

GLAH03 Product Data Dictionary

File-Level (Global) Attributes

Attribute	Example Value
featureType	timeSeries
ShortName	GLAH03
title	GLAS/ICESat L1A Global Engineering Data (HDF5)
comment	The level 1A global engineering data (GLAH03) data granules contain approximately 190 minutes (2 orbits) of GLAS instrument housekeeping data including temperatures, voltages, and currents.
summary	GLAH03 contains the instrument engineering data and is a time-ordered level 1A data product. The data has been converted from the raw form to engineering units. The data was used to calibrate measurements contained on GLAH01 and GLAH02 and to perform GLAS instrument performance assessment. Each GLAH03 file was created from an equivalent GLA03 binary formatted file. The provenance metadata shows the history that created the GLA03.
license	https://nsidc.org/data/icesat/disclaimer.html
references	not_set, https://nsidc.org/daac/icesat/index.html (GLAS Product page at NSIDC)
AccessConstraints	Data may not be reproduced or distributed without including the CitationForExternalPublication for this product included in this Metadata. Data may not be distributed in an altered form without the written permission of the GLAS Science Team.
CitationforExternalPublication	The data used in this study were produced by the GLAS Science Team at the ICESat Science Investigator-led Processing System (I-SIPS) at NASA/GSFC. The data archive site is the NSIDC DAAC.
contributor_role	Data Originator, Investigator, Producer, Producer
contributor_name	David W. Hancock (David.W.Hancock@nasa.gov), Bob E Schutz (schutz@utcsr.ae.utexas.edu), Jay Zwally (Jay.Zwally@nasa.gov), John P DiMarzio (John.P.Dimarzio.1@nasa.gov)
creator_name	ICESat Science Investigator-led Processing System (I-SIPS)
creator_email	David.W.Hancock@nasa.gov
publisher_name	NSIDC User Services
publisher_email	nsidc@nsidc.org
publisher_url	https://nsidc.org/daac/icesat/index.html
platform	Ice, Cloud, and Land Elevation Satellite (ICESat)
instrument	Geoscience Laser Altimeter System (GLAS)
processing_level	1A
date_created	2013-03-27T20:05:14
spatial_coverage_type	Horizontal
history	2011-06-01T19:14:02 glas_l1a 6.0.1 GLA03_033_2113_002_0085_0_01_0001.DAT, 2013-03-27T20:05:14....

	GLA03_h5_convert Version 1.1 (March 2013) out/GLAH03_033_2113_002_0085_0_01_0001.H5
geospatial_lat_min	-90.0
geospatial_lat_max	90.0
geospatial_lon_min	-180.0
geospatial_lon_max	180.0
geospatial_lat_units	degrees_north
geospatial_lon_units	degrees_east
keywords	Earth Science > Spectral/Engineering > Sensor Characteristics > Total Temperature
keywords_vocabulary	GCMD Science Keywords Version 6.0
standard_vocabulary_name	CF-1.6
naming_authority	http://dx.doi.org
project	Ice, Cloud, and Land Elevation Satellite (GLAS_HDF)
time_type	UTC
date_type	J2000
time_coverage_start	2005-11-01T11:42:39
time_coverage_end	2005-11-01T14:55:46
time_coverage_duration	11620
source	Satellite Measurements
HDFVersion	HDF5 1.8.9
identifier_file_uuid	D65E7C2A-7BC1-444F-AE6F-991DAD0B45FF
identifier_product_doi	10.5067/ICESAT/GLAS/DATA103
identifier_product_type	GLAH03
identifier_product_format_version	1.0
Conventions	CF-1.6
institution	National Aeronautics and Space Administration (NASA)

Group: /Data_4HZ

This group contain data with a rate of 4HZ. 1Hz data may be indexed to the 4Hz data using the `i_rec_ndx` paramete in each respective time group.

Dimension Scales

Label	Datatype	long_name	units	description	source	coordinates
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	(Dimensions)	(standard_name)				
DS_UTCTime_4	DOUBLE (UNLIMITED)	Transmit Time of First Shot in frame in J2000 (time)	seconds	The transmit time of the first shot in the 1 second frame measured as 'UTC seconds' elapsed since Jan 1 2000 12:00:00 UTC. This time has been derived from the GPS time accounting for leap seconds. The first item is the whole number of seconds; the second item is the fractional part in microseconds.	Rel 33 GLAS Binary Data	NOT_SET
DS_Hdr_Index_6	INTEGER (UNLIMITED)	Header Index size 6 (NOT_SET)	NOT_SET	This array is an index dimension for the primary headers.	NOT_SET	NOT_SET
DS_Hdr_Index_8	INTEGER (UNLIMITED)	Header Index size 8 (NOT_SET)	NOT_SET	This array is an index dimension for the secondary headers.	NOT_SET	NOT_SET
DS_Flag_Index_32	INTEGER (UNLIMITED)	Flag Index size 32 (NOT_SET)	NOT_SET	This array is an index dimension for the flags of size 32.	NOT_SET	NOT_SET

Group: Data_4HZ/Time

This group contains the 4Hz index and time-related parameters.

Label	Datatype (Dimensions)	long_name (standard_name)	units	description	source	coordinates
i_rec_ndx	INTEGER (UNLIMITED)	GLAS Record Index (NOT_SET)	NOT_SET	Unique index that relates this record to the corresponding record(s) in each GLAS data product.	Rel 33 GLAS Binary Data	DS_UTCTime_4

Group: Data_4HZ/Geolocation

This group contains geolocation-related parameters.

Label	Datatype (Dimensions)	long_name (standard_name)	units	description	source	coordinates
d4_calcSCLat	DOUBLE (UNLIMITED)	Latitude (latitude)	degrees_north	S/C latitude calculated from s/c position data in degrees.	Rel 33 GLAS Binary Data	DS_UTCTime_4
d4_calcSCLon	DOUBLE (UNLIMITED)	Longitude (longitude)	degrees_east	S/C longitude calculated from s/c position data in degrees.	Rel 33 GLAS Binary Data	DS_UTCTime_4

Group: Data_4HZ/Waveform

This group contains the 1 HZ APID12 or 13 waveform parameters (Altimeter Digitizer Data-Large & Data-Small).

Label	Datatype (Dimensions)	long_name (standard_name)	units	description	source	coordinates
i_phdr_ad	INTEGER (UNLIMITED, 6)	Primary Header APID 12 or 13 (NOT_SET)	NOT_SET	Primary Header APID 12 or 13 (Altimeter Digitizer Data-Large & Data-Small)	Rel 33 GLAS Binary Data	DS_UTCTime_4
i_shdr_ad	INTEGER (UNLIMITED, 8)	Secondary Header 12 or 13 (time stamp) (NOT_SET)	NOT_SET	Secondary Header 12 or 13 (time stamp)	Rel 33 GLAS Binary Data	DS_UTCTime_4

i_sctrOTSWf	INTEGER (UNLIMITED)	Shot Counter for OTS WF (NOT_SET)	counts	Shot counters for the OTS pulse waveforms. Dimensioned to 4 because 4 OTS waveforms occur each second.	Rel 33 GLAS Binary Data	DS_UTCTime_4
i_OTSPWf	INTEGER (UNLIMITED, 32)	Sampled OTS Pulse Waveform (NOT_SET)	counts	Sampled OTS pulse waveform. Note: offset for this data is from the laser fire. Dimensioned to 128 because 32 samples occur 4 times per second.	Rel 33 GLAS Binary Data	DS_UTCTime_4

Group: /Data_40HZ

This group contain data with a rate of 40HZ. 1Hz data may be indexed to the 40Hz data using the i_rec_ndx paramete in each respective time group.

Dimension Scales

Label	Datatype (Dimensions)	long_name (standard_name)	units	description	source	coordinates
DS_UTCTime_40	DOUBLE (UNLIMITED)	Transmit Time of First Shot in frame in J2000 (time)	seconds	The transmit time of the first shot in the 1 second frame measured as 'UTC seconds' elapsed since Jan 1 2000 12:00:00 UTC. This time has been derived from the GPS time accounting for leap seconds. The first item is the whole number of seconds; the second item is the fractional part in microseconds.	Rel 33 GLAS Binary Data	NOT_SET
DS_Flag_Index_5	INTEGER (UNLIMITED)	Flag Index size 5 (NOT_SET)	NOT_SET	This array is an index dimension for the flags of size 5.	NOT_SET	NOT_SET

Group: Data_40HZ/Time

This group contains the 40Hz index and time-related parameters.

Label	Datatype (Dimensions)	long_name (standard_name)	units	description	source	coordinates
i_rec_ndx	INTEGER (UNLIMITED)	GLAS Record Index (NOT_SET)	NOT_SET	Unique index that relates this record to the corresponding record(s) in each GLAS data product.	Rel 33 GLAS Binary Data	DS_UTCTime_40

Group: Data_40HZ/Geolocation

This group contains geolocation-related parameters.

Label	Datatype (Dimensions)	long_name (standard_name)	units	description	source	coordinates
d40_calcSClat	DOUBLE (UNLIMITED)	Latitude (latitude)	degrees_north	S/C latitude calculated from s/c position data in degrees.	Rel 33 GLAS Binary Data	DS_UTCTime_40
d40_calcSClon	DOUBLE (UNLIMITED)	Longitude (longitude)	degrees_east	S/C longitude calculated from s/c position data in degrees.	Rel 33 GLAS Binary Data	DS_UTCTime_40

Group: Data_40HZ/Waveform

This group contains the 1 HZ APID12 or 13 waveform parameters (Altimeter Digitizer Data-Large & Data-Small).

Label	Datatype (Dimensions)	long_name (standard_name)	units	description	source	coordinates
i_shotctr_40	INTEGER	Shot Counter	NOT_SET	Shot Counter	Rel 33	DS_UTCTime_40

	(UNLIMITED)	(NOT_SET)			GLAS Binary Data	
i_fack_time	INTEGER (UNLIMITED, 5)	Fire Acknowledge Time (NOT_SET)	NOT_SET	Fire Acknowledge Time (from Freq and Time Bd). Freq & Time Board TIm, 40 bit counter. Dimensioned (5,40).	Rel 33 GLAS Binary Data	DS_UTCTime_40
i_fcnd_time	INTEGER (UNLIMITED, 5)	Fire Command Time (NOT_SET)	NOT_SET	Fire Command Time (from Freq and Time Bd). Freq & Time Board TIm, 40 bit counter. Dimensioned (5,40).	Rel 33 GLAS Binary Data	DS_UTCTime_40
i_DualPinA	INTEGER (UNLIMITED)	Dual Pin A (NOT_SET)	counts	From Laser Monitor Board. Each corresponds to one of the 40 shots.	Rel 33 GLAS Binary Data	DS_UTCTime_40
i_DualPinB	INTEGER (UNLIMITED)	Dual Pin B (NOT_SET)	counts	From Laser Monitor Board. Each corresponds to one of the 40 shots.	Rel 33 GLAS Binary Data	DS_UTCTime_40
i_532nrg	INTEGER (UNLIMITED)	Etalon 532 Energy (NOT_SET)	NOT_SET	Etalon 532 Energy.	Rel 33 GLAS Binary Data	DS_UTCTime_40
i_SCPoSpkt	INTEGER (UNLIMITED)	Spacecraft Time and Position Packet (NOT_SET)	NOT_SET	Spacecraft position and GPS Time command packet received over 1553 bus minus 8 byte CCSDS command header. Format is defined in spacecraft ICD.	Rel 33 GLAS Binary Data	DS_UTCTime_40

Group: /Data_1HZ

This group contain data with a rate of 1HZ. 1HZ data may be indexed to the 40HZ data using the i_rec_ndx paramete in each respective time group.

Dimension Scales

Label	Datatype (Dimensions)	long_name (standard_name)	units	description	source	coordinates
DS_UTCTime_1	DOUBLE (UNLIMITED)	Transmit Time of First Shot in frame in J2000 (time)	seconds	The transmit time of the first shot in the 1 second frame measured as 'UTC seconds' elapsed since Jan 1 2000 12:00:00 UTC. This time has been derived from the GPS time accounting for leap seconds. The first item is the whole number of seconds; the second item is the fractional part in microseconds.	Rel 33 GLAS Binary Data	NOT_SET
DS_Hdr_Index_6	INTEGER (UNLIMITED)	Header Index size 6 (NOT_SET)	NOT_SET	This array is an index dimension for the primary headers.	NOT_SET	NOT_SET
DS_Hdr_Index_8	INTEGER (UNLIMITED)	Header Index size 8 (NOT_SET)	NOT_SET	This array is an index dimension for the secondary headers.	NOT_SET	NOT_SET
DS_Flag_Index_2	INTEGER (UNLIMITED)	Flag Index size 2 (NOT_SET)	NOT_SET	This array is an index dimension for the flags of size 2.	NOT_SET	NOT_SET

DS_Flag_Index_4	INTEGER (UNLIMITED)	Flag Index size 4 (NOT_SET)	NOT_SET	This array is an index dimension for the flags of size 4.	NOT_SET	NOT_SET
DS_Flag_Index_5	INTEGER (UNLIMITED)	Flag Index size 5 (NOT_SET)	NOT_SET	This array is an index dimension for the flags of size 5.	NOT_SET	NOT_SET
DS_Flag_Index_6	INTEGER (UNLIMITED)	Flag Index size 6 (NOT_SET)	NOT_SET	This array is an index dimension for the flags of size 6.	NOT_SET	NOT_SET
DS_Flag_Index_8	INTEGER (UNLIMITED)	Flag Index size 8 (NOT_SET)	NOT_SET	This array is an index dimension for the flags of size 8.	NOT_SET	NOT_SET
DS_Flag_Index_18	INTEGER (UNLIMITED)	Flag Index size 18 (NOT_SET)	NOT_SET	This array is an index dimension for the flags of size 18.	NOT_SET	NOT_SET
DS_Flag_Index_24	INTEGER (UNLIMITED)	Flag Index size 24 (NOT_SET)	NOT_SET	This array is an index dimension for the flags of size 24.	NOT_SET	NOT_SET
DS_Flag_Index_32	INTEGER (UNLIMITED)	Flag Index size 32 (NOT_SET)	NOT_SET	This array is an index dimension for the flags of size 32.	NOT_SET	NOT_SET

Group: Data_1HZ/Time

This group contains the 1HZ index and time-related parameters.

Label	Datatype (Dimensions)	long_name (standard_name)	units	description	source	coordinates				
i_rec_ndx	INTEGER (UNLIMITED)	GLAS Record Index (NOT_SET)	NOT_SET	Unique index that relates this record to the corresponding record(s) in each GLAS data product.	Rel 33 GLAS Binary Data	DS_UTCTime_1				
shot_time_flg	INTEGER_1 (UNLIMITED)	time correction flag (NOT_SET)	NOT_SET	Shot time flag; Indicates what shot time is used. <table border="1" data-bbox="743 1241 1222 1430"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1</td> <td>transmit_time ground_bounce_time</td> </tr> </table>	flag values	flag_meanings	0, 1	transmit_time ground_bounce_time	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1	transmit_time ground_bounce_time									
gps_time_flg	INTEGER_1 (UNLIMITED)	time correction flag (NOT_SET)	NOT_SET	GPS time flag; Indicates if delta gps time correction is applied to shot time <table border="1" data-bbox="743 1551 1089 1686"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1</td> <td>not_applied applied</td> </tr> </table>	flag values	flag_meanings	0, 1	not_applied applied	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1	not_applied applied									
pl_timing_flg	INTEGER_1 (UNLIMITED)	time correction flag (NOT_SET)	NOT_SET	Post-launch timing; indicates if post-launch timing bias is applied. Data value is stored in the Metadata group. <table border="1" data-bbox="743 1808 1089 1942"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1</td> <td>not_applied applied</td> </tr> </table>	flag values	flag_meanings	0, 1	not_applied applied	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1	not_applied applied									
ddelay_flg	INTEGER_1	time correction	NOT_SET	Digitizer turn-on delay flag; Indicates if digitizer turn-on	Rel 33	DS_UTCTime_1				

	(UNLIMITED)	flag (NOT_SET)		delay is accounted for in shot time. Data value is stored in the Metadata group.	GLAS Binary Data					
				<table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1</td> <td>applied not_applied</td> </tr> </table>	flag values	flag_meanings	0, 1	applied not_applied		
flag values	flag_meanings									
0, 1	applied not_applied									
peaktp_flg	INTEGER_1 (UNLIMITED)	time correction flag (NOT_SET)	NOT_SET	Peak of transmit pulse flag; Indicates if time to peak of transmit pulse is accounted for in shot time	Rel 33 GLAS Binary Data	DS_UTCTime_1				
				<table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1</td> <td>applied not_applied</td> </tr> </table>	flag values	flag_meanings	0, 1	applied not_applied		
flag values	flag_meanings									
0, 1	applied not_applied									

Group: Data_1HZ/Geolocation

This group contains geolocation-related parameters.

Label	Datatype (Dimensions)	long_name (standard_name)	units	description	source	coordinates
d1_calcSCLat	DOUBLE (UNLIMITED)	Latitude (latitude)	degrees_north	S/C latitude calculated from s/c position data in degrees.	Rel 33 GLAS Binary Data	DS_UTCTime_1
d1_calcSCLon	DOUBLE (UNLIMITED)	Longitude (longitude)	degrees_east	S/C longitude calculated from s/c position data in degrees.	Rel 33 GLAS Binary Data	DS_UTCTime_1

Group: Data_1HZ/Packet_Data

This group contains flags indicating the quality or suitability of data.

Label	Datatype (Dimensions)	long_name (standard_name)	units	description	source	coordinates				
apid_ADLg_1_flg	INTEGER_1 (UNLIMITED)	APID Data Availability Flag (NOT_SET)	NOT_SET	Altimeter Digitizer large wf packet APID availability flag for 1st 10 shots	Rel 33 GLAS Binary Data	DS_UTCTime_1				
				<table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1, 2</td> <td>present filled_at_EDOS never_received_ISIPS_filled</td> </tr> </table>	flag values	flag_meanings	0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled		
flag values	flag_meanings									
0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled									
apid_ADLg_2_flg	INTEGER_1 (UNLIMITED)	APID Data Availability Flag (NOT_SET)	NOT_SET	Altimeter Digitizer large wf packet APID availability flag for 2nd 10 shots	Rel 33 GLAS Binary Data	DS_UTCTime_1				
				<table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1, 2</td> <td>present filled_at_EDOS never_received_ISIPS_filled</td> </tr> </table>	flag values	flag_meanings	0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled		
flag values	flag_meanings									
0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled									
apid_ADLg_3_flg	INTEGER_1 (UNLIMITED)	APID Data Availability Flag (NOT_SET)	NOT_SET	Altimeter Digitizer large wf packet APID availability flag for 3rd 10 shots	Rel 33 GLAS Binary Data	DS_UTCTime_1				
				<table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> </table>	flag values	flag_meanings				
flag values	flag_meanings									

				<table border="1"> <tr> <td>0, 1, 2</td> <td>present filled_at_EDOS never_received_ISIPS_filled</td> </tr> </table>	0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled				
0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled									
apid_ADLg_4_flg	INTEGER_1 (UNLIMITED)	APID Data Availability Flag (NOT_SET)	NOT_SET	<p>Altimeter Digitizer large wf packet APID availability flag for 4th 10 shots</p> <table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1, 2</td> <td>present filled_at_EDOS never_received_ISIPS_filled</td> </tr> </table>	flag values	flag_meanings	0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled									
apid_ADsm_1_flg	INTEGER_1 (UNLIMITED)	APID Data Availability Flag (NOT_SET)	NOT_SET	<p>Altimeter Digitizer small wf packet APID availability flag for 1st 10 shots</p> <table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1, 2</td> <td>present filled_at_EDOS never_received_ISIPS_filled</td> </tr> </table>	flag values	flag_meanings	0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled									
apid_ADsm_2_flg	INTEGER_1 (UNLIMITED)	APID Data Availability Flag (NOT_SET)	NOT_SET	<p>Altimeter Digitizer small wf packet APID availability flag for 2nd 10 shots</p> <table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1, 2</td> <td>present filled_at_EDOS never_received_ISIPS_filled</td> </tr> </table>	flag values	flag_meanings	0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled									
apid_ADsm_3_flg	INTEGER_1 (UNLIMITED)	APID Data Availability Flag (NOT_SET)	NOT_SET	<p>Altimeter Digitizer small wf packet APID availability flag for 3rd 10 shots</p> <table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1, 2</td> <td>present filled_at_EDOS never_received_ISIPS_filled</td> </tr> </table>	flag values	flag_meanings	0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled									
apid_ADsm_4_flg	INTEGER_1 (UNLIMITED)	APID Data Availability Flag (NOT_SET)	NOT_SET	<p>Altimeter Digitizer small wf packet APID availability flag for 4th 10 shots</p> <table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1, 2</td> <td>present filled_at_EDOS never_received_ISIPS_filled</td> </tr> </table>	flag values	flag_meanings	0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled									
apid_PC532_flg	INTEGER_1 (UNLIMITED)	APID Data Availability Flag (NOT_SET)	NOT_SET	<p>532 Photon counter packet APID availability flag</p> <table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1, 2</td> <td>present filled_at_EDOS never_received_ISIPS_filled</td> </tr> </table>	flag values	flag_meanings	0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled									

apid_CD1064_flg	INTEGER_1 (UNLIMITED)	APID Data Availability Flag (NOT_SET)	NOT_SET	1064 Cloud Digitizer packer APID availability flag <table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1, 2</td> <td>present filled_at_EDOS never_received_ISIPS_filled</td> </tr> </table>	flag values	flag_meanings	0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled									
apid_ADSci_flg	INTEGER_1 (UNLIMITED)	APID Data Availability Flag (NOT_SET)	NOT_SET	Ancillary science packet APID availability flag <table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1, 2</td> <td>present filled_at_EDOS never_received_ISIPS_filled</td> </tr> </table>	flag values	flag_meanings	0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled									
apid_ASAD_flg	INTEGER_1 (UNLIMITED)	APID Data Availability Flag (NOT_SET)	NOT_SET	Altimeter Digitizer telemetry data in Ancillary science packet APID availability flag <table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1, 2</td> <td>present filled_at_EDOS never_received_ISIPS_filled</td> </tr> </table>	flag values	flag_meanings	0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled									
apid_ASPC_flg	INTEGER_1 (UNLIMITED)	APID Data Availability Flag (NOT_SET)	NOT_SET	Photon counter telemetry data in Ancillary science packet APID availability flag <table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1, 2</td> <td>present filled_at_EDOS never_received_ISIPS_filled</td> </tr> </table>	flag values	flag_meanings	0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled									
apid_ASCF_flg	INTEGER_1 (UNLIMITED)	APID Data Availability Flag (NOT_SET)	NOT_SET	Cloud Digitizer telemetry data in Ancillary science packet APID availability flag <table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1, 2</td> <td>present filled_at_EDOS never_received_ISIPS_filled</td> </tr> </table>	flag values	flag_meanings	0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled									
apid_ASCT_flg	INTEGER_1 (UNLIMITED)	APID Data Availability Flag (NOT_SET)	NOT_SET	Command and Telemetry (C&T) board telem. data in Ancillary science packet APID availability flag <table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1, 2</td> <td>present filled_at_EDOS never_received_ISIPS_filled</td> </tr> </table>	flag values	flag_meanings	0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled									
apid_CT20_flg	INTEGER_1 (UNLIMITED)	APID Data Availability Flag (NOT_SET)	NOT_SET	CT HW telemetry packet #1 (APID 20 - Laser Monitor Board, Temperature Controller Module, Motor Control System & High Voltage Power Supply)	Rel 33 GLAS Binary Data	DS_UTCTime_1				

