SGLI Level 1 Product Format Description

Revision B

December, 2021

Revision History（1/6）

Revision No.	Date of revision	Revised page	Description
First version	2018/10	-	Issuance of the first version
A	2020/3	Attached Sheet_Geo TIFF Tag List	Title was changed. L1→ L1 (Scene) L2 (EQA tile) / L3 (EQA tile / Global)→ L2 (EQA tile) L3（EQR）/L3（PS）→ L3（EQR） No.7 ImageLength Source: L1A: HDF5, Raw_data, Number of dimensions of source image dataset. L1B: HDF5, Image_data, Number of dimensions of source image dataset. ↓ The number of lines in the area projected by EQR. No.8 ImageWidth Source: L1A: HDF5, Raw_data, Number of dimensions of source image dataset. L1B: HDF5, Image_data, Number of dimensions of source image dataset. ↓ The number of pixels in the area projected by EQR. No.14 SampleFormat L1 (Scene), L2 (Scene), L2 (EQA tile), L3 (EQR) Value (Format): 2→1 No.17 RowsPerStrip was added. No.23 ModelTiepointTag L1 Value: The tie point from the pixel tie points in each latitude/longitude grid space that is thinned out with the maximum number of tie point outputs ↓ One tie point at the upper left in the area projected by EQR. No.23 ModelTiepointTag L1 Source: L1A: HDF5, Geometry_data, Latitude_*, Longitude_* L1B: HDF5, Geometry_data, Latitude, Longitude ↓ Latitude and longitude at the upper left in the area projected by EQR. No.23 ModelTiepointTag L2 (Scene) Value (Format): The tie point from the pixel tie points in each latitude/longitude grid space that is thinned out with the maximum number of tie point outputs. ↓ One tie point at the upper left in the area projected by EQR.

Revision History（2/6）

Revision No.	Date of revision	Revised page	Description
A	2020/3		No.23 ModelTiepointTag L2 (Scene) Source: HDF5, Geometry_data, Latitude, Longitude ↓ Latitude and longitude at the upper left in the area projected by EQR. No.23 ModelTiepointTag L2 (EQA tile) Source: HDF5, Geometry_data, Upper_left_latitude, Other ↓ Distance from the origin (latitude 0, longitude 0) calculated from tile number No.23 ModelTiepointTag L3（EQR） Value (Format): Tie point at the four corners of an image ↓ One tie point at the upper left in the area projected by EQR. No.23 ModelTiepointTag L3（EQR） Source: HDF5, Geometry_data, Upper_left_latitude, Other ↓ Latitude and longitude at the upper left in the area projected by EQR. No.24 ModelPixelScaleTag was added. No.26 GTModelTypeGeoKey L2 (EQA tile) Value (Format): 2→1 No.27 GTRasterTypeGeoKey L2 (EQA tile) Value (Format): 2→1 No.29 GeogGeodeticDatumGeoKe was added. No.30 GeogPrimeMeridianGeoKey was added. No.31 GeogAngularUnitsGeoKey was added. No.32 GeographicTypeGeoKey L2 (EQA tile) Store: ○→× No.33 GeogCitationGeoKey L2 (EQA tile) Store: ○→× No.34 ProjectedCSTypeGeoKey L1 (Scene) Store: ○→× Value (Format): 32767→Not described. Source: Fixed value→Not described. No.34 ProjectedCSTypeGeoKey L2 (EQA tile) Store: ×→○ Value (Format): Not described.→32767 Source: Not described.→Fixed value No.35 PCSCitationGeoKey L1 (Scene) Store: △→× Value (Format): GCOM-C→Not described. Source: Fixed value→Not described.

Revision History（3/6）

Revision No.	Date of revision	Revised page	Description
A	2020/3		No.35 PCSCitationGeoKey L2 (EQA tile) Value (Format): Not described.→"Sphere_Sinusoidal" Source:なし→Fixed value No.36 ProjectionGeoKey L1 (Scene) Store: ○→× Value (Format): 32767→Not described. Source: Fixed value→Not described. No.36 ProjectionGeoKey L2 (EQA tile) Store: ×→○ Value (Format): Not described.→32767 Source: Not described.→Fixed value No.37 ProjCoordTransGeoKey L1 (Scene) Store: ○→× Value (Format): 32767→Not described. Source: Fixed value→Not described. No.37 ProjCoordTransGeoKey L2 (EQA tile) Store: ×→○ Value (Format): Not described.→24 Source: Not described.→Fixed value No.38 ProjLinearUnitsGeoKey L1 (Scene) Store: ○→× Value (Format): 9001→Not described. Source: Fixed value→Not described. No.38 ProjLinearUnitsGeoKey L2 (EQA tile) Store: ×→○ Value (Format): Not described.→9001 Source: Not described.→Fixed value No.43 ProjFalseEastingGeoKey was added. No.44 ProjFalseNorthingGeoKey was added. No.27 GTRasterTypeGeoKey L1 (Scene), L2 (Scene), L3 (EQR) Value (Format): 2→1

Revision History（4/6）

Revision No.	Date of revision	Revised page	Description
B	2021/07	Update for IRS Geometric parameter	
		Attached Sheet_L1 Product Format Data Set List L1A	**Sheet: L1A_VNR-NP**
			Group: Geometry_parameter (Line 703) Attribute: Geometry_parameter_version Attribute Value: 0001→0002
			Sheet: L1A_VNR-PL
			Group: Geometry_parameter (Line 513) Attribute: Geometry_parameter_version Attribute Value: 0001→0002
			Sheet: L1A_IRS Group: Geometry_parameter (Line 832) Attribute: Geometry_parameter_version Attribute Value: 0001→0002
		Attached Sheet_L1 Product Format Data Set List L1B	**Sheet: L1B_VNR-NP**
			Group: Geometry_parameter (Line 2077) Attribute: Geometry_parameter_version Attribute Value: 0001→0002
			Sheet: L1B_VNR-PL
			Group: Geometry_parameter (Line 1349) Attribute: Geometry_parameter_version Attribute Value: 0001→0002
			Sheet: L1B_IRS
			Group:Geometry_parameter (Line 1362) Attribute: Geometry_parameter_version Attribute Value: 0001→0002
		Error correction	
		Attached Sheet_L1 Product Format Data Set List L1A	**Sheet: L1A_VNR-NP**
			The following sentence was deleted. Group: Global_attributes (Line 36) Remarks: The number of letters is the same as the number of quality data to be the source of total quality.
			Sheet: L1A_VNR-PL
			The following sentence was deleted. Group: Global_attributes (Line 36) Remarks: The number of letters is the same as the number of quality data to be the source of total quality.
			Sheet: L1A_IRS
			The following sentence was deleted. Group: Global_attributes (Line 36) Remarks: The number of letters is the same as the number of quality data to be the source of total quality.

Revision History（5/6）

Revision No.	Date of revision	Revised page	Description
B	2021/07	Attached Sheet_L1 Product Format Data Set List L1B	**Sheet: L1B_VNR-NP**
			The following sentence was deleted. Line 45 Group: Global_attributes (Line 45) Remarks: The number of letters is the same as the number of quality data to be the source of total quality.
			Attribute value of the following numbers were corrected. Attribute: Error_DN Attribute Value: 32767→32768 No.25, No.26, No.27, No.28, No.29, No.30, No.31, No.32, No.33, No.34, No.35, No.36, No.37, No.38, No.39, No.40, No.41, No.42, No.43, No.44, No.45, No.46, No.47, No.48, No.49, No.50, No.51, No.52, No.53, No.54, No.55, No.56, No.57, No.58, No.59, No.60, No.61, No.62.
			No.63 Dataset: Line_msec (Line 740) Attribute: Error_DN Attribute Value: 2147483647→-2147483648
			Sheet: L1B_VNR-PL
			The following sentence was added. Group: Global_attributes (Linw 33) Remarks: Saturation threshold value of the Spectral radiance is processing parameter for each band.
			The following sentence was deleted. Group: Global_attributes (Line 44) Remarks: The number of letters is the same as the number of quality data to be the source of total quality.
			Attribute value of the following numbers were corrected. Attribute: Error_DN Attribute Value: 32767→-32768 No.15, No.16, No.17, No.18, No.19, No.20, No.21, No.22, No.23, No.24, No.25, No.26, No.27, No.28, No.29, No.30, No.31, No.32, No.33, No.34, No.35, No.36, No.37.
			No.39 Dataset: Line_msec (Line 484) Attribut: Error_DN Attribute Value: 2147483647→-2147483648
			The following sentence was added. No.164 Saturation_num_in_line (Line 1346) Remarks: Saturation threshold value of the Spectral radiance is processing parameter for each band.
			Sheet: L1B_IRS
			The following sentence was added. Group: Global_attributes (Line 33) Remarks: Saturation threshold value of the spectral radiance is the processing parameter for each band and resolution.

Revision History（6/6）

Revision No.	Date of revision	Revised page	Description
B	2021/07	Attached Sheet_L1 Product Format Data Set List L1B	The following sentence was deleted. Group: Global_attributes (Line 44) Remarks: The number of letters is the same as the number of quality data to be the source of total quality.
			Attribute value of the following numbers were corrected. Attribute: Error_DN Attribute Value: 32767→-32768
			No.3, No.4, No.5, No.6, No.7, No.8, No.9, No.10, No.11, No.12, No.13, No.14, No.15, No.16, No.17, No.18, No.19, No.20, No.21, No.22, No.23, No.24, No.25.
			No.26 Dataset: Line_msec (Line 353) Attribute: Error_DN Attribute Value : 2147483647→-2147483648
			The following sentence was added. No.190～192 (Line 1354, Line 1357, Line 1359) Remarks: Saturation threshold value of the Spectral radiance is the processing parameter for each band.

Table of Contents

1 Introduction

1.1 Purpose

The purpose of this document is to describe specifications/formats for the SGLI Level 1 product file of GCOM-C (Global Change Observation Mission - Climate).

1.2 Outline

The SGLI sensor on board GCOM-C is used to observe the earth with its four mutually independent observation functions (VNR Non Polarized, VNR Polarized, IRS Short Wave Infrared, and IRS Thermal Infrared radiometers). SGLI Level 1 products are created by applying Level 1 processing on these data observed with the SGLI sensor on GCOM-C. The Level 1 products are created in the HDF5 file format.

The structure of this document is shown in Figure 1.2-1.

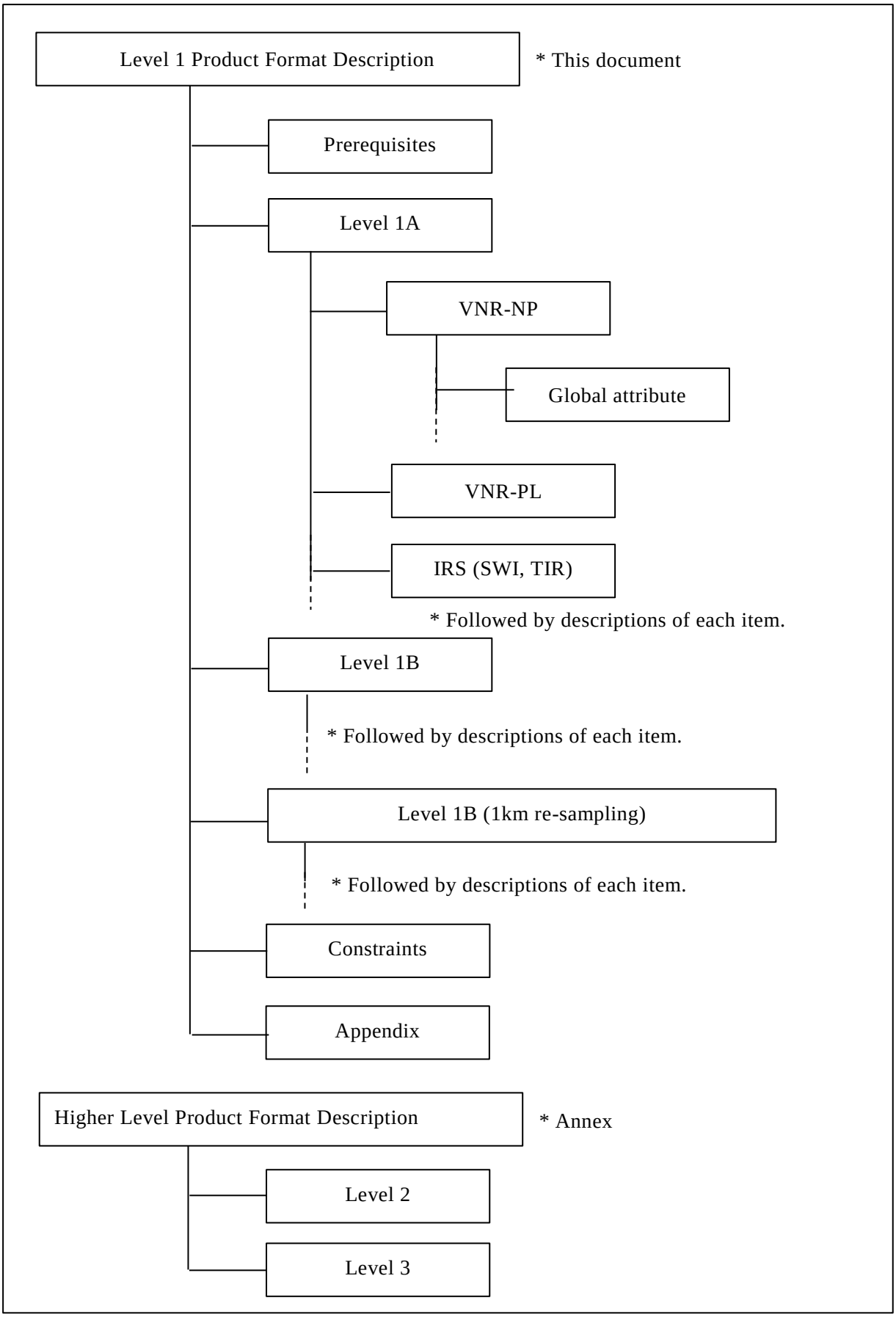


Figure 1.2-1 Structure of Manual for Format

2 This Section is Not Used

3 Prerequisites

3.1 Types of Observation Data

The SGLI sensor observes four types of data with each functions. The types of the observed data as well as their descriptions are listed and shown in “Table 3.1-1”. The specifications of the observation wavelength of the SGLI sensor are shown in “Table 3.1-2”.

