SST03117	S13_MAG_2	star 13 instrumental magnitude	SINT	REAL	SSKP0017TM
63	142	8	SST03118	S14_MAG_2	star 14 instrumental magnitude	SINT	REAL	SSKP0017TM
64	143	8	SST03119	S15_MAG_2	star 15 instrumental magnitude	SINT	REAL	SSKP0017TM
65	144	8	SST03120	S16_MAG_2	star 16 instrumental magnitude	SINT	REAL	SSKP0017TM
66	145	16	SSTG3006	GloPar1TDB_2	Global Parameter 1 TDB			
	0	1	SSTD3121	S1_VALID_2	if set to 1 the star 1 data are valid	UINT	STRING	SSKT0018TM
	1	1	SSTD3122	S2_VALID_2	if set to 1 the star 2 data are valid	UINT	STRING	SSKT0018TM
	2	1	SSTD3123	S3_VALID_2	if set to 1 the star 3 data are valid	UINT	STRING	SSKT0018TM
	3	1	SSTD3124	S4_VALID_2	if set to 1 the star 4 data are valid	UINT	STRING	SSKT0018TM
	4	1	SSTD3125	S5_VALID_2	if set to 1 the star 5 data are valid	UINT	STRING	SSKT0018TM
	5	1	SSTD3126	S6_VALID_2	if set to 1 the star 6 data are valid	UINT	STRING	SSKT0018TM
	6	1	SSTD3127	S7_VALID_2	if set to 1 the star 7 data are valid	UINT	STRING	SSKT0018TM
	7	1	SSTD3128	S8_VALID_2	if set to 1 the star 8 data are valid	UINT	STRING	SSKT0018TM
	8	1	SSTD3129	S9_VALID_2	if set to 1 the star 9 data are valid	UINT	STRING	SSKT0018TM
	9	1	SSTD3130	S10_VALID_2	if set to 1 the star 10 data are valid	UINT	STRING	SSKT0018TM
	10	1	SSTD3131	S11_VALID_2	if set to 1 the star 11 data are valid	UINT	STRING	SSKT0018TM
	11	1	SSTD3132	S12_VALID_2	if set to 1 the star 12 data are valid	UINT	STRING	SSKT0018TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35653	TM_TDB_2		3_25	38	6	614	Y	161	FIXED	SST04000	106		Y	35653	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	12	1	SSTD3133	S13_VALID_2	if set to 1 the star 13 data are valid	UINT	STRING	SSKT0018TM
	13	1	SSTD3134	S14_VALID_2	if set to 1 the star 14 data are valid	UINT	STRING	SSKT0018TM
	14	1	SSTD3135	S15_VALID_2	if set to 1 the star 15 data are valid	UINT	STRING	SSKT0018TM
	15	1	SSTD3136	S16_VALID_2	if set to 1 the star 16 data are valid	UINT	STRING	SSKT0018TM



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**Name:** SSKP0016TM **Descr:** tangent value

**Unit:**

X

Y

**Referenced by:**

SST03057	S1_TA_2
SST03058	S1_TB_2
SST03059	S2_TA_2
SST03060	S2_TB_2
SST03061	S3_TA_2
SST03062	S3_TB_2
SST03063	S4_TA_2
SST03064	S4_TB_2
SST03065	S5_TA_2
SST03066	S5_TB_2
SST03067	S6_TA_2
SST03068	S6_TB_2
SST03069	S7_TA_2
SST03070	S7_TB_2
SST03071	S8_TA_2
SST03072	S8_TB_2
SST03073	S9_TA_2
SST03074	S9_TB_2
SST03075	S10_TA_2
SST03076	S10_TB_2
SST03077	S11_TA_2
SST03078	S11_TB_2
SST03079	S12_TA_2
SST03080	S12_TB_2
SST03081	S13_TA_2
SST03082	S13_TB_2
SST03083	S14_TA_2
SST03084	S14_TB_2
SST03085	S15_TA_2
SST03086	S15_TB_2
SST03087	S16_TA_2
SST03088	S16_TB_2

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**Modelname:** GENERIC

-8388608

-1

8388607

1

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**Name:** SSKP0017TM **Descr:** instrumental magnitude