				Housekeeping Telemetry) APID availability flag						
				<table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1, 2</td> <td>present filled_at_EDOS never_received_ISIPS_filled</td> </tr> </table>	flag values	flag_meanings	0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled		
flag values	flag_meanings									
0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled									
apid_CT21_flg	INTEGER_1 (UNLIMITED)	APID Data Availability Flag (NOT_SET)	NOT_SET	CT HW telemetry packet #2 (APID 21 - Power Distribution Unit (PDU) Housekeeping Telemetry) APID availability flag	Rel 33 GLAS Binary Data	DS_UTCTime_1				
				<table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1, 2</td> <td>present filled_at_EDOS never_received_ISIPS_filled</td> </tr> </table>	flag values	flag_meanings	0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled		
flag values	flag_meanings									
0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled									
apid_CT22_flg	INTEGER_1 (UNLIMITED)	APID Data Availability Flag (NOT_SET)	NOT_SET	CT HW telemetry packet #3 (APID 22 - Housekeeping Temperatures #1 Telemetry) APID availability flag	Rel 33 GLAS Binary Data	DS_UTCTime_1				
				<table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1, 2</td> <td>present filled_at_EDOS never_received_ISIPS_filled</td> </tr> </table>	flag values	flag_meanings	0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled		
flag values	flag_meanings									
0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled									
apid_CT23_flg	INTEGER_1 (UNLIMITED)	APID Data Availability Flag (NOT_SET)	NOT_SET	CT HW telemetry packet #4 (APID 23 - Housekeeping Temperatures #2 Telemetry) APID availability flag	Rel 33 GLAS Binary Data	DS_UTCTime_1				
				<table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1, 2</td> <td>present filled_at_EDOS never_received_ISIPS_filled</td> </tr> </table>	flag values	flag_meanings	0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled		
flag values	flag_meanings									
0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled									
apid_CT50_flg	INTEGER_1 (UNLIMITED)	APID Data Availability Flag (NOT_SET)	NOT_SET	CT HW telemetry packet #5 (APID 50 - Small Software #2 Telemetry) APID availability flag	Rel 33 GLAS Binary Data	DS_UTCTime_1				
				<table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1, 2</td> <td>present filled_at_EDOS never_received_ISIPS_filled</td> </tr> </table>	flag values	flag_meanings	0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled		
flag values	flag_meanings									
0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled									
apid_SS24_flg	INTEGER_1 (UNLIMITED)	APID Data Availability Flag (NOT_SET)	NOT_SET	Small software telemetry packet #1 (APID 24 - Small Software #1 Telemetry) APID availability flag	Rel 33 GLAS Binary Data	DS_UTCTime_1				
				<table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1, 2</td> <td>present filled_at_EDOS never_received_ISIPS_filled</td> </tr> </table>	flag values	flag_meanings	0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled		
flag values	flag_meanings									
0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled									

apid_LS25_flg	INTEGER_1 (UNLIMITED)	APID Data Availability Flag (NOT_SET)	NOT_SET	Large software telemetry packet #1 (APID 25 - Large Software Telemetry #1) APID availability flag <table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1, 2</td> <td>present filled_at_EDOS never_received_ISIPS_filled</td> </tr> </table>	flag values	flag_meanings	0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled									
apid_LS55_flg	INTEGER_1 (UNLIMITED)	APID Data Availability Flag (NOT_SET)	NOT_SET	Large software telemetry packet #2 (APID 55 - Large Software Telemetry #2) APID availability flag <table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1, 2</td> <td>present filled_at_EDOS never_received_ISIPS_filled</td> </tr> </table>	flag values	flag_meanings	0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled									
apid_GPS_flg	INTEGER_1 (UNLIMITED)	APID Data Availability Flag (NOT_SET)	NOT_SET	GPS telemetry packet APID availability flag <table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1, 2</td> <td>present filled_at_EDOS never_received_ISIPS_filled</td> </tr> </table>	flag values	flag_meanings	0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled									
apid_PRAP_flg	INTEGER_1 (UNLIMITED)	APID Data Availability Flag (NOT_SET)	NOT_SET	S/C position, rate, and attitude telemetry packet (PRAP) APID availability flag <table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1, 2</td> <td>present filled_at_EDOS never_received_ISIPS_filled</td> </tr> </table>	flag values	flag_meanings	0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled									
apid_LPA_1_flg	INTEGER_1 (UNLIMITED)	APID Data Availability Flag (NOT_SET)	NOT_SET	Laser Pulse Array (LPA) packet #1 APID availability flag <table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1, 2</td> <td>present filled_at_EDOS never_received_ISIPS_filled</td> </tr> </table>	flag values	flag_meanings	0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled									
apid_LPA_2_flg	INTEGER_1 (UNLIMITED)	APID Data Availability Flag (NOT_SET)	NOT_SET	LPA packet #2 APID availability flag <table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1, 2</td> <td>present filled_at_EDOS never_received_ISIPS_filled</td> </tr> </table>	flag values	flag_meanings	0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled									
apid_LPA_3_flg	INTEGER_1 (UNLIMITED)	APID Data Availability Flag (NOT_SET)	NOT_SET	LPA packet #3 APID availability flag <table border="1"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> </table>	flag values	flag_meanings	Rel 33 GLAS Binary Data	DS_UTCTime_1		
flag values	flag_meanings									

				0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled		
apid_LPA_4_flg	INTEGER_1 (UNLIMITED)	APID Data Availability Flag (NOT_SET)	NOT_SET	LPA packet #4 APID availability flag		Rel 33 GLAS Binary Data	DS_UTCTime_1
				flag values	flag_meanings		
				0, 1, 2	present filled_at_EDOS never_received_ISIPS_filled		

Group: Data_1HZ/Waveform

This group contains the 1 HZ APID12 or 13 waveform parameters (Altimeter Digitizer Data-Large & Data-Small).

Label	Datatype (Dimensions)	long_name (standard_name)	units	description	source	coordinates	
i_phdr_15	INTEGER (UNLIMITED, 6)	Primary Header APID 15 (NOT_SET)	NOT_SET	Primary Header APID 15 (Photon Counter (PC) Science)	Rel 33 GLAS Binary Data	DS_UTCTime_1	
i_shdr_15	INTEGER (UNLIMITED, 8)	Secondary Header APID 15 (time stamp) (NOT_SET)	NOT_SET	Secondary Header APID 15 (time stamp)	Rel 33 GLAS Binary Data	DS_UTCTime_1	
i_phdr_17	INTEGER (UNLIMITED, 6)	Primary Header APID 17 (NOT_SET)	NOT_SET	Primary Header APID 17 (Cloud Digitizer (CD) Science)	Rel 33 GLAS Binary Data	DS_UTCTime_1	
i_shdr_17	INTEGER (UNLIMITED, 8)	Secondary Header APID 17 (time stamp) (NOT_SET)	NOT_SET	Secondary Header APID 17 (time stamp)	Rel 33 GLAS Binary Data	DS_UTCTime_1	
i_phdr_19	INTEGER (UNLIMITED, 6)	Primary Header APID 19 (NOT_SET)	NOT_SET	Primary Header APID 19 (Ancillary Science)	Rel 33 GLAS Binary Data	DS_UTCTime_1	
i_shdr_19	INTEGER (UNLIMITED, 8)	Secondary Header APID 19 (time stamp) (NOT_SET)	NOT_SET	Secondary Header APID 19 (time stamp)	Rel 33 GLAS Binary Data	DS_UTCTime_1	
i_sctr_19	INTEGER (UNLIMITED)	Shot Counter APID 19 (NOT_SET)	counts	Shot Counter APID 19 (Ancillary Science)	Rel 33 GLAS Binary Data	DS_UTCTime_1	
i_chin_AD_flag	INTEGER_1 (UNLIMITED)	Check-In Flags, Mask 0x1F (NOT_SET)	NOT_SET	The Check-in Flag indicates what telemetry tasks are represented in the AD Task packet	Rel 33 GLAS Binary Data	DS_UTCTime_1	
				flag values			flag_meanings
				0, 1			not_in_ad_pkt in_ad_pkt

i_chin_PC_flag	INTEGER_1 (UNLIMITED)	Check-In Flags, Mask 0x1F (NOT_SET)	NOT_SET	The Check-in Flag indicates what telemetry tasks are represented in the PC Task packet <table border="1"><thead><tr><th>flag values</th><th>flag_meanings</th></tr></thead><tbody><tr><td>0, 1</td><td>not_in_pc_pkt in_pc_pkt</td></tr></tbody></table>	flag values	flag_meanings	0, 1	not_in_pc_pkt in_pc_pkt	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1	not_in_pc_pkt in_pc_pkt									
i_chin_CD_flag	INTEGER_1 (UNLIMITED)	Check-In Flags, Mask 0x1F (NOT_SET)	NOT_SET	The Check-in Flag indicates what telemetry tasks are represented in the CD Task packet <table border="1"><thead><tr><th>flag values</th><th>flag_meanings</th></tr></thead><tbody><tr><td>0, 1</td><td>not_in_cd_pkt in_cd_pkt</td></tr></tbody></table>	flag values	flag_meanings	0, 1	not_in_cd_pkt in_cd_pkt	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1	not_in_cd_pkt in_cd_pkt									
i_chin_GP_flag	INTEGER_1 (UNLIMITED)	Check-In Flags, Mask 0x1F (NOT_SET)	NOT_SET	The Check-in Flag indicates what telemetry tasks are represented in the GP Task packet <table border="1"><thead><tr><th>flag values</th><th>flag_meanings</th></tr></thead><tbody><tr><td>0, 1</td><td>not_in_gp_pkt in_gp_pkt</td></tr></tbody></table>	flag values	flag_meanings	0, 1	not_in_gp_pkt in_gp_pkt	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1	not_in_gp_pkt in_gp_pkt									
i_chin_CT_flag	INTEGER_1 (UNLIMITED)	Check-In Flags, Mask 0x1F (NOT_SET)	NOT_SET	The Check-in Flag indicates what telemetry tasks are represented in the CT Task packet <table border="1"><thead><tr><th>flag values</th><th>flag_meanings</th></tr></thead><tbody><tr><td>0, 1</td><td>not_in_ct_pkt in_ct_pkt</td></tr></tbody></table>	flag values	flag_meanings	0, 1	not_in_ct_pkt in_ct_pkt	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1	not_in_ct_pkt in_ct_pkt									
i_RMS_loc	INTEGER (UNLIMITED)	RMS Noise Calculation Location (NOT_SET)	ns	Location of RMS noise calculation: starting digitizer element number. RMS location start time. DSP tlm.	Rel 33 GLAS Binary Data	DS_UTCTime_1				
i_sctrPDlyWF	INTEGER (UNLIMITED)	Shot Counter for Post Delay WF (NOT_SET)	counts	Shot counter for the Post delay pulse waveform.	Rel 33 GLAS Binary Data	DS_UTCTime_1				
i_delaywf_start	INTEGER (UNLIMITED)	Post Delay Pulse Waveform Start Address (NOT_SET)	ns	Start address of the Post delay laser pulse waveform in nanosecond resolution relative to the first sample of the waveform.	Rel 33 GLAS Binary Data	DS_UTCTime_1				
i_PDlyWf	INTEGER (UNLIMITED, 32)	Sampled Post Delay Pulse Waveform (NOT_SET)	counts	Sampled post delay pulse waveform. Note: offset for this data is from the transmit pulse peak. Dimensioned to 32 because 32 samples occur once per second.	Rel 33 GLAS Binary Data	DS_UTCTime_1				
i_otswf_start	INTEGER (UNLIMITED)	OTS Pulse Waveform Start Address (NOT_SET)	ns	Start address of the following four Optical Test System (OTS) laser pulse waveforms in nanosecond resolution relative to the first sample of the waveform.	Rel 33 GLAS Binary Data	DS_UTCTime_1				
i_cTx_win_loc	INTEGER (UNLIMITED)	Commanded Location of Transmit Pulse Search Window (NOT_SET)	ns	Reflects commanded value.	Rel 33 GLAS Binary Data	DS_UTCTime_1				

i_cNumNoTxing	INTEGER (UNLIMITED)	Commanded Number of No Threshold Crossings (NOT_SET)	counts	Number of no threshold crossing shots for error condition. Reflects commanded value.	Rel 33 GLAS Binary Data	DS_UTCTime_1
i_cTxThresh	INTEGER (UNLIMITED)	Commanded Transmit Pulse Threshold Value (NOT_SET)	counts	Reflects commanded value.	Rel 33 GLAS Binary Data	DS_UTCTime_1
i_cRwinSf	INTEGER (UNLIMITED, 24)	Commanded Range Window Weighting Scale Factors (NOT_SET)	NOT_SET	Reflects commanded value. Dimensioned to 24 because 4 scale factors per each filter (6) occurs each second.	Rel 33 GLAS Binary Data	DS_UTCTime_1
d_cBgCoeff	DOUBLE (UNLIMITED, 18)	Commanded Background Coefficients (NOT_SET)	NOT_SET	Reflects commanded value. Background noise coefficients A1, A2, A3 for the 4ns, 8ns, 16ns, 32ns, 64ns, and 128ns filter. Dimensioned 3 by 6 because 3 coefficients occur for the filter per second.	Rel 33 GLAS Binary Data	DS_UTCTime_1
i_cEnAGC	INTEGER (UNLIMITED)	Commanded Enable/Disable AGC (NOT_SET)	NOT_SET	Enable/Disable Auto Gain Calculation. Reflects commanded value.	Rel 33 GLAS Binary Data	DS_UTCTime_1
i_cEnAGC_4	INTEGER (UNLIMITED)	Commanded Enable/Disable Use 4ns Filter for AGC (NOT_SET)	NOT_SET	Enable/Disable Use 4ns Filter for AGC. Reflects commanded value.	Rel 33 GLAS Binary Data	DS_UTCTime_1
i_cRetGn	INTEGER (UNLIMITED)	Commanded Return Gain Value (NOT_SET)	NOT_SET	Return Gain Value. Reflects commanded value.	Rel 33 GLAS Binary Data	DS_UTCTime_1
d_cAGC_A	DOUBLE (UNLIMITED, 4)	Commanded AGC A Parameter (NOT_SET)	NOT_SET	AGC A Parameters. Reflects commanded value. Dimensioned to 4 because 4 parameters occur per second.	Rel 33 GLAS Binary Data	DS_UTCTime_1
d_cAGC_B	DOUBLE (UNLIMITED, 4)	Commanded AGC B Parameter (NOT_SET)	NOT_SET	AGC B Parameters. Reflects commanded value. Dimensioned to 4 because 4 parameters occur per second.	Rel 33 GLAS Binary Data	DS_UTCTime_1
d_cAGC_C	DOUBLE (UNLIMITED, 2)	Commanded AGC C Parameter (NOT_SET)	NOT_SET	AGC C0 and C1 Parameters. Reflects commanded value. Dimensioned to 2 because 2 parameters occur per second.	Rel 33 GLAS Binary Data	DS_UTCTime_1
i_cAGC_Gmax	INTEGER (UNLIMITED)	Commanded AGC Gmax Parameter (NOT_SET)	NOT_SET	AGC Gmax Parameter. Reflects commanded value.	Rel 33 GLAS Binary Data	DS_UTCTime_1
i_cAGC_Gmin	INTEGER (UNLIMITED)	Commanded AGC Gmin Parameter (NOT_SET)	NOT_SET	AGC Gmin Parameter. Reflects commanded value.	Rel 33 GLAS Binary Data	DS_UTCTime_1
i_cAGC_Ginit	INTEGER (UNLIMITED)	Commanded AGC Ginit	NOT_SET	AGC Ginit Parameter. Reflects commanded value.	Rel 33 GLAS	DS_UTCTime_1

		Parameter (NOT_SET)			Binary Data	
d_cAGC_Zmax	DOUBLE (UNLIMITED)	Commanded AGC Zmax Parameter (NOT_SET)	NOT_SET	AGC Zmax Parameter. Reflects commanded value.	Rel 33 GLAS Binary Data	DS_UTCTime_1
d_cAGC_Zmin	DOUBLE (UNLIMITED)	Commanded AGC Zmin Parameter (NOT_SET)	NOT_SET	AGC Zmin Parameter. Reflects commanded value.	Rel 33 GLAS Binary Data	DS_UTCTime_1
d_cAGC_Vref	DOUBLE (UNLIMITED)	Commanded AGC Vref Parameter (NOT_SET)	NOT_SET	AGC Vref Parameter. Reflects commanded value.	Rel 33 GLAS Binary Data	DS_UTCTime_1
i_cAGC_Vmin	INTEGER (UNLIMITED)	Commanded AGC Vmin Parameter (NOT_SET)	NOT_SET	AGC Vmin Parameter. Reflects commanded value.	Rel 33 GLAS Binary Data	DS_UTCTime_1
i_cFiltCTol	INTEGER (UNLIMITED)	Commanded Filter Coincidence Tolerance (NOT_SET)	NOT_SET	Tolerance for coincidence of all filters. Reflects commanded value.	Rel 33 GLAS Binary Data	DS_UTCTime_1
i_cRwinDOff	INTEGER (UNLIMITED, 6)	Commanded Range Window Dump Offsets (NOT_SET)	counts	Range Window Dump Offsets. Offsets applied to trailing edge of range pulse for the selection of the 1000 sample region to be downlinked. Each filter is given a separate offset. Index 0 => 4 nanosecond filter, Index 1 => 8 nanosecond filter, Index 2 => 16 nanosecond filter, Index 3 => 32 nanosecond filter, Index 4 => 64 nanosecond filter and Index 5 => 128 nanosecond filter. Reflects commanded value. Dimensioned to 6 because offset occurs for each filter (6) per second.	Rel 33 GLAS Binary Data	DS_UTCTime_1
i_cRetFThr	INTEGER (UNLIMITED, 6)	Commanded Return Pulse Filter Threshold Values (NOT_SET)	NOT_SET	Reflects commanded value. The return pulse threshold values for all filters. Dimensioned to 6 because occurs for each filter (6) per second.	Rel 33 GLAS Binary Data	DS_UTCTime_1
i_cFIRCoeff	INTEGER (UNLIMITED, 8)	Commanded FIR Coefficients (NOT_SET)	NOT_SET	FIR COEFFICIENTS - aabb ccdd xxyy zzzw; set of eight 8-bit coefficients used by the FIR Filter engine for all filtering conditions. Aabb ccdd - First set of coefficients. Xxyy zzzw- Second set of coefficients. Reflects commanded value. Dimensioned to 8 because 8 coefficients occur per second.	Rel 33 GLAS Binary Data	DS_UTCTime_1
i_FWminStDev	INTEGER (UNLIMITED)	Filter Weight Minimum Standard Deviation (NOT_SET)	NOT_SET	Filter weight minimum standard deviation.	Rel 33 GLAS Binary Data	DS_UTCTime_1
i_FNzMinThr	INTEGER (UNLIMITED, 6)	Filter Noise Minimum Thresholds for each Filter (NOT_SET)	NOT_SET	Filter Noise Minimum Thresholds for each Filter (4ns, 8ns, 16 ns, 32 ns, 64 ns, 128ns).	Rel 33 GLAS Binary Data	DS_UTCTime_1
i_FRrejMskLead	INTEGER	Filter reject mask	NOT_SET	Filter reject mask for leading edge	Rel 33	DS_UTCTime_1

	(UNLIMITED)	for leading edge (NOT_SET)			GLAS Binary Data					
i_FRjMskTrail	INTEGER (UNLIMITED)	Filter reject mask for trailing edge (NOT_SET)	NOT_SET	Filter reject mask for trailing edge	Rel 33 GLAS Binary Data	DS_UTCTime_1				
i_ObSurfType	INTEGER_1 (UNLIMITED)	Surface Type (NOT_SET)	NOT_SET	Surface type from telemetry data: 0=ocean & no ice; 1=land & no ice; 2=ocean & ice; 3=land & ice. <table border="1" data-bbox="792 432 1240 621"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1, 2, 3</td> <td>ocean_no_ice land_no_ice ocean_ice land_ice.</td> </tr> </table>	flag values	flag_meanings	0, 1, 2, 3	ocean_no_ice land_no_ice ocean_ice land_ice.	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1, 2, 3	ocean_no_ice land_no_ice ocean_ice land_ice.									
i_PosDatFlg	INTEGER_1 (UNLIMITED)	Position data valid flag (NOT_SET)	NOT_SET	Set to zero(0) if no errors detected during position data processing, otherwise non-zero. <table border="1" data-bbox="792 743 1105 877"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1</td> <td>no_errors errors</td> </tr> </table>	flag values	flag_meanings	0, 1	no_errors errors	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1	no_errors errors									
i_SCPosPktShot	INTEGER (UNLIMITED)	Shot Count for 1553 Spacecraft Time and Position Packet (NOT_SET)	NOT_SET	Shot count captured by RT task when it receives spacecraft position and command packet. Only lower 8 bits valid	Rel 33 GLAS Binary Data	DS_UTCTime_1				
i_SCPosPktGMET	INTEGER (UNLIMITED, 6)	GLAS MET for 1553 Spacecraft Time and Position Packet (NOT_SET)	NOT_SET	GLAS MET captured by RT task when it receives spacecraft position and command packet.	Rel 33 GLAS Binary Data	DS_UTCTime_1				
i_RngDatSrc	INTEGER (UNLIMITED)	Range data source (NOT_SET)	NOT_SET	Source of range data: 0=s/c time & pos pkt; 1=uplinked DEM bytes; 2=uplinked Rmin/Rmax.	Rel 33 GLAS Binary Data	DS_UTCTime_1				
i_FTlatch	INTEGER (UNLIMITED, 5)	GPS 10 Sec Pulse 40 bit count value (NOT_SET)	counts	Last 40-bit count value from frequency & time board. Corresponds to the last GPS 10 second pulse. Dimensioned to 16 because the latch time occurs once per second. 2 4-byte items because the latch value is 40 bits. The upper 24 bits are not used.	Rel 33 GLAS Binary Data	DS_UTCTime_1				
i_GPSppsGMET	INTEGER (UNLIMITED, 6)	GLAS MET for GPS 0.1 Hz Pulse (NOT_SET)	counts	GLAS MET at time of last GPS 10 sec pulse (in VTCW format)	Rel 33 GLAS Binary Data	DS_UTCTime_1				
i_et_cal_mode	INTEGER (UNLIMITED)	Etalon Calibration - Current mode (NOT_SET)	NOT_SET	Current mode of Etalon calibration: OFF=0, Acquire=1, Tracking=2 or Invalid=3.	Rel 33 GLAS Binary Data	DS_UTCTime_1				
i_ET_state	INTEGER (UNLIMITED)	Etalon State (NOT_SET)	NOT_SET	The state of the etalon: Init=0, Set Temp=1, Wait=2, Average=3.	Rel 33 GLAS	DS_UTCTime_1				

					Binary Data					
i_ET_LT_Flag	INTEGER_1 (UNLIMITED)	Etalon Tracking Low Transmission Flag (NOT_SET)	NOT_SET	Etalon Tracking Low Transmission Flag: 0=good, 1=low. <table border="1"> <thead> <tr> <th>flag values</th> <th>flag_meanings</th> </tr> </thead> <tbody> <tr> <td>0, 1</td> <td>good low</td> </tr> </tbody> </table>	flag values	flag_meanings	0, 1	good low	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1	good low									
i_ET_Act_Flag	INTEGER_1 (UNLIMITED)	Etalon Tracking Active Flag (NOT_SET)	NOT_SET	Etalon Tracking Active Flag: 0=paused, 1=active. <table border="1"> <thead> <tr> <th>flag values</th> <th>flag_meanings</th> </tr> </thead> <tbody> <tr> <td>0, 1</td> <td>paused active</td> </tr> </tbody> </table>	flag values	flag_meanings	0, 1	paused active	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1	paused active									
i_ET_TM_Flag	INTEGER_1 (UNLIMITED)	Etalon Tracking Test Mode Flag (NOT_SET)	NOT_SET	Etalon Tracking Test Mode Flag:0=normal, 1=test. <table border="1"> <thead> <tr> <th>flag values</th> <th>flag_meanings</th> </tr> </thead> <tbody> <tr> <td>0, 1</td> <td>normal test</td> </tr> </tbody> </table>	flag values	flag_meanings	0, 1	normal test	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1	normal test									
i_ET_OM_Flag	INTEGER_1 (UNLIMITED)	Etalon Tracking Openloop Mode Flag (NOT_SET)	NOT_SET	Etalon Tracking Openloop Mode Flag: 0=normal, 1=openloop. <table border="1"> <thead> <tr> <th>flag values</th> <th>flag_meanings</th> </tr> </thead> <tbody> <tr> <td>0, 1</td> <td>normal openloop</td> </tr> </tbody> </table>	flag values	flag_meanings	0, 1	normal openloop	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1	normal openloop									
i_ET_OT_Flag	INTEGER_1 (UNLIMITED)	Etalon Tracking Openloop Update Toggle (NOT_SET)	NOT_SET	Etalon Tracking Openloop Update Toggle: toggles between 0 & 1 for each update. <table border="1"> <thead> <tr> <th>flag values</th> <th>flag_meanings</th> </tr> </thead> <tbody> <tr> <td>0, 1</td> <td>toggle_0 toggle_1</td> </tr> </tbody> </table>	flag values	flag_meanings	0, 1	toggle_0 toggle_1	Rel 33 GLAS Binary Data	DS_UTCTime_1
flag values	flag_meanings									
0, 1	toggle_0 toggle_1									
d_et_onax_xmit	DOUBLE (UNLIMITED)	Etalon Averaged on-axis transmission (NOT_SET)	NOT_SET	Etalon Averaged on-axis transmission.	Rel 33 GLAS Binary Data	DS_UTCTime_1				
d_et_offax_xmit	DOUBLE (UNLIMITED)	Etalon Averaged off-axis transmission (NOT_SET)	NOT_SET	Etalon Averaged off-axis transmission.	Rel 33 GLAS Binary Data	DS_UTCTime_1				
d_et_temperr	DOUBLE (UNLIMITED)	Etalon Temperature Error (NOT_SET)	NOT_SET	Etalon Temperature Error.	Rel 33 GLAS Binary Data	DS_UTCTime_1				
d_et_trkfltout	DOUBLE (UNLIMITED)	Etalon Tracking Loop Filter output (NOT_SET)	NOT_SET	Etalon Tracking Loop Filter output.	Rel 33 GLAS Binary Data	DS_UTCTime_1				
d_et_trkfltavg	DOUBLE	Etalon Tracking	NOT_SET	Etalon Tracking Failure Average.	Rel 33	DS_UTCTime_1				

	(UNLIMITED)	Failure Average (NOT_SET)			GLAS Binary Data	
d_et_StartTemp	DOUBLE (UNLIMITED)	Start Temperature (NOT_SET)	Celsius	Start Temperature.	Rel 33 GLAS Binary Data	DS_UTCTime_1
d_et_StopTemp	DOUBLE (UNLIMITED)	Stop Temperature (NOT_SET)	Celsius	Stop Temperature.	Rel 33 GLAS Binary Data	DS_UTCTime_1
d_et_TempStep	DOUBLE (UNLIMITED)	Temperature Step (NOT_SET)	Celsius	Temperature Step.	Rel 33 GLAS Binary Data	DS_UTCTime_1
d_et_acqavg_tm	DOUBLE (UNLIMITED)	Etalon Averaging time for acquire command (NOT_SET)	seconds	Etalon averaging time for acquire command.	Rel 33 GLAS Binary Data	DS_UTCTime_1
d_et_acqset_tm	DOUBLE (UNLIMITED)	Etalon Temperature settle time for acquire cmd (NOT_SET)	seconds	Etalon Temperature settle time for acquire cmd.	Rel 33 GLAS Binary Data	DS_UTCTime_1
i_et_update_ctr	INTEGER (UNLIMITED)	Etalon averaging update counter (NOT_SET)	NOT_SET	Etalon averaging update counter.	Rel 33 GLAS Binary Data	DS_UTCTime_1

Group: Data_1HZ/Instrument_Settings

This group contains information relating to GLAS flight paramter settings.