Table 3.1-1 List of GSLI Observation Data

No.	Observation function	Number of channels	Description of observation data
1.	VNR-NP	11ch	Observation of the intensity of reflected light scattered and absorbed by the atmosphere and the earth’s surface using NP observation (Non Polarized observation). Comprised of three telescopes, each one of which has 11 channels.
2.	VNR-PL	2ch	Observation of the intensity of reflected light scattered and absorbed by the atmosphere and the earth’s surface using PL observation (Polarized observation). 2 ch ×3 polarization angles (-60°, 0°, and +60° polarizations).
3.	IRS SWI	4ch	Observation using the Short Wavelength Infrared (SWI) sensor on IRS.
4.	IRS TIR	2ch	Observation using the Thermal Infrared (TIR) sensor on IRS.

Table 3.1-2 Specifications of Observation Wavelength of SGLI Sensor

Sensor	ch	Center wavelength λc[nm]	Band width Δλ[n m]	Reference Radiance L_{std} [W/ m^2/str/μm]	Maximum Radiance L_{max} [W/ m^2/str/μm]	On-orbit maximum Radiance L_{cloud} [W/ m^2/str/μm]	IFOV	Specification of S/N (Prescribed resolution)
VNR-NP	VN1	380	10	60	210	329	250 m/1000 m	250(250 km)
	VN2	412	10	75	250	589	250 m/1000 m	400(250 km)
	VN3	443	10	64	400	650	250 m/1000 m	300(250 km)
	VN4	490	10	53	120	645	250 m/1000 m	400(250 km)
	VN5	530	20	41	350	643	250 m/1000 m	250(250 km)
	VN6	565	20	33	90	648	250 m/1000 m	400(250 km)
	VN7	673.5	20	23	62	564	250 m/1000 m	400(250 km)
	VN8	673.5	20	25	210	564	250 m/1000 m	250(250 km)
	VN9	763	12	40	350	438	250 m/1000 m	1200(1000 m)
	VN10	868.5	20	8	30	362	250 m/1000 m	400(250 km)
	VN11	868.5	20	30	300	362	250 m/1000 m	200(250 km)
VNR-PL	P1	673.5	20	25	250	564	1000 m	250(1000 m)
	P2	868.5	20	30	300	362	1000 m	250(1000 m)
Sensor	ch	Center wavelength λc [μm]	Band width Δλ [μm]	Reference Radiance L_{std} [W/ m^2/str/μm]	Maximum Radiance L_{max} [W/ m^2/str/μm]	On-orbit maximum Radiance L_{cloud} [W/ m^2/str/μm]	IFOV	Specification of S/N (Prescribed resolution)
IRS SWI	SW1	1.05	0.020	57	248	248	1000 m	500(1000 m)
	SW2	1.38	0.020	8	103	103	1000 m	150(1000 m)
	SW3	1.63	0.200	3	50	59	250 m/1000 m	57(250 m)
	SW4	2.21	0.050	1.9	20	20	1000 m	211(1000 m)
Sensor	ch	Center wavelength λc [μm]	Band width Δλ [μm]	Reference Radiance T_{std}[K]	Minimum observation temperature T_{min}[K]	Maximum observation temperature T_{max}[K]	IFOV	Noise equivalent temperature (Prescribed resolution)
IRS TIR	T1	10.8	0.74	300	180	340	250 m/500 m/1000 m	0.2(500 m)
	T2	12.0	0.74	300	180	340	250 m/500 m/1000 m	0.2(500 m)

3.2 Processing Level

In the SGLI Level 1 processing, there are two processing levels defined based on processing contents of the observation data – Level 1A and Level 1B. Each processing level is summarized in "Table 3.2-1".

Table 3.2-1 Summary of Processing Level

Processing level	Outline	Major outputs
Level 1A	This process creates L1A products using the data from the satellite as inputs, and the following processes are applied on the input data. ・ Determination scene range; extraction of data within the scene range; and segmentation of the scene ・ Deletion of duplicated packets and filling of missing data with dummy data ・ Calculation of radiometric correction information ・ Calculation of geometric information ・ Creation of missing packet information and quality information	・ RAW data (DN value) ・ Ancillary data ・ PCD data ・ Geometric model parameter ・ Radiometric correction coefficient ・ Geometric information ・ Quality information
Level 1B	This process creates Level 1B products using the data contained in Level 1A products as inputs, and the following processes are applied on the input data. ・ Calculation of spectral radiance ・ Re-sampling of geometric correction data and observation data to L1B Reference Coordinate System ・ Calculation of land/water flag ・ Creation of quality information	・ Spectral radiance (Image data) ・ Ancillary data ・ PCD data ・ Geometric information ・ Quality information
Level 1B (1km re-sampling)	This process creates Level 1B products (1km re-sampling) using Level 1B products as inputs, and the following processes are applied on the input data. ・ Low resolution (1000 m) re-sampling of high resolution images (250 m or 500 m) ・ Filling of missing data in high resolution images with contiguous low resolution images ・ Re-calculation of various information related to L1B products	・ Spectral radiance (Image data) ・ Ancillary data ・ PCD data ・ Geometric information ・ Quality information

3.3 Definition of Scene

The unit to which Level 1 processing is applied is called a “scene”.

In the case of observations with VNR-NP and IRS, the argument of latitude in one revolution of the satellite is segmented (divided) into 24 segments, and this $1/24^{th}$ of one revolution is defined to be one scene. The start point of one revolution is the ascending node of the orbit. (Observation point on the argument of latitude at the boundary of a scene is the start point of the next scene.) A schematic view of a scene observed by VNR-NP and IRS is shown in “Figure 3.3-1”. However, in an image of a product that is created by processing one scene, the range of the scene is not exactly identical to the range of the product image, because the areas overlapping with the contiguous scenes are normally required. Also note that under some particular conditions, a scene is divided into multiple products. Details of relations between the scene and product are described in 3.6 .

In the case of observations with VNR-PL, one scene is defined to cover the entire area of daytime observations in one revolution. Since there is no contiguous scene in these observations, the overlap area does not exist. A schematic view of a scene observed by VNR-PL is shown in “Figure 3.3-2”.

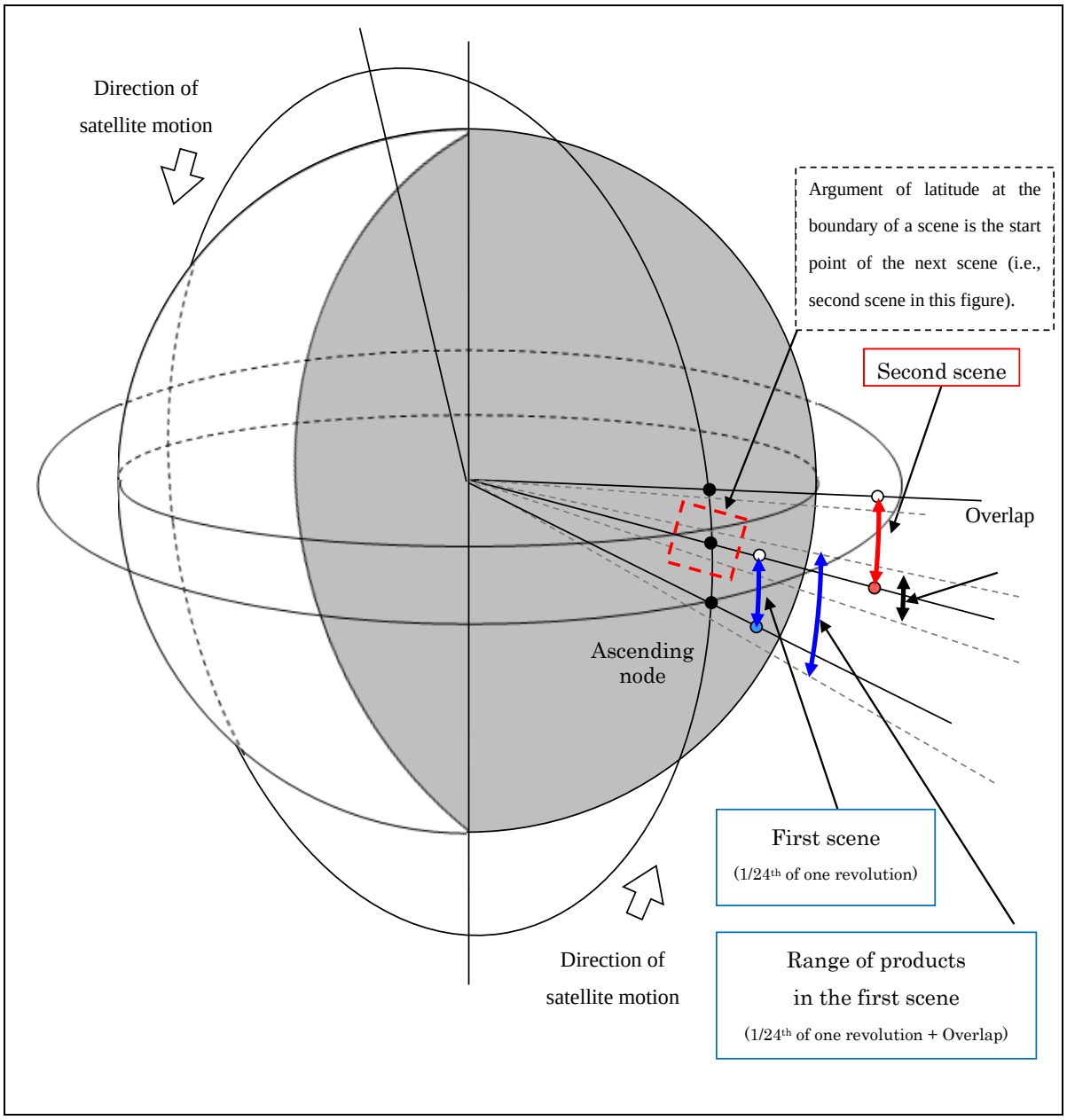


Figure 3.3-1 Definition of Scene for SGLI Level 1 Product (VNR-NP and IRS)

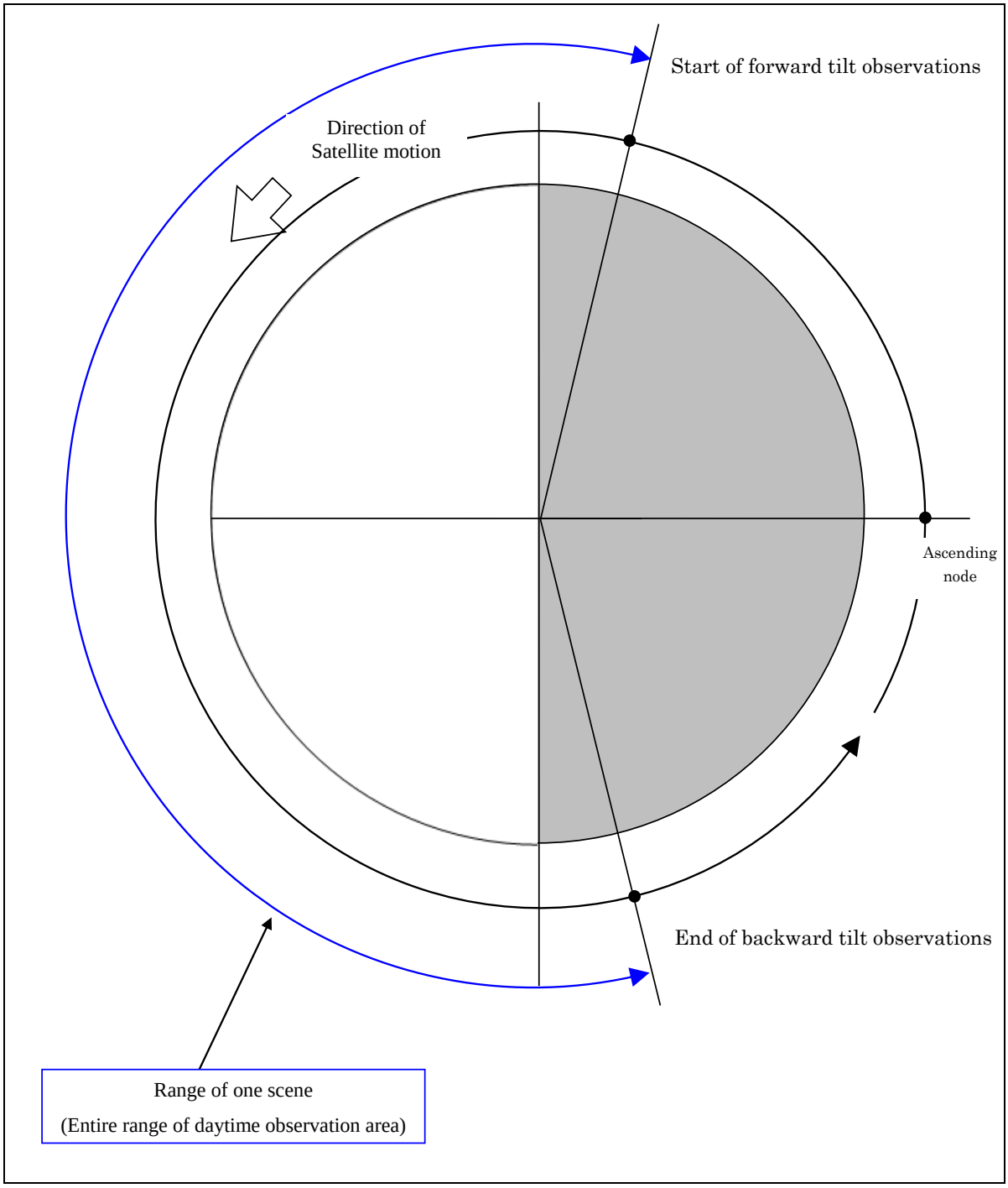


Figure 3.3-2 Definition of Scene for SGLI Level 1 Product (VNR-PL)

3.4 Daytime/Nighttime Observation

Typical patterns of observations with SGLI sensor are predefined respectively for daytime and nighttime observations. In the case of observations with VNR and IRS, all types of data are always observed in the daytime observation. In the nighttime observation, observations with VNR are not carried out, and observations with IRS SWI are carried out or not carried out depending on which area is being observed. However, observations with IRS TIR are always carried out irrespective of daytime or nighttime.