**Unit:** X Y

**Referenced by:**

SST03105 S1\_MAG\_2  
SST03106 S2\_MAG\_2  
SST03107 S3\_MAG\_2  
SST03108 S4\_MAG\_2  
SST03109 S5\_MAG\_2  
SST03110 S6\_MAG\_2  
SST03111 S7\_MAG\_2  
SST03112 S8\_MAG\_2  
SST03113 S9\_MAG\_2  
SST03114 S10\_MAG\_2  
SST03115 S11\_MAG\_2  
SST03116 S12\_MAG\_2  
SST03117 S13\_MAG\_2  
SST03118 S14\_MAG\_2  
SST03119 S15\_MAG\_2  
SST03120 S16\_MAG\_2

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**Modelname:** GENERIC

-128 12.8  
127 17.7

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**Name:** SSKT0018TM **Descr:** valid N/Y

**Referenced by:**

**From To Text**

SSTD3121 S1\_VALID\_2  
SSTD3122 S2\_VALID\_2  
SSTD3123 S3\_VALID\_2  
SSTD3124 S4\_VALID\_2  
SSTD3125 S5\_VALID\_2  
SSTD3126 S6\_VALID\_2  
SSTD3127 S7\_VALID\_2  
SSTD3128 S8\_VALID\_2  
SSTD3129 S9\_VALID\_2  
SSTD3130 S10\_VALID\_2  
SSTD3131 S11\_VALID\_2  
SSTD3132 S12\_VALID\_2  
SSTD3133 S13\_VALID\_2  
SSTD3134 S14\_VALID\_2  
SSTD3135 S15\_VALID\_2  
SSTD3136 S16\_VALID\_2

0 NOTVALID  
1 VALID

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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatn	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35801	TM_ADB_3	3	25	39	6	630	Y	53	FIXED	SST07000	105		Y	35801	ENABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	SST07000	SID_3	ID of the structure	UINT	INTEGER	Z_IDENTITY
2	1	32	SST06001	qv1_3	vector part of altitude quaternion	SINT	REAL	SSKP0001TM
3	5	32	SST06002	qv2_3	vector part of altitude quaternion	SINT	REAL	SSKP0001TM
4	9	32	SST06003	qv3_3	vector part of altitude quaternion	SINT	REAL	SSKP0001TM
5	13	32	SST06004	qs_3	vector part of altitude quaternion	SINT	REAL	SSKP0001TM
6	17	16	SST06005	rateX_3	angular rate in BRF	SINT	REAL	SSKP0002TM
7	19	16	SST06006	rateY_3	angular rate in BRF	SINT	REAL	SSKP0002TM
8	21	16	SST06007	rateZ_3	angular rate in BRF	SINT	REAL	SSKP0002TM
9	23	48	SST06008	TimeStamp_3	Time stamp of the center of integration associated with the attitude	UINT	INTEGER	SSKP0200TM
10	29	16	SST06009	julianDate_3	Julian date used for precession correction	UINT	INTEGER	Z_IDD
11	31	16	SST06010	vVectorSciX_3	X coordinate of velocity vector	SINT	REAL	SSKP0004TM
12	33	16	SST06011	vVectorSciY_3	Y coordinate of velocity vector	SINT	REAL	SSKP0004TM
13	35	16	SST06012	vVectorSciZ_3	Z coordinate of velocity vector	SINT	REAL	SSKP0004TM
14	37	8	SSTG6001	GloPar1ADB_3	Global Parameter 1 ADB			
	0	3	SSTD6013	altitQuality_3	altitude quality	UINT	STRING	SSKT0005TM
	3	1	SSTD6014	isPrecCorr_3	if set to 1, precession correction applied	UINT	STRING	SSKT0006TM
	4	1	SSTD6015	isAbberCorr_3	if set to 1, aberration correction applied	UINT	STRING	SSKT0006TM
	5	2	SSTD6016	rateQuality_3	rate quality	UINT	STRING	SSKT0007TM
	7	1	SSTD6017	isValidRate_3	if set to 1, rate information valid	UINT	STRING	SSKT0006TM
15	38	8	SST07017	attQualityIx_3	sum of single-star qualities of attitude stars	UINT	INTEGER	Z_IDENTITY