Label	Datatype (Dimensions)	long_name (standard_name)	units	description	source	coordinates
d_Rmin	DOUBLE (UNLIMITED)	Rmin (NOT_SET)	Kilometers	Range window start in kilometers.	Rel 33 GLAS Binary Data	DS_UTCTime_1
d_Rmax	DOUBLE (UNLIMITED)	Rmax (NOT_SET)	Kilometers	Range window stop in kilometers.	Rel 33 GLAS Binary Data	DS_UTCTime_1
d_Wmin	DOUBLE (UNLIMITED)	Wmin (NOT_SET)	Kilometers	Minimum window size. Default is 2km.	Rel 33 GLAS Binary Data	DS_UTCTime_1
d_Wmax	DOUBLE (UNLIMITED)	Wmax (NOT_SET)	Kilometers	Maximum window size. Default is 11km.	Rel 33 GLAS Binary Data	DS_UTCTime_1
i_DEMmin	INTEGER (UNLIMITED)	DEM minimum byte (NOT_SET)	meters	DEM miminum elevation byte used to calculate hmin.	Rel 33 GLAS Binary Data	DS_UTCTime_1
i_DEMmax	INTEGER (UNLIMITED)	DEM maximum byte (NOT_SET)	meters	DEM maximum elevation byte used to calculate hmax.	Rel 33 GLAS Binary Data	DS_UTCTime_1
d_ETsettleTime	DOUBLE (UNLIMITED)	Etalon Temperature Settle Time (NOT_SET)	seconds	Etalon Temperature Settle Time.	Rel 33 GLAS Binary Data	DS_UTCTime_1

d_Hoffmin	DOUBLE (UNLIMITED)	Hoffmin (DEM uncertainty + bias) (NOT_SET)	Kilometers	Offset associated with the minimum height. Default is 1.125km.	Rel 33 GLAS Binary Data	DS_UTCTime_1
d_Hoffmax	DOUBLE (UNLIMITED)	Hoffmax (DEM uncertainty - bias) (NOT_SET)	Kilometers	Offset associated with the maximum height. Default is negative 0.875km.	Rel 33 GLAS Binary Data	DS_UTCTime_1
d_Rbmin	DOUBLE (UNLIMITED)	Rbmin (NOT_SET)	Kilometers	Bias added to the minimum range for Altimeter Digitizer (in kilometers). Default is 0.	Rel 33 GLAS Binary Data	DS_UTCTime_1
d_Rbmax	DOUBLE (UNLIMITED)	Rbmax (NOT_SET)	Kilometers	Bias added to the maximum range for Altimeter Digitizer (in kilometers). Default is 0.	Rel 33 GLAS Binary Data	DS_UTCTime_1
d_Hsat	DOUBLE (UNLIMITED)	Height (Hsat) (NOT_SET)	Kilometers	S/C geodetic altitude of s/c above earth's surface in kilometers.	Rel 33 GLAS Binary Data	DS_UTCTime_1
d_Rsat	DOUBLE (UNLIMITED)	Rsat (NOT_SET)	Kilometers	Distance from s/c to center of earth in kilometers.	Rel 33 GLAS Binary Data	DS_UTCTime_1

Group: /Data_4s

This group contain data with a rate of every 4 seconds. 1Hz data may be indexed to the 40HZ data using the i_rec_ndx paramete in each respective time group.

Dimension Scales

Label	Datatype (Dimensions)	long_name (standard_name)	units	description	source	coordinates
DS_UTCTime_4s	DOUBLE (UNLIMITED)	Transmit Time of First Shot in frame in J2000 (time)	seconds	The transmit time of the first shot in the 1 second frame measured as 'UTC seconds' elapsed since Jan 1 2000 12:00:00 UTC. This time has been derived from the GPS time accounting for leap seconds. The first item is the whole number of seconds; the second item is the fractional part in microseconds.	Rel 33 GLAS Binary Data	NOT_SET
DS_Hdr_Index_6	INTEGER (UNLIMITED)	Header Index size 6 (NOT_SET)	NOT_SET	This array is an index dimension for the primary headers.	NOT_SET	NOT_SET
DS_Hdr_Index_8	INTEGER (UNLIMITED)	Header Index size 8 (NOT_SET)	NOT_SET	This array is an index dimension for the secondary headers.	NOT_SET	NOT_SET
DS_Flag_Index_2	INTEGER (UNLIMITED)	Flag Index size 2 (NOT_SET)	NOT_SET	This array is an index dimension for the flags of size 2.	NOT_SET	NOT_SET
DS_Flag_Index_4	INTEGER (UNLIMITED)	Flag Index size 4 (NOT_SET)	NOT_SET	This array is an index dimension for the flags of size 4.	NOT_SET	NOT_SET

Group: Data_4s/Time

This group contains the 0.25HZ index and time-related parameters.

Label	Datatype (Dimensions)	long_name (standard_name)	units	description	source	coordinates
i_rec_ndx	INTEGER (UNLIMITED)	GLAS Record Index (NOT_SET)	NOT_SET	Unique index that relates this record to the corresponding record(s) in each GLAS data product.	Rel 33 GLAS Binary Data	DS_UTCTime_4s

Group: Data_4s/Geolocation

This group contains geolocation-related parameters.

Label	Datatype (Dimensions)	long_name (standard_name)	units	description	source	coordinates
d4s_calcSClat	DOUBLE (UNLIMITED)	Latitude (latitude)	degrees_north	S/C latitude calculated from s/c position data in degrees.	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d4s_calcSClon	DOUBLE (UNLIMITED)	Longitude (longitude)	degrees_east	S/C longitude calculated from s/c position data in degrees.	Rel 33 GLAS Binary Data	DS_UTCTime_4s

Group: Data_4s/API20

This group contains the 4 second APID20 parameters (Laser Monitor Board, Temperature Controller Module, Motor Control System & High Voltage Power Supply Housekeeping Telemetry).

Label	Datatype (Dimensions)	long_name (standard_name)	units	description	source	coordinates
i_phdr_20	INTEGER (UNLIMITED, 6)	Primary Header APID 20 (NOT_SET)	NOT_SET	Primary Header APID 20 (Laser Monitor Board, Temperature Controller Module, Motor Control System & High Voltage Power Supply Housekeeping Telemetry)	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_shdr_20	INTEGER (UNLIMITED, 8)	Secondary Header APID 20 (time stamp) (NOT_SET)	NOT_SET	Secondary Header APID 20 (time stamp) (Laser Monitor Board, Temperature Controller Module, Motor Control System & High Voltage Power Supply Housekeeping Telemetry)	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_g_nrg	DOUBLE (UNLIMITED)	532 Energy Throughput (NOT_SET)	percent	532 Energy	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_Lsr1Osc_t	DOUBLE (UNLIMITED)	Laser Oscillator Temperature (NOT_SET)	Celsius	Laser Oscillator Temperature	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_Lsr1Dblr_t	DOUBLE (UNLIMITED)	Laser Doubler Temperature (NOT_SET)	Celsius	Laser Doubler Temperature	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_LMB1Ref_t	DOUBLE (UNLIMITED)	LMB Reference Temperature (NOT_SET)	Celsius	Laser Monitor Board (LMB) Reference Temperature	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_L1Elect_t	DOUBLE (UNLIMITED)	Electronics Temperature (NOT_SET)	Celsius	Electronics Temperature (MEU)	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_LsrOsc_c	DOUBLE (UNLIMITED)	Laser Oscillator Current (NOT_SET)	Amps	Laser Osc Current	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_LsrAmp_c	DOUBLE (UNLIMITED)	Laser Amplifier Current (NOT_SET)	Amps	Laser Amp Current	Rel 33 GLAS	DS_UTCTime_4s

					Binary Data	
d_LsrDr_pw	DOUBLE (UNLIMITED)	Laser Drive Pulse Width (NOT_SET)	pw in microsec	Laser Dr Pulse Width	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_Lsr2Osc_t	DOUBLE (UNLIMITED)	Oscillator Temperature (NOT_SET)	Celsius	Oscillator Temperature	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_Lsr2Dblr_t	DOUBLE (UNLIMITED)	Laser Doubler Temperature (NOT_SET)	Celsius	Laser Doubler Temperature	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_LMB2Ref_t	DOUBLE (UNLIMITED)	LMB Reference Temperature (NOT_SET)	Celsius	LMB Reference Temperature	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_L2Elect_t	DOUBLE (UNLIMITED)	Electronics Temperature (NOT_SET)	Celsius	Electronics Temperature	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_Lsr3Osc_t	DOUBLE (UNLIMITED)	Oscillator Temperature (NOT_SET)	Celsius	Oscillator Temperature	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_Lsr3Dblr_t	DOUBLE (UNLIMITED)	Laser Doubler Temperature (NOT_SET)	Celsius	Laser Doubler Temperature	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_LMB3Ref_t	DOUBLE (UNLIMITED)	LMB Reference Temperature (NOT_SET)	Celsius	LMB Reference Temperature	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_L3Elect_t	DOUBLE (UNLIMITED)	Electronics Temperature (NOT_SET)	Celsius	Electronics Temperature	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_PrimAD550v	DOUBLE (UNLIMITED)	Primary Altimeter Detector 550V Voltage (NOT_SET)	Volts	Primary Altimeter Detector 550 V	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_SecAD550v	DOUBLE (UNLIMITED)	Secondary Altimeter Detector 550V Voltage (NOT_SET)	Volts	Secondary Altimeter Detector 550 V	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_spcm1_550v	DOUBLE (UNLIMITED)	SPCM Detector #1 550V Voltage (NOT_SET)	Volts	SPCM Detector #1 550 V	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_spcm2_550v	DOUBLE (UNLIMITED)	SPCM Detector #2 550V Voltage	Volts	SPCM Detector #2 550 V	Rel 33 GLAS	DS_UTCTime_4s

		(NOT_SET)			Binary Data	
d_spcm3_550v	DOUBLE (UNLIMITED)	SPCM Detector #3 550V Voltage (NOT_SET)	Volts	SPCM Detector #3 550 V	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_spcm4_550v	DOUBLE (UNLIMITED)	SPCM Detector #4 550V Voltage (NOT_SET)	Volts	SPCM Detector #4 550 V	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_spcm5_550v	DOUBLE (UNLIMITED)	SPCM Detector #5 550V Voltage (NOT_SET)	Volts	SPCM Detector #5 550 V	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_spcm6_550v	DOUBLE (UNLIMITED)	SPCM Detector #6 550V Voltage (NOT_SET)	Volts	SPCM Detector #6 550 V	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_spcm7_550v	DOUBLE (UNLIMITED)	SPCM Detector #7 550V Voltage (NOT_SET)	Volts	SPCM Detector #7 550 V	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_spcm8_550v	DOUBLE (UNLIMITED)	SPCM Detector #8 550V Voltage (NOT_SET)	Volts	SPCM Detector #8 550 V	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_Int1_t	DOUBLE (UNLIMITED)	Internal Temperature #1 (NOT_SET)	Celsius	Internal Temp #1	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_ct_prail_v	DOUBLE (UNLIMITED)	C & T Positive Rail (NOT_SET)	Volts	C & T Positive Rail	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_Int3_t	DOUBLE (UNLIMITED)	Internal Temperature #3 (NOT_SET)	Celsius	Internal Temp #3	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_VCxmtr_c	DOUBLE (UNLIMITED)	VC X Motor Current (NOT_SET)	milliAmps	VC X Motor Current	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_VCYmtr_c	DOUBLE (UNLIMITED)	VC Y Motor Current (NOT_SET)	milliAmps	VC Y Motor Current	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_Xpos	DOUBLE (UNLIMITED)	X Position (NOT_SET)	Amps	X Position	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_Ypos	DOUBLE (UNLIMITED)	Y Position (NOT_SET)	Volts	Y Position	Rel 33 GLAS	DS_UTCTime_4s

					Binary Data					
d_ADdetOutGn	DOUBLE (UNLIMITED)	Transmitted Gain (NOT_SET)	counts	The transmitted gain value. The AD Detector Outgoing Gain readback. Commanded value ; repeats for 4 seconds. From APID 20, Offset 29 (Laser Monitor Board, Temperature Controller Module, Motor Control System & High Voltage Power Supply Housekeeping Telemetry).	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
d_ADdetRetGn	DOUBLE (UNLIMITED)	AD Detector Return Gain readback (NOT_SET)	counts	AD Detector Return Gain readback	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
d_DPinA	DOUBLE (UNLIMITED)	Dual Pin -A Throughput (NOT_SET)	Percent	Dual Pin -A	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
d_DPinB	DOUBLE (UNLIMITED)	Dual Pin -B Throughput (NOT_SET)	Percent	Dual Pin -B	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
i_Laser1_stat	INTEGER (UNLIMITED)	Laser 1 Status (NOT_SET)	NOT_SET	Indicates whether Laser 1 is enabled or disabled. Value of 0 = enabled; 1 = disabled. <table border="1" data-bbox="760 905 1084 1041"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1</td> <td>enabled disabled</td> </tr> </table>	flag values	flag_meanings	0, 1	enabled disabled	Rel 33 GLAS Binary Data	DS_UTCTime_4s
flag values	flag_meanings									
0, 1	enabled disabled									
i_Laser2_stat	INTEGER (UNLIMITED)	Laser 2 Status (NOT_SET)	NOT_SET	Indicates whether Laser 2 is enabled or disabled. Value of 0 = enabled; 1 = disabled. <table border="1" data-bbox="760 1161 1084 1297"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1</td> <td>enabled disabled</td> </tr> </table>	flag values	flag_meanings	0, 1	enabled disabled	Rel 33 GLAS Binary Data	DS_UTCTime_4s
flag values	flag_meanings									
0, 1	enabled disabled									
i_Laser3_stat	INTEGER (UNLIMITED)	Laser 3 Status (NOT_SET)	NOT_SET	Indicates whether Laser 3 is enabled or disabled. Value of 0 = enabled; 1 = disabled. <table border="1" data-bbox="760 1417 1084 1554"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1</td> <td>enabled disabled</td> </tr> </table>	flag values	flag_meanings	0, 1	enabled disabled	Rel 33 GLAS Binary Data	DS_UTCTime_4s
flag values	flag_meanings									
0, 1	enabled disabled									
i_OTS_stat	INTEGER (UNLIMITED)	OTS Enable Status (NOT_SET)	NOT_SET	Indicates whether OTS is enabled or disabled. Value of 0 = enabled; 1 = disabled. <table border="1" data-bbox="760 1673 1084 1810"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1</td> <td>enabled disabled</td> </tr> </table>	flag values	flag_meanings	0, 1	enabled disabled	Rel 33 GLAS Binary Data	DS_UTCTime_4s
flag values	flag_meanings									
0, 1	enabled disabled									

Group: Data_4s/APID21

This group contains the 4 second APID21 parameters (Power Distribution Unit (PDU) Housekeeping Telemetry).

Label	Datatype (Dimensions)	long_name (standard_name)	units	description	source	coordinates
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i_phdr_21	INTEGER (UNLIMITED, 6)	Primary Header APID 21 (NOT_SET)	NOT_SET	Primary Header APID 21	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_shdr_21	INTEGER (UNLIMITED, 8)	Secondary Header APID 21 (time stamp) (NOT_SET)	NOT_SET	Secondary Header APID 21 (time stamp)	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_BusAlnst_28v	DOUBLE (UNLIMITED)	+28V Bus A Instrument Voltage (NOT_SET)	Volts	+28V Bus A Instrument	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_HBSupp_c	DOUBLE (UNLIMITED)	Hybrid Supplies Current (NOT_SET)	Amps	Hybrid Supplies	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_HVPSDetSup_c	DOUBLE (UNLIMITED)	HVPS Detector Supplies Current (NOT_SET)	Amps	HVPS Detector Supplies	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_OpHtr_c	DOUBLE (UNLIMITED)	Operational Heaters Current (NOT_SET)	Amps	Operational Heaters	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_MechSys_c	DOUBLE (UNLIMITED)	Mechanical System Current (NOT_SET)	Amps	Mechanical System	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_BusBL1_v	DOUBLE (UNLIMITED)	+28V Bus B Laser 1 Voltage (NOT_SET)	Volts	+28V Bus B Laser 1	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_BusBL1_c	DOUBLE (UNLIMITED)	+28V Bus B Laser 1 Current (NOT_SET)	Amps	+28V Bus B Laser 1	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_BusCL2_v	DOUBLE (UNLIMITED)	+28V Bus C Laser 2 Voltage (NOT_SET)	Volts	+28V Bus C Laser 2	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_BusCL2_c	DOUBLE (UNLIMITED)	+28V Bus C Laser 2 Current (NOT_SET)	Amps	+28V Bus C Laser 2	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_BusDL3_v	DOUBLE (UNLIMITED)	+28V Bus D Laser 3 Voltage (NOT_SET)	Volts	+28V Bus D Laser 3	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_BusDL3_c	DOUBLE (UNLIMITED)	+28V Bus D Laser 3 Current (NOT_SET)	Amps	+28V Bus D Laser 3	Rel 33 GLAS Binary Data	DS_UTCTime_4s

d_5VHb1_v	DOUBLE (UNLIMITED)	+ 5 V Hybrid # 1 Voltage (NOT_SET)	Volts	+ 5 V Hybrid # 1	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_5VHb1_c	DOUBLE (UNLIMITED)	+ 5 V Hybrid # 1 Current (NOT_SET)	Amps	+ 5 V Hybrid # 1	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_12VHb2_v	DOUBLE (UNLIMITED)	+12 V Hybrid # 2 Voltage (NOT_SET)	Volts	+12 V Hybrid # 2	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_12VHb2_c	DOUBLE (UNLIMITED)	+ 12 V Hybrid # 2 Current (NOT_SET)	Amps	+ 12 V Hybrid # 2	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_n12VHb3_v	DOUBLE (UNLIMITED)	- 12 V Hybrid # 3 Voltage (NOT_SET)	Volts	- 12 V Hybrid # 3	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_n12VHb3_c	DOUBLE (UNLIMITED)	- 12 V Hybrid # 3 Current (NOT_SET)	Amps	- 12 V Hybrid # 3	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_5VHb4_v	DOUBLE (UNLIMITED)	+ 5 V Hybrid # 4 Voltage (NOT_SET)	Volts	+ 5 V Hybrid # 4	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_5VHb4_c	DOUBLE (UNLIMITED)	+ 5 V Hybrid # 4 Current (NOT_SET)	Amps	+ 5 V Hybrid # 4	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_n5VHb5_v	DOUBLE (UNLIMITED)	- 5 V Hybrid # 5 Voltage (NOT_SET)	Volts	- 5 V Hybrid # 5	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_n5VHb5_c	DOUBLE (UNLIMITED)	- 5 V Hybrid # 5 Current (NOT_SET)	Amps	- 5 V Hybrid # 5	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_n5VHb6_v	DOUBLE (UNLIMITED)	- 5 V Hybrid # 6 Voltage (NOT_SET)	Volts	- 5 V Hybrid # 6	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_n5VHb6_c	DOUBLE (UNLIMITED)	- 5 V Hybrid # 6 Current (NOT_SET)	Amps	- 5 V Hybrid # 6	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_15VBPR_v	DOUBLE (UNLIMITED)	+ 15 V Boost Post Register Voltage (NOT_SET)	Volts	+ 15 V Boost Post Reg	Rel 33 GLAS Binary Data	DS_UTCTime_4s

d_n15VBPR_v	DOUBLE (UNLIMITED)	- 15 V Boost Post Register Current (NOT_SET)	Volts	- 15 V Boost Post Reg	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_12VPOscTC_c	DOUBLE (UNLIMITED)	12V Prim Osc Thermal Control (NOT_SET)	Amps	+12 V Prim Osc Thermal Control	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_12VSOscTC_c	DOUBLE (UNLIMITED)	12V Sec Osc Thermal Control (NOT_SET)	Amps	+12 V Sec Osc Thermal Control	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_n2VDV_v	DOUBLE (UNLIMITED)	-2 V Discrete Voltage (NOT_SET)	Volts	-2 V Discrete Voltage	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_HbHS_t	DOUBLE (UNLIMITED)	Hybrid Heatsink Temperature (NOT_SET)	Celsius	Hybrid Heatsink	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_FETsbHS_t	DOUBLE (UNLIMITED)	FET Switch Bank Heatsink Temperature (NOT_SET)	Celsius	FET Switch Bank Heatsink	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_PrimOsc_Stat	INTEGER (UNLIMITED)	Primary Oscillator Status (NOT_SET)	NOT_SET	Status of Primary Oscillator from FET switch bank status. Value of 0 indicates off; value of 1 indicates on.	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_SecOsc_Stat	INTEGER (UNLIMITED)	Secondary Oscillator Status (NOT_SET)	NOT_SET	Status of secondary Oscillator from FET switch bank status. Value of 0 indicates off; value of 1 indicates on.	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_PrimAD_Stat	INTEGER (UNLIMITED)	Primary Altimeter Digitizer Status (NOT_SET)	NOT_SET	Status of Primary altimeter digitizer from FET switch bank status. Value of 0 indicates off; value of 1 indicates on.	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_SecAD_Stat	INTEGER (UNLIMITED)	Secondary Altimeter Digitizer Status (NOT_SET)	NOT_SET	Status of secondary altimeter digitizer from FET switch bank status. Value of 0 indicates off; value of 1 indicates on.	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_0VHVPSRef_v	DOUBLE (UNLIMITED)	HVPS +0 Volts Reference Voltage (NOT_SET)	Volts	HVPS +0 Volts Reference	Rel 33 GLAS Binary Data	DS_UTCTime_4s
d_5VHVPSRef_v	DOUBLE (UNLIMITED)	HVPS +5 V Reference Voltage (NOT_SET)	Volts	HVPS +5 V Reference	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_OptSensSt	INTEGER (UNLIMITED)	Optical Sensor Status (NOT_SET)	NOT_SET	Indicates status of primary and secondary laser select mechanisms and altimeter digitizer detectors.	Rel 33 GLAS Binary Data	DS_UTCTime_4s

i_CmdTImStat	INTEGER (UNLIMITED)	Command Telemetry Status (NOT_SET)	NOT_SET	Status of MCS board commandable telemetry.	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_PDUPMonCal1	INTEGER (UNLIMITED)	Primary Monitor Calibration (NOT_SET)	NOT_SET	Primary Monitor Calibration	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_PDUPMonCal2	INTEGER (UNLIMITED)	Primary Monitor Calibration (NOT_SET)	NOT_SET	Primary Monitor Calibration	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_PDUSMonCal1	INTEGER (UNLIMITED)	Secondary Monitor Calibration (NOT_SET)	NOT_SET	Secondary Monitor Calibration	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_PDUSMonCal2	INTEGER (UNLIMITED)	Secondary Monitor Calibration (NOT_SET)	NOT_SET	Secondary Monitor Calibration	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_ctrinfo	INTEGER (UNLIMITED)	Counter info (NOT_SET)	Counts	MCS MUX Counter (only uses 4 lower bits).	Rel 33 GLAS Binary Data	DS_UTCTime_4s

Group: Data_4s/APIID24

This group contains the 4 second APID24 parameters (Small Software #1 Telemetry).