In principle, no product is created as long as observation is not carried out. However, when only one of the TIR or SWI observations is not carried out, when observations are not carried out only for a short period of time, or when the time at which observations with VNR start is slightly different from the time at which observations with IRS start, the alternative data is stored in the relevant data in the product.

Typical operations of the sensors in the nighttime and daytime are shown in "Table 3.4-1". Refer to Sensor Characteristics and Performance Guide for details.

Table 3.4-1 Typical Operations of Sensor in Daytime and Nighttime

Daytime/Nighttime	VNR-NP	VNR-PL	IRS SWI	IRS TIR
Daytime observation	Make observation	Make observation	Make observation	Make observation
Nighttime observation	OFF	OFF	Make or OFF	Make observation

Note that the observation patterns shown in the above table are typical patterns, which may not be applicable as the case may depend on observation requirements.

3.5 Resolution

Except for some parts of the observation data, observations with SGLI sensor can be carried out with a switchable alternate resolution. The data that can be observed by SGLI sensor with an alternate resolution is listed in "Table 3.5-1". For sensors where resolution is switchable, the basic observation method is to observe land and seacoast areas with high resolution, and open ocean areas with low resolution. Refer to Sensor Characteristics and Performance Guide for details.

Table 3.5-1 List of Switchable Resolution Mode for the Respective SGLI Observation Data

No.	Observation data	Resolution
1.	VNR-NP	250 m or 1000 m
2.	VNR-PL	1000 m (Fixed)
3.	IRS SWI	1ch: 1000 m, 2ch: 1000 m, 3ch: 250 m, 4ch: 1000 m; or 1ch: 1000 m, 2ch: 1000 m, 3ch: 1000 m, 4ch: 1000 m
4.	IRS TIR	250 m, 500 m, or 1000 m

3.6 Product Storage Unit

3.6.1 Product Segmentation Method

In accordance with the previous prerequisites, the unit for storing products is decided by the following factors listed in “Table 3.6-1”.

Table 3.6-1 List of Product Segmentation Factors

No.	Product segmentation factor	Outline	Details
1.	Types of observation data	The outputs from VNR-NP, VNR-PL, and IRS (SWI+ TIR) are created as different products. Data observed by each channel in a single type of radiometer is stored as one product.	Chapter 3.1
2.	Processing level	Level 1A and Level 1B products are output as different products.	Chapter 3.2
3.	Range of scene (VNR-NP, IRS)	The unit in Level 1 processing is called a scene. One scene is defined as the area where one revolution of the satellite is divided into 24 segments starting from the ascending node of the orbit. Multiple scenes cannot be stored in one product. On the other hand, one scene can be segmented into multiple products in accordance with the product segmentation factor(s). This possible segmentation of one scene is not applicable to the data observed by VNR-PL, where one product is composed of data from one revolution.	Chapter 3.3
4.	Sensor resolution (VNR-NP, IRS)	When sensor resolution is changed within one scene, the data before and after the change is output into a different product. If the resolution for any one of the VNR-NP, SWI, and TIR sensors is changed, products for both VNR-NP and IRS (SWI+TIR) will be divided. For Level 1B (1km re-sampling) products, although all image resolutions within a single scene are standardized to low resolution when the low resolution re-sampling is carried out, the products cannot be connected. Products for VNR-PL cannot be divided because the resolution of VNR-PL data cannot be changed.	3.5
5.	Observation Stopping with other sensors (VNR-NP, IRS)	If any one of the VNR-NP, SWI, and IRS sensors stops running its observation operations, products for VNR-NP and IRS will be divided.	-

Typical combination patterns of segmentation factors for SGLI Level 1 products are shown in “Table 3.6-2” and “Table 3.6-3”, in which the product storage unit is taken into account.

Table 3.6-2 Typical Patterns of SGLI Level 1A / Level 1B Products

No.	Observation data	Processing level	Daytime /Nighttime	Sensor resolution		Note
1.	VNR-NP	Level 1A	Daytime observation	250 m		Resolution symbol: Q
2.				1000 m		Resolution symbol: K
3.			Nighttime observation	OFF		Do not create product
4.		Level 1B	Daytime observation	250 m		Resolution symbol: Q
5.				1000 m		Resolution symbol: K
6.			Nighttime observation	OFF		Do not create product
7.	VNR-PL	Level 1A	Daytime observation	1000 m		Resolution symbol: K
8.			Nighttime observation	OFF		Do not create product
9.		Level 1B	Daytime observation	1000 m		Resolution symbol: K
10.			Nighttime observation	OFF		Do not create product
11.	IRS (SWI+TIR)	Level 1A	Daytime observation	SWI: 1, 2, 4ch: 1000 m 3ch: 250 m	TIR: 250 m	Resolution symbol: Q
12.					TIR: 500 m	Resolution symbol: M
13.					TIR: 1000 m	Resolution symbol: X
14.				SWI: 1 to 4ch: 1000 m	TIR: 250 m	Resolution symbol: Y
15.					TIR: 500 m	Resolution symbol: H
16.					TIR: 1000 m	Resolution symbol: K
17.			Nighttime observation	SWI: 1, 2, 4ch: 1000 m 3ch: 250 m	TIR: 250 m	Resolution symbol: Q
18.					TIR: 500 m	Resolution symbol: M
19.					TIR: 1000 m	Resolution symbol: X
20.				SWI: OFF	TIR: 250 m	Resolution symbol: Q
21.					TIR: 500 m	Resolution symbol: H
22.					TIR: 1000 m	Resolution symbol: K
23.		Level 1B	Daytime observation	SWI: 1, 2, 4ch: 1000 m 3ch: 250 m	TIR: 250 m	Resolution symbol: Q
24.					TIR: 500 m	Resolution symbol: M
25.					TIR: 1000 m	Resolution symbol: X
26.				SWI: 1 to 4ch: 1000 m	TIR: 250 m	Resolution symbol: Y
27.					TIR: 500 m	Resolution symbol: H
28.					TIR: 1000 m	Resolution symbol: K
29.			Nighttime observation	SWI: 1, 2, 4ch: 1000 m 3ch: 250 m	TIR: 250 m	Resolution symbol: Q
30.					TIR: 500 m	Resolution symbol: M
31.					TIR: 1000 m	Resolution symbol: X
32.				SWI: OFF	TIR: 250 m	Resolution symbol: Q
33.					TIR: 500 m	Resolution symbol: H
34.					TIR: 1000 m	Resolution symbol: K

Table 3.6-3 List of Product Types for SGLI Level 1B (1km re-sampling)

No.	Observation data	Processing level	Daytime /Nighttime	Resolution		Note
1.	VNR-NP	Level 1B (1km re-sampling)	Daytime observation	1000 m		Resolution symbol: L
2.			Nighttime observation	OFF		Do not create product
3.	VNR-PL	Level 1B (1km re-sampling)	Daytime observation	1000 m		Do not create product
4.			Nighttime observation	1000 m		Do not create product
5.	IRS (SWI+TIR)	Level 1B (1km re-sampling)	Daytime observation	SWI: 1000 m	TIR: 1000 m	Resolution symbol: L
6.			Nighttime observation	SWI: 1000 m	TIR: 1000 m	Resolution symbol: L

3.6.2 Scene and Range of Product Storage

In a single product, observation data, inclusive of data in the area overlapping with the contiguous scenes, in the AT direction (along track) is stored in one scene, and data within the observation swath width in the CT direction (across track) is stored. However, one scene can be divided into multiple products in the AT direction as described in 3.6.1 .

Details on the range of product storage are described respectively in the following sub-sections for when a scene is divided, and for when a scene is not divided.

(1) When the product of a scene is not divided:

When a scene does not have a product segmentation factor, the data in the area overlapping with the contiguous scenes at both ends of the scene is stored in the product. A schematic view of the range of storage is shown in "Figure 3.6-1".

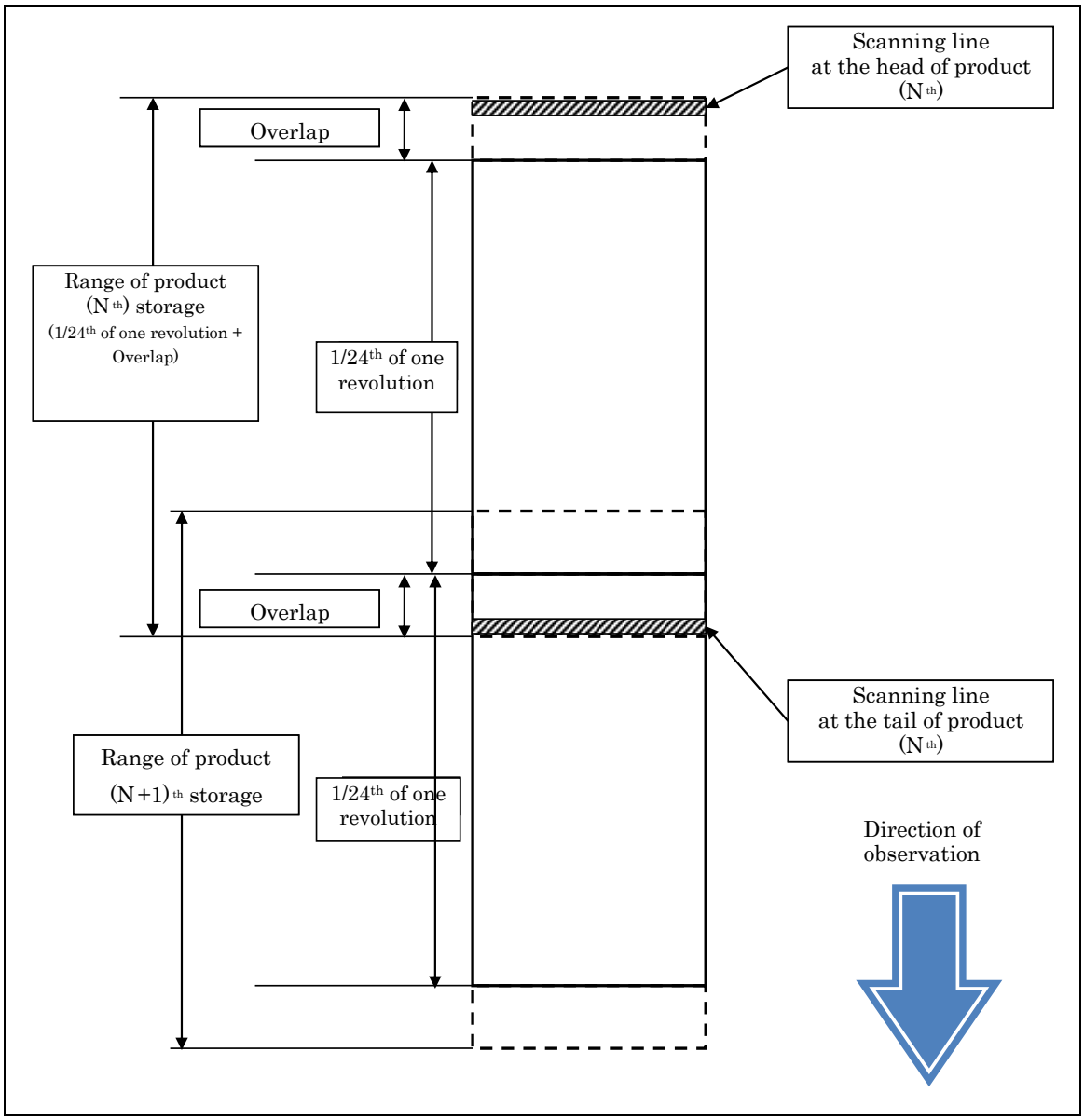


Figure 3.6-1 Range of Product Storage When A Scene is Not Divided

(2) When the product of a scene is divided:

When a scene has a segmentation factor(s), multiple products are created from the scene. When high resolution is switched to low resolution (such as switching from 250 m to 1000 m) in L1B processing, the overlapping in the low resolution area is not added to the product with high resolution. Details are described in the following sub-sections.

(a) In the case of a L1A product:

If a scene is divided due to a change in resolution, overlapping areas will be added to the head and tail of the divided product. A schematic view of the range of storage for a L1A product is shown in "Figure 3.6-2".