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**Name:** SSKP0001TM **Descr:** attitude

**Unit:** X Y

**Referenced by:**

SST06001 qv1\_3  
SST06002 qv2\_3  
SST06003 qv3\_3  
SST06004 qs\_3

**Modelname:** GENERIC

-2147483648

-2

2147483647

2

**Name:** SSKP0002TM **Descr:** angular rate

**Unit:** dg/s X Y

**Referenced by:**

SST06005 rateX\_3  
SST06006 rateY\_3  
SST06007 rateZ\_3

**Modelname:** GENERIC

-32768

-16

32767

16

**Name:** SSKP0004TM **Descr:** velocity vector

**Unit:** m/s X Y

**Referenced by:**

SST06010 vVectorSciX\_3  
SST06011 vVectorSciY\_3  
SST06012 vVectorSciZ\_3

**Modelname:** GENERIC

-32768

-2342128.578

32767

2342057.102

**Name:** SSKP0200TM **Descr:** Time Stamp

**Unit:** s X Y

**Referenced by:**

SST06008 TimeStamp\_3

**Modelname:** GENERIC

0

0

281474967000000

4294967296

**Name:** Z\_IDD **Descr:** Identity day [d]

**Unit:** d X Y

**Referenced by:**

SST06009 julianDate\_3

**Modelname:** GENERIC





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**Name:** SSKT0005TM **Descr:** attitude quality

**Referenced by:**  
SSTD6013 altitQuality\_3

From	To	Text
0		NOATTITUDE
1		APRIORIATT
5		COARSEATT
6		UNCONFATT
7		VALIDATT

**Name:** SSKT0006TM **Descr:** applied Y/N

**Referenced by:**  
SSTD6014 isPrecCorr\_3  
SSTD6015 isAbberCorr\_3  
SSTD6017 isValidRate\_3

From	To	Text
0		NOTAPPLIED
1		APPLIED

**Name:** SSKT0007TM **Descr:** rate quality

**Referenced by:**  
SSTD6016 rateQuality\_3

From	To	Text
0		NORATE
1		COARSERATE
2		FINERATE
3		FILTEREDRATE



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35802	TM_SDB_3	3	25	39	4	628	Y	59	FIXED	SST07000	1		Y	35802	ENABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	SST07000	SID_3	ID of the structure	UINT	INTEGER	Z_IDENTITY
2	1	16	SST06018	cycle_3	STR internal cycle number	UINT	INTEGER	Z_IDENTITY
3	3	48	SST06019	cycStartTimSt_3	Time stamp for cycle start	UINT	INTEGER	Z_IDENTITY
4	9	8	SSTG6002	GloPar1SDB_3	Global Parameter 1 SDB			
	0	2	SSTD6020	cycleTriggerS_3	0: timer; 1: preprocessor; 2: external	UINT	STRING	SSKT0008TM
	2	3	SSTD6021	opMode_3	STR operating mode	UINT	STRING	SSKT0009TM
	5	1	SSTD6022	isStreakMode_3	1: streak processing mode is active	UINT	STRING	XXKT0027TM
	6	2	SSTD6023	tecMode_3	Thermo electric cooler mode	UINT	STRING	SSKT0010TM
5	10	8	SSTG6003	GloPar2SDB_3	Global Parameter 2 SDB			
	0	1	SSTD6024	EepromErrApp_3	1: error in application part on EEPROM	UINT	STRING	SSKT0011TM
	1	1	SSTD6025	EepromErrCal_3	1: error in calibration data part on EEPROM	UINT	STRING	SSKT0011TM
	2	1	SSTD6026	ramError_3	1:RAM failure	UINT	STRING	SSKT0011TM
	3	1	SSTD6027	interfaceError_3	1:failure during interface initialisation	UINT	STRING	SSKT0011TM
	4	1	SSTD6028	watchdogError_3	1:Reboot cause by watchdog timer	UINT	STRING	SSKT0011TM
	5	1	SSTD6029	synchError_3	1:External synchronisation failed	UINT	STRING	SSKT0011TM
	6	1	SSTD6030	timingError_3	1:processing exceeded timing constraints	UINT	STRING	SSKT0011TM
	7	1	SSTD6031	fifoError_3	1:FIFO capacity exceeded	UINT	STRING	SSKT0011TM
6	11	16	SST06032	targetTemp_3	target temperature	SINT	REAL	SSKP0012TM
7	13	16	SST06033	tempDetector_3	detector temperature	SINT	REAL	SSKP0012TM
8	15	16	SST06034	tempOptics_3	optics temperature	SINT	REAL	SSKP0012TM
9	17	16	SST06035	tempHousing_3	housing temperature	SINT	REAL	SSKP0012TM
10	19	8	SST06036	numEdacErrors_3	number of errors detected by RAM EDAC	UINT	INTEGER	Z_IDENTITY
11	20	8	SSTG6004	GloPar3SDB_3	Global Parameter 3 SDB			
	0	2	SSTD6037	syncSource_3	source selected for external synchronization	UINT	STRING	SSKT0013TM
	2	6	SSTD6038	secSinTimSync_3	number of seconds since latest synchron.	UINT	INTEGER	Z_IDS
12	21	16	SST06039	meanBackgr_3	mean background	SINT	INTEGER	Z_IDENTITY
13	23	16	SST06040	numObjDetected_3	number of detected objects	UINT	INTEGER	Z_IDENTITY
14	25	16	SST06041	numObjAcquired_3	number of acquired objects	UINT	INTEGER	Z_IDENTITY
15	27	16	SST06042	numSinglePixR_3	number of single pixels removed by h/w	UINT	INTEGER	Z_IDENTITY
16	29	16	SST06043	numEoDetected_3	number of extended objects detected by h/w	UINT	INTEGER	Z_IDENTITY
17	31	8	SST06044	numStarsTracka_3	number of trackable stars	UINT	INTEGER	Z_IDENTITY