Label	Datatype (Dimensions)	long_name (standard_name)	units	description	source	coordinates
i_phdr_24	INTEGER (UNLIMITED, 6)	Primary Header APID 24 (NOT_SET)	NOT_SET	Primary Header APID 24	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_shdr_24	INTEGER (UNLIMITED, 8)	Secondary Header APID 24 (time stamp) (NOT_SET)	NOT_SET	Secondary Header APID 24 (time stamp)	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_CmdProc	INTEGER (UNLIMITED)	HS Task Cmd Processed Counter (NOT_SET)	counts	HS Task Cmd Processed Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_CmdRej	INTEGER (UNLIMITED)	HS Task Cmd Rejected(or Error) Counter (NOT_SET)	counts	HS Task Cmd Rejected(or Error) Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCS_CmdProc	INTEGER (UNLIMITED)	CS Task Cmd Processed Counter (NOT_SET)	counts	CS Task Cmd Processed Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCS_CmdRej	INTEGER (UNLIMITED)	CS Task Cmd Rejected(or Error) Counter	counts	CS Task Cmd Rejected(or Error) Counter	Rel 33 GLAS	DS_UTCTime_4s

		Counter (NOT_SET)			Binary Data	
iTC_CmdProc	INTEGER (UNLIMITED)	TC Task Cmd Processed Counter (NOT_SET)	counts	TC Task Cmd Processed Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iTC_CmdRej	INTEGER (UNLIMITED)	TC Task Cmd Rejected(or Error) Counter (NOT_SET)	counts	TC Task Cmd Rejected(or Error) Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iSB_CmdProc	INTEGER (UNLIMITED)	SB Task Cmd Processed Counter (NOT_SET)	counts	SB Task Cmd Processed Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iSB_CmdRej	INTEGER (UNLIMITED)	SB Task Cmd Rejected(or Error) Counter (NOT_SET)	counts	SB Task Cmd Rejected(or Error) Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iSM_CmdProc	INTEGER (UNLIMITED)	SM Task Cmd Processed Counter (NOT_SET)	counts	SM Task Cmd Processed Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iSM_CmdRej	INTEGER (UNLIMITED)	SM Task Cmd Rejected(or Error) Counter (NOT_SET)	counts	SM Task Cmd Rejected(or Error) Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iRT_CmdProc	INTEGER (UNLIMITED)	RT Task Cmd Processed Counter (NOT_SET)	counts	RT Task Cmd Processed Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iRT_CmdRej	INTEGER (UNLIMITED)	RT Task Cmd Rejected(or Error) Counter (NOT_SET)	counts	RT Task Cmd Rejected(or Error) Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iRT_RCH3CmdRcv	INTEGER (UNLIMITED)	RT Task RCH3 Commands Received (NOT_SET)	counts	RT Task RCH3 (SA22-25, CSA 26) Commands Received. Does not count spacecraft position and command packet.	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iRT_RCH3CmdRej	INTEGER (UNLIMITED)	RT Task RCH3 Commands Rejected (NOT_SET)	counts	RT Task RCH3 (SA22-25, CSA 26) Commands Rejected. Commands are rejected for checksum problems.	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iMD_CmdProc	INTEGER (UNLIMITED)	MD Task Cmd Processed Counter (NOT_SET)	counts	MD Task Cmd Processed Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iMD_CmdRej	INTEGER (UNLIMITED)	MD Task Cmd Rejected(or Error) Counter (NOT_SET)	counts	MD Task Cmd Rejected(or Error) Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iAD_CmdProc	INTEGER (UNLIMITED)	AD Task Cmd Processed	counts	AD Task Cmd Processed Counter	Rel 33 GLAS	DS_UTCTime_4s

		Counter (NOT_SET)			Binary Data					
iAD_CmdRej	INTEGER (UNLIMITED)	AD Task Cmd Rejected(or Error) Counter (NOT_SET)	counts	AD Task Cmd Rejected(or Error) Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iAD_StatFlag	INTEGER_1 (UNLIMITED)	AD Target Status and Mode Flags (NOT_SET)	NOT_SET	AD Target Status and Mode Flags. 0 = Not present; 1 = Present. <table border="1"> <thead> <tr> <th>flag values</th> <th>flag_meanings</th> </tr> </thead> <tbody> <tr> <td>0, 1</td> <td>not_present present</td> </tr> </tbody> </table>	flag values	flag_meanings	0, 1	not_present present	Rel 33 GLAS Binary Data	DS_UTCTime_4s
flag values	flag_meanings									
0, 1	not_present present									
iCD_CCDProc	INTEGER (UNLIMITED)	CD Task CCD Processed Counter (NOT_SET)	counts	CD Task CCD Processed Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iCD_CCDRej	INTEGER (UNLIMITED)	CD Task CCD Rejected(or Error) Counter (NOT_SET)	counts	CD Task CCD Rejected(or Error) Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iCD_mode	INTEGER_1 (UNLIMITED)	CD Mode Flag (NOT_SET)	NOT_SET	CD Mode; 1 = Idle, 2=Engineering, 4=Science, Other values invalid <table border="1"> <thead> <tr> <th>flag values</th> <th>flag_meanings</th> </tr> </thead> <tbody> <tr> <td>0, 1, 2, 4</td> <td>invalid idle engineering science</td> </tr> </tbody> </table>	flag values	flag_meanings	0, 1, 2, 4	invalid idle engineering science	Rel 33 GLAS Binary Data	DS_UTCTime_4s
flag values	flag_meanings									
0, 1, 2, 4	invalid idle engineering science									
iCD_dataReadyInterrupt	INTEGER_1 (UNLIMITED)	CD Data Ready Interrupt Flag (NOT_SET)	NOT_SET	CD Data Ready Interrupt; 0=Enabled, 1=Disabled <table border="1"> <thead> <tr> <th>flag values</th> <th>flag_meanings</th> </tr> </thead> <tbody> <tr> <td>0, 1</td> <td>enabled disabled</td> </tr> </tbody> </table>	flag values	flag_meanings	0, 1	enabled disabled	Rel 33 GLAS Binary Data	DS_UTCTime_4s
flag values	flag_meanings									
0, 1	enabled disabled									
iCD_StatusFlag_IdleMode	INTEGER_1 (UNLIMITED)	CD Idle Mode Interrupt Flag (NOT_SET)	NOT_SET	CD Idle Mode Interrupt Source; 0=Clear Mem, 1=Fire Cmd, 2=Fire Ack, Other values invalid. <table border="1"> <thead> <tr> <th>flag values</th> <th>flag_meanings</th> </tr> </thead> <tbody> <tr> <td>0, 1, 2, 3</td> <td>clear_mem fire_cmd fire_ack invalid</td> </tr> </tbody> </table>	flag values	flag_meanings	0, 1, 2, 3	clear_mem fire_cmd fire_ack invalid	Rel 33 GLAS Binary Data	DS_UTCTime_4s
flag values	flag_meanings									
0, 1, 2, 3	clear_mem fire_cmd fire_ack invalid									
iCD_StatusFlag_RGOsrc	INTEGER_1 (UNLIMITED)	CD Range Gate Offset Source Flag (NOT_SET)	NOT_SET	CD Range Gate Offset Source; 0=Fire Ack, 1= Fire Cmd <table border="1"> <thead> <tr> <th>flag values</th> <th>flag_meanings</th> </tr> </thead> <tbody> <tr> <td>0, 1</td> <td>fire_ack fire_cmd</td> </tr> </tbody> </table>	flag values	flag_meanings	0, 1	fire_ack fire_cmd	Rel 33 GLAS Binary Data	DS_UTCTime_4s
flag values	flag_meanings									
0, 1	fire_ack fire_cmd									

iDC_CmdProc	INTEGER (UNLIMITED)	DC Task Cmd Processed Counter (NOT_SET)	counts	DC Task Cmd Processed Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iDC_CmdRej	INTEGER (UNLIMITED)	DC Task Cmd Rejected(or Error) Counter (NOT_SET)	counts	DC Task Cmd Rejected(or Error) Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iDC_StatFlag	INTEGER (UNLIMITED, 2)	DC Status Flags (NOT_SET)	NOT_SET	DC Status Flags	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iGP_CmdProc	INTEGER (UNLIMITED)	GP Task Cmd Processed Counter (NOT_SET)	counts	GP Task Cmd Processed Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iGP_CmdRej	INTEGER (UNLIMITED)	GP Task Cmd Rejected(or Error) Counter (NOT_SET)	counts	GP Task Cmd Rejected(or Error) Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iGP_StatFlag	INTEGER (UNLIMITED, 2)	GP Status Flags (NOT_SET)	NOT_SET	GP Status Flags	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iPC_CmdProc	INTEGER (UNLIMITED)	PC Task Cmd Processed Counter (NOT_SET)	counts	PC Task Cmd Processed Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iPC_CmdRej	INTEGER (UNLIMITED)	PC Task Cmd Rejected(or Error) Counter (NOT_SET)	counts	PC Task Cmd Rejected(or Error) Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iPC_TStatFlag	INTEGER_1 (UNLIMITED)	PC Timeout Status Flag (NOT_SET)	NOT_SET	PC Timeout Status Flag: 0=no_timeout, 1=timeout. <table border="1" data-bbox="857 1367 1198 1503"> <thead> <tr> <th>flag values</th> <th>flag_meanings</th> </tr> </thead> <tbody> <tr> <td>0, 1</td> <td>no_timeout timeout</td> </tr> </tbody> </table>	flag values	flag_meanings	0, 1	no_timeout timeout	Rel 33 GLAS Binary Data	DS_UTCTime_4s
flag values	flag_meanings									
0, 1	no_timeout timeout									
iPC_TP_Flag	INTEGER_1 (UNLIMITED)	PC Target Present Flag (NOT_SET)	NOT_SET	PC Target Present Flag: 0=not_configured, 1=configured. <table border="1" data-bbox="857 1623 1230 1814"> <thead> <tr> <th>flag values</th> <th>flag_meanings</th> </tr> </thead> <tbody> <tr> <td>0, 1</td> <td>not_configured configured</td> </tr> </tbody> </table>	flag values	flag_meanings	0, 1	not_configured configured	Rel 33 GLAS Binary Data	DS_UTCTime_4s
flag values	flag_meanings									
0, 1	not_configured configured									
iPC_CalT_Flag	INTEGER_1 (UNLIMITED)	PC Calibration Type Flag (NOT_SET)	NOT_SET	PC Calibration Type Flag: 0=course, 1=fine. <table border="1" data-bbox="857 1938 1159 2022"> <thead> <tr> <th>flag values</th> <th>flag_meanings</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table>	flag values	flag_meanings			Rel 33 GLAS Binary Data	DS_UTCTime_4s
flag values	flag_meanings									

				0, 1	course fine		
iPC_EMD_Flag	INTEGER_1 (UNLIMITED)	PC Event Messages Disable Flag (NOT_SET)	NOT_SET	PC Event Messages Disable Flag: 0=enabled, 1=disabled.		Rel 33 GLAS Binary Data	DS_UTCTime_4s
				flag values	flag_meanings		
				0, 1	enabled disabled		
iPC_RGD_Flag	INTEGER_1 (UNLIMITED)	PC Range Gate Dither Flag (NOT_SET)	NOT_SET	PC Range Gate Dither Flag: 0=disabled, 1=enabled.		Rel 33 GLAS Binary Data	DS_UTCTime_4s
				flag values	flag_meanings		
				0, 1	disabled enabled		
iPC_MRS_Flag	INTEGER_1 (UNLIMITED)	PC Measurement Reference Source (NOT_SET)	NOT_SET	PC Measurement Reference Source: 0=fire_acknowledge, 1=fire_command.		Rel 33 GLAS Binary Data	DS_UTCTime_4s
				flag values	flag_meanings		
				0, 1	fire_acknowledge fire_command		
iCT_CmdProc	INTEGER (UNLIMITED)	CT Task Cmd Processed Counter (NOT_SET)	counts	CT Task Cmd Processed Counter		Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCT_CmdRej	INTEGER (UNLIMITED)	CT Task Cmd Rejected(or Error) Counter (NOT_SET)	counts	CT Task Cmd Rejected(or Error) Counter		Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCT_Mode	INTEGER (UNLIMITED)	CT Task Mode (NOT_SET)	NOT_SET	CT Task mode. Bit 0 indicates CT Task Software Mode; 0=Manual, 1=Auto. Bit 1 indicates CT Task C&T Control Hardware Mode, Register bit; 0=Manual, 1=Auto. Bit 2 indicates CT Task Startup Mode, Discrete cmd; 0=Manual, 1=Auto Power Up Osc/AD. Bit 3 indicates CT Task Startup AD/OSC, Discrete cmd; 0=Primary, 1= Secondary. Bits 4 - 5 indicate CT Etalon Tracking Mode; 0=Off, 1=Acquire, 2=Tracking, 3=Invalid. Bits 6 - 7 are spares.		Rel 33 GLAS Binary Data	DS_UTCTime_4s

Group: Data_4s/APIID55

This group contains the 4 second APID55 parameters (Large Software Telemetry #2).

Label	Datatype (Dimensions)	long_name (standard_name)	units	description	source	coordinates
i_phdr_55	INTEGER (UNLIMITED, 6)	Primary Header APIID 55 (NOT_SET)	NOT_SET	Primary Header APIID 55	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_shdr_55	INTEGER	Secondary	NOT_SET	Secondary Header for APIID 55 (time stamp)	Rel 33	DS_UTCTime_4s

	(UNLIMITED, 8)	Header 55 (time stamp) (NOT_SET)			GLAS Binary Data					
iAD_SWErr_ct	INTEGER (UNLIMITED)	AD Software Error Count (NOT_SET)	counts	AD Software Error Count. Number of software errors detected.	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iAD_HWErr_ct	INTEGER (UNLIMITED)	AD Hardware Error Count (NOT_SET)	counts	AD Hardware Error Count. Number of hardware errors detected.	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iAD_Shot_ct	INTEGER (UNLIMITED)	AD Shot Count Value (NOT_SET)	counts	AD Shot Count Value	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iAD_ShotCtSkip	INTEGER (UNLIMITED)	AD Shot Count Skip Detected (NOT_SET)	NOT_SET	AD Shot Count Skip Detected flag; 0 = no skip, 1 = skip.	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iAD_Sync_flag	INTEGER_1 (UNLIMITED)	AD Synchronized Flag (NOT_SET)	NOT_SET	AD Synchronized Flag; 0 = not in sync, 1 = in sync. <table border="1" data-bbox="841 877 1192 1012"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1</td> <td>not_in_sync in_sync</td> </tr> </table>	flag values	flag_meanings	0, 1	not_in_sync in_sync	Rel 33 GLAS Binary Data	DS_UTCTime_4s
flag values	flag_meanings									
0, 1	not_in_sync in_sync									
iAD_DSPfire_ct	INTEGER (UNLIMITED)	AD DSP Laser Fire Count (NOT_SET)	counts	AD DSP Laser Fire Count. Indicates the number of laser fire commands detected.	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iADDSPalive_ct	INTEGER (UNLIMITED)	AD DSP Alive Count (NOT_SET)	counts	AD DSP Alive Count. Increments once every 75ms when laser fire command fails.	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iAD_AncPkt_ct	INTEGER (UNLIMITED)	AD Ancillary Packets Sent (NOT_SET)	counts	AD Ancillary Packets Sent	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iAD_EngPkt_ct	INTEGER (UNLIMITED)	AD Engineering Packets Sent (NOT_SET)	counts	AD Engineering Packets Sent	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iAD_SmSci_ct	INTEGER (UNLIMITED)	AD Science Small Packets Sent (NOT_SET)	counts	AD Science Small Packets Sent	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iAD_LgSci_ct	INTEGER (UNLIMITED)	AD Science Large Packets Sent (NOT_SET)	counts	AD Science Large Packets Sent	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iDSPLoadProcCt	INTEGER (UNLIMITED)	AD DSP Load Packets	counts	AD DSP Load Packets Processed Count	Rel 33 GLAS	DS_UTCTime_4s				

		Processed Count (NOT_SET)			Binary Data	
iDSPMDump_ct	INTEGER (UNLIMITED)	AD DSP Memory Dump Packets Sent (NOT_SET)	counts	AD DSP Memory Dump Packets Sent	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iADMLoadCmdErr	INTEGER (UNLIMITED)	AD Memory Load Command Errors (NOT_SET)	counts	AD Memory Load Command Errors	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iADMDumpCmdErr	INTEGER (UNLIMITED)	AD Memory Dump Command Errors (NOT_SET)	counts	AD Memory Dump Command Errors	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iDSPcksumRate	INTEGER (UNLIMITED)	AD DSP Checksum Rate (NOT_SET)	NOT_SET	AD DSP Checksum Rate. Number of 48-bit words checked in each of 3 memory types of DSP memory each shot (40 Hz).	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iDSPcksumSW_st	INTEGER (UNLIMITED)	AD DSP Checksum S/W Enable Status (NOT_SET)	NOT_SET	AD DSP Checksum S/W Enable Status; 0 = Disable, 1 = Enable.	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iDSP_cksum_ct	INTEGER (UNLIMITED)	AD DSP # of times all of memory has been checksummed (NOT_SET)	counts	AD DSP # of times all of memory has been checksummed	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iDSP_BScksum_l	INTEGER (UNLIMITED)	AD DSP Bootstrap Checksum Lower 16 bits (NOT_SET)	NOT_SET	AD DSP Bootstrap Checksum Lower 16 bits	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iDSPEPROMcs_l	INTEGER (UNLIMITED)	AD DSP EPROM Checksum Lower 16 bits (NOT_SET)	NOT_SET	AD DSP EPROM Checksum Lower 16 bits	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iDSPRAMcksum_l	INTEGER (UNLIMITED)	AD DSP RAM Checksum Lower 16 bits (NOT_SET)	NOT_SET	AD DSP RAM Checksum Lower 16 bits	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iDSP_BScksum_u	INTEGER (UNLIMITED)	AD DSP Bootstrap Checksum Upper 32 bits (NOT_SET)	NOT_SET	AD DSP Bootstrap Checksum Upper 32 bits	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iDSPEPROMcs_u	INTEGER (UNLIMITED)	AD DSP EPROM Checksum Upper 32 bits (NOT_SET)	NOT_SET	AD DSP EPROM Checksum Upper 32 bits	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iDSPRAMcksum_u	INTEGER (UNLIMITED)	AD DSP RAM Checksum Upper 32 bits (NOT_SET)	NOT_SET	AD DSP RAM Checksum Upper 32 bits	Rel 33 GLAS Binary Data	DS_UTCTime_4s

iAD_DSPsw_bnum	INTEGER (UNLIMITED)	AD DSP S/W Build Number (NOT_SET)	NOT_SET	AD DSP S/W Build Number	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iAD_DSPsw_vnum	INTEGER (UNLIMITED)	AD DSP S/W Version Number (NOT_SET)	NOT_SET	AD DSP S/W Version Number	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iAD_GPSrwin_ct	INTEGER (UNLIMITED)	AD GPS Range Window Packets received (NOT_SET)	counts	AD GPS Range Window Packets received	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iDSP_Pcksuml	INTEGER (UNLIMITED)	AS DSP Patch Checksum Bits 15..0 (NOT_SET)	NOT_SET	AS DSP Patch Checksum Bits 15..0	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iDSP_Pcksumu	INTEGER (UNLIMITED)	AS DSP Patch Checksum bits 47..16 (NOT_SET)	NOT_SET	AS DSP Patch Checksum bits 47..16	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iDSP_autoreset	INTEGER (UNLIMITED)	AD Auto Reset DSP Flag (NOT_SET)	NOT_SET	AD Auto Reset DSP Flag	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iAD_SWenable	INTEGER (UNLIMITED)	AD Software Enable Flags (NOT_SET)	NOT_SET	AD Software Enable Flags	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iAD_DSPtroub	INTEGER (UNLIMITED, 2)	AD DSP Trouble Indicator Status Word (NOT_SET)	NOT_SET	AD DSP Trouble Indicator Status Word	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iADmemTLoaderr	INTEGER (UNLIMITED)	AD DSP Memory Table Load Error Counter (NOT_SET)	NOT_SET	AD DSP Memory Table Load Error Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iAD_FixGain	INTEGER (UNLIMITED)	AD Fixed Return Gain Setting (NOT_SET)	NOT_SET	AD Fixed Return Gain Setting	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCD_Swerr_ct	INTEGER (UNLIMITED)	CD Software Error Count (NOT_SET)	counts	CD Software Error Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCD_shot_ct	INTEGER (UNLIMITED)	CD Shot Count (NOT_SET)	counts	CD Shot Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCD_SciPkt_ct	INTEGER (UNLIMITED)	CD Science Mode Packets Sent (NOT_SET)	counts	CD Science Mode Packets Sent	Rel 33 GLAS Binary Data	DS_UTCTime_4s

iCD_EngPkt_ct	INTEGER (UNLIMITED)	CD Engineering Mode Packets Sent (NOT_SET)	counts	CD Engineering Mode Packets Sent	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCD_AncPkt_ct	INTEGER (UNLIMITED)	CD Ancillary Packet Sent (NOT_SET)	counts	CD Ancillary Packet Sent	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCDRGateRcv_ct	INTEGER (UNLIMITED)	CD Range Gate Pkts Received (NOT_SET)	counts	CD Range Gate Pkts Received	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCD40ctrPkt_ct	INTEGER (UNLIMITED)	CD 40-bit Counter Packets Sent (NOT_SET)	counts	CD 40-bit Counter Packets Sent	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCD_BG1delay	INTEGER (UNLIMITED)	CD Background #1 Delay (NOT_SET)	NOT_SET	CD Background #1 Delay	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCD_BG2delay	INTEGER (UNLIMITED)	CD Background #2 Delay (NOT_SET)	NOT_SET	CD Background #2 Delay	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCD_Rgatedelay	INTEGER (UNLIMITED)	CD Range Gate Delay (NOT_SET)	NOT_SET	CD Range Gate Delay	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCD_rawADout	INTEGER (UNLIMITED)	CD Raw A/D Output Data Structure (NOT_SET)	NOT_SET	CD Raw A/D Output Data Structure. Bits 0 - 7 are the raw Cloud digitizer A/D output data. Bit 8 is the CD Raw A/D Overflow Flag. Bits 9 - 13 indicate the CD Attenuation Setting; value of 1=1/1, 2=1/1.77, 4=1/3.16, 8=1/5.6, 16=1/10. All other bits are unused.	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCD_GPSLch_32l	INTEGER (UNLIMITED)	CD GPS 40 bit Latch Value 32 lsb (NOT_SET)	NOT_SET	CD GPS 40 bit Latch Value 32 lsb	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCDfackLch_32l	INTEGER (UNLIMITED)	CD Fire Acknowledge 40 bit Latch Value 32 lsb (NOT_SET)	NOT_SET	CD Fire Acknowledge 40 bit Latch Value 32 lsb	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCDfcmdLch_32l	INTEGER (UNLIMITED)	CD Fire Cmd 40 bit Latch Value 32 lsb (NOT_SET)	NOT_SET	CD Fire Cmd 40 bit Latch Value 32 lsb	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCDfcmdLch_8m	INTEGER (UNLIMITED)	CD Fire Cmd 40 bit Latch Value 8 msb (NOT_SET)	NOT_SET	CD Fire Cmd 40 bit Latch Value 8 msb	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCDfackLch_8m	INTEGER	CD Fire	NOT_SET	CD Fire Acknowledge 40 bit Latch Value 8	Rel 33	DS_UTCTime_4s