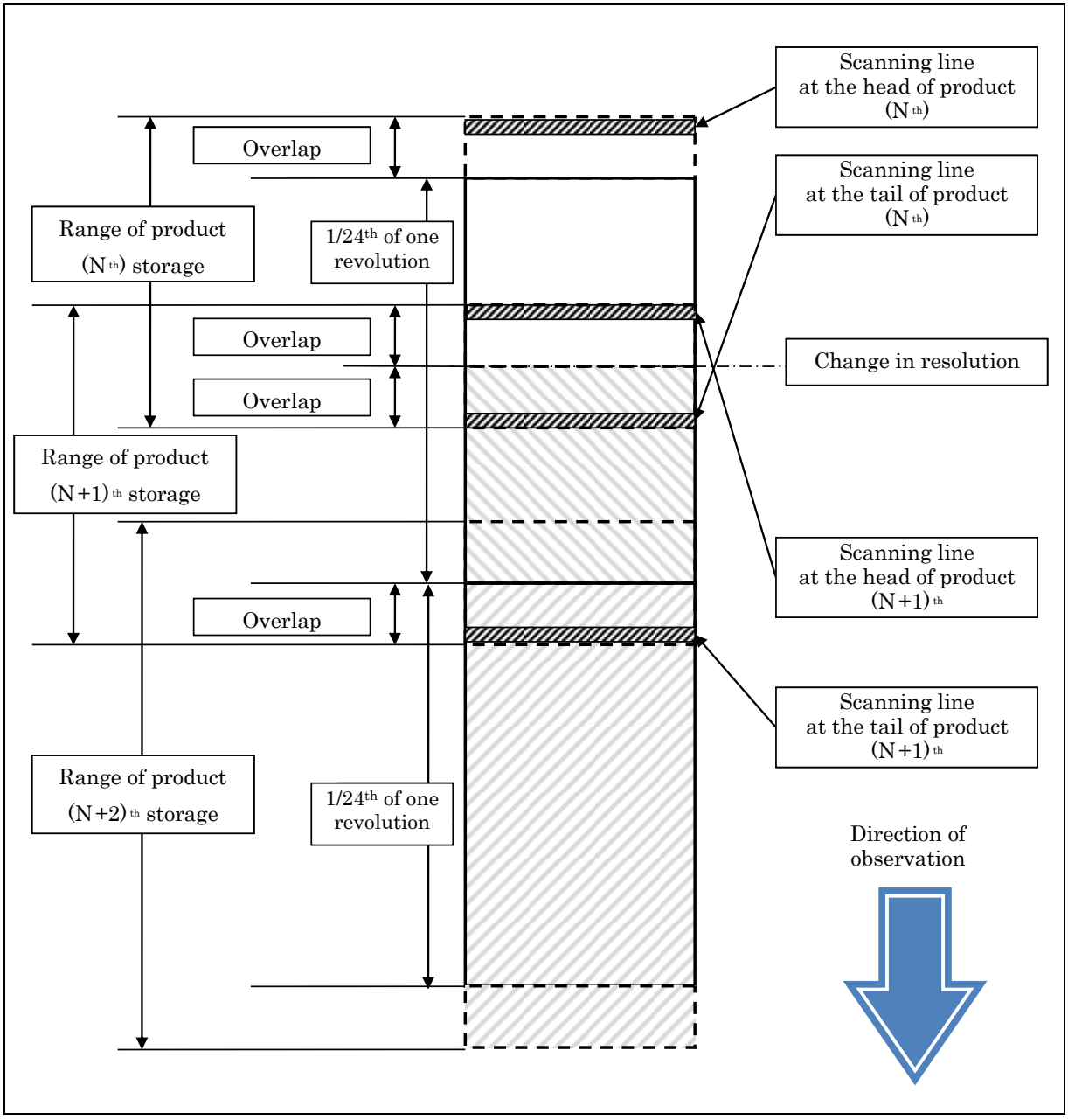


Figure 3.6-2 Range of Product Storage When A Scene is Divided - (L1A Product)

(b) In the case of a L1B product with a segmentation factor due to resolution change

If resolution is changed within a scene, the scene will be divided. After the segmentation, the overlapping area in the low resolution product will not be added to the product with high resolution. The overlapping area in the low resolution product will be re-sampled to low resolution. A schematic view of the range of storage in the above processing for overlapping is shown in "Figure 3.6-3".

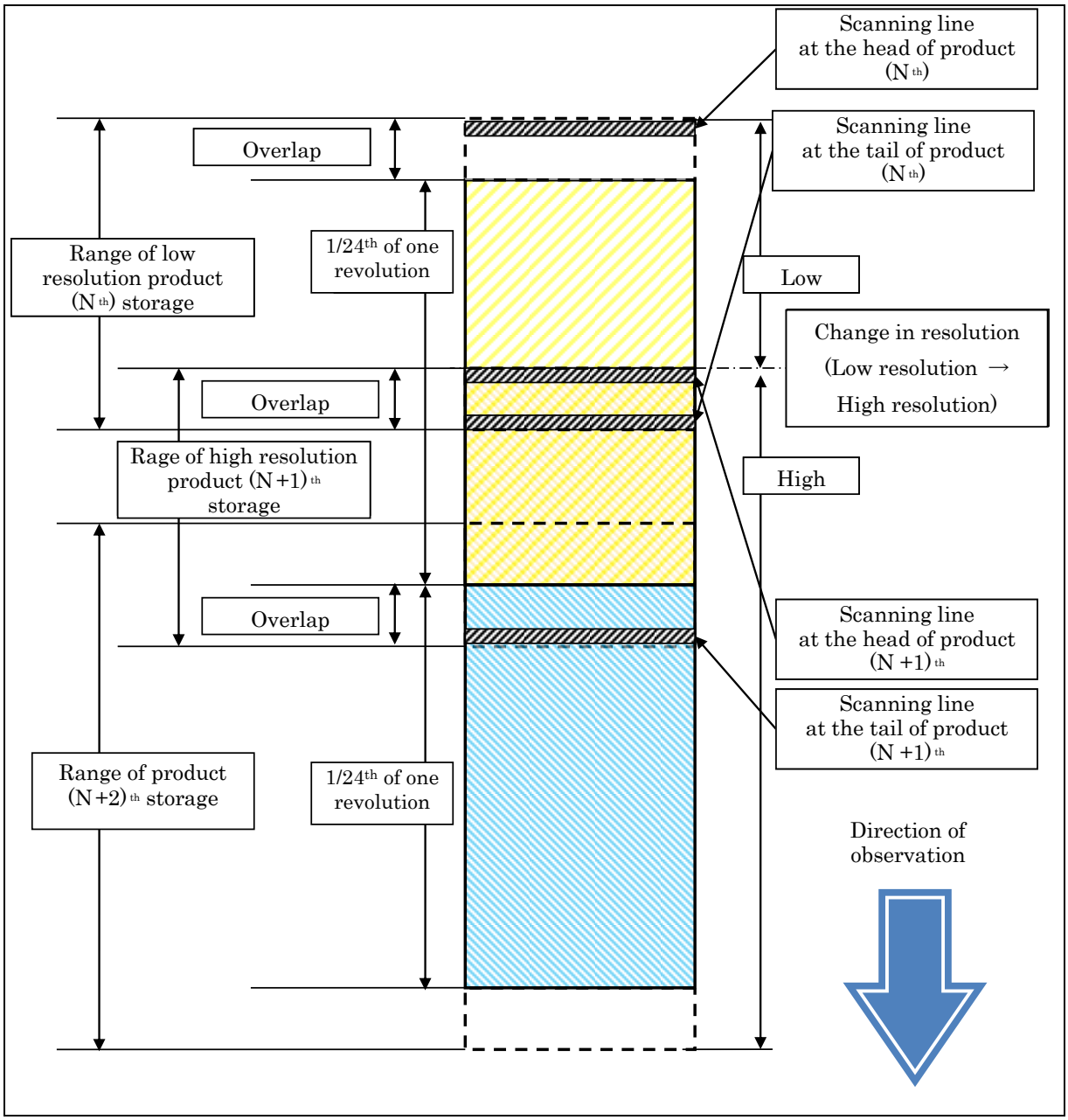


Figure 3.6-3 Range of Product Storage When A Scene is Divided - (Due to Change in Resolution in L1B Product)

3.6.3 Orientation of Images

For both L1A and L1B products, scanning lines of images are always stored in the product sequentially, according to the observation time in ascending order (i.e. a line of images observed earlier is located above a line of images observed later). In other words, the upper side of images is North and the lower side of image is South when images are observed as the satellite makes a descent in its orbit (from North to South). Conversely, the upper side of images is South and the lower side of image is North when images are observed as the satellite makes an ascent in its orbit (from South to North). This description on the orientation of images with respect to the direction of observation is illustrated in "Figure 3.6-4".

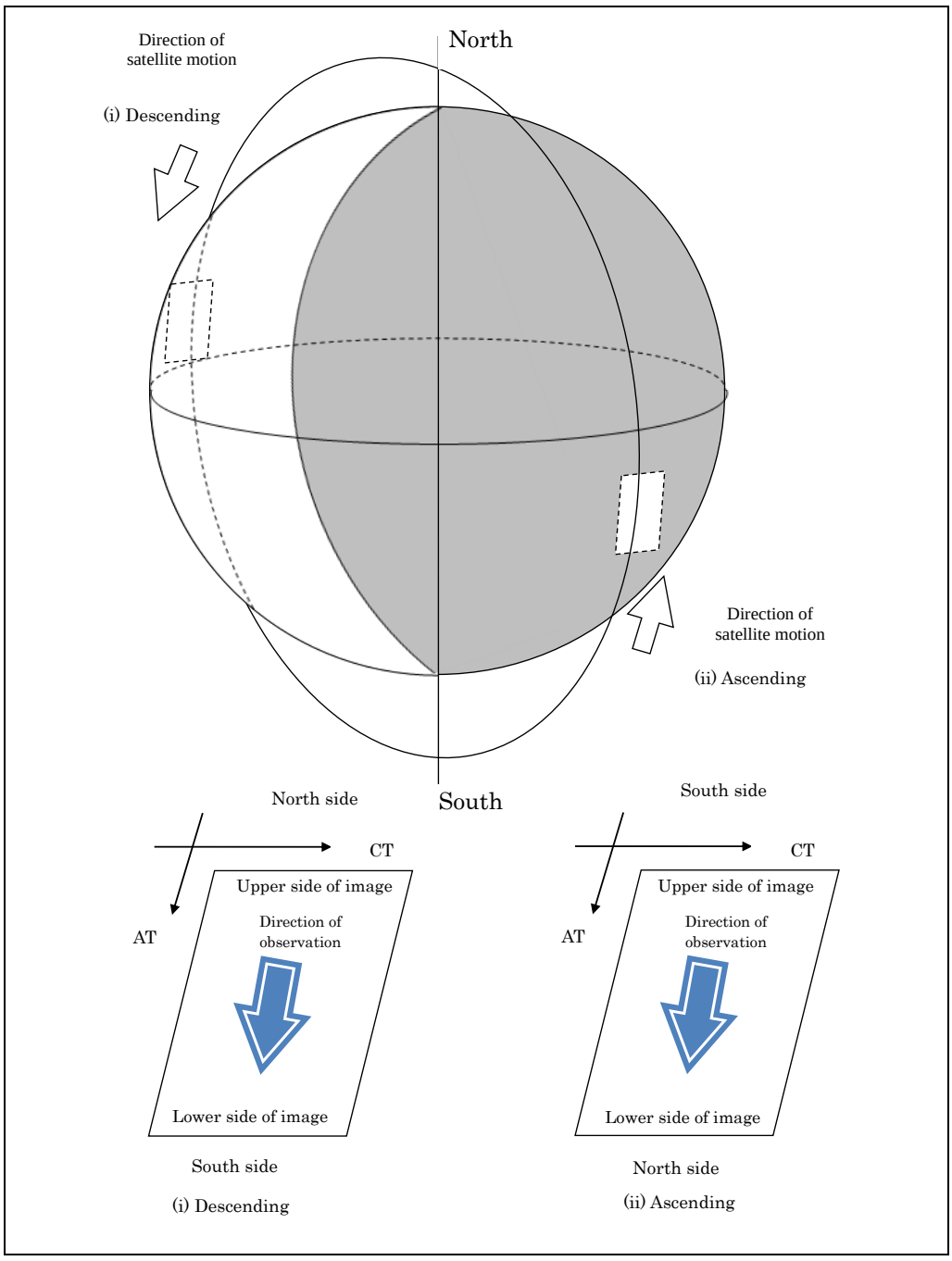


Figure 3.6-4 Relation between Direction of Observation and Orientation of Images

3.6.4 Product Time

The product start and end times are set respectively to the times of the observation start and end lines of a product. Because overlapping area is added to the head and tail of the product, the product start and end times are somewhat different from the ones decided by the ideal boundary of the product, and are used as a part of the product file name.

The time of the product center is set to be the arithmetic average of the product start and end times. The time of the product center line is not always identical to the time of the product center, because the time is discreetly assigned to every line in the product. This discreteness is caused by the imaging period.

3.6.5 The Four Corners of a Product

The positions of the four corners (left, right, top, and bottom corners) are in line with the product orientation of image, described in 3.6.3 .

(1) Latitude and longitude of four corners

The latitude and longitude of the pixel are set up in four corners.

The positions of the four corners of the product are defined in "Table 3.6-4".