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatn	Len[Byte]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35802	TM_SDB_3	3	25	39	4	628	Y	59	FIXED	SST07000	1		Y	35802	ENABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
18	32	8	SST06045	numStarsTrack_3	number of stars tracked	UINT	INTEGER	Z_IDENTITY
19	33	8	SST06046	numStarsForRa_3	number of stars used for rate determination	UINT	INTEGER	Z_IDENTITY
20	34	8	SST06047	numStarsIdent_3	number of identified stars	UINT	INTEGER	Z_IDENTITY
21	35	8	SST06048	numStarsUsedA_3	number of stars used for altit. Determinisation	UINT	INTEGER	Z_IDENTITY
22	36	8	SST06049	numLostTrack_3	number of fall-backs from NAT to AAD	UINT	INTEGER	Z_IDENTITY
23	37	16	SST06050	latestCommId_3	ID of latest recieved command	UINT	INTEGER	Z_IDENTITY
24	39	8	SST06051	latestCmdRes_3	result of execution of the latest recieved command	UINT	INTEGER	Z_IDENTITY
25	40	8	SST06052	numTcErrors_3	number of telecommand errors	UINT	INTEGER	Z_IDENTITY
26	41	8	SSTG6005	GloPar4SDB_3	Global Parameter 4 SDB			
	0	4	SSTD6053	AttResult_3	last result of altitude determination	SINT	STRING	SSKT0014TM
	4	4	SSTD6054	IdResult_3	last result of star identification error	SINT	STRING	SSKT0015TM
27	42	8	SST06055	tlnt_3	integration time	UINT	INTEGER	Z_IDMS
28	43	16	SST06056	offset_3	binarisation time	UINT	INTEGER	Z_IDENTITY



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**Name:** SSKP0012TM **Descr:** temperature1

**Unit:** degC X Y

**Modelname:** GENERIC

-32768

32767

**Referenced by:**

SST06032 targetTemp\_3  
SST06033 tempDetector\_3  
SST06034 tempOptics\_3  
SST06035 tempHousing\_3

-3276.8

3276.7

**Name:** Z\_IDMS **Descr:** Identity [ms]

**Unit:** ms X Y

**Modelname:** GENERIC

**Referenced by:**

SST06055 tInt\_3

**Name:** Z\_IDS **Descr:** Identity [s]

**Unit:** s X Y

**Modelname:** GENERIC

**Referenced by:**

SSTD6038 secSinTimSync\_3



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**Name:** SSKT0008TM **Descr:** trigger source