	(UNLIMITED)	Acknowledge 40 bit Latch Value 8 msb (NOT_SET)		msb	GLAS Binary Data	
iCD_GPSLch_8m	INTEGER (UNLIMITED)	CD GPS 40 bit Latch Value 8 msb (NOT_SET)	NOT_SET	CD GPS 40 bit Latch Value 8 msb	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCD_dataRdyCtr	INTEGER (UNLIMITED)	CD Data Ready Counter (NOT_SET)	NOT_SET	CD Data Ready Counter. Bits 8 - 15 are the CD FIRE ACKNOWLEDGE COUNTER.	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCD_intsrc	INTEGER (UNLIMITED)	CD Software Mode Flag (NOT_SET)	NOT_SET	CD Software Mode Flag	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCD_PWaccum	INTEGER (UNLIMITED)	CD PW Limit Violation Counter (NOT_SET)	counts	CD PW Limit Violation Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCD_PWLong	INTEGER (UNLIMITED)	CD Long PW Violation Counter (NOT_SET)	counts	CD Long PW Violation Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCD_PWshort	INTEGER (UNLIMITED)	CD Short PW Violation Counter (NOT_SET)	counts	CD Short PW Violation Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCD_PWmsb	INTEGER (UNLIMITED)	CD Short PW MSB (NOT_SET)	counts	CD Short PW MSB	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iDC_swFailct	INTEGER (UNLIMITED)	DC Software Fail Count (NOT_SET)	Counts	DC Software Fail Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iDC_shot_ct	INTEGER (UNLIMITED)	DC Shot Count (NOT_SET)	counts	DC Shot Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iDC_Xpos	INTEGER (UNLIMITED)	DC X Position (NOT_SET)	NOT_SET	DC X Position	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iDC_Ypos	INTEGER (UNLIMITED)	DC Y Position (NOT_SET)	NOT_SET	DC Y Position	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iDC_LPApkt_ct	INTEGER (UNLIMITED)	DC LPA Packets Sent (NOT_SET)	counts	DC LPA Packets Sent	Rel 33 GLAS Binary Data	DS_UTCTime_4s

iDC_tmode_rate	INTEGER (UNLIMITED)	DC Test Mode Rate (NOT_SET)	NOT_SET	DC Test Mode Rate	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iDC_pkt_ct	INTEGER (UNLIMITED)	DC Packets Sent (NOT_SET)	counts	DC Packets Sent	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iDC_byte_ct	INTEGER (UNLIMITED)	DC Bytes Sent (NOT_SET)	counts	DC Bytes Sent	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iDC_outbitrate	INTEGER (UNLIMITED)	DC Output bit rate in BPS (NOT_SET)	NOT_SET	DC Output bit rate in BPS	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iDC_IntReg	INTEGER (UNLIMITED)	DC Interrupt register (NOT_SET)	NOT_SET	DC Interrupt register	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iDC_CtlLchReg	INTEGER (UNLIMITED)	DC Control latch register (NOT_SET)	NOT_SET	DC Control latch register	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iDC_intMaskReg	INTEGER (UNLIMITED)	DC Interrupt Mask Register (NOT_SET)	NOT_SET	DC Interrupt Mask Register; indicates which interrupts are enabled/disabled. Bit 0 is the DC Interrupt 1; value of 0 = Disabled, 1 = Enabled. Bit 1 is the DC LPA Interrupt; value of 0 = Disabled, 1 = Enabled. Bit 2 is the DC Output FIFO Empty Interrupt; value of 0 = Disabled, 1 = Enabled. Bit 3 is the DC Output FIFO Full Interrupt; value of 0 = Disabled, 1 = Enabled. Bit 4 is the DC RAM Busy Interrupt; ; value of 0 = Disabled, 1 = Enabled. Bit 5 is the DC Interrupt 6; value of 0 = Disabled, 1 = Enabled. All other bits are unused.	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iDC_FIFO_fill	INTEGER_1 (UNLIMITED)	DC fifo flags register (NOT_SET)	NOT_SET	DC FIFO Fill flag; value of 0 = True, 1 = false. <table border="1" data-bbox="841 1402 1143 1535"> <thead> <tr> <th>flag values</th> <th>flag_meanings</th> </tr> </thead> <tbody> <tr> <td>0, 1</td> <td>true false</td> </tr> </tbody> </table>	flag values	flag_meanings	0, 1	true false	Rel 33 GLAS Binary Data	DS_UTCTime_4s
flag values	flag_meanings									
0, 1	true false									
iDC_FIFO_almostEmpty	INTEGER_1 (UNLIMITED)	DC fifo flags register (NOT_SET)	NOT_SET	DC FIFO almost empty flag; value of 0 = True, 1 = false. <table border="1" data-bbox="841 1661 1143 1793"> <thead> <tr> <th>flag values</th> <th>flag_meanings</th> </tr> </thead> <tbody> <tr> <td>0, 1</td> <td>true false</td> </tr> </tbody> </table>	flag values	flag_meanings	0, 1	true false	Rel 33 GLAS Binary Data	DS_UTCTime_4s
flag values	flag_meanings									
0, 1	true false									
iDC_FIFO_almostFull	INTEGER_1 (UNLIMITED)	DC fifo flags register (NOT_SET)	NOT_SET	DC FIFO almost full flag; value of 0 = True, 1 = false. <table border="1" data-bbox="841 1919 1143 2022"> <thead> <tr> <th>flag values</th> <th>flag_meanings</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table>	flag values	flag_meanings			Rel 33 GLAS Binary Data	DS_UTCTime_4s
flag values	flag_meanings									

				0, 1	true false		
iDC_FIFO_empty	INTEGER_1 (UNLIMITED)	DC fifo flags register (NOT_SET)	NOT_SET	DC FIFO empty flag; value 0f 0 = True, 1 = false.		Rel 33 GLAS Binary Data	DS_UTCTime_4s
				flag values	flag_meanings		
				0, 1	true false		
IDC_LPA_gain	INTEGER (UNLIMITED)	DC LPA gain register (NOT_SET)	NOT_SET	DC LPA gain register. Bits 0-2 are the LPA gain. Bit 3 is the LPA reset flag; value of 0 = In reset, 1 = not in reset.		Rel 33 GLAS Binary Data	DS_UTCTime_4s
IDC_LPA_resetFlag	INTEGER_1 (UNLIMITED)	DC LPA gain register (NOT_SET)	NOT_SET	DC LPA gain register. Bits 0-2 are the LPA gain. Bit 3 is the LPA reset flag; value of 0 = In reset, 1 = not in reset.		Rel 33 GLAS Binary Data	DS_UTCTime_4s
				flag values	flag_meanings		
				0, 1	in_reset not_in_reset		
iDC_LPAct_reg	INTEGER (UNLIMITED)	DC LPA packet count register (NOT_SET)	NOT_SET	DC LPA packet count register. Bits 0 - 13 are the LPA frame byte count. Bits 16 - 23 are the LPA packet (frame) count.		Rel 33 GLAS Binary Data	DS_UTCTime_4s
iGPS10secIntCt	INTEGER (UNLIMITED)	GP GPS 10 second Interrupt Count (NOT_SET)	counts	GP GPS 10 second Interrupt Count		Rel 33 GLAS Binary Data	DS_UTCTime_4s
iGPPosPktRcvCt	INTEGER (UNLIMITED)	GP Number of Position Packets received (NOT_SET)	counts	GP Number of Position Packets received		Rel 33 GLAS Binary Data	DS_UTCTime_4s
iGP_HskPkt_ct	INTEGER (UNLIMITED)	GP Number of Housekeeping packets sent (NOT_SET)	counts	GP Number of Housekeeping packets sent		Rel 33 GLAS Binary Data	DS_UTCTime_4s
iGP_AncPkt_ct	INTEGER (UNLIMITED)	GP Number of Ancillary Packets sent (NOT_SET)	counts	GP Number of Ancillary Packets sent		Rel 33 GLAS Binary Data	DS_UTCTime_4s
iGPS40bitReqCt	INTEGER (UNLIMITED)	GP GPS 10 sec Pulse 40-Bit Counter Requests sent (NOT_SET)	counts	GP GPS 10 sec Pulse 40-Bit Counter Requests sent		Rel 33 GLAS Binary Data	DS_UTCTime_4s
iGPS40bitRcvCt	INTEGER (UNLIMITED)	GP GPS 10 sec Pulse 40-Bit Counter Packets Received (NOT_SET)	counts	GP GPS 10 sec Pulse 40-Bit Counter Packets Received		Rel 33 GLAS Binary Data	DS_UTCTime_4s
iGP_BadXYZ_cnt	INTEGER (UNLIMITED)	GP Packets with bad X,Y,Z	NOT_SET	GP Packets with bad X,Y,Z Position Data		Rel 33 GLAS	DS_UTCTime_4s

		Position Data (NOT_SET)			Binary Data	
iGP_ToXYZ_cnt	INTEGER (UNLIMITED)	GP Packets with X,Y,Z data below Tolerance (NOT_SET)	NOT_SET	GP Packets with X,Y,Z Position Data Below Tolerance	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iGP_PktsSent	INTEGER (UNLIMITED)	GP Number of Range Packets Sent (NOT_SET)	NOT_SET	GP Number of Range Packets Sent	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iPC_swerrct	INTEGER (UNLIMITED)	PC Software Error Count (NOT_SET)	NOT_SET	PC Software Error Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iPC_shot_ct	INTEGER (UNLIMITED)	PC Shot Counter (NOT_SET)	counts	Photon counter (PC) Shot Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iPC_SciPkt_ct	INTEGER (UNLIMITED)	PC SCIENCE MODE PACKETS SENT (NOT_SET)	counts	PC SCIENCE MODE PACKETS SENT	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iPC_EngPkt_ct	INTEGER (UNLIMITED)	PC ENGINEERING MODE PACKETS SENT (NOT_SET)	counts	PC ENGINEERING MODE PACKETS SENT	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iPC_AncPkt_ct	INTEGER (UNLIMITED)	PC ANCILLARY MODE PACKETS SENT (NOT_SET)	counts	PC ANCILLARY MODE PACKETS SENT	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iPC_RDlyRcv_ct	INTEGER (UNLIMITED)	PC RANGE GATE DELAY PACKETS RECEIVED (NOT_SET)	counts	PC RANGE GATE DELAY PACKETS RECEIVED	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iPC_SPCMDly	INTEGER (UNLIMITED)	PC SPCM Gate Delay (NOT_SET)	NOT_SET	PC SPCM Gate Delay	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iPC_BG1Dly	INTEGER (UNLIMITED)	PC Background 1 Delay (NOT_SET)	NOT_SET	PC Background 1 Delay	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iPC_BG2Dly	INTEGER (UNLIMITED)	PC Background 2 Delay (NOT_SET)	NOT_SET	PC Background 2 Delay	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iPC_RGateDly	INTEGER (UNLIMITED)	PC Range Gate Delay (NOT_SET)	NOT_SET	PC Range Gate Delay	Rel 33 GLAS Binary Data	DS_UTCTime_4s

iPC_HW_stat	INTEGER (UNLIMITED)	PC Hardware Mode Status Word (NOT_SET)	NOT_SET	PC Hardware Mode Status Word. Bits 0 -2 indicate the PC board hardware mode; a value of 1=Idle, 2=Engineering, 4=Science. Bits 12 - 13 indicate the PC interrupt source; a value of 1=Fire Command, 2=Fire Acknowledge. Bit 14 is the PC measurement source; a value of 0=Fire Command, 1=Fire Acknowledge. All other bits are unused.	Rel 33 GLAS Binary Data	DS_UTCTime_4s
IPC_SPCM_st	INTEGER (UNLIMITED)	PC SPCM STATUS (NOT_SET)	NOT_SET	PC SPCM (Single photon counting module) Status. Indicates which of the eight SPCMs are enable/disable. A value of 0 = enabled, 1 = disabled. Bit 8 corresponds to SPCM 1. Bit 9 corresponds to SPCM 2. Bit 10 corresponds to SPCM 3. Bit 11 corresponds to SPCM 4. Bit 12 corresponds to SPCM 5. Bit 13 corresponds to SPCM 6. Bit 14 corresponds to SPCM 7. Bit 15 corresponds to SPCM 8. All other bits are unused.	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iPC_DatRdyCtr	INTEGER (UNLIMITED)	PC Data Ready Counter (NOT_SET)	NOT_SET	PC Data Ready Counter. Bits 8 - 15 are the PC FIRE ACKNOWLEDGE COUNTER.	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iPCSPCmraw_1_4	INTEGER (UNLIMITED)	PC SPCM 1 THROUGH 4 RAW COUNTS (NOT_SET)	counts	The raw counts for SPCM 1, 2, 3, 4. Bits 0-7 correspond to SPCM 1; bits 8 - 15 correspond to SPCM 2; bits 16 - 23 correspond to SPCM 3; bits 24 - 31 correspond to SPCM 4.	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iPCSPCmraw_5_8	INTEGER (UNLIMITED)	PC SPCM 5 THROUGH 8 RAW COUNTS (NOT_SET)	counts	The raw counts for SPCM 5, 6, 7, 8. Bits 0-7 correspond to SPCM 5; bits 8 - 15 correspond to SPCM 6; bits 16 - 23 correspond to SPCM 7; bits 24 - 31 correspond to SPCM 8.	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iPCSPCm_DCycle	INTEGER (UNLIMITED)	PC SPCM Duty Cycle (NOT_SET)	NOT_SET	PC SPCM Duty Cycle	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iC_BSCalXstart	INTEGER (UNLIMITED)	PC Coarse Boresite Calibration X Start Pos (NOT_SET)	NOT_SET	PC Coarse Boresite Calibration X Start Pos	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iC_BSCalYstart	INTEGER (UNLIMITED)	PC Coarse Boresite Calibration Y Start Pos (NOT_SET)	NOT_SET	PC Coarse Boresite Calibration Y Start Pos	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iF_BSCalXstart	INTEGER (UNLIMITED)	PC Fine Boresite Calibration X Start Pos (NOT_SET)	NOT_SET	PC Fine Boresite Calibration X Start Pos	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iF_BSCalYstart	INTEGER (UNLIMITED)	PC Fine Boresite Calibration Y Start Pos (NOT_SET)	NOT_SET	PC Fine Boresite Calibration Y Start Pos	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iC_BSCalXinc	INTEGER (UNLIMITED)	PC Coarse Boresite	NOT_SET	PC Coarse Boresite Calibration X Increment	Rel 33 GLAS	DS_UTCTime_4s

		Calibration X Increment (NOT_SET)			Binary Data	
iC_BSCalYinc	INTEGER (UNLIMITED)	PC Coarse Boresite Calibration Y Increment (NOT_SET)	NOT_SET	PC Coarse Boresite Calibration Y Increment	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iF_BSCalXinc	INTEGER (UNLIMITED)	PC Fine Boresite Calibration X Increment (NOT_SET)	NOT_SET	PC Fine Boresite Calibration X Increment	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iF_BSCalYinc	INTEGER (UNLIMITED)	PC Fine Boresite Calibration Y Increment (NOT_SET)	NOT_SET	PC Fine Boresite Calibration Y Increment	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iC_BSCalIntSec	INTEGER (UNLIMITED)	PC Coarse Boresite Cal Integration Seconds (NOT_SET)	seconds	PC Coarse Boresite Cal Integration Seconds	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iF_BSCalIntSec	INTEGER (UNLIMITED)	PC Fine Boresite Cal Integration Seconds (NOT_SET)	seconds	PC Fine Boresite Cal Integration Seconds	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_BSCalXbest	INTEGER (UNLIMITED)	PC Boresite Calibration Best X Position (NOT_SET)	NOT_SET	PC Boresite Calibration Best X Position	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_BSCalYbest	INTEGER (UNLIMITED)	PC Boresite Calibration Best Y Position (NOT_SET)	NOT_SET	PC Boresite Calibration Best Y Position	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_BSCal_remSec	INTEGER (UNLIMITED)	PC Boresite Cal Seconds Remaining (NOT_SET)	seconds	PC Boresite Cal Seconds Remaining	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCT_state	INTEGER (UNLIMITED)	CT State Machine Current State (NOT_SET)	NOT_SET	CT State Machine Current State	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCTCmdEchoErrCt	INTEGER (UNLIMITED)	CT COMMAND ECHO ERRORS (NOT_SET)	counts	CT COMMAND ECHO ERRORS	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_LMBCmdRcvCt	INTEGER (UNLIMITED)	CT LM BOARD CMDS RECEIVED (NOT_SET)	counts	CT LM BOARD CMDS RECEIVED	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_TMBCmdRcvCt	INTEGER (UNLIMITED)	CT TM BOARD CMDS RECEIVED (NOT_SET)	counts	CT TM BOARD CMDS RECEIVED	Rel 33 GLAS Binary Data	DS_UTCTime_4s

i_MCBCmdRcvCt	INTEGER (UNLIMITED)	CT MC BOARD CMDS RECEIVED (NOT_SET)	counts	CT MC BOARD CMDS RECEIVED	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_HKBCmdRcvCt	INTEGER (UNLIMITED)	CT HK BOARD CMDS RECEIVED (NOT_SET)	counts	CT HK BOARD CMDS RECEIVED	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_HVPSCmdRcvCt	INTEGER (UNLIMITED)	CT HVPS Cmds Received (NOT_SET)	counts	CT HVPS Cmds Received	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_PDUCmdRcvCt	INTEGER (UNLIMITED)	CT PDU Cmds Received (NOT_SET)	counts	CT PDU Cmds Received	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_HWtlm1Pkt_ct	INTEGER (UNLIMITED)	CT HW TLM 1 PACKETS SENT (NOT_SET)	counts	CT HW TLM 1 PACKETS SENT	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_HWtlm2Pkt_ct	INTEGER (UNLIMITED)	CT HW TLM 2 PACKETS SENT (NOT_SET)	counts	CT HW TLM 2 PACKETS SENT	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_HWtlm3Pkt_ct	INTEGER (UNLIMITED)	CT HW TLM 3 PACKETS SENT (NOT_SET)	counts	CT HW TLM 3 PACKETS SENT	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_HWtlm4Pkt_ct	INTEGER (UNLIMITED)	CT HW TLM 4 PACKETS SENT (NOT_SET)	counts	CT HW TLM 4 PACKETS SENT	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_HWtlm5Pkt_ct	INTEGER (UNLIMITED)	CT HW TLM 5 PACKETS SENT (NOT_SET)	counts	CT HW TLM 5 PACKETS SENT	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCtdwellPkt_ct	INTEGER (UNLIMITED)	CT DWELL PACKETS SENT (NOT_SET)	counts	CT DWELL PACKETS SENT	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCT_AncPkt_ct	INTEGER (UNLIMITED)	CT ANCILLARY PACKETS SENT (NOT_SET)	counts	CT ANCILLARY PACKETS SENT	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCT_timeout_ct	INTEGER (UNLIMITED)	CT TIMEOUT COUNT (NOT_SET)	counts	CT TIMEOUT COUNT	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCT_int_ct	INTEGER (UNLIMITED)	CT INTERRUPT COUNT (NOT_SET)	counts	CT INTERRUPT COUNT	Rel 33 GLAS Binary Data	DS_UTCTime_4s

iCT_ShotCtErr	INTEGER (UNLIMITED)	CT Shot Counter Errors (NOT_SET)	counts	CT Shot Counter Errors	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCT_dwell_mode	INTEGER (UNLIMITED)	CT Dwell Mode (NOT_SET)	NOT_SET	CT Dwell Mode	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCT_dwell_chnl	INTEGER (UNLIMITED)	CT Dwell Channel (NOT_SET)	NOT_SET	CT Dwell Channel	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCTLMBmuxErrCt	INTEGER (UNLIMITED)	CT Laser Monitor Board Mux Error Counter (NOT_SET)	counts	CT Laser Monitor Board Mux Error Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCTHKBmuxErrCt	INTEGER (UNLIMITED)	CT Housekeeping Board Mux Error Counter (NOT_SET)	counts	CT Housekeeping Board Mux Error Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCTHKBsmxErrCt	INTEGER (UNLIMITED)	CT Housekeeping Board Submux Error Counter (NOT_SET)	counts	CT Housekeeping Board Submux Error Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCTTCBmuxErrCt	INTEGER (UNLIMITED)	CT Temperature Controller Board Mux Error Counter (NOT_SET)	counts	CT Temperature Controller Board Mux Error Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCTMCBmuxErrCt	INTEGER (UNLIMITED)	CT Mechanism Controller Board Mux Error Counter (NOT_SET)	counts	CT Mechanism Controller Board Mux Error Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCTHVPSmuxErrCt	INTEGER (UNLIMITED)	CT High Voltage Power Supply Mux Error Counter (NOT_SET)	counts	CT High Voltage Power Supply Mux Error Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCTPDMuxErrCt	INTEGER (UNLIMITED)	CT Power Distribution Unit Mux Error Counter (NOT_SET)	counts	CT Power Distribution Unit Mux Error Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCT_CEchoSucCt	INTEGER (UNLIMITED)	CT Command Echo Success Count (NOT_SET)	counts	CT Command Echo Success Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCT_SupErrflag	INTEGER (UNLIMITED)	CT Suppressed Event Message Error Flags (NOT_SET)	NOT_SET	CT Suppressed Event Message Error Flags	Rel 33 GLAS Binary Data	DS_UTCTime_4s

iCT_LHP1tcstat	INTEGER (UNLIMITED)	CT LHP1 Temperature Control State (NOT_SET)	NOT_SET	CT LHP1 Temperature Control State	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCT_LHP2tcstat	INTEGER (UNLIMITED)	CT LHP2 Temperature Control State (NOT_SET)	NOT_SET	CT LHP2 Temperature Control State	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCT_LHP1tsp	INTEGER (UNLIMITED)	CT LHP1 Temperature Setpoint (NOT_SET)	NOT_SET	CT LHP1 Temperature Setpoint	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCT_LHP2tsp	INTEGER (UNLIMITED)	CT LHP2 Temperature Setpoint (NOT_SET)	NOT_SET	CT LHP2 Temperature Setpoint	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCT_LHP1tctr	INTEGER (UNLIMITED)	CT LHP1 Temperature Control Counter (NOT_SET)	NOT_SET	CT LHP1 Temperature Control Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCT_LHP2tctr	INTEGER (UNLIMITED)	CT LHP2 Temperature Control Counter (NOT_SET)	NOT_SET	CT LHP2 Temperature Control Counter	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCT_LHP1_Tmin	INTEGER (UNLIMITED)	CT LHP1 Minimum Temperature (NOT_SET)	NOT_SET	CT LHP1 Minimum Temperature	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCT_LHP2_Tmin	INTEGER (UNLIMITED)	CT LHP2 Minimum Temperature (NOT_SET)	NOT_SET	CT LHP2 Minimum Temperature	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCT_LHP1_Tdelta	INTEGER (UNLIMITED)	CT LHP1 Temperature Change (NOT_SET)	NOT_SET	CT LHP1 Temperature Change	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCT_LHP2_Tdelta	INTEGER (UNLIMITED)	CT LHP2 Temperature Change (NOT_SET)	NOT_SET	CT LHP2 Temperature Change	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCT_LHP1_Tcyct	INTEGER (UNLIMITED)	CT LHP1 Temperature Control Cycle Time (NOT_SET)	NOT_SET	CT LHP1 Temperature Control Cycle Time	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCT_LHP2_Tcyct	INTEGER (UNLIMITED)	CT LHP2 Temperature Control Cycle Time (NOT_SET)	NOT_SET	CT LHP2 Temperature Control Cycle Time	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iCT_miscFlag	INTEGER (UNLIMITED)	CT Misc Status Flags (NOT_SET)	NOT_SET	CT Misc Status Flags	Rel 33 GLAS	DS_UTCTime_4s

					Binary Data	
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Group: Data_4s/API25

This group contains the 4 second APID25 parameters (Large Software Telemetry #1).