Table 3.6-4 Definition of Positions in the Four Corners of a Product

Corner	Definition
Upper left	Far-left pixel on product head line (Upper left corner point of the pixel)
Lower left	Far-left pixel on product tail line (Lower left corner point of the pixel)
Upper right	Far-right pixel on product head line (Upper right corner point of the pixel)
Lower right	Far-right pixel on product tail line (Lower right corner point of the pixel)

(2) Latitude and longitude of center point

The latitude and longitude of the center point of an image in the product are stored. In the image, when a number of pixels in the line (AT) direction and in the pixel (CT) direction are odd numbers, the center pixel of the center scan line is located on the latitude and longitude of the observation position. When either number is even, the pixel number of the image center becomes a real number. Thus, the latitude and longitude of the image center are obtained by linearly interpolating the latitude and longitude of the center pixel surrounding the images. The latitude and longitude of the image center are stored.

3.6.6 Scene Number

The scene number is defined for each revolution, with the ascending node as the start point. The scene number 1 (one) is given to a scene observed for the first time in the revolution, and the number of succeeding scene(s) is counted up one by one.

When one scene is divided into multiple products, products having the same scene number are created because they are derived from the same scene.

3.7 Product File Format

SGLI Level 1 products are created in the HDF5 format. Refer to "The HDF Group (http://www.hdfgroup.org)" for the HDF5 format.

3.7.1 Product File Structure

The structure of the HDF5 file for SGLI Level 1 products is summarized in "Table 3.7-1".

Table 3.7-1 Level 1 Product File Structure

Structure		HDF data model	Description
Header section	Product metadata	Attribute	Information (such as contents of data set, product file name, product level, product name, product version, satellite name, sensor name, and software version) that is inherent to the product is stored in text format.
Header section	Group metadata	Attribute	Information (such as grid spacing, scene information, and data processing) for each group is stored in text format.
Data section	Group data	Data set	The following data is stored in the array structure: - Latitude and longitude of scene - Observation data time - Azimuth angle of sensor and sun - Channel images - Sampling time, etc.
Data section	Group data metadata	Attribute	Information (such as contents of data, spatial resolution, unit, and sampling interval) that is inherent to the group data is stored in text format.

3.7.2 Product File Name

The product file name is composed of the granule ID and extension (.h5). This extension indicates that the file format is HDF5. "Table 3.7-2" and "Table 3.7-3" show the granule IDs related to the SGLI Level 1 product.

Table 3.7-2 Granule ID

ID	SceneID																			ProductID																								
Byte	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
GID	G	C	1	S	G	1	_	Y	Y	Y	Y	M	M	D	D	H	H	m	m	s	P	P	P	S	S	_	L	L	x1	x2	_	K	K	K	m	r	_	a	p	p	p
Setting (Example)	G	C	1	S	G	1	_	2	0	1	1	1	1	1	3	2	3	4	5	A	0	1	2	0	6	_	1	B	S	G	_	I	R	S	N	K	_	z	0	0	1
Item	Satellite (fix)			Sensor (fix)			_	Year				Month		Day		Hour		min		sec	Path*2			Scene *3		–	Level *4		Type *5*6		–	subsystem *7			mode*8		resolution*9		–	Algorithm ver.*10		parameter ver. *11		
								Observation start UT*1																																					

Table 3.7-3 Details on Granule ID Settings

No.	GID	Item	Details	Note
*1.	YYYYMM DDHHmms	Observation start UT	Set the ideal start time of product. As there is some overlap before and after product, it does not match with the time of product start line (UTC time) The number of seconds is expressed by single alphabet.	Table 3.7-4
*2.	PPP	Path	Set the path number. Setting value: 1 to 485	-
*3.	SS	Scene	Set the scene number. Setting value: 1 to 24	-
*4.	LL	Level	Set the processing level. Case of L1A: 1A Case of L1B/L1B (Low resolution resampling) : 1B	-
*5.	x1	Type	Fix to S (standard product)	-
*6.	x2	Type	Set the processing type for each operation. Case of standard processing (global): G Case of near-real-time processing (around Japan): L Case of near-real-time processing (global): N	-
*7.	KKK	subsystem	Set the type of observation data. Case of VNR-NP: VNR Case of VNR-PL: POL Case of IRS (SWIR+TIR): IRS	-
*8.	m	mode	Set the type of daytime/nighttime observation. [Standard product] Case of daytime observation (Day): D Case of nighttime observation (Night): N [Calibration product] Solar calibration: S Internal lamp calibration: L Electrical calibration: E Maneuver: M	To link to VNR sensor's ON/OFF, it may not match with the ground surface status (Daytime/Nighttime) in calibration mode or irregular observation.
*9.	r	resolution	Set the resolution. K: 1000 m L: 1000 m (Low resolution resampling) Q : 250 m Case of IRS, there additional exist four types: H, Y, X, and M.	Table 3.7-5
*10.	a	algorithm ver.	Set the algorithm version. Setting value: 0 to 9, A t Z.	-
*11.	ppp	parameter ver.	Set the parameter version. Setting value: 000～999.	-

Table 3.7-4 List of Granule ID Symbols for Number of Seconds

Symbol for number of seconds	Number of seconds
A	00≤sec<03
B	03≤sec<06
C	06≤sec<09
D	09≤sec<12
E	12≤sec<15
F	15≤sec<18
G	18≤sec<21
H	21≤sec<24
J	24≤sec<27
K	27≤sec<30
L	30≤sec<33
M	33≤sec<36
N	36≤sec<39
P	39≤sec<42
Q	42≤sec<45
R	45≤sec<48
S	48≤sec<51
T	51≤sec<54
U	54≤sec<57
V	57≤sec<60
W	60≤sec<61

Table 3.7-5 List of IRS Granule ID Symbols for Resolution

Resolution Symbol	SWI 1, 2, 4 Resolution	SWI 3 Resolution	TIR Resolution
K	1000 m	1000 m	1000 m
	OFF		1000 m
	1000 m	1000 m	OFF
H	1000 m	1000 m	500 m
	OFF		500 m
Y	1000 m	1000 m	250 m
X	1000 m	250 m	1000 m
M	1000 m	250 m	500 m
Q	1000 m	250 m	250 m
	OFF		250 m
	1000 m	250 m	250 m
L	1000 m	1000 m (Low resolution re-sampling)	1000 m (Low resolution re-sampling)
	1000 m	1000 m (Low resolution re-sampling)	1000 m
	1000 m	1000 m	1000 m (Low resolution re-sampling)

3.8 Coordinate System

Coordinate systems used by items in SGLI Level 1 products are listed in “Table 3.8-1”.

Table 3.8-1 List of Coordinate Systems

No.	Name of coordinate system	Origin and coordinate axis	Related group Related data set	Note
1.	WGS84 Earth-Centered Rotating Coordinate System	Origin: Earth’s center of gravity X axis: Greenwich Meridian on equatorial plane Y axis: Right-handed orthogonal coordinate system - Normal to Z and X axes Z axis: IERS Reference North Pole direction	[Applicable to both L1A and L1B] ・ GPS_pos ・ GPS_vel	Figure 3.8-1
2.	Satellite-Centered Rotating Coordinate System	Origin: Satellite’s center of gravity X axis: Roll axis (Direction of satellite motion) Y axis: Pitch axis (Right-handed orthogonal coordinate system - Normal to Z and X axes) Z axis: Yaw axis (Direction toward Earth's center of gravity)	[Applicable only to L1A] ・ Sensor_pos ・ GPSR_pos [Applicable to both L1A and L1B] ・ Att_error ・ Att_angular_vel	Figure 3.8-2
3.	Sensor Reference Coordinate System (VNR Optical System Reference Coordinate System)	Origin: Alignment cube (for which telescope acts as reference) X axis: Right-handed orthogonal coordinate system - Normal to Z and Y axes Y axis: Direction parallel to CCD line (nominal as designed direction) Z axis: Direction of pointing axis of the center pixel in the optical system (nominal as designed direction)	[Applicable only to L1A] ・ Geo_opt_L ・ Geo_opt_N ・ Geo_opt_R	Figure 3.8-3
4.	Sensor Reference Coordinate System (IRS Optical System Reference Coordinate System)	Origin: Alignment cube (Optical system reference cube) X axis: Direction parallel to rotating axis of the scanning mechanism (nominal as designed direction) Y axis: Right-handed orthogonal coordinate system - Normal to X and Z axes Z axis: Normal to optical bench		Figure 3.8-4
5.	L1B Reference Coordinate System	Origin: Center of pixel in the upper left of image X axis: CT direction of image Y axis: AT direction of image Z axis: Direction opposite to line-of-sight vector toward pixel	[Applicable only to L1B] ・ Image_data Group	Chapter 3.8.1