**Referenced by:**  
SSTD6020 cycleTriggerS\_3

From	To	Text
0		TIMER
1		PREPROCESSOR
2		EXTERNAL

**Name:** SSKT0009TM **Descr:** operation mode

**Referenced by:**  
SSTD6021 opMode\_3

From	To	Text
0		MODEBOOT
2		MODESTANDBY
3		MODEPHOTO
4		MODEAADF
5		MODEAADW
7		MODENAT

**Name:** SSKT0010TM **Descr:** tech mode

**Referenced by:**  
SSTD6023 tecMode\_3

From	To	Text
0		COOLEROFF
1		COOLERCONTR
2		COOLERMAX

**Name:** SSKT0011TM **Descr:** error N/Y

**Referenced by:**  
SSTD6024 EepromErrApp\_3  
SSTD6025 EepromErrCal\_3  
SSTD6026 ramError\_3  
SSTD6027 interfaceError\_3  
SSTD6028 watchdogError\_3  
SSTD6029 synchError\_3  
SSTD6030 timingError\_3  
SSTD6031 fifoError\_3

From	To	Text
0		NOERROR
1		ERROR

**Name:** SSKT0013TM **Descr:** synch source

**Referenced by:**  
SSTD6037 syncSource\_3

From	To	Text
0		SYNCSOURCENONE
1		SYNCSOURCEPRIM
2		SYNCSOURCESEC
3		SYNCSOURCEANY



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**Name:** SSKT0014TM **Descr:** attitude result