Label	Datatype (Dimensions)	long_name (standard_name)	units	description	source	coordinates
i_phdr_25	INTEGER (UNLIMITED, 6)	Primary Header APID 25 (NOT_SET)	NOT_SET	Primary Header APID 25	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_shdr_25	INTEGER (UNLIMITED, 8)	Secondary Header APID 25 (time stamp) (NOT_SET)	NOT_SET	Secondary Header APID 25 (time stamp)	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_HS_PrevMode	INTEGER (UNLIMITED)	HS Processor Previous Mode (NOT_SET)	NOT_SET	HS Processor Previous Mode; 0=Unknown, 2=PROM, 3=EEPROM	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_HS_CurMode	INTEGER (UNLIMITED)	HS Processor Current Mode (NOT_SET)	NOT_SET	HS Processor Current Mode; 0=Unknown, 2=PROM, 3=EEPROM	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_SubSysPres	INTEGER (UNLIMITED)	Subsystem Present Flags (NOT_SET)	NOT_SET	Subsystem Present Bit Flags. Value of 0 = subsystem not present; value of 1 = subsystem present in small and large telemetry packets. Bit 0 = HS; Bit 1 = CS; Bit 2 = TC; Bit 3 = SB; Bit 4 = SM; Bit 5 = RT; Bit 6 = AD; Bit 7 = MD; Bit 8 = CD; Bit 9 = DC; Bit 10 = GP; Bit 11 = PC; Bit 12 = CT. Bits 13-15 are spares.	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_WarmRCt	INTEGER (UNLIMITED)	HS Warm Restart Count (NOT_SET)	counts	HS Warm Restart Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_ColdRCt	INTEGER (UNLIMITED)	HS Cold Restart Count (NOT_SET)	counts	HS Cold Restart Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_MxWarmRCt	INTEGER (UNLIMITED)	HS Max Warm Restart Count (NOT_SET)	counts	HS Max Warm Restart Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_ColdWarmF	INTEGER (UNLIMITED)	HS Cold-Warm Flag (NOT_SET)	NOT_SET	HS Cold-Warm Flag	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_OSResetF	INTEGER (UNLIMITED)	HS OS Caused Reset Flag (NOT_SET)	NOT_SET	HS OS Caused Reset Flag	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_OSTickCt	INTEGER	HS OS Tick	counts	HS OS Tick Count	Rel 33	DS_UTCTime_4s

	(UNLIMITED)	Count (NOT_SET)			GLAS Binary Data	
iHS_HSExecCt	INTEGER (UNLIMITED)	HS HS Exec Count (NOT_SET)	counts	HS HS Exec Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_CSExecCt	INTEGER (UNLIMITED)	HS CS Exec Count (NOT_SET)	counts	HS CS Exec Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_TCExecCt	INTEGER (UNLIMITED)	HS TC Exec Count (NOT_SET)	counts	HS TC Exec Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_SBExecCt	INTEGER (UNLIMITED)	HS SB Exec Count (NOT_SET)	counts	HS SB Exec Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_SMExecCt	INTEGER (UNLIMITED)	HS SM Exec Count (NOT_SET)	counts	HS SM Exec Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_RTExecCt	INTEGER (UNLIMITED)	HS RT Exec Count (NOT_SET)	counts	HS RT Exec Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_MDExecCt	INTEGER (UNLIMITED)	HS MD Exec Count (NOT_SET)	counts	HS MD Exec Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_ADExecCt	INTEGER (UNLIMITED)	HS AD Exec Count (NOT_SET)	counts	HS AD Exec Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_CDExecCt	INTEGER (UNLIMITED)	HS CD Exec Count (NOT_SET)	counts	HS CD Exec Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_DCExecCt	INTEGER (UNLIMITED)	HS DC Exec Count (NOT_SET)	counts	HS DC Exec Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_GPExecCt	INTEGER (UNLIMITED)	HS GP Exec Count (NOT_SET)	counts	HS GP Exec Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_PCExecCt	INTEGER (UNLIMITED)	HS PC Exec Count (NOT_SET)	counts	HS PC Exec Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_CTExecCt	INTEGER	HS CT Exec	counts	HS CT Exec Count	Rel 33	DS_UTCTime_4s

	(UNLIMITED)	Count (NOT_SET)			GLAS Binary Data	
iHSFPU_Uflw_Ct	INTEGER (UNLIMITED)	HS FPU Underflow Count (NOT_SET)	counts	HS FPU Underflow Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHSTCfireISRct	INTEGER (UNLIMITED)	HS TC Fire Cmd ISR Count (NOT_SET)	counts	HS TC Fire Cmd ISR Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_RTISRctLo	INTEGER (UNLIMITED)	HS RT ISR Count - Low Priority (NOT_SET)	counts	HS RT ISR Count - Low Priority	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_CTISRct	INTEGER (UNLIMITED)	HS CT ISR Count (NOT_SET)	counts	HS CT ISR Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_ppsISRct	INTEGER (UNLIMITED)	HS GPS 10 Sec ISR Count (NOT_SET)	counts	HS GPS 10 Sec ISR Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_DC_ISRct	INTEGER (UNLIMITED)	HS DC ISR Count (NOT_SET)	counts	HS DC ISR Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_PC_ISRct	INTEGER (UNLIMITED)	HS PC ISR Count (NOT_SET)	counts	HS PC ISR Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_CD_ISRct	INTEGER (UNLIMITED)	HS CD ISR Count (NOT_SET)	counts	HS CD ISR Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_AD_ISRct	INTEGER (UNLIMITED)	HS AD ISR Count (NOT_SET)	counts	HS AD ISR Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_OSEventSeq	INTEGER (UNLIMITED)	HS OS Event Seq Number (NOT_SET)	NOT_SET	HS OS Event Seq Number	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_PeakCPU	INTEGER (UNLIMITED)	HS Peak CPU Utilization (NOT_SET)	NOT_SET	HS Peak CPU Utilization	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHS_LastCPU	INTEGER (UNLIMITED)	HS Last CPU Utilization (NOT_SET)	NOT_SET	HS Last CPU Utilization	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iHSPCI_Bus_st	INTEGER	HS OS PCI Bus	NOT_SET	HS OS PCI Bus Target Enable and	Rel 33	DS_UTCTime_4s

	(UNLIMITED)	Target Enable and Interrupt status (NOT_SET)		Interrupt status	GLAS Binary Data					
iHSOS_Plog_st	INTEGER (UNLIMITED)	HS OS Performance Log Enable Flag (NOT_SET)	NOT_SET	HS OS Performance Log Enable Flag	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iHSOS_Plog_ct	INTEGER (UNLIMITED)	HS OS Performance Log Item Count (NOT_SET)	counts	HS OS Performance Log Item Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iHS_Plog_stAdd	INTEGER (UNLIMITED)	HS OS Performance Log Filter Start Address (NOT_SET)	NOT_SET	HS OS Performance Log Filter Start Address	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iHS_Plog_mask	INTEGER (UNLIMITED)	HS OS Performance Log Filter Mask (NOT_SET)	NOT_SET	HS OS Performance Log Filter Mask	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iCS_StatEnabledFlag	INTEGER_1 (UNLIMITED)	CS Enabled/Disabled Status Flag (NOT_SET)	NOT_SET	CS Enable/Disabled Status; value of 0=Disabled, 1=Enabled. <table border="1" data-bbox="857 934 1182 1066"> <thead> <tr> <th>flag values</th> <th>flag_meanings</th> </tr> </thead> <tbody> <tr> <td>0, 1</td> <td>disabled enabled</td> </tr> </tbody> </table>	flag values	flag_meanings	0, 1	disabled enabled	Rel 33 GLAS Binary Data	DS_UTCTime_4s
flag values	flag_meanings									
0, 1	disabled enabled									
iCS_StatCMCFlag	INTEGER_1 (UNLIMITED)	CS Code Memory Checksum Status Flag (NOT_SET)	NOT_SET	CS Code Memory Checksum Status; value of 0=Disabled, 1=Enabled, 2=Disabled and Recomputing, 3=Enabled and Recomputing. <table border="1" data-bbox="857 1249 1230 1465"> <thead> <tr> <th>flag values</th> <th>flag_meanings</th> </tr> </thead> <tbody> <tr> <td>0, 1, 2, 3</td> <td>disabled enabled disabled_and_recomputing enabled_and_recomputing</td> </tr> </tbody> </table>	flag values	flag_meanings	0, 1, 2, 3	disabled enabled disabled_and_recomputing enabled_and_recomputing	Rel 33 GLAS Binary Data	DS_UTCTime_4s
flag values	flag_meanings									
0, 1, 2, 3	disabled enabled disabled_and_recomputing enabled_and_recomputing									
iCS_StatTMCFlag	INTEGER_1 (UNLIMITED)	CS Table Memory Checksum Status Flag (NOT_SET)	NOT_SET	CS Table Memory Checksum Status; value of 0=Disabled, 1=Enabled, 2=Disabled and Recomputing, 3=Enabled and Recomputing. <table border="1" data-bbox="857 1648 1230 1864"> <thead> <tr> <th>flag values</th> <th>flag_meanings</th> </tr> </thead> <tbody> <tr> <td>0, 1, 2, 3</td> <td>disabled enabled disabled_and_recomputing enabled_and_recomputing</td> </tr> </tbody> </table>	flag values	flag_meanings	0, 1, 2, 3	disabled enabled disabled_and_recomputing enabled_and_recomputing	Rel 33 GLAS Binary Data	DS_UTCTime_4s
flag values	flag_meanings									
0, 1, 2, 3	disabled enabled disabled_and_recomputing enabled_and_recomputing									
iCS_StatEEPROMFlag	INTEGER_1 (UNLIMITED)	CS EEPROM Checksum Status Flag (NOT_SET)	NOT_SET	CS EEPROM Checksum status; value of 0=Disabled, 1=Enabled, 2=Disabled and Recomputing, 3=Enabled and	Rel 33 GLAS Binary Data	DS_UTCTime_4s				

				Recomputing.							
				<table border="1"> <thead> <tr> <th>flag values</th> <th>flag_meanings</th> </tr> </thead> <tbody> <tr> <td>0, 1, 2, 3</td> <td>disabled enabled disabled_and_recomputing enabled_and_recomputing</td> </tr> </tbody> </table>		flag values	flag_meanings	0, 1, 2, 3	disabled enabled disabled_and_recomputing enabled_and_recomputing		
flag values	flag_meanings										
0, 1, 2, 3	disabled enabled disabled_and_recomputing enabled_and_recomputing										
iCS_codeErr_ct	INTEGER (UNLIMITED)	CS Code Segment Error Count (NOT_SET)	counts	CS Code Segment Error Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s					
iCSEPROMerr_ct	INTEGER (UNLIMITED)	CS EEPROM Segment Error Count (NOT_SET)	counts	CS EEPROM Segment Error Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s					
iCSTblRamerr_ct	INTEGER (UNLIMITED)	CS Table Ram Segment Error Count (NOT_SET)	counts	CS Table Ram Segment Error Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s					
iCS_codeErr_ID	INTEGER (UNLIMITED)	CS Table ID of last Code Error (NOT_SET)	NOT_SET	CS Table ID of last Code Error	Rel 33 GLAS Binary Data	DS_UTCTime_4s					
iCSEPROMerr_ID	INTEGER (UNLIMITED)	CS Table ID of last EEPROM Error (NOT_SET)	NOT_SET	CS Table ID of last EEPROM Error	Rel 33 GLAS Binary Data	DS_UTCTime_4s					
iCSTblRamErrID	INTEGER (UNLIMITED)	CS Table ID of last Table RAM Error (NOT_SET)	NOT_SET	CS Table ID of last Table RAM Error	Rel 33 GLAS Binary Data	DS_UTCTime_4s					
iCS_code_mstrcs	INTEGER (UNLIMITED)	CS Code Segment Master Checksum (NOT_SET)	NOT_SET	CS Code Segment Master Checksum	Rel 33 GLAS Binary Data	DS_UTCTime_4s					
iCSRam_mstrcs	INTEGER (UNLIMITED)	CS Table RAM Master Checksum (NOT_SET)	NOT_SET	CS Table RAM Master Checksum	Rel 33 GLAS Binary Data	DS_UTCTime_4s					
iCSEPROMmstrcs	INTEGER (UNLIMITED)	CS EEPROM Master Checksum (NOT_SET)	NOT_SET	CS EEPROM Master Checksum	Rel 33 GLAS Binary Data	DS_UTCTime_4s					
iEPROM_bmem_cs	INTEGER (UNLIMITED)	CS Checksum of EEPROM Boot Memory (NOT_SET)	NOT_SET	CS Checksum of EEPROM Boot Memory	Rel 33 GLAS Binary Data	DS_UTCTime_4s					
iEPROM_mem_cs	INTEGER (UNLIMITED)	CS Checksum of EEPROM Memory (NOT_SET)	NOT_SET	CS Checksum of EEPROM Memory	Rel 33 GLAS Binary Data	DS_UTCTime_4s					

iPROM_mem_cs	INTEGER (UNLIMITED)	CS Checksum of PROM Memory (NOT_SET)	NOT_SET	CS Checksum of PROM Memory	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iTC_MET_u2	INTEGER (UNLIMITED, 2)	TC GLAS MET Upper 2 bytes (NOT_SET)	NOT_SET	TC GLAS MET Upper 2 bytes	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iTC_MET_l4	INTEGER (UNLIMITED, 4)	TC GLAS MET Lower 4 bytes (NOT_SET)	NOT_SET	TC GLAS MET Lower 4 bytes	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iTC_FcmdInc_u2	INTEGER (UNLIMITED)	TC Fire Command Time Increment Upper 2 bytes (NOT_SET)	NOT_SET	TC Fire Command Time Increment Upper 2 bytes	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iTC_FcmdInc_l4	INTEGER (UNLIMITED)	TC Fire Command Time Increment Lower 4 bytes (NOT_SET)	NOT_SET	TC Fire Command Time Increment Lower 4 bytes	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iTCworkMET_sec	INTEGER (UNLIMITED)	TC GLAS MET Working Time seconds (NOT_SET)	seconds	TC GLAS MET Working Time seconds	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iTCworkMET_us	INTEGER (UNLIMITED)	TC GLAS MET Working Time microseconds (NOT_SET)	microseconds	TC GLAS MET Working Time micro-seconds	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_SB_SndErrCnt	INTEGER (UNLIMITED)	SB Send Error Count (NOT_SET)	counts	SB Send Error Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_SB_RcvErrCnt	INTEGER (UNLIMITED)	SB Receive Error Count (NOT_SET)	counts	SB Receive Error Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_SB_OSErrCnt	INTEGER (UNLIMITED)	SB OS Error Count (NOT_SET)	counts	SB OS Error Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iSB_QFullErrCt	INTEGER (UNLIMITED)	SB Queue Full Error Count (NOT_SET)	counts	SB Queue Full Error Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iSB_BOverErrCt	INTEGER (UNLIMITED)	SB Buffer overrun Error Count (NOT_SET)	counts	SB Buffer overrun Error Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
i_SB_LBO_Strm	INTEGER (UNLIMITED)	SB last buffer overrun - Stream	NOT_SET	SB last buffer overrun - Stream Id	Rel 33 GLAS	DS_UTCTime_4s

		Id (NOT_SET)			Binary Data					
i_SB_LBO_Pipe	INTEGER (UNLIMITED)	SB last buffer overrun - Pipeline Id (NOT_SET)	NOT_SET	SB last buffer overrun - Pipeline Id	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
i_SB_LBO_Task	INTEGER (UNLIMITED)	SB last buffer overrun - Sender Task ID (NOT_SET)	NOT_SET	SB last buffer overrun - Sender Task ID	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
i_SB_LQF_Strm	INTEGER (UNLIMITED)	SB last queue full - Stream Id (NOT_SET)	NOT_SET	SB last queue full - Stream Id	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
i_SB_LQF_Pipe	INTEGER (UNLIMITED)	SB last queue full - Pipeline Id (NOT_SET)	NOT_SET	SB last queue full - Pipeline Id	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
i_SB_LQF_Task	INTEGER (UNLIMITED)	SB last queue full - Sender Task ID (NOT_SET)	NOT_SET	SB last queue full - Sender Task ID	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iSMRemDumpCopy	INTEGER (UNLIMITED)	SM num of remaining copies to be dumped (NOT_SET)	counts	SM num of remaining copies to be dumped	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iSM_Dump_flag	INTEGER_1 (UNLIMITED)	SM dump in progress flag (NOT_SET)	NOT_SET	SM tbl/mem dump in progress flag. Value of 0 = false, 1 = true. <table border="1" data-bbox="857 1150 1161 1285"> <tr> <th>flag values</th> <th>flag_meanings</th> </tr> <tr> <td>0, 1</td> <td>false true</td> </tr> </table>	flag values	flag_meanings	0, 1	false true	Rel 33 GLAS Binary Data	DS_UTCTime_4s
flag values	flag_meanings									
0, 1	false true									
iSM_TblOpsType_fg	INTEGER_1 (UNLIMITED)	SM table operations flag (NOT_SET)	NOT_SET	SM Table Session Type; value of 0=None, 5=DUMP_ONLY, 6=REP_EEPROM, 7=REP_RAM, 8=APPD_ACTV. <table border="1" data-bbox="857 1438 1232 1654"> <tr> <th>flag values</th> <th>flag_meanings</th> </tr> <tr> <td>0, 5, 6, 7, 8</td> <td>none DUMP_ONLY REP_EEPROM REP_RAM APPD_ACTV</td> </tr> </table>	flag values	flag_meanings	0, 5, 6, 7, 8	none DUMP_ONLY REP_EEPROM REP_RAM APPD_ACTV	Rel 33 GLAS Binary Data	DS_UTCTime_4s
flag values	flag_meanings									
0, 5, 6, 7, 8	none DUMP_ONLY REP_EEPROM REP_RAM APPD_ACTV									
iSM_TblOps_fg	INTEGER_1 (UNLIMITED)	SM table operations flag (NOT_SET)	NOT_SET	SM Table operations; value of 0 = Inactive, 1 = Active. <table border="1" data-bbox="857 1774 1161 1908"> <tr> <th>flag values</th> <th>flag_meanings</th> </tr> <tr> <td>0, 1</td> <td>inactive active</td> </tr> </table>	flag values	flag_meanings	0, 1	inactive active	Rel 33 GLAS Binary Data	DS_UTCTime_4s
flag values	flag_meanings									
0, 1	inactive active									
iSM_TOp_ImgTyp	INTEGER (UNLIMITED)	SM table operations from	NOT_SET	SM table operations from image type. Value of 0=None, 1=EEPROM, 2=RAM,	Rel 33 GLAS	DS_UTCTime_4s				

		image type (NOT_SET)		3=NULL.	Binary Data	
iSM_TblID_sel	INTEGER (UNLIMITED)	SM table id selected (NOT_SET)	NOT_SET	SM table id selected	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iSM_TblSize	INTEGER (UNLIMITED)	SM currently selected table size in words (NOT_SET)	NOT_SET	SM currently selected tbl size in words	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iSM_TblCksum	INTEGER (UNLIMITED)	SM currently selected table checksum (NOT_SET)	NOT_SET	SM currently selected table checksum	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iSM_success_ct	INTEGER (UNLIMITED)	SM table commit success count (NOT_SET)	counts	SM table commit success count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iSM_fail_ct	INTEGER (UNLIMITED)	SM table commit failure count (NOT_SET)	counts	SM table commit failure count	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iSM_TblWdLd_ct	INTEGER (UNLIMITED)	SM table num. of words loaded (NOT_SET)	counts	SM table num. of words loaded	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iSM_FSW_BldNum	INTEGER (UNLIMITED)	SM FSW build number (NOT_SET)	NOT_SET	SM FSW build number	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iSM_FSW_VerNum	INTEGER (UNLIMITED)	SM FSW version number (NOT_SET)	NOT_SET	SM FSW version number	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iBCRT_CntrlRWd	INTEGER (UNLIMITED)	BCRT CONTROL REGISTER WORD (NOT_SET)	NOT_SET	BCRT CONTROL REGISTER WORD. Bit 7 indicates RT Channel A Select; value of 0 = off, 1 = on. Bit 8 indicates RT Channel B Select; value of 0 = off, 1 = on. All other bits are unused.	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iBCRT_StatReg	INTEGER (UNLIMITED)	BCRT Status Register (NOT_SET)	NOT_SET	BCRT Status Register. Bit 0 indicates RT Status, RT Mode Enabled Flag; value of 0 = Disabled, 1 = Enabled. All other bits are unused.	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iBCRT_IntStReg	INTEGER (UNLIMITED)	BCRT INTERRUPT STATUS REGISTER (NOT_SET)	NOT_SET	BCRT INTERRUPT STATUS REGISTER	Rel 33 GLAS Binary Data	DS_UTCTime_4s
iRT_MsgErr	INTEGER (UNLIMITED)	RT 1553 MESSAGE ERRORS (NOT_SET)	counts	RT 1553 MESSAGE ERRORS	Rel 33 GLAS Binary Data	DS_UTCTime_4s

iRT_RtryCt	INTEGER (UNLIMITED)	RT 1553 RETRY COUNT (NOT_SET)	counts	RT 1553 RETRY COUNT	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iRT_InvCmd	INTEGER (UNLIMITED)	RT 1553 INVALID COMMANDS (NOT_SET)	counts	RT 1553 INVALID COMMANDS	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iRT_InvBCCmd	INTEGER (UNLIMITED)	RT 1553 INVALID BROADCAST CMDS (NOT_SET)	counts	RT 1553 INVALID BROADCAST CMDS	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iRT_ModeCodeCt	INTEGER (UNLIMITED)	RT MODE CODES RECEIVED (NOT_SET)	counts	RT MODE CODES RECEIVED	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iRT_RcvRCH1_ct	INTEGER (UNLIMITED)	RT PACKETS RECEIVED ON RCH1 (NOT_SET)	counts	RT PACKETS RECEIVED ON RCH1	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iRT_RejRCH1_ct	INTEGER (UNLIMITED)	RT PACKETS Rejected ON RCH1 (NOT_SET)	counts	RT PACKETS Rejected ON RCH1	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iRT_SentXCH1ct	INTEGER (UNLIMITED)	RT PACKETS SENT ON XCH1 (NOT_SET)	counts	RT PACKETS SENT ON XCH1; HK channel.	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iRT_SentXCH2ct	INTEGER (UNLIMITED)	RT PACKETS SENT ON XCH2 (NOT_SET)	counts	RT PACKETS SENT ON XCH2; Diagnostic channel.	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iRT_CmdHist_ct	INTEGER (UNLIMITED)	RT Number of Command History Packets Sent (NOT_SET)	counts	RT Number of Command History Packets Sent	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iRT_cksum_st	INTEGER (UNLIMITED)	RT Checksum Status (NOT_SET)	NOT_SET	RT Checksum Status. Value of 0 = CMD Checksum Disabled; 1 = CMD Checksum enabled.	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iMD_GTble_flg	INTEGER_1 (UNLIMITED)	MD Global Enable Flag (NOT_SET)	NOT_SET	MD Global Enable Flag: 0=disabled, 1=enabled. <table border="1" data-bbox="857 1654 1182 1789"> <thead> <tr> <th>flag values</th> <th>flag_meanings</th> </tr> </thead> <tbody> <tr> <td>0, 1</td> <td>disabled enabled</td> </tr> </tbody> </table>	flag values	flag_meanings	0, 1	disabled enabled	Rel 33 GLAS Binary Data	DS_UTCTime_4s
flag values	flag_meanings									
0, 1	disabled enabled									
iMD_Tble1_flg	INTEGER_1 (UNLIMITED)	MD Table 1 Enable Flag (NOT_SET)	NOT_SET	MD Table 1 Enable Flag: 0=disabled, 1=enabled. <table border="1" data-bbox="857 1911 1182 2026"> <thead> <tr> <th>flag values</th> <th>flag_meanings</th> </tr> </thead> <tbody> <tr> <td>0, 1</td> <td>disabled enabled</td> </tr> </tbody> </table>	flag values	flag_meanings	0, 1	disabled enabled	Rel 33 GLAS Binary Data	DS_UTCTime_4s
flag values	flag_meanings									
0, 1	disabled enabled									

iMD_Tble2_flg	INTEGER_1 (UNLIMITED)	MD Table 2 Enable Flag (NOT_SET)	NOT_SET	MD Table 2 Enable Flag: 0=disabled, 1=enabled. <table border="1" data-bbox="857 216 1182 348"> <tr> <td>flag values</td> <td>flag_meanings</td> </tr> <tr> <td>0, 1</td> <td>disabled enabled</td> </tr> </table>	flag values	flag_meanings	0, 1	disabled enabled	Rel 33 GLAS Binary Data	DS_UTCTime_4s
flag values	flag_meanings									
0, 1	disabled enabled									
iMD_T1addct	INTEGER (UNLIMITED)	MD Table #1 Address Count (NOT_SET)	Counts	MD Table #1 Address Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iMD_T2addct	INTEGER (UNLIMITED)	MD Table #2 Address Count (NOT_SET)	NOT_SET	MD Table #2 Address Count	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iMD_T1rate	INTEGER (UNLIMITED)	MD Table #1 Rate (NOT_SET)	Counts	MD Table #1 Rate	Rel 33 GLAS Binary Data	DS_UTCTime_4s				
iMD_T2rate	INTEGER (UNLIMITED)	MD Table #2 Rate (NOT_SET)	NOT_SET	MD Table #2 Rate	Rel 33 GLAS Binary Data	DS_UTCTime_4s				

Group: /Data_16s

This group contains the 16 second APIDs.