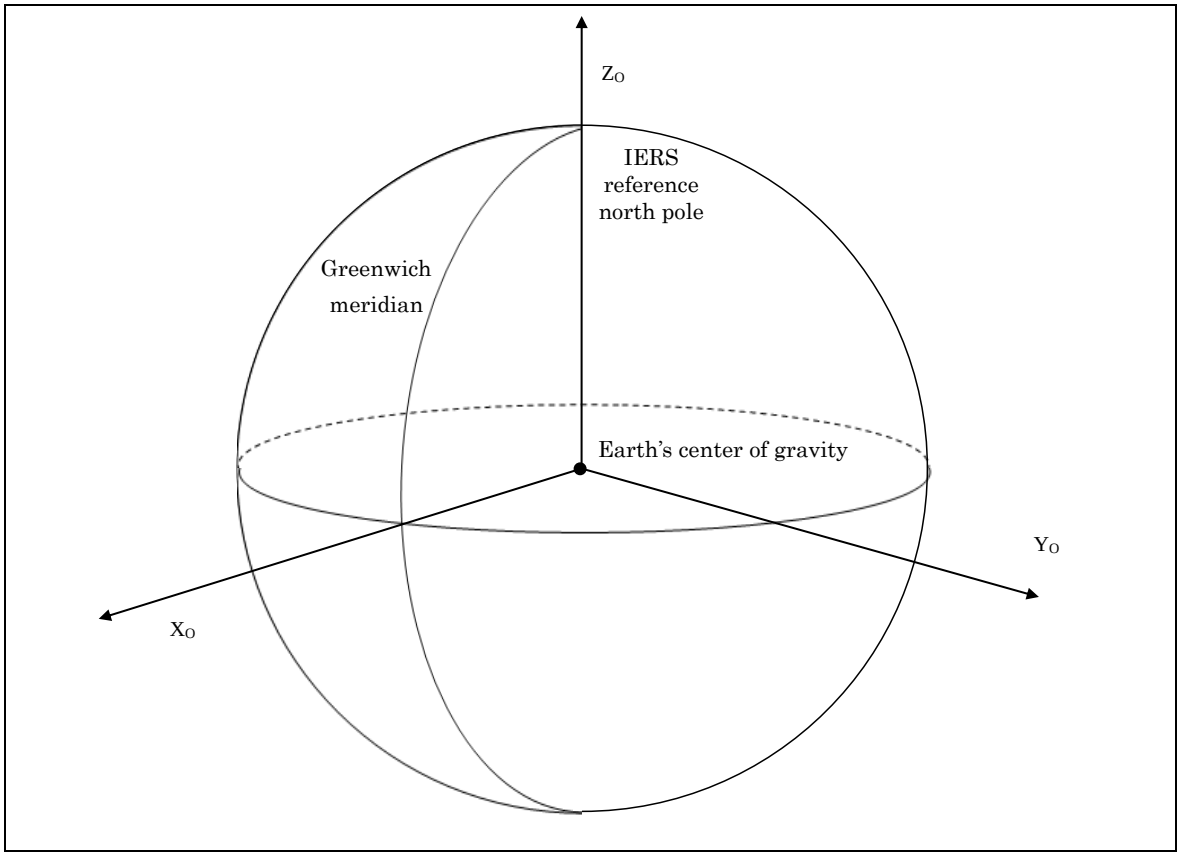


Figure 3.8-1 WGS84 Earth-Centered Rotating Coordinate System

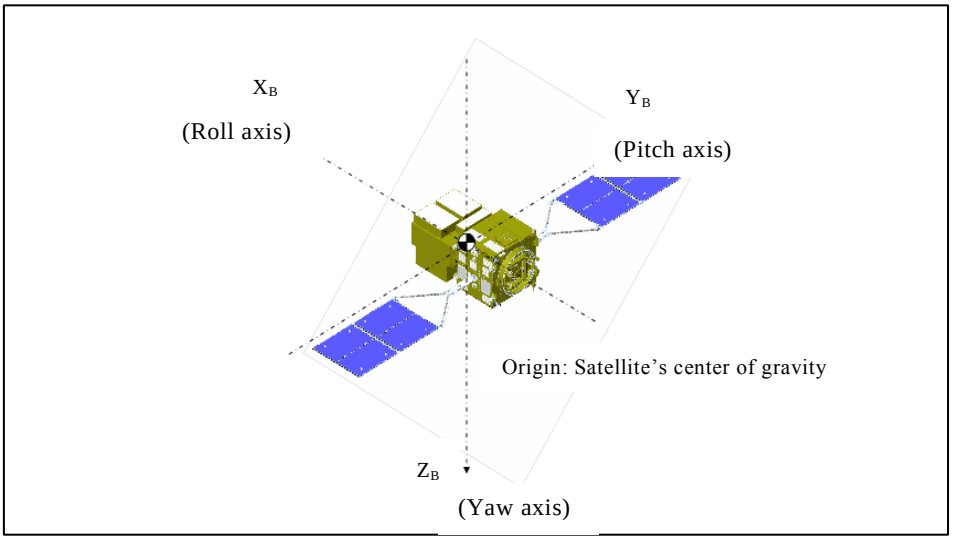


Figure 3.8-2 Satellite-Centered Rotating Coordinate System

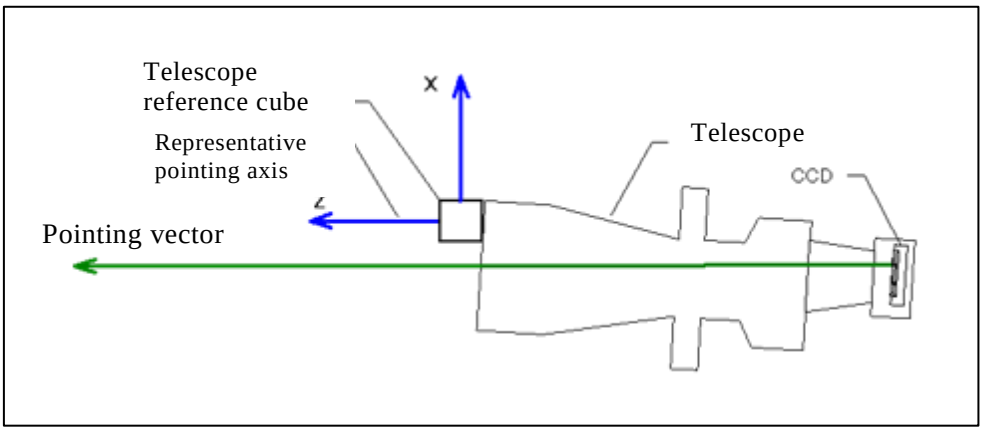


Figure 3.8-3 VNR Optical System Reference Coordinate System

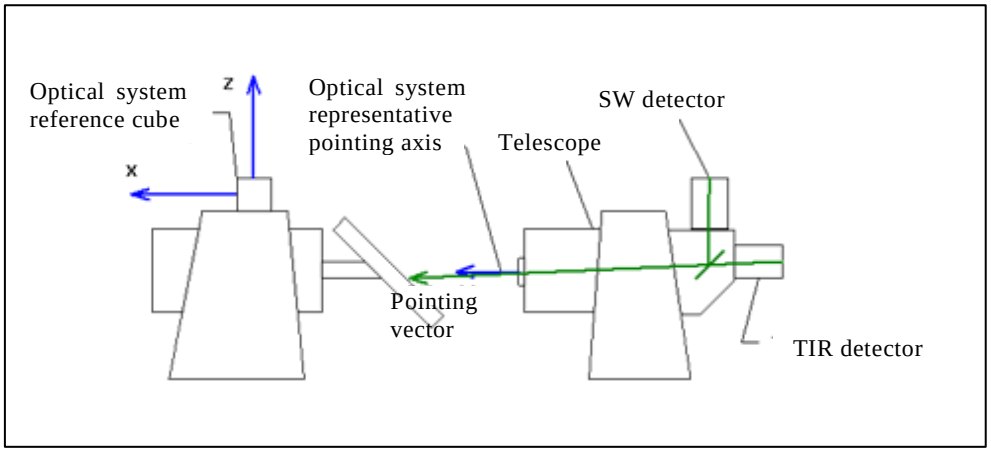


Figure 3.8-4 IRS Optical System Reference Coordinate System

3.8.1 L1B Coordinate System

The spectral radiance on the ground observation plane is projected to the L1B Reference Coordinate System and and is stored in the SGLI Level 1B product data set "Image_data" in the form of a two-dimensional array (referred to as the image hereinafter). The L1B Reference Coordinate System is the system that is defined on the virtual cylindrical plane (L1B virtual frame), the center of which is the satellite orbit. A schematic view of the L1B virtual frame is shown in "Figure 3.8-5".

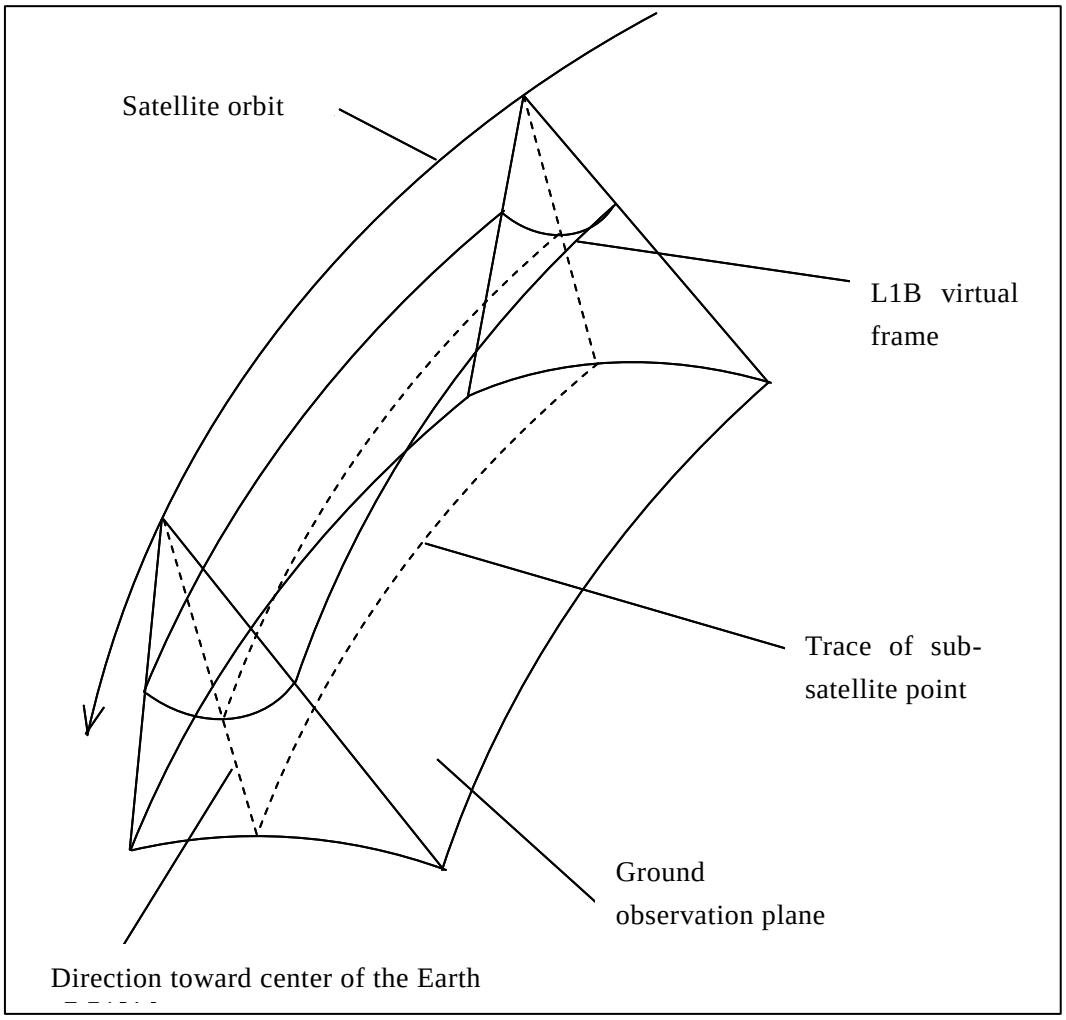


Figure 3.8-5 Virtual Frame, the Center of Which is the Satellite Orbit and on Which Spectral Radiance on the Ground is Projected

X axis of the L1B Reference Coordinate System is the CT direction of the spectral radiance projected on the L1B virtual frame, and the origin of X axis is the end point on the right side (right edge) of the satellite motion. The angle between the line connecting the left edge of the L1B virtual frame with the origin of the satellite orbit, and the line connecting the right edge with the origin of the satellite orbit, is equally divided. This equally divided angle is the unit for the coordinate systems, and its value increases from the right edge to the left edge. The number of divisions of the L1B virtual frame in the CT direction is decided by the observation resolution shown in "Table 3.8-2".

Y axis direction is the AT direction of the spectral radiance projected on the L1B virtual frame, and its origin is the first line of the image stored in each product. The unit for Y axis is the number of observed lines, and its value increases as the observation time of the line increases.

From the above definitions, it is clear that the observation range on the ground covered by one pixel from an image in the L1B Reference Coordinate System is the same in any range along the line direction (Y axis direction). However, the range in its column direction (X axis direction) becomes wider as the range separates further away from the sub-satellite point. A schematic view of the pixel and observation range is shown in “Figure 3.8-6”.

Table 3.8-2 Number of Divisions in CT Direction of L1B Virtual Frame for Each Observation Data Resolution

Resolution	Number of L1B virtual frame divisions
250 m	5000
500 m	2500
1000 m	1250

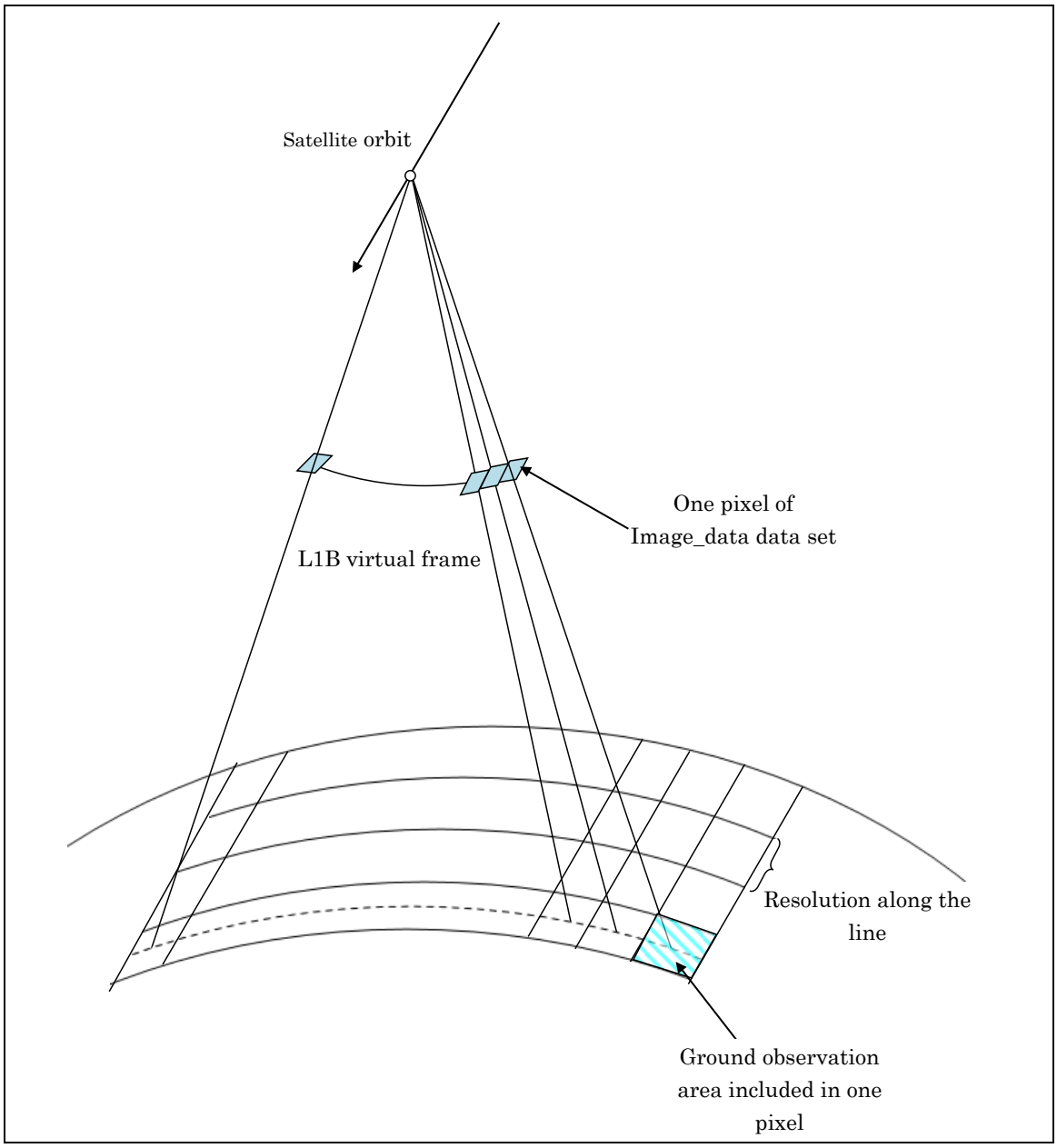


Figure 3.8-6 Observation Range Covered by One Pixel from the Image_data Data Set

3.9 Earth Ellipsoid Model

SGLI Level 1 products use the WGS84 Earth Ellipsoid Model as Earth's ellipsoid model. Specifications of the WGS84 Ellipsoid Model are shown in "Table 3.9-1".

Latitude and longitude included in SGLI Level 1 products are geodetic latitude and longitude at a point 0 m above sea level in the WGS84 Ellipsoid Model.

Table 3.9-1 WGS84 Ellipsoid Model Specifications

Item	Definition
Semi-major axis	6378137.0 m
Semi-minor axis	6356752.314245 m
Inverse of flattening	298.257223563

3.10 Latitude / Longitude

Latitude and longitude included in SGLI Level 1 products are geodetic latitude and longitude at a point 0 m above sea level in the WGS84 Earth Ellipsoid Model described in 3.9 .

The plus (+) signs in the latitude and longitude indicate north latitude and east longitude, and the minus (-) signs indicate south latitude and west longitude. Latitude and longitude have the following ranges:

$$-90[\text{degrees}] \leq \text{Latitude} \leq 90[\text{degrees}]$$

$$-180[\text{degrees}] < \text{Longitude} \leq 180[\text{degrees}]$$

3.11 Time System

In SGLI Level 1 products, items related to time are expressed under the TAI, GPS, or UTC time systems. Definitions of each time system are shown in “Table 3.11-1”.