**Referenced by:**  
SSTD6053 AttResult\_3

From	To	Text
-7	-1	ATTFAILED
0	0	ATTNOTENOSTARS
1	1	ATTSUCCESS
2	2	ATTREFINED

**Name:** SSKT0015TM **Descr:** last star ident

**Referenced by:**  
SSTD6054 IdResult\_3

From	To	Text
-7	-2	STARIDFAILED
-1	-1	NOTENSTARS
0	0	STIDDLE
1	1	STIDSUCCESS
2	2	STIDRUNNING

**Name:** XXKT0027TM **Descr:** Inactive\_Active

**Referenced by:**  
SSTD6022 isStreakMode\_3

From	To	Text
0		INACTIVE
1		ACTIVE



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35803	TM_TDB_3	3	25	39	6	630	Y	161	FIXED	SST07000	106		Y	35803	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
1	0	8	SST07000	SID_3	ID of the structure	UINT	INTEGER	Z_IDENTITY
2	1	24	SST06057	S1_TA_3	tangent value of star 1 alpha coordinate	SINT	REAL	SSKP0016TM
3	4	24	SST06058	S1_TB_3	tangent value of star 1 beta coordinate	SINT	REAL	SSKP0016TM
4	7	24	SST06059	S2_TA_3	tangent value of star 2 alpha coordinate	SINT	REAL	SSKP0016TM
5	10	24	SST06060	S2_TB_3	tangent value of star 2 beta coordinate	SINT	REAL	SSKP0016TM
6	13	24	SST06061	S3_TA_3	tangent value of star 3 alpha coordinate	SINT	REAL	SSKP0016TM
7	16	24	SST06062	S3_TB_3	tangent value of star 3 beta coordinate	SINT	REAL	SSKP0016TM
8	19	24	SST06063	S4_TA_3	tangent value of star 4 alpha coordinate	SINT	REAL	SSKP0016TM
9	22	24	SST06064	S4_TB_3	tangent value of star 4 beta coordinate	SINT	REAL	SSKP0016TM
10	25	24	SST06065	S5_TA_3	tangent value of star 5 alpha coordinate	SINT	REAL	SSKP0016TM
11	28	24	SST06066	S5_TB_3	tangent value of star 5 beta coordinate	SINT	REAL	SSKP0016TM
12	31	24	SST06067	S6_TA_3	tangent value of star 6 alpha coordinate	SINT	REAL	SSKP0016TM
13	34	24	SST06068	S6_TB_3	tangent value of star 6 beta coordinate	SINT	REAL	SSKP0016TM
14	37	24	SST06069	S7_TA_3	tangent value of star 7 alpha coordinate	SINT	REAL	SSKP0016TM
15	40	24	SST06070	S7_TB_3	tangent value of star 7 beta coordinate	SINT	REAL	SSKP0016TM
16	43	24	SST06071	S8_TA_3	tangent value of star 8 alpha coordinate	SINT	REAL	SSKP0016TM
17	46	24	SST06072	S8_TB_3	tangent value of star 8 beta coordinate	SINT	REAL	SSKP0016TM
18	49	24	SST06073	S9_TA_3	tangent value of star 9 alpha coordinate	SINT	REAL	SSKP0016TM
19	52	24	SST06074	S9_TB_3	tangent value of star 9 beta coordinate	SINT	REAL	SSKP0016TM
20	55	24	SST06075	S10_TA_3	tangent value of star 10 alpha coordinate	SINT	REAL	SSKP0016TM
21	58	24	SST06076	S10_TB_3	tangent value of star 10 beta coordinate	SINT	REAL	SSKP0016TM
22	61	24	SST06077	S11_TA_3	tangent value of star 11 alpha coordinate	SINT	REAL	SSKP0016TM
23	64	24	SST06078	S11_TB_3	tangent value of star 11 beta coordinate	SINT	REAL	SSKP0016TM
24	67	24	SST06079	S12_TA_3	tangent value of star 12 alpha coordinate	SINT	REAL	SSKP0016TM
25	70	24	SST06080	S12_TB_3	tangent value of star 12 beta coordinate	SINT	REAL	SSKP0016TM
26	73	24	SST06081	S13_TA_3	tangent value of star 13 alpha coordinate	SINT	REAL	SSKP0016TM
27	76	24	SST06082	S13_TB_3	tangent value of star 13 beta coordinate	SINT	REAL	SSKP0016TM
28	79	24	SST06083	S14_TA_3	tangent value of star 14 alpha coordinate	SINT	REAL	SSKP0016TM



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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35803	TM_TDB_3	3	25	39	6	630	Y	161	FIXED	SST07000	106		Y	35803	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
29	82	24	SST06084	S14_TB_3	tangent value of star 14 beta coordinate	SINT	REAL	SSKP0016TM
30	85	24	SST06085	S15_TA_3	tangent value of star 15 alpha coordinate	SINT	REAL	SSKP0016TM
31	88	24	SST06086	S15_TB_3	tangent value of star 15 beta coordinate	SINT	REAL	SSKP0016TM
32	91	24	SST06087	S16_TA_3	tangent value of star 16 alpha coordinate	SINT	REAL	SSKP0016TM
33	94	24	SST06088	S16_TB_3	tangent value of star 16 beta coordinate	SINT	REAL	SSKP0016TM
34	97	16	SST06089	S1_CNR_3	star 1 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
35	99	16	SST06090	S2_CNR_3	star 2 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
36	101	16	SST06091	S3_CNR_3	star 3 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
37	103	16	SST06092	S4_CNR_3	star 4 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
38	105	16	SST06093	S5_CNR_3	star 5 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
39	107	16	SST06094	S6_CNR_3	star 6 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
40	109	16	SST06095	S7_CNR_3	star 7 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
41	111	16	SST06096	S8_CNR_3	star 8 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
42	113	16	SST06097	S9_CNR_3	star 9 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
43	115	16	SST06098	S10_CNR_3	star 10 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
44	117	16	SST06099	S11_CNR_3	star 11 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
45	119	16	SST06100	S12_CNR_3	star 12 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
46	121	16	SST06101	S13_CNR_3	star 13 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
47	123	16	SST06102	S14_CNR_3	star 14 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
48	125	16	SST06103	S15_CNR_3	star 15 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY





# Sentinel-2

## SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35803	TM_TDB_3	3	25	39	6	630	Y	161	FIXED	SST07000	106		Y	35803	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
49	127	16	SST06104	S16_CNR_3	star 16 catalog number in on-board GSC; 0 means: not identified	UINT	INTEGER	Z_IDENTITY
50	129	8	SST06105	S1_MAG_3	star 1 instrumental magnitude	SINT	REAL	SSKP0017TM
51	130	8	SST06106	S2_MAG_3	star 2 instrumental magnitude	SINT	REAL	SSKP0017TM
52	131	8	SST06107	S3_MAG_3	star 3 instrumental magnitude	SINT	REAL	SSKP0017TM
53	132	8	SST06108	S4_MAG_3	star 4 instrumental magnitude	SINT	REAL	SSKP0017TM
54	133	8	SST06109	S5_MAG_3	star 5 instrumental magnitude	SINT	REAL	SSKP0017TM
55	134	8	SST06110	S6_MAG_3	star 6 instrumental magnitude	SINT	REAL	SSKP0017TM
56	135	8	SST06111	S7_MAG_3	star 7 instrumental magnitude	SINT	REAL	SSKP0017TM
57	136	8	SST06112	S8_MAG_3	star 8 instrumental magnitude	SINT	REAL	SSKP0017TM
58	137	8	SST06113	S9_MAG_3	star 9 instrumental magnitude	SINT	REAL	SSKP0017TM
59	138	8	SST06114	S10_MAG_3	star 10 instrumental magnitude	SINT	REAL	SSKP0017TM
60	139	8	SST06115	S11_MAG_3	star 11 instrumental magnitude	SINT	REAL	SSKP0017TM
61	140	8	SST06116	S12_MAG_3	star 12 instrumental magnitude	SINT	REAL	SSKP0017TM
62	141	8	SST06117	S13_MAG_3	star 13 instrumental magnitude	SINT	REAL	SSKP0017TM
63	142	8	SST06118	S14_MAG_3	star 14 instrumental magnitude	SINT	REAL	SSKP0017TM
64	143	8	SST06119	S15_MAG_3	star 15 instrumental magnitude	SINT	REAL	SSKP0017TM
65	144	8	SST06120	S16_MAG_3	star 16 instrumental magnitude	SINT	REAL	SSKP0017TM
66	145	16	SSTG6006	GloPar1TDB_3	Global Parameter 1 TDB			
	0	1	SSTD6121	S1_VALID_3	if set to 1 the star 1 data are valid	UINT	STRING	SSKT0018TM
	1	1	SSTD6122	S2_VALID_3	if set to 1 the star 2 data are valid	UINT	STRING	SSKT0018TM
	2	1	SSTD6123	S3_VALID_3	if set to 1 the star 3 data are valid	UINT	STRING	SSKT0018TM
	3	1	SSTD6124	S4_VALID_3	if set to 1 the star 4 data are valid	UINT	STRING	SSKT0018TM
	4	1	SSTD6125	S5_VALID_3	if set to 1 the star 5 data are valid	UINT	STRING	SSKT0018TM
	5	1	SSTD6126	S6_VALID_3	if set to 1 the star 6 data are valid	UINT	STRING	SSKT0018TM
	6	1	SSTD6127	S7_VALID_3	if set to 1 the star 7 data are valid	UINT	STRING	SSKT0018TM
	7	1	SSTD6128	S8_VALID_3	if set to 1 the star 8 data are valid	UINT	STRING	SSKT0018TM
	8	1	SSTD6129	S9_VALID_3	if set to 1 the star 9 data are valid	UINT	STRING	SSKT0018TM
	9	1	SSTD6130	S10_VALID_3	if set to 1 the star 10 data are valid	UINT	STRING	SSKT0018TM
	10	1	SSTD6131	S11_VALID_3	if set to 1 the star 11 data are valid	UINT	STRING	SSKT0018TM
	11	1	SSTD6132	S12_VALID_3	if set to 1 the star 12 data are valid	UINT	STRING	SSKT0018TM



## Sentinel-2 SRDB Database Extract

TM Packets Structure

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Name	Description	Serv	Subserv	PID	PCAT	APID	Datatr	Len[By]	Variab	Discrim 1	SID	PID_Inter	PID_Valid	SPID	Gen_Stat
SSY_HK_35803	TM_TDB_3		3,25	39	6	630	Y	161	FIXED	SST07000	106		Y	35803	DISABLED