Dimension Scales

Label	Datatype (Dimensions)	long_name (standard_name)	units	description	source	coordinates
DS_UTCTime_16s	DOUBLE (UNLIMITED)	Transmit Time of First Shot in frame in J2000 (time)	seconds	The transmit time of the first shot in the 1 second frame measured as 'UTC seconds' elapsed since Jan 1 2000 12:00:00 UTC. This time has been derived from the GPS time accounting for leap seconds. The first item is the whole number of seconds; the second item is the fractional part in microseconds.	Rel 33 GLAS Binary Data	NOT_SET
DS_Hdr_Index_6	INTEGER (UNLIMITED)	Header Index size 6 (NOT_SET)	NOT_SET	This array is an index dimension for the primary headers.	NOT_SET	NOT_SET
DS_Hdr_Index_8	INTEGER (UNLIMITED)	Header Index size 6 (NOT_SET)	NOT_SET	This array is an index dimension for the primary headers.	NOT_SET	NOT_SET

Group: Data_16s/Time

This group contains the 16HZ index and time-related parameters.

Label	Datatype (Dimensions)	long_name (standard_name)	units	description	source	coordinates

i_rec_ndx	INTEGER (UNLIMITED)	GLAS Record Index (NOT_SET)	NOT_SET	Unique index that relates this record to the corresponding record(s) in each GLAS data product.	Rel 33 GLAS Binary Data	DS_UTCTime_16s
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Group: Data_16s/Geolocation

This group contains the 16HZ geolocation related parameters.

Label	Datatype (Dimensions)	long_name (standard_name)	units	description	source	coordinates
d16s_calcSClat	DOUBLE (UNLIMITED)	Latitude (latitude)	degrees_north	S/C latitude calculated from s/c position data in degrees.	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d16s_calcSClon	DOUBLE (UNLIMITED)	Longitude (longitude)	degrees_east	S/C longitude calculated from s/c position data in degrees.	Rel 33 GLAS Binary Data	DS_UTCTime_16s

Group: Data_16s/APID22

This group contains the 16 second APID22 parameters (Housekeeping Temperatures #1 Telemetry).

Label	Datatype (Dimensions)	long_name (standard_name)	units	description	source	coordinates
i_phdr_22	INTEGER (UNLIMITED, 6)	Primary Header APID 22 (NOT_SET)	NOT_SET	Primary Header APID 22	Rel 33 GLAS Binary Data	DS_UTCTime_16s
i_shdr_22	INTEGER (UNLIMITED, 8)	Secondary Header APID 22 (time stamp) (NOT_SET)	NOT_SET	Secondary Header APID 22 (time stamp)	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_HkBdC0_t	DOUBLE (UNLIMITED)	Housekeeping Board Temperature, Ch 0 (NOT_SET)	Celsius	Housekeeping Board Temperature, Ch 0	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_IPSBdC1_t	DOUBLE (UNLIMITED)	Instrument Processor System Board Temperature, Ch 1 (NOT_SET)	Celsius	Instrument Processor System Board Temperature, Ch 1	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_PCbdc2_t	DOUBLE (UNLIMITED)	Photon Counter Board Temperature, Ch 2 (NOT_SET)	Celsius	Photon Counter Board Temperature, Ch 2	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_CDFTBdC3_t	DOUBLE (UNLIMITED)	Cloud Digitizer/Frequency & Time Board Temperature, Ch 3 (NOT_SET)	Celsius	Cloud Digitizer/Frequency & Time Board Temperature, Ch 3	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_AD1DSPC4_t	DOUBLE (UNLIMITED)	Altimeter Digitizer 1 DSP Temperature, Ch 4 (NOT_SET)	Celsius	Altimeter Digitizer 1 Board Temperature, Ch 4	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_AD2DSPC5_t	DOUBLE (UNLIMITED)	Altimeter Digitizer 2 DSP Temperature, Ch 5 (NOT_SET)	Celsius	Altimeter Digitizer 2 Board Temperature, Ch 5	Rel 33 GLAS Binary Data	DS_UTCTime_16s

d_DCHBdC6_t	DOUBLE (UNLIMITED)	Data Collection & Handling Board Temperature, Ch6 (NOT_SET)	Celsius	Altimeter Digitizer 2 Board Temperature 1, Ch 6	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_LMBdC7_t	DOUBLE (UNLIMITED)	Laser Monitor Board Temperature, Ch 7 (NOT_SET)	Celsius	Altimeter Digitizer 2 Board Temperature 2, Ch 7	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_TCMBdC8_t	DOUBLE (UNLIMITED)	Temperature Controller Monitor Board Temperature, Ch 8 (NOT_SET)	Celsius	Data Collection & Handling Board Temperature, Ch 8	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_OXCO1BdC9_t	DOUBLE (UNLIMITED)	Oven-crystal-controlled Oscillator(OXCO) 1 Board Temperature, Ch 9 (NOT_SET)	Celsius	Laser Monitor Board Temperature, Ch 9	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_OXCO2BdC10_t	DOUBLE (UNLIMITED)	Oven-crystal-controlled Oscillator(OXCO) 2 Board Temperature, Ch 10 (NOT_SET)	Celsius	Temperature Controller Monitor Board Temperature, Ch 10	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_OscBdC11_t	DOUBLE (UNLIMITED)	Oscillator Board Temperature, Ch 11 (NOT_SET)	Celsius	Oven-crystal-controlled Oscillator(OXCO) 1 Board Temperature, Ch 11	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_OTSBdC12_t	DOUBLE (UNLIMITED)	Optical Test Source (OTS) Board Temperature, Ch 12 (NOT_SET)	Celsius	Oven-crystal-controlled Oscillator(OXCO) 2 Board Temperature, Ch 12	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_LPAC13_t1	DOUBLE (UNLIMITED)	Laser Profiler Array (LPA) Temperature 1, Ch 13 (NOT_SET)	Celsius	Oscillator Board Temperature, Ch 13	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_LPAC14_t2	DOUBLE (UNLIMITED)	Laser Profiler Array (LPA) Temperature 2, Ch 14 (NOT_SET)	Celsius	Optical Test Source (OTS) Board Temperature, Ch 14	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_AD1eclaC15_t	DOUBLE (UNLIMITED)	Altimeter Digitizer 1 ECLA Temperature, Ch 15 (NOT_SET)	Celsius	Laser Profiler Array (LPA) Temperature 1, Ch 15	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_AD2eclaC16_t	DOUBLE (UNLIMITED)	Altimeter Digitizer 2 ECLA Temperature, Ch 16 (NOT_SET)	Celsius	Laser Profiler Array (LPA) Temperature 2, Ch 16	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_AD1eclbC17_t	DOUBLE (UNLIMITED)	Altimeter Digitizer 1 ECLB Temperature, Ch 17 (NOT_SET)	Celsius	Altimeter Digitizer 1 Board Temperature 3, Ch 17	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_AD2eclbC18_t	DOUBLE (UNLIMITED)	Altimeter Digitizer 2 ECLB Temperature, Ch 18 (NOT_SET)	Celsius	Altimeter Digitizer 2 Board Temperature 3, Ch 18	Rel 33 GLAS Binary Data	DS_UTCTime_16s

d_AD1ADCC19_t	DOUBLE (UNLIMITED)	Altimeter Digitizer 1 ADC Temperature, Ch 19 (NOT_SET)	Celsius	Altimeter Digitizer 1 Board Temperature 4, Ch 19	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_AD2ADCC20_t	DOUBLE (UNLIMITED)	Altimeter Digitizer 2 ADC Temperature, Ch 20 (NOT_SET)	Celsius	Altimeter Digitizer 2 Board Temperature 4, Ch 20	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_lid_box_t	DOUBLE (UNLIMITED)	Lidar Box Temperature (NOT_SET)	Celsius	Lidar Box Temperature	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_PRTtelmtC22t	DOUBLE (UNLIMITED)	PRT, Telescope Mount Temperature, Ch 22 (NOT_SET)	Celsius	Altimeter Digitizer 2 Board Temperature 5, Ch 22	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_PRTtelbfC23t	DOUBLE (UNLIMITED)	PRT, Telescope Baffle Temperature, Ch 23 (NOT_SET)	Celsius	HK Tlm Channel 23- Spare	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_PRTad1C24_t	DOUBLE (UNLIMITED)	PRT, Altimeter Detector 1 Temperature, Ch 24 (NOT_SET)	Celsius	PRT, Gyro Temperature, Ch 24	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_PRTad2C25_t	DOUBLE (UNLIMITED)	PRT, Altimeter Detector 2 Temperature, Ch 25 (NOT_SET)	Celsius	PRT, Star Camera Temperature, Ch 25	Rel 33 GLAS Binary Data	DS_UTCTime_16s
dF1LTRSRSC26_t	DOUBLE (UNLIMITED)	PRT, Face 1 LTR to SRS Temperature, Ch26 (NOT_SET)	Celsius	PRT, Stellar Reference System (SRS) Temperature, Ch 26	Rel 33 GLAS Binary Data	DS_UTCTime_16s
dF2LTRSRSC27_t	DOUBLE (UNLIMITED)	PRT, Face 2 LTR to SRS Temperature, Ch27 (NOT_SET)	Celsius	PRT, Lidar Detector Pkg Temperature, Ch 27	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_srs_ff_optio_t	DOUBLE (UNLIMITED)	SRS First Fold Optics Temperature (NOT_SET)	Celsius	SRS First Fold Optics Temperature	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_PRTfboxC29_t	DOUBLE (UNLIMITED)	PRT, Fiber Box Temperature, Ch 29 (NOT_SET)	Celsius	PRT, Altimeter Detector 2 Temperature, Ch 29	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_F1fabC30_t	DOUBLE (UNLIMITED)	PRT, Face 1 Fold Around Bench Temperature, Ch 30 (NOT_SET)	Celsius	PRT, Spacecraft Interface Temperature, Ch 30	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_F2fabC31_t	DOUBLE (UNLIMITED)	PRT, Face 2 Fold Around Bench Temperature, Ch 31 (NOT_SET)	Celsius	PRT, Telescope Mount Temperature, Ch 31	Rel 33 GLAS Binary Data	DS_UTCTime_16s

dF1LTRCRSC32_t	DOUBLE (UNLIMITED)	PRT, Face 1 LTR CRS Temperature, Ch 32 (NOT_SET)	Celsius	PRT, Telescope Baffle Temperature, Ch 32	Rel 33 GLAS Binary Data	DS_UTCTime_16s
dF2LTRCRSC33_t	DOUBLE (UNLIMITED)	PRT, Face 2 LTR CRS Temperature, Ch 33 (NOT_SET)	Celsius	PRT Temperature Region 10, Ch 33, Spare	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_SRSparC34_t	DOUBLE (UNLIMITED)	PRT, Stellar Reference System (SRS) Parabola Temperature, Ch 34 (NOT_SET)	Celsius	PRT Temperature Region 11, Ch 34, Spare	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_PRTCaLC35_t	DOUBLE (UNLIMITED)	PRT Cal Low Temperature, Ch 35 (NOT_SET)	Celsius	PRT Cal Low Temperature, Ch 35	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_PRTCaLHC36_t	DOUBLE (UNLIMITED)	PRT Cal High Temperature, Ch 36 (NOT_SET)	Celsius	PRT Cal High Temperature, Ch 36	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_PDBiasC38_v	DOUBLE (UNLIMITED)	Pin Diode Bias Voltage, Ch 38 (NOT_SET)	Volts	Pin Diode Bias Voltage, Ch 38	Rel 33 GLAS Binary Data	DS_UTCTime_16s
dAD1HSRamC39_t	DOUBLE (UNLIMITED)	AD1 High Speed Ram Temperature, Ch 39 (NOT_SET)	Celsius	AD1 High Speed Ram Temperature, Ch 39	Rel 33 GLAS Binary Data	DS_UTCTime_16s

Group: Data_16s/APIID23

This group contains the 16 second APID23 parameters (Housekeeping Temperatures #2 Telemetry).

Label	Datatype (Dimensions)	long_name (standard_name)	units	description	source	coordinates
i_phdr_23	INTEGER (UNLIMITED, 6)	Primary Header APID 23 (NOT_SET)	NOT_SET	Primary Header APID 23	Rel 33 GLAS Binary Data	DS_UTCTime_16s
i_shdr_23	INTEGER (UNLIMITED, 8)	Secondary Header APID 23 (time stamp) (NOT_SET)	NOT_SET	Secondary Header APID 23 (time stamp)	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_lsm1_t	DOUBLE (UNLIMITED)	Laser Select Mechanism #1 Temperature (NOT_SET)	Celsius	Laser Select Mechanism #1 Temperature	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_lsm2_t	DOUBLE (UNLIMITED)	Laser Select Mechanism #2 Temperature (NOT_SET)	Celsius	Laser Select Mechanism #2 Temperature	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_adsm_t	DOUBLE (UNLIMITED)	Altimeter Detector Select Mechanism Temperature (NOT_SET)	Celsius	Altimeter Detector Select Mechanism Temperature	Rel 33 GLAS	DS_UTCTime_16s

					Binary Data	
d_lbsme_t	DOUBLE (UNLIMITED)	Laser Beam Select Mech Electronics Temperature (NOT_SET)	Celsius	Laser Beam Select Mech Electronics Temperature	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_lbsmm_t	DOUBLE (UNLIMITED)	Laser Beam Select Mechanism Mirror Temperature (NOT_SET)	Celsius	Laser Beam Select Mechanism Mirror Temperature	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_HOP1ActH1_c	DOUBLE (UNLIMITED)	HOP 1 Actuator Current - Heater 1 (NOT_SET)	Amps	HOP 1 Actuator Current - Heater 1	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_HOP1ActH2_c	DOUBLE (UNLIMITED)	HOP 1 Actuator Current - Heater 2 (NOT_SET)	Amps	HOP 1 Actuator Current - Heater 2	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_HOP2ActH1_c	DOUBLE (UNLIMITED)	HOP 2 Actuator Current - Heater 1 (NOT_SET)	Amps	HOP 2 Actuator Current - Heater 1	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_HOP2ActH2_c	DOUBLE (UNLIMITED)	HOP 2 Actuator Current - Heater 2 (NOT_SET)	Amps	HOP 2 Actuator Current - Heater 2	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_HOP3ActH1_c	DOUBLE (UNLIMITED)	HOP 3 Actuator Current - Heater 1 (NOT_SET)	Amps	HOP 3 Actuator Current - Heater 1	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_HOP3ActH2_c	DOUBLE (UNLIMITED)	HOP 3 Actuator Current - Heater 2 (NOT_SET)	Amps	HOP 3 Actuator Current - Heater 2	Rel 33 GLAS Binary Data	DS_UTCTime_16s
dTsPMirHtrStPt	DOUBLE (UNLIMITED)	Telescope Primary Mirror Heater Temperature Setpoint (NOT_SET)	Celsius	Telescope Primary Mirror Heater Temp Setpoint Readback	Rel 33 GLAS Binary Data	DS_UTCTime_16s
dTsTwrHtrStPt	DOUBLE (UNLIMITED)	Telescope Tower Heater Temperature Setpoint (NOT_SET)	Celsius	Telescope Tower Heater Temperature Setpoint Readback	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_EtHtr_StPt	DOUBLE (UNLIMITED)	Etalon Heater Temperature Setpoint (NOT_SET)	Celsius	Etalon Heater Temperature Setpoint Readback	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_LHP1_StPt	DOUBLE (UNLIMITED)	Loop Heat Pipe 1 Temperature Setpoint (NOT_SET)	Celsius	Loop Heat Pipe 1 Temperature Setpoint Readback	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_LHP2_StPt	DOUBLE (UNLIMITED)	Loop Heat Pipe 2 Temperature Setpoint	Celsius	Loop Heat Pipe 2 Temperature Setpoint Readback	Rel 33 GLAS	DS_UTCTime_16s

		(NOT_SET)			Binary Data	
i_TsPMirHtr_St	INTEGER (UNLIMITED)	Telescope Primary Mirror Heater Status (NOT_SET)	NOT_SET	Telescope Primary Mirror Heater Enable Readback. 0 = Disabled; 0xFF = Enabled.	Rel 33 GLAS Binary Data	DS_UTCTime_16s
i_TsTwrHtr_St	INTEGER (UNLIMITED)	Telescope Tower Heater Status (NOT_SET)	NOT_SET	Telescope Tower Heater Enable Readback. 0 = Disabled; 0xFF = Enabled.	Rel 33 GLAS Binary Data	DS_UTCTime_16s
i_EtHtr_St	INTEGER (UNLIMITED)	Etalon Heater Status (NOT_SET)	NOT_SET	Etalon Heater Enable Readback. 0 = Disabled; 0xFF = Enabled.	Rel 33 GLAS Binary Data	DS_UTCTime_16s
i_LHP1_St	INTEGER (UNLIMITED)	Loop Heat Pipe 1 Status (NOT_SET)	NOT_SET	Loop Heat Pipe 1 Enable Readback. 0 = Disabled; 0xFF = Enabled.	Rel 33 GLAS Binary Data	DS_UTCTime_16s
i_LHP2_St	INTEGER (UNLIMITED)	Loop Heat Pipe 2 Status (NOT_SET)	NOT_SET	Loop Heat Pipe 2 Enable Readback. 0 = Disabled; 0xFF = Enabled.	Rel 33 GLAS Binary Data	DS_UTCTime_16s
i_TsPMir_sTh	INTEGER (UNLIMITED)	Telescope Primary Mirror Selected Thermister (NOT_SET)	NOT_SET	Thermister Select - Telescope Primary Mirror - Status Readback. 0 = Thermistor 1; 0xFF = Thermistor 2.	Rel 33 GLAS Binary Data	DS_UTCTime_16s
i_TsSecSS_sTh	INTEGER (UNLIMITED)	Telescope Secondary Support Structure Selected Thermister (NOT_SET)	NOT_SET	Thermister Select Telescope Secondary Support Structure Status Readback. 0 = Thermistor 1; 0xFF = Thermistor 2.	Rel 33 GLAS Binary Data	DS_UTCTime_16s
i_TsSMir_sTh	INTEGER (UNLIMITED)	Telescope Secondary Mirror Selected Thermister (NOT_SET)	NOT_SET	Thermister Select - Telescope Secondary Mirror - Status Readback. 0 = Thermistor 1; 0xFF = Thermistor 2.	Rel 33 GLAS Binary Data	DS_UTCTime_16s
i_LHP1_sTh	INTEGER (UNLIMITED)	LHP1 Selected Thermister (NOT_SET)	NOT_SET	Thermister Select LHP1 (lasers) Status Readback. 0 = Thermistor 1; 0xFF = Thermistor 2.	Rel 33 GLAS Binary Data	DS_UTCTime_16s
i_LHP2_sTh	INTEGER (UNLIMITED)	LHP2 Selected Thermister (NOT_SET)	NOT_SET	Thermister Select LHP2 (rest of instrument) Status Readback. 0 = Thermistor 1; 0xFF = Thermistor 2.	Rel 33 GLAS Binary Data	DS_UTCTime_16s
i_Et_sTh	INTEGER (UNLIMITED)	Etalon Selected Thermister (NOT_SET)	NOT_SET	Thermister Select Etalon Status Readback. 0 = Thermistor 1; 0xFF = Thermistor 2.	Rel 33 GLAS Binary Data	DS_UTCTime_16s
i_LHtP12_St	INTEGER (UNLIMITED)	Loop Heat Pipe 1 & 2 Heater Status (NOT_SET)	NOT_SET	Loop Heat Pipe 1 & 2 Heater Status; Pipe 1 -> Bit 0, LSB, Pipe 2 -> Bit 1; 0=OFF, 1=ON; spares -> Bits 2-7	Rel 33 GLAS Binary Data	DS_UTCTime_16s

This group contains the 16 second APID50 parameters (Small Software #2 Telemetry).