Table 3.11-1 List of Time Systems

No.	Name of time system	Definition	Related group Related data set	Note
1.	UTC time	Universal Time Coordinated has the following format: YYYYMMDD hh:mm:ss.sss or YYYYMMDD hh:mm:ss	[Applicable to both L1A and L1B] ・Scene start time ・Scene end time ・Scene center time ・Time when satellite passes the ascending node ・Final maneuver start time ・Final maneuver end time ・Time when a product is processed ・Epoch time	-
2.	TAI time	Total accumulated number of seconds since Epoch 1993/1/1 Expressed in seconds	[Applicable only to L1A] ・Scan_start_time_TAI	-
3.	GPS time	Total accumulated number of seconds since Epoch 1980/1/6 Expressed in seconds	[Applicable to both L1A and L1B] ・Navigation_time ・Attitude_time	-

3.12 Surplus Area

Some items in products may not use the entire bit field. For example, only five bits out of eight may be used. In this case, 0 (zero) is input for the bit field that is not used (surplus area).

3.13 Valid Range of Stored Value

When the value that can be stored has valid range, the maximum and minimum limits in the range are described in the attribute field of each data set. Unless otherwise described, the valid range of stored value should be between the maximum and minimum limits. In other cases, the valid range is described in the “Data_description” field of the data set.

3.14 Array

In an array where the dimension is two or more, the out-most dimension is the element in the 0 (zero) dimension.

3.15 Method to Recover Spectral Radiance from SI Value in L1B Product

3.15.1 VNR-NP

3.15.1.1 Outline

The relation between SI (Scaled Integer) value and spectral radiance of the observation data stored in a product is shown in “Figure 3.15.1.1-1”.

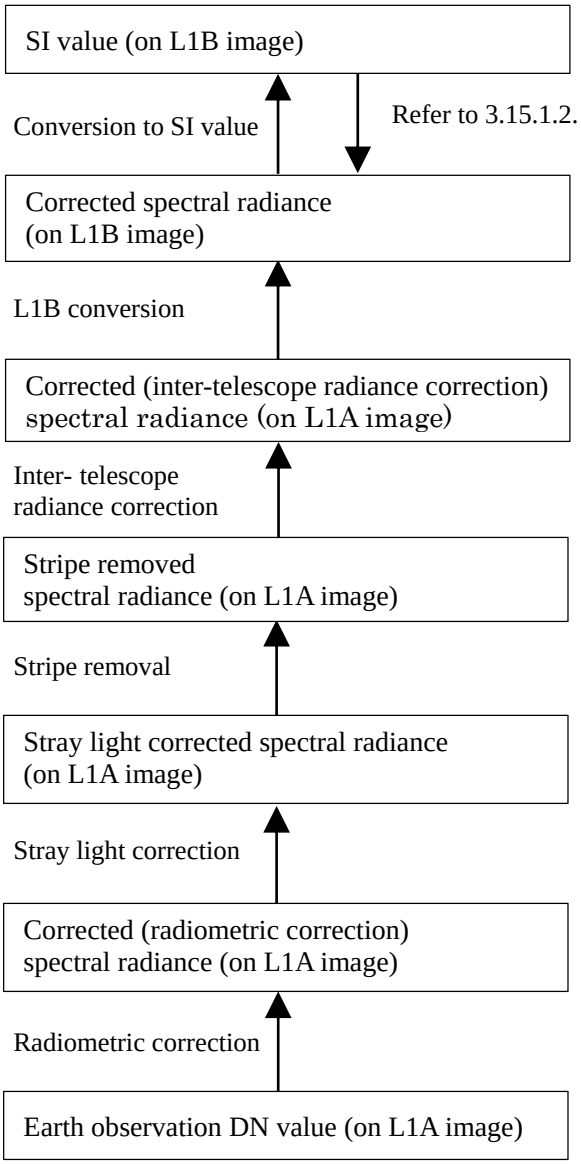


Figure 3.15.1.1-1 Relation between SI Value and Spectral Radiance (VNR-NP)

3.15.1.2 Method to Recover Corrected Spectral Radiance from SI Value

(1) List of variables

Variables used in the recovery are shown in “Table 3.15.1.2-1”.

Table 3.15.1.2-1 List of Variables to Recover Corrected Spectral Radiance from SI Value (VNR-NP)

No.	Input / Output	Symbol	Name	Type/ Remark
1.	Output	$[L_{NP}]_{ch,r,l_B,p_B}$	VNR-NP spectral radiance $[W \cdot \mathrm{sr}^{-1} \cdot m^{-2} \cdot \mu m^{-1}]$	Float
2.	Input	$[SI_{NP}]_{ch,r,l_B,p_B}$	Scaled Integer value of VNR-NP spectral radiance. Stored in a product. I mage_data/Lt_VN**	Int
3.	Input	$[slope_{NP}]_{ch}$	Coefficient used to recover spectral radiance from SI value. Stored in a product. I mage_data/Lt_VN**/slope	Float
4.	Input	$[offset_{NP}]_{ch}$	Coefficient used to recover spectral radiance from SI value. Stored in a product. I mage_data/Lt_VN**/offset	Float

Table 3.15.1.2-2 List of Loop Variables

No.	Symbol	Name	Content
1.	ch	Channel	VN 01…11
2.	r	Resolution	1 km, 250 m
3.	l_B	Scan (Along track direction)	Line number on L1B image. Variable number.
4.	p_B	Pixel (Cross track direction)	Pixel number on L1B image. [1 km] 1…1250 [250 m] 1…5000

(2) Recovery

The equation used to recover spectral radiance ($[L_{NP}]_{ch,r,l_B,p_B}$) from SI value ($[SI_{NP}]_{ch,r,l_B,p_B}$) is shown in Eq. 3.15.1.2-1. Because the upper two bits of SI value ($[SI_{NP}]_{ch,r,l_B,p_B}$ (total bit length is 16 bits)) are flags indicating stray light correction as well as signs for the amount of stray light, mask the SI value with $(3FFF)_h$ (i.e. $(16383)_d$) to extract the lower 14 bits, and then apply the slope and offset (as shown in the next equation).

$$[L_{NP}]_{ch,r,l_B,p_B} = \left[slope_{NP}\right]_{ch} \times ([SI_{NP}]_{ch,r,l_B,p_B} \& \text{3FFF}) + \left[offset_{NP}\right]_{ch} \qquad \text{Eq. 3.15.1.2-1}$$

However, when values remaining after the extraction of the lower 14 bits are $(16383)_d$, it means that the values in 14 bits are missing. If this is the case, the above Eq. 3.15.1.2-1 cannot be used. When values are $(16382)_d$, the above Eq. 3.15.1.2-1 is applicable, but values will be saturated.

3.15.2 VNR-PL

3.15.2.1 Outline

The relation between SI (Scaled Integer) value and spectral radiance of the observation data stored in a product is shown in “Figure 3.15.2.1-1”.

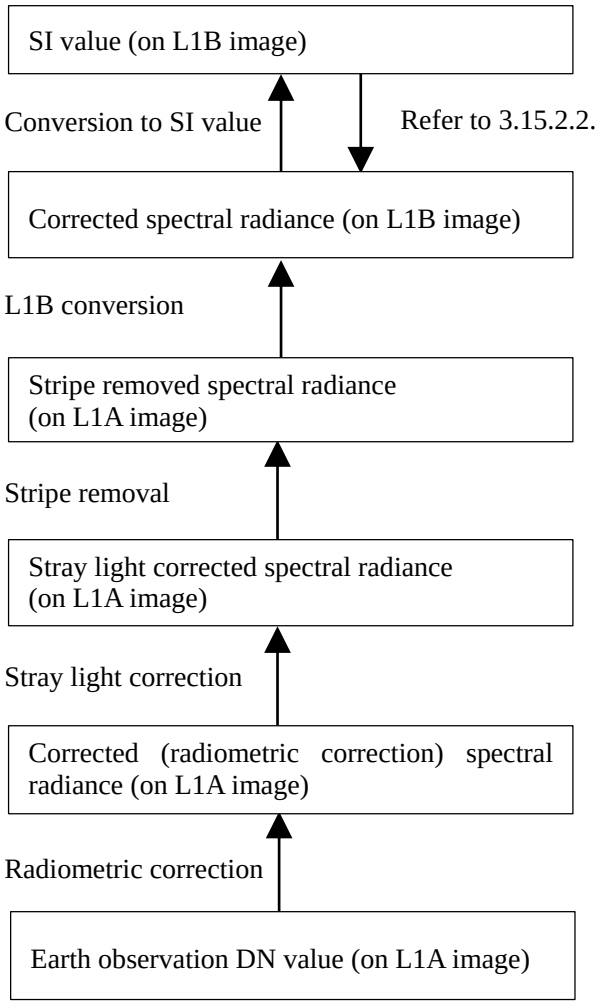


Figure 3.15.2.1-1 Relation between SI Value and Spectral Radiance (VNR-PL)

3.15.2.2 Method to Recover Corrected Spectral Radiance from SI Value

(1) List of variables

Variables used in the recovery are shown in “Table 3.15.1.2-1”.

Table 3.15.2.2-1 List of Variables to Recover Corrected Spectral Radiance from SI Value (VNR-PL)

No.	Input／Output	Symbol	Name	Type/ Remark
1.	Output	$[L_{PL}]_{ch,l_B,p_B}$	VNR-PL spectral radiance $[W \cdot \mathrm{sr}^{-1} \cdot m^{-2} \cdot \mu m^{-1}]$	Float
2.	Input	$[SI_{PL}]_{ch,l_B,p_B}$	Scaled Integer value of VNR-PL spectral radiance. Stored in a product. I mage_data/Lt_VN**	Int
3.	Input	$[slope_{PL}]_{ch}$	Coefficient used to recover spectral radiance from SI value. Stored in a product. I mage_data/Lt_P*/slope	Float
4.	Input	$[offset_{PL}]_{ch}$	Coefficient used to recover spectral radiance from SI value. Stored in a product. I mage_data/Lt_P*/offset	Float

Table 3.15.2.2-2 List of Loop Variables

No.	Symbol	Name	Content
1.	ch	Channel	P1 -60° P2 -60° P1 0° P2 0° P1 +60° P2 +60°
2.	l_B	Scan (Along track direction)	Line number on L1B image. Variable number.
3.	p_B	Pixel (Cross track direction)	Pixel number on L1B image. [1 km] 1…1000

(2) Recovery

The equation used to recover spectral radiance ($[L_{PL}]_{ch,l_B,p_B}$) from SI value ($[SI_{PL}]_{ch,l_B,p_B}$) is shown in Eq. 3.15.2.2-1. Because the upper two bits of SI value ($[SI_{PL}]_{ch,l_B,p_B}$ (total bit length is 16 bits)) are flags indicating stray light correction as well as signs for the amount of stray light, mask the SI value with $(3FFF)_h$ (i.e. $(16383)_d$) to extract the lower 14 bits, and then apply the slope and offset (as shown in the next equation).

$$[L_{PL}]_{ch,l_B,p_B} = \left[slope_{PL}\right]_{ch} \times ([SI_{PL}]_{ch,l_B,p_B} \,\&\, 3FFF) + \left[offset_{PL}\right]_{ch} \qquad \text{Eq. 3.15.2.2-1}$$

However, when values remaining after the extraction of the lower 14 bits are $(16383)_d$, it means that the values in 14 bits are missing. If this is the case, the above Eq. 3.15.2.2-1 cannot be used. When values are $(16382)_d$, the above Eq. 3.15.2.2-1 is applicable, but values will be saturated.

3.15.3 IRS-SWI

3.15.3.1 Outline

The relation between SI (Scaled Integer) value and spectral radiance of the observation data stored in a product is shown in “Figure 3.15.3.1-1”.

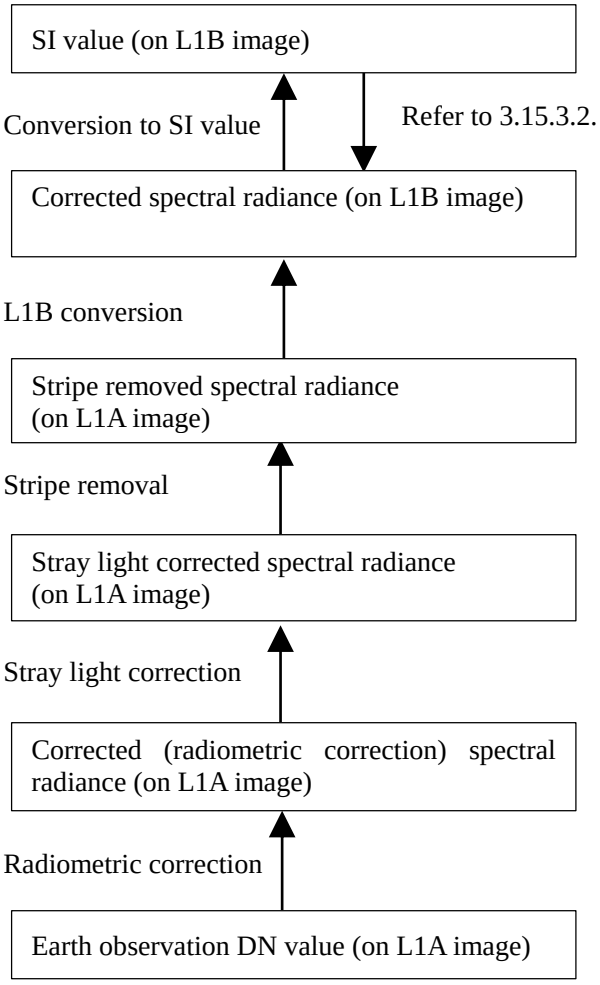


Figure 3.15.3.1-1 Relation between SI Value and Spectral Radiance (IRS-SWI)

3.15.3.2 Method to Recover Corrected Spectral Radiance from SI Value

(1) List of variables

Variables used in the recovery are shown in "Table 3.15.3.2-1".