Rank	Pos[Byte / Bit]	Len[bit]	Name	Description	long Description	Code	Type	Cal.
	12	1	SSTD6133	S13_VALID_3	if set to 1 the star 13 data are valid	UINT	STRING	SSKT0018TM
	13	1	SSTD6134	S14_VALID_3	if set to 1 the star 14 data are valid	UINT	STRING	SSKT0018TM
	14	1	SSTD6135	S15_VALID_3	if set to 1 the star 15 data are valid	UINT	STRING	SSKT0018TM
	15	1	SSTD6136	S16_VALID_3	if set to 1 the star 16 data are valid	UINT	STRING	SSKT0018TM



**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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**Name:** SSKP0016TM **Descr:** tangent value

**Unit:**

X

Y

**Referenced by:**

SST06057 S1\_TA\_3  
SST06058 S1\_TB\_3  
SST06059 S2\_TA\_3  
SST06060 S2\_TB\_3  
SST06061 S3\_TA\_3  
SST06062 S3\_TB\_3  
SST06063 S4\_TA\_3  
SST06064 S4\_TB\_3  
SST06065 S5\_TA\_3  
SST06066 S5\_TB\_3  
SST06067 S6\_TA\_3  
SST06068 S6\_TB\_3  
SST06069 S7\_TA\_3  
SST06070 S7\_TB\_3  
SST06071 S8\_TA\_3  
SST06072 S8\_TB\_3  
SST06073 S9\_TA\_3  
SST06074 S9\_TB\_3  
SST06075 S10\_TA\_3  
SST06076 S10\_TB\_3  
SST06077 S11\_TA\_3  
SST06078 S11\_TB\_3  
SST06079 S12\_TA\_3  
SST06080 S12\_TB\_3  
SST06081 S13\_TA\_3  
SST06082 S13\_TB\_3  
SST06083 S14\_TA\_3  
SST06084 S14\_TB\_3  
SST06085 S15\_TA\_3  
SST06086 S15\_TB\_3  
SST06087 S16\_TA\_3  
SST06088 S16\_TB\_3

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**Modelname:** GENERIC

-8388608

-1

8388607

1

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**Sentinel-2**  
**SRDB Database Extract**  
TM Numerical Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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Page: 2 of 2

**Name:** SSKP0017TM **Descr:** instrumental magnitude

**Unit:** X Y

**Referenced by:**

SST06105 S1\_MAG\_3  
SST06106 S2\_MAG\_3  
SST06107 S3\_MAG\_3  
SST06108 S4\_MAG\_3  
SST06109 S5\_MAG\_3  
SST06110 S6\_MAG\_3  
SST06111 S7\_MAG\_3  
SST06112 S8\_MAG\_3  
SST06113 S9\_MAG\_3  
SST06114 S10\_MAG\_3  
SST06115 S11\_MAG\_3  
SST06116 S12\_MAG\_3  
SST06117 S13\_MAG\_3  
SST06118 S14\_MAG\_3  
SST06119 S15\_MAG\_3  
SST06120 S16\_MAG\_3

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**Modelname:** GENERIC

-128 12.8  
127 17.7

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**Sentinel-2**  
**SRDB Database Extract**  
TM Textual Calibration Curves

Date: 11.02.2013  
Comment/Unit:  
Database: SISS2CSW  
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**Name:** SSKT0018TM **Descr:** valid N/Y

**Referenced by:**

**From To Text**

SSTD6121 S1\_VALID\_3  
SSTD6122 S2\_VALID\_3  
SSTD6123 S3\_VALID\_3  
SSTD6124 S4\_VALID\_3  
SSTD6125 S5\_VALID\_3  
SSTD6126 S6\_VALID\_3  
SSTD6127 S7\_VALID\_3  
SSTD6128 S8\_VALID\_3  
SSTD6129 S9\_VALID\_3  
SSTD6130 S10\_VALID\_3  
SSTD6131 S11\_VALID\_3  
SSTD6132 S12\_VALID\_3  
SSTD6133 S13\_VALID\_3  
SSTD6134 S14\_VALID\_3  
SSTD6135 S15\_VALID\_3  
SSTD6136 S16\_VALID\_3

0 NOTVALID  
1 VALID