Label	Datatype (Dimensions)	long_name (standard_name)	units	description	source	coordinates
i_phdr_50	INTEGER (UNLIMITED, 6)	Primary Header APID 50 (NOT_SET)	NOT_SET	Primary Header APID 50	Rel 33 GLAS Binary Data	DS_UTCTime_16s
i_shdr_50	INTEGER (UNLIMITED, 8)	Secondary Header APID 50 (time stamp) (NOT_SET)	NOT_SET	Secondary Header APID 50 (time stamp)	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_TsPMir_t	DOUBLE (UNLIMITED)	Telescope Region 0 Primary Mirror Temperature (NOT_SET)	Celsius	Telescope Region 0 Primary Mirror	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_TsSMir_t	DOUBLE (UNLIMITED)	Telescope Region 1 Secondary Mirror Temperature (NOT_SET)	Celsius	Telescope Region 1 Secondary Mirror	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_TsTwr_t	DOUBLE (UNLIMITED)	Telescope Region 2 Tower Temperature (NOT_SET)	Celsius	Telescope Region 2 Tower	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_EtC37d_t	DOUBLE (UNLIMITED)	Etalon Temperature, Ch 37d (NOT_SET)	Celsius	Etalon Temperature, Ch 37d	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_LHP1C37e_t	DOUBLE (UNLIMITED)	Loop Heat Pipe 1 Temperature, Ch 37e (NOT_SET)	Celsius	Loop Heat Pipe 1 Temperature, Ch 37e	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_LHP2C37f_t	DOUBLE (UNLIMITED)	Loop Heat Pipe 2 Temperature, Ch 37f (NOT_SET)	Celsius	Loop Heat Pipe 2 Temperature, Ch 37f	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_TsPMirHDr_c	DOUBLE (UNLIMITED)	Telescope Primary Mirror Heater drive current (NOT_SET)	Amps	Telescope Primary Mirror Heater drive current	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_TsTwrHDr_c	DOUBLE (UNLIMITED)	Telescope Tower Heater drive current (NOT_SET)	Amps	Telescope Tower Heater drive current	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_EtHtrC37j_c	DOUBLE (UNLIMITED)	Etalon Heater Current, Ch 37j (NOT_SET)	Amps	Etalon Heater Current, Ch 37j	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_DlyLineAll_t	DOUBLE (UNLIMITED)	Delay Line All Temperature (NOT_SET)	Celsius	Delay Line All Temperature from Laser Monitor Board.	Rel 33 GLAS Binary Data	DS_UTCTime_16s

d_DlyLineMid_t	DOUBLE (UNLIMITED)	Delay Line Mid Temperature (NOT_SET)	Celsius	Delay Line Mid Temperature from Laser Monitor Board.	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_DlyLineHi_t	DOUBLE (UNLIMITED)	Delay Line Hi Temperature (NOT_SET)	Celsius	Delay Line Hi Temperature from Laser Monitor Board.	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_OTSL1_rb	DOUBLE (UNLIMITED)	OTS Level1 readback (NOT_SET)	Counts	OTS Level1 readback	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_OTSL2_rb	DOUBLE (UNLIMITED)	OTS Level 2 readback (NOT_SET)	Counts	OTS Level 2 readback	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_OTSL3_rb	DOUBLE (UNLIMITED)	OTS Level 3 readback (NOT_SET)	Counts	OTS Level 3 readback	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_OTSL4_rb	DOUBLE (UNLIMITED)	OTS Level 4 readback (NOT_SET)	Counts	OTS Level 4 readback	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_OTS_tc1	DOUBLE (UNLIMITED)	OTS Trigger Count 1 readback (NOT_SET)	Counts	The OTS trigger count 1 readback upper and lower byte. 1st item is the lower byte, 2nd item is the upper byte.	Rel 33 GLAS Binary Data	DS_UTCTime_16s
d_OTS_tc2	DOUBLE (UNLIMITED)	OTS Trigger Count 2 readback (NOT_SET)	Counts	The OTS trigger count 2 readback upper and lower byte. 1st item is the lower byte, 2nd item is the upper byte.	Rel 33 GLAS Binary Data	DS_UTCTime_16s

/ANCILLARY_DATA

/ANCILLARY_DATA

Attribute	Example Value
glas_osc_rate	1.000000026
glas_osc_rate_date	2005-10-21
glas_osc_rate_time	00:00:00
sc_osc_rate	0.99999998854809
sc_osc_rate_date	2005-10-21
sc_osc_rate_time	00:00:00
internal_time_delay	0.0000151100
internal_time_delay_date	2005-10-21

internal_time_delay_time	00:00:00
internal_range_delay	9.5560
internal_range_delay_date	2005-10-21
internal_range_delay_time	00:00:00
Additional_Attribute	ReferenceOrbit, Track, Cycle, Instance
internal_range_delay_desc	Internal range calibration bias determined during GLAS instrument integration testing and validated in-flight, meters.
internal_time_delay_desc	Internal time calibration bias determined during GLAS instrument integration testing and validated in-flight, seconds.

/METADATA

/METADATA

Attribute	Example Value
description	This group contains structured, computer-parseable ECHO-style collection and inventory-level metadata.
HDFVersion	HDF5 1.8.9
ControlFile	cf_name=glah03_test.ctl

/METADATA/COLLECTIONMETADATA

Attribute	Example Value
DLLName	libDsESDTSyBASIC.001Sh.so
GranuleTimeDuration	11620
SpatialSearchType	NotSupported
DataFileFormat	HDF5
ScienceMimeType	application/x-hdfeos
BrowseMimeType	application/x-hdfeos
BrowseOnlineMimeType	image/jpeg
ShortName	GLAH03
LongName	GLAS/ICESat L1A Global Engineering Data (HDF5)
CollectionDescription	The level 1A global engineering data (GLAH03) data granules contain approximately 190 minutes (2 orbits) of GLAS instrument housekeeping data including temperatures, voltages, and currents.
VersionID	33
CitationforExternalPublication	The data used in this study were produced by the GLAS Science Team at the ICESat Science Investigator-led Processing System (I-SIPS) at NASA/GSFC. The data archive site is the NSIDC DAAC.
CollectionState	In Work

MaintenanceandUpdateFrequency	Daily
AccessConstraints	Data may not be reproduced or distributed without including the CitationForExternalPublication for this product included in this Metadata. Data may not be distributed in an altered form without the written permission of the GLAS Science Team.
TemporalKeyword	Day
SpatialKeyword	Global

/METADATA/COLLECTIONMETADATA/AdditionalAttributes

Attribute	Example Value
Track	AdditionalAttributesContainer
Instrument_State	AdditionalAttributesContainer
ReferenceOrbit	AdditionalAttributesContainer
Cycle	AdditionalAttributesContainer
Instance	AdditionalAttributesContainer
Instrument_State_Date	AdditionalAttributesContainer
Instrument_State_Time	AdditionalAttributesContainer
identifier_product_doi	AdditionalAttributesContainer
identifier_file_uuid	AdditionalAttributesContainer
identifier_product_doi_authority	AdditionalAttributesContainer

/METADATA/COLLECTIONMETADATA/AdditionalAttributes/Cycle

Attribute	Example Value
AdditionalAttributeDatatype	int
AdditionalAttributeDescription	A count of the number of exact repeats of this reference orbit.
AdditionalAttributeName	Cycle
ParameterUnitsofMeasurement	counts
ParameterRangeBegin	0
ParameterRangeEnd	250

/METADATA/COLLECTIONMETADATA/AdditionalAttributes/Instance

Attribute	Example Value
AdditionalAttributeDatatype	int
AdditionalAttributeDescription	The number of times that we have returned to a specific reference orbit.
AdditionalAttributeName	Instance

ParameterUnitsofMeasurement	counts
ParameterRangeBegin	1
ParameterRangeEnd	99

/METADATA/COLLECTIONMETADATA/AdditionalAttributes/Instrument_State

Attribute	Example Value
AdditionalAttributeDatatype	int
AdditionalAttributeDescription	Flag word that indicates which redundant units (laser, detector, oscillator) of the GLAS instrument are in operation.
AdditionalAttributeName	Instrument_State
ParameterUnitsofMeasurement	Flag word
ParameterRangeBegin	0
ParameterRangeEnd	5

/METADATA/COLLECTIONMETADATA/AdditionalAttributes/Instrument_State_Date

Attribute	Example Value
AdditionalAttributeDatatype	date
AdditionalAttributeDescription	The date that corresponds to the first valid Instrument_State. There is a maximum of two per granule.
AdditionalAttributeName	Instrument_State_Date

/METADATA/COLLECTIONMETADATA/AdditionalAttributes/Instrument_State_Time

Attribute	Example Value
AdditionalAttributeDatatype	time
AdditionalAttributeDescription	The time that corresponds to the first valid Instrument_State. There is a maximum of two per granule.
AdditionalAttributeName	Instrument_State_Time

/METADATA/COLLECTIONMETADATA/AdditionalAttributes/ReferenceOrbit

Attribute	Example Value
AdditionalAttributeDatatype	int
AdditionalAttributeDescription	Assigned number for which exact orbital elements describe the exact repeat orbit pattern.
AdditionalAttributeName	ReferenceOrbit
ParameterUnitsofMeasurement	Assigned number
ParameterRangeBegin	1
ParameterRangeEnd	30000

/METADATA/COLLECTIONMETADATA/AdditionalAttributes/Track

Attribute	Example Value
AdditionalAttributeDatatype	int
AdditionalAttributeDescription	The unique number assigned for each repeat ground track (one orbit) of the reference orbit.
AdditionalAttributeName	Track
ParameterUnitsofMeasurement	counts
ParameterRangeBegin	0
ParameterRangeEnd	3000

/METADATA/COLLECTIONMETADATA/AdditionalAttributes/identifier_file_uuid

Attribute	Example Value
AdditionalAttributeDatatype	varchar
AdditionalAttributeDescription	Universally unique identifier for this data product's files
AdditionalAttributeName	identifier_file_uuid

/METADATA/COLLECTIONMETADATA/AdditionalAttributes/identifier_product_doi

Attribute	Example Value
AdditionalAttributeDatatype	varchar
AdditionalAttributeDescription	Digital object identifier that uniquely identifies this data product
AdditionalAttributeName	identifier_product_doi

/METADATA/COLLECTIONMETADATA/AdditionalAttributes/identifier_product_doi/InformationContent

Attribute	Example Value
ParameterValue	10.5067/ICESAT/GLAS/DATA103

/METADATA/COLLECTIONMETADATA/AdditionalAttributes/identifier_product_doi_authority

Attribute	Example Value
AdditionalAttributeDatatype	varchar
AdditionalAttributeDescription	URL of the digital object identifier resolving authority
AdditionalAttributeName	identifier_product_doi_authority

/METADATA/COLLECTIONMETADATA/AdditionalAttributes/identifier_product_doi_authority/InformationContent

Attribute	Example Value

ParameterValue	http://dx.doi.org
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/METADATA/COLLECTIONMETADATA/CSDTDescription

Attribute	Example Value
PrimaryCSDT	n-Dim Array of Records
IndirectReference	tracks/orbits
Implementation	HDF
CSDTComments	Granule contains two orbits of data.

/METADATA/COLLECTIONMETADATA/CollectionAssociation

Attribute	Example Value
GLA00	CollectionAssociationContainer

/METADATA/COLLECTIONMETADATA/CollectionAssociation/GLA00

Attribute	Example Value
CollectionType	Input
CollectionUse	The initial collection of GLAS instrument data downlinked from the spacecraft
ShortName	GLA00
VersionID	1

/METADATA/COLLECTIONMETADATA/ContactOrganization

Attribute	Example Value
Data_Originator	ContactOrganizationContainer
Archive	ContactOrganizationContainer

/METADATA/COLLECTIONMETADATA/ContactOrganization/Archive

Attribute	Example Value
Role	Archive
HoursofService	M-F, 8:00am to 5:00pm, Mountain Time
ContactInstructions	For inquiries, contact NSIDC User Services. Primary first level contact.
ContactOrganizationName	NSIDC User Services
StreetAddress	CIRES/NSIDC University of Colorado Campus, Box 449
City	Boulder
StateProvince	Colorado

PostalCode	80309-0449
Country	USA
TelephoneNumber	303-492-2468
TelephoneNumberType	Facsimile
ElectronicMailAddress	nsidc@nsidc.org

/METADATA/COLLECTIONMETADATA/ContactOrganization/Data_Originator

Attribute	Example Value
Role	Data Originator
HoursofService	M-F, 8:00am to 4:30pm Eastern Time
ContactInstructions	Contact by e-mail first
ContactOrganizationName	ICESat Science Investigator-led Processing System (I-SIPS)
StreetAddress	Building 33, NASA Goddard Space Flight Center
City	Greenbelt
StateProvince	Maryland
PostalCode	20771
Country	USA
TelephoneNumber	757-864-1238
TelephoneNumberType	Voice
ElectronicMailAddress	David.W.Hancock@nasa.gov

/METADATA/COLLECTIONMETADATA/ContactPerson

Attribute	Example Value
Hancock	ContactPersonContainer
Schutz	ContactPersonContainer
Zwally	ContactPersonContainer
DiMarzio	ContactPersonContainer

/METADATA/COLLECTIONMETADATA/ContactPerson/DiMarzio

Attribute	Example Value
Role	Producer
HoursofService	M-F, 8:00am to 4:30pm Eastern Time

ContactInstructions	None
ContactJobPosition	Deputy Science Software Development Manager
ContactFirstName	John
ContactMiddleName	P
ContactLastName	DiMarzio
StreetAddress	Building 33, Rm. B-209D, NASA/GSFC
City	Greenbelt
StateProvince	Maryland
PostalCode	20771
Country	USA
TelephoneNumber	301-614-5893
TelephoneNumberType	Voice
ElectronicMailAddress	John.P.Dimarzio.1@nasa.gov

/METADATA/COLLECTIONMETADATA/ContactPerson/Hancock

Attribute	Example Value
Role	Data Originator
HoursofService	M-F, 8:00am to 4:30pm. Eastern Time.
ContactInstructions	None
ContactJobPosition	Science Software Development Manager.
ContactFirstName	David
ContactMiddleName	W.
ContactLastName	Hancock
StreetAddress	Building N-159, NASA/GSFC Wallops Flight Facility.
City	Wallops Island
StateProvince	Virginia
PostalCode	23337
Country	USA
TelephoneNumber	757-824-1238
TelephoneNumberType	Voice

ElectronicMailAddress	David.W.Hancock@nasa.gov
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/METADATA/COLLECTIONMETADATA/ContactPerson/Schutz

Attribute	Example Value
Role	Investigator
HoursofService	M-F, 8:00am to 4:30pm Central Time
ContactInstructions	None
ContactJobPosition	GLAS Science Team Leader
ContactFirstName	Bob
ContactMiddleName	E
ContactLastName	Schutz
StreetAddress	3925 W. Braker Lane, Center for Space Research
City	Austin
StateProvince	Texas
PostalCode	78759-5321
Country	USA
TelephoneNumber	512-471-4267
TelephoneNumberType	Voice
ElectronicMailAddress	schutz@utcsr.ae.utexas.edu

/METADATA/COLLECTIONMETADATA/ContactPerson/Zwally

Attribute	Example Value
Role	Producer
HoursofService	M-F, 8:00am to 4:30pm Eastern Time
ContactInstructions	None.
ContactJobPosition	ICESat Project Scientist
ContactFirstName	Jay
ContactLastName	Zwally
StreetAddress	Building 33, Rm A-217
City	Greenbelt
StateProvince	Maryland

PostalCode	20771
Country	USA
TelephoneNumber	301-614-5643
TelephoneNumberType	Voice
ElectronicMailAddress	Jay.Zwally@nasa.gov

/METADATA/COLLECTIONMETADATA/DisciplineTopicParameters

/METADATA/COLLECTIONMETADATA/DisciplineTopicParameters/Spectral

Attribute	Example Value
Engineering	DisciplineTopicParametersContainer

/METADATA/COLLECTIONMETADATA/DisciplineTopicParameters/Spectral/Engineering

Attribute	Example Value
ECSDisciplineKeyword	Earth Science
ECSTopicKeyword	Spectral/Engineering
ECSTermKeyword	Sensor Characteristics
ECSVariableKeyword	Total Temperature

/METADATA/COLLECTIONMETADATA/ECSCollection

Attribute	Example Value
RevisionDate	2012-06-25
SuggestedUsage	GLAH03 contains the instrument engineering data and is a time-ordered level 1A data product. The data has been converted from the raw form to engineering units. The data was used to calibrate measurements contained on GLAH01 and GLAH02 and to perform GLAS instrument performance assessment. Each GLAH03 file was created from an equivalent GLA03 binary formatted file. The provenance metadata shows the history that created the GLA03.
ProcessingCenter	GSFC I-SIPS
ArchiveCenter	NSIDC
VersionDescription	Initial Version
DatasetDisclaimerPointer	https://nsidc.org/data/icesat/disclaimer.html
MiscellaneousInformationPointer	https://nsidc.org/daac/icesat/index.html
MiscellaneousInformationPointerComment	GLAS Product page at NSIDC

/METADATA/COLLECTIONMETADATA/Platform

Attribute	Example Value
ICESat	PlatformContainer

/METADATA/COLLECTIONMETADATA/Platform/ICESat

Attribute	Example Value
PlatformShortName	ICESat
PlatformLongName	Ice, Cloud, and Land Elevation Satellite
PlatformType	Spacecraft

/METADATA/COLLECTIONMETADATA/Platform/ICESat/Instrument

Attribute	Example Value
GLAS	InstrumentContainer
GPS	InstrumentContainer

/METADATA/COLLECTIONMETADATA/Platform/ICESat/Instrument/GLAS

Attribute	Example Value
InstrumentShortName	GLAS
InstrumentLongName	Geoscience Laser Altimeter System
InstrumentTechnique	Laser Altimetry and Light Detection and Radar
NumberOfSensors	3

/METADATA/COLLECTIONMETADATA/Platform/ICESat/Instrument/GLAS/Sensor

Attribute	Example Value
LA	SensorContainer
PC	SensorContainer
CD	SensorContainer

/METADATA/COLLECTIONMETADATA/Platform/ICESat/Instrument/GLAS/Sensor/CD

Attribute	Example Value
SensorShortName	CD
SensorLongName	Cloud LIDAR
SensorTechnique	Measure of 1064nm return energy in 75m bins from 20km to surface

/METADATA/COLLECTIONMETADATA/Platform/ICESat/Instrument/GLAS/Sensor/CD/SensorCharacteristic

Attribute	Example Value
wavelength	SensorCharacteristicContainer

/METADATA/COLLECTIONMETADATA/Platform/ICESat/Instrument/GLAS/Sensor/CD/SensorCharacteristic/wavelength

Attribute	Example Value
SensorCharacteristicName	wavelength
SensorCharacteristicDescription	detector
SensorCharacteristicDataType	varchar
SensorCharacteristicUnit	nanometer
SensorCharacteristicValue	1064 nm

/METADATA/COLLECTIONMETADATA/Platform/ICESat/Instrument/GLAS/Sensor/LA

Attribute	Example Value
SensorShortName	LA
SensorLongName	Laser Altimeter
SensorTechnique	Exact Measurement of Time between Transmit Pulse and receive ground return

/METADATA/COLLECTIONMETADATA/Platform/ICESat/Instrument/GLAS/Sensor/LA/SensorCharacteristic

Attribute	Example Value
wavelength	SensorCharacteristicContainer
waveform	SensorCharacteristicContainer

/METADATA/COLLECTIONMETADATA/Platform/ICESat/Instrument/GLAS/Sensor/LA/SensorCharacteristic/waveform

Attribute	Example Value
SensorCharacteristicName	waveform
SensorCharacteristicDescription	digitizer
SensorCharacteristicDataType	varchar
SensorCharacteristicUnit	counts
SensorCharacteristicValue	0-255

/METADATA/COLLECTIONMETADATA/Platform/ICESat/Instrument/GLAS/Sensor/LA/SensorCharacteristic/wavelength

Attribute	Example Value
SensorCharacteristicName	wavelength
SensorCharacteristicDescription	transmission
SensorCharacteristicDataType	varchar
SensorCharacteristicUnit	nanometer
SensorCharacteristicValue	1064 nm

/METADATA/COLLECTIONMETADATA/Platform/ICESat/Instrument/GLAS/Sensor/PC

Attribute	Example Value
SensorShortName	PC
SensorLongName	Photon Counter for the 532 nm Aerosol Returns
SensorTechnique	Counting of 532nm photon return in 75m bins 40km to surface

/METADATA/COLLECTIONMETADATA/Platform/ICESat/Instrument/GLAS/Sensor/PC/SensorCharacteristic

Attribute	Example Value
wavelength	SensorCharacteristicContainer

/METADATA/COLLECTIONMETADATA/Platform/ICESat/Instrument/GLAS/Sensor/PC/SensorCharacteristic/wavelength

Attribute	Example Value
SensorCharacteristicName	wavelength
SensorCharacteristicDescription	detector
SensorCharacteristicDataType	varchar
SensorCharacteristicUnit	nanometer
SensorCharacteristicValue	532nm

/METADATA/COLLECTIONMETADATA/Platform/ICESat/Instrument/GPS

Attribute	Example Value
InstrumentShortName	GPS
InstrumentLongName	Global Positioning System Receiver
InstrumentTechnique	Radionavigation
NumberOfSensors	1

/METADATA/COLLECTIONMETADATA/Platform/ICESat/Instrument/GPS/Sensor

Attribute	Example Value
GPS_Receiver	SensorContainer

/METADATA/COLLECTIONMETADATA/Platform/ICESat/Instrument/GPS/Sensor/GPS_Receiver

Attribute	Example Value
SensorShortName	GPS Receiver
SensorLongName	Dual frequency GPS receiver

SensorTechnique	Pseudorange and carrier phase
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/METADATA/COLLECTIONMETADATA/ProcessingLevel

Attribute	Example Value
ProcessingLevelDescription	Sensor Measurements
ProcessingLevelID	1A

/METADATA/COLLECTIONMETADATA/Review

Attribute	Example Value
ScienceReviewDate	2001-03-04
ScienceReviewStatus	QA at DAACs
FutureReviewDate	2001-09-04

/METADATA/COLLECTIONMETADATA/Spatial

Attribute	Example Value
SpatialCoverageType	Horizontal
WestBoundingCoordinate	-180.0
NorthBoundingCoordinate	90.0
EastBoundingCoordinate	180.0
SouthBoundingCoordinate	-90.0

/METADATA/COLLECTIONMETADATA/StorageMediumClass

Attribute	Example Value
StorageMedium	Online

/METADATA/COLLECTIONMETADATA/Temporal

Attribute	Example Value
TimeType	UTC
DateType	J2000
TemporalRangeType	Continuous Range
PrecisionofSeconds	2
EndsatPresentFlag	Y
RangeBeginningDate	2003-01-13
RangeBeginningTime	00:00:00

RangeEndingDate	2010-01-13
RangeEndingTime	00:00:00

/METADATA/INVENTORYMETADATA

Attribute	Example Value
PGEVersion	Version 1.1
ShortName	GLAH03
VersionID	33
RangeBeginningTime	11:42:39
RangeEndingTime	14:55:46
RangeBeginningDate	2005-11-01
RangeEndingDate	2005-11-01

/METADATA/INVENTORYMETADATA/ECSDDataGranule

Attribute	Example Value
ReprocessingPlanned	no further update anticipated
ReprocessingActual	reprocessed
LocalGranuleID	GLAH03_033_2113_002_0085_0_01_0001.H5
ProductionDateTime	2013-03-27T20:05:14
LocalVersionID	33

/METADATA/INVENTORYMETADATA/InputGranule

Attribute	Example Value
InputPointer	gla03_test.cti, tai-utc.dat, GLA03_033_2113_002_0085_0_01_0001.DAT, DsESDTGIGLAH03.033.desc

/METADATA/INVENTORYMETADATA/MeasuredParameter

Attribute	Example Value
ParameterName	Temperature, Voltage, Data

/METADATA/INVENTORYMETADATA/OrbitCalculatedSpatialDomain

Attribute	Example Value
OrbitNumber	15247, 15248, 15249
StartOrbitNumber	15247
StopOrbitNumber	15249

EquatorCrossingLongitude	127.56265, 103.366974, 79.17059
EquatorCrossingTime	11:29:14, 13:05:53, 14:42:32
EquatorCrossingDate	2005-11-01, 2005-11-01, 2005-11-01

/METADATA/INVENTORYMETADATA/ProductSpecificMetadata

Attribute	Example Value
Track	85, 86, 87
Instrument_State	373340
ReferenceOrbit	1
Cycle	2
Instance	13
Instrument_State_Date	2005-10-21
Instrument_State_Time	00:00:00
identifier_product_doi	10.5067/ICESAT/GLAS/DATA103
identifier_file_uuid	D65E7C2A-7BC1-444F-AE6F-991DAD0B45FF
identifier_product_doi_authority	http://dx.doi.org

/METADATA/PROVENANCE

/METADATA/PROVENANCE/STEP_1

Attribute	Example Value
ProcessDateTime	2011-06-01T19:14:02

/METADATA/PROVENANCE/STEP_1/ProcessAgent

Attribute	Example Value
Name	glas_l1a
Type	1A
Version	6.0.1
Description	This process is an instantiation of the GLAS Science Algorithm Software (GSAS) 1A ATBDs.

/METADATA/PROVENANCE/STEP_1/ProcessInput

Attribute	Example Value
Name	GLA00_003_20051101_060000_01_0012.DAT, GLA00_003_20051101_120000_01_0012.DAT, GLA00_003_20051101_060004_01_0013.DAT, GLA00_003_20051101_120021_01_0013.DAT, GLA00_003_20051101_060000_01_0015.DAT, GLA00_003_20051101_120000_01_0015.DAT, GLA00_003_20051101_060000_01_0017.DAT, GLA00_003_20051101_120000_01_0017.DAT, GLA00_003_20051101_060000_01_0019.DAT,

Attribute	Example Value
Name	out/GLAH03_033_2113_002_0085_0_01_0001.H5
Type	OUT_GLAH03
Version	1
UUID	D65E7C2A-7BC1-444F-AE6F-991DAD0B45FF
DOI	10.5067/ICESAT/GLAS/DATA103

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