Table 3.15.3.2-1 List of Variables to Recover Corrected Spectral Radiance from SI Value (IRS-SWI)

No.	Input / Output	Symbol	Name	Type/ Remark
1.	Output	$[L_{SWI}]_{ch,r,l_B,p_B}$	IRS-SWI spectral radiance $[W \cdot \mathrm{sr}^{-1} \cdot m^{-2} \cdot \mu m^{-1}]$	Float
2.	Input	$[SI_{SWI}]_{ch,r,l_B,p_B}$	Scaled Integer value of IRS-SWI spectral radiance. Stored in a product. I mage_data/Lt_SW0*	Int
3.	Input	$[slope_{SWI}]_{ch}$	Coefficient used to recover spectral radiance from SI value. Stored in a product. I mage_data/Lt_SW0*/slope	Float
4.	Input	$[offset_{SWI}]_{ch}$	Coefficient used to recover spectral radiance from SI value. Stored in a product. I mage_data/Lt_SW0*/offset	Float

Table 3.15.3.2-2 List of Loop Variables

No.	Symbol	Name	Content
1.	ch	Channel	SW01, SW02, SW03, SW04
2.	r	Resolution	1 km, 250 m
3.	l_B	Scan (Along track direction)	Line number on L1B image. Variable number.
4.	p_B	Pixel (Cross track direction)	Pixel number on L1B image. [1 km] 1…1250 [250 m] 1…5000

(2) Recovery

The equation used to recover spectral radiance ($[L_{SWI}]_{ch,r,l_B,p_B}$) from SI value ($[SI_{SWI}]_{ch,r,l_B,p_B}$) is shown in Eq. 3.15.3.2-1. Because the upper two bits of SI value ($[SI_{SWI}]_{ch,r,l_B,p_B}$ (total bit length is 16 bits)) are flags indicating stray light correction as well as signs for the amount of stray light, mask the SI value with $(3FFF)_h$ (i.e. $(16383)_d$) to extract the lower 14 bits, and then apply the slope and offset (as shown in the next equation).

$$[L_{SWI}]_{ch,r,l_B,p_B} = \left[slope_{SWI}\right]_{ch} \times ([SI_{SWI}]_{ch,r,l_B,p_B} \,\&\, 3FFF) + \left[offset_{SWI}\right]_{ch} \qquad \text{Eq. 3.15.3.2-1}$$

However, when values remaining after the extraction of the lower 14 bits are $(16383)_d$, it means that the values in 14 bits are missing. If this is the case, the above Eq. 3.15.3.2-1 cannot be used. When values are $(16382)_d$, the above Eq. 3.15.3.2-1 is applicable, but values will be saturated.

3.15.4 IRS-TIR

3.15.4.1 Outline

The relation between SI (Scaled Integer) value and spectral radiance of the observation data stored in a product is shown in “Figure 3.15.4.1-1”.

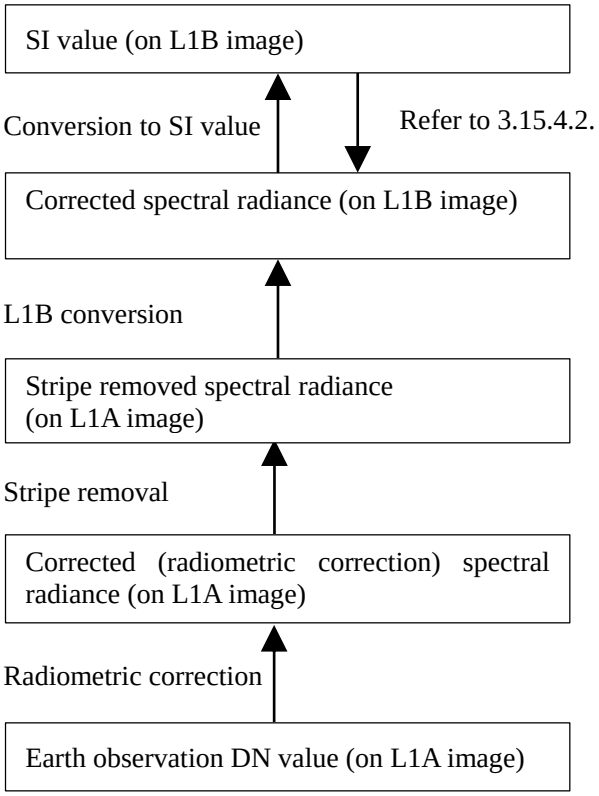


Figure 3.15.4.1-1 Relation between SI Value and Spectral Radiance (IRS-TIR)

3.15.4.2 Method to Recover Corrected Spectral Radiance from SI Value

(1) List of variables

Variables used in the recovery are shown in "Table 3.15.4.2-1".

Table 3.15.4.2-1 List of Variables to Recover Corrected Spectral Radiance from SI Value (IRS-TIR)

No.	Input／Output	Symbol	Name	Type/ Remark
1.	Output	$[L_{TIR}]_{ch,r,l_B,p_B}$	IRS-TIR spectral radiance $[W \cdot \mathrm{sr}^{-1} \cdot m^{-2} \cdot \mu m^{-1}]$	Float
2.	Input	$[SI_{TIR}]_{ch,r,l_B,p_B}$	Scaled Integer value of IRS-TIR spectral radiance. Stored in a product. Image_data/Lt_TI0*	Int
3.	Input	$[slope_{TIR}]_{ch}$	Coefficient used to recover spectral radiance from SI value. Stored in a product. Image_data/Lt_TI0*/slope	Float
4.	Input	$[offset_{TIR}]_{ch}$	Coefficient used to recover spectral radiance from SI value. Stored in a product. Image_data/Lt_TI0*/offset	Float

Table 3.15.4.2-2 List of Loop Variables

No.	Symbol	Name	Content
1.	ch	Channel	TI01, TI02
2.	r	Resolution	1 km, 500 m, 250 m
3.	l_B	Scan (Along track direction)	L1B Line number on L1B image. Variable number.
4.	p_B	Pixel (Cross track direction)	Pixel number on L1B image. [1 km] 1…1250 [500 m] 1…2500 [250 m] 1…5000

(2) Recovery

The equation used to recover spectral radiance ($[L_{TIR}]_{ch,r,l_B,p_B}$) from SI value ($[SI_{TIR}]_{ch,r,l_B,p_B}$) is shown in Eq. 3.15.4.2-1. Because the upper two bits of SI value ($[SI_{TIR}]_{ch,r,l_B,p_B}$ (total bit length is 16 bits)) are flags indicating stray light correction as well as signs for the amount of stray light, mask the SI value with $(3FFF)_h$ (i.e. $(16383)_d$) to extract the lower 14 bits, and then apply the slope and offset (as shown in the next equation).

$$[L_{TIR}]_{ch,r,l_B,p_B} = \left[slope_{TIR}\right]_{ch} \times ([SI_{TIR}]_{ch,r,l_B,p_B} \& \text{3FFF}) + \left[offset_{TIR}\right]_{ch} \qquad \text{Eq. 3.15.4.2-1}$$

However, when values remaining after the extraction of the lower 14 bits are $(16383)_d$, it means that the values in 14 bits are missing. If this is the case, the above Eq. 3.15.4.2-1 cannot be used. When values are $(16382)_d$, the above Eq. 3.15.4.2-1 is applicable, but values will be saturated.

3.16 Source Data of Total Quality

The worst quality selected from the quality data is adopted as the total quality. Each quality data is listed in Table 3.16-1 to Table 3.16-3.

Each quality data is stored in [Global_attributes/Individual_quality_info].

-Definition of [Global_attributes/Individual_quality_info]

Each quality data is given the following identifier corresponding to the result of quality evaluation.

Each identifier is arranged and displayed in [Global_attributes/Individual_quality_info] in order from the top.

<Identifer of the quality data>

Good: G

Fair: F

Poor: P

NG: N

*No evaluation: the item describing as "-" in the list is not output.

In principle, the following conditions are used to evaluate the quality of each quality data.

The condition to be adopted to each quality data is listed in Table 3.16-4

<Evaluation condition of the quality data>

In the following section, quality data related to the mission data is excluded from the evaluation of the total quality.

1. Observation OFF area
2. The value of [/Data_quality_flag/Qf_scan] is "011", "100", and "101".

- Definition of [Data_quality_flag/Qf_scan]

000: Normal line

001: Lack line

011: Lack line (1km/500m->250m or 1km->500m)

100: Lack line (for calibration)

101: Lack line (for synchronization between sensors)

010: Resampling line (250m->1km/500m)

110: Resampling line (500m->1km)

111: Mixed line (000,001,011,100,101,010,110)

*When the section of "001", "011", "100", and ""101" is overlapped each other, the value is stored in [Data_quality_flag/Qf_scan] according to the following priority.

High priority > > > Low priority

"101" > "100" > "011" > "011"

Table 3.16-1 Source Data of the Total Quality (L1A)

			Evaluation for total quality		
No.	Data Name		VNR	POL	IRS
1	/Global_attributes/Missing_lines_rate	Missing lines rate	✓	✓	✓
2	/Global_attributes/Saturated_pixels_rate	Saturated pixels rate	✓	✓	✓
3	/Converted_PCD/AOCS_mode	AOCS(Attitude and Orbit Control System) control mode	✓	✓	✓
4	/Data_quality_flag/Qf_data_filter	Data invalid flag of joint surface on polarization filter	–	✓	–
5	/Data_quality_flag/Qf_GPS	Quality flag of GPS	✓	✓	✓
6	/Data_quality_flag/Qf_sc_position	Quality flag of GCOM-C position	✓	✓	✓
7	/Data_quality_flag/Qf_sc_velocity	Quality flag of GCOM-C velocity	✓	✓	✓
8	/Data_quality_flag/Qf_sc_attitude_quaternion	Quality flag of GCOM-C quaternion	✓	✓	✓
9	/Data_quality_flag/Qf_sc_attitude_eular_angle	Quality flag of GCOM-C eular angle	✓	✓	✓
10	/Data_quality_flag/Qf_sc_status	Quality flag of GCOM-C status	✓	✓	✓
11	/Data_quality_flag/Qf_shutter_set	Quality flag of shutter set	✓	✓	–
12	/Data_quality_flag/Qf_tilt_angle	Quality flag of tilt angle	✓	✓	–
13	/Data_quality_flag/Qf_CCD_temperature_VN	Quality flag of CCD temperature (VNR-NP)	✓	–	–
14	/Data_quality_flag/Qf_CCD_temperature_PL	Quality flag of CCD temperature (VNR-PL)	–	✓	–
15	/Data_quality_flag/Qf_LWIR_temperature	Quality flag of LWIR (TIR) temperature	–	–	✓
16	/Data_quality_flag/Qf_SWIR_temperature	Quality flag of SWIR (SWIR) temperature	–	–	✓
17	/Data_quality_flag/Qf_LED_temperature	Quality flag of LED temperature	–	–	–
18	/Data_quality_flag/Qf_halogen_temperature	Quality flag of Halogen temperature	–	–	–
19	/Data_quality_flag/Qf_blackbody_temperature	Quality flag of Blackbody temperature	–	–	✓
20	/Data_quality_flag/Qf_ASP_temperature	Quality flag of ASP temperature	✓	✓	✓
21	/Data_quality_flag/Qf_sun_monitor_temperature	Quality flag of sun monitor temperature	–	–	–
22	/Data_quality_flag/Qf_diffuser	Quality flag of scatter diffuser angle	✓	✓	–
23	/Data_quality_flag/Qf_preamp_temperature	Quality flag of preamp temperature	–	–	✓
24	/Data_quality_flag/Qf_around_blackbody_temperature	Quality flag of temperature around blackbody	–	–	✓
25	/Data_quality_flag/Qf_moon_interference (/Data_quality_flag/Qf_moon_affect)	Flag of moon affect from deep space window	–	–	✓
26	/Converted_PCD/Orbit_source	Source of orbit	✓	✓	✓
27	/Converted_PCD/Attitude_source	Source of attitude	✓	✓	✓
28	/Global_attributes/Geometric_information_error_rate	Calcurated result error rate of Geometric information	✓	✓	✓

✓: Evaluation item -: No evaluation

Table 3.16-2 Source Data of the Total Quality (L1B)

			Evaluation for total quality		
No.	Data Name		VNR	POL	IRS
1	/Global_attributes/Missing_lines_rate	Missing lines rate	✓	✓	✓
2	/Global_attributes/Saturated_pixels_rate	Saturated pixels rate	✓	✓	✓
3	/Converted_PCD/AOCS_mode	AOCS(Attitude and Orbit Control System) control mode	✓	✓	✓
4	/Data_quality_flag/Qf_data_filter	Data invalid flag of joint surface on polarization filter	–	✓	–
5	/Data_quality_flag/Qf_GPS	Quality flag of GPS	✓	✓	✓
6	/Data_quality_flag/Qf_sc_position	Quality flag of GCOM-C position	✓	✓	✓
7	/Data_quality_flag/Qf_sc_velocity	Quality flag of GCOM-C velocity	✓	✓	✓
8	/Data_quality_flag/Qf_sc_attitude_quaternion	Quality flag of GCOM-C quaternion	✓	✓	✓
9	/Data_quality_flag/Qf_sc_attitude_eular_angle	Quality flag of GCOM-C eular angle	✓	✓	✓
10	/Data_quality_flag/Qf_sc_status	Quality flag of GCOM-C status	✓	✓	✓
11	/Data_quality_flag/Qf_shutter_set	Quality flag of shutter set	✓	✓	–
12	/Data_quality_flag/Qf_tilt_angle	Quality flag of tilt angle	✓	✓	–
13	/Data_quality_flag/Qf_CCD_temperature_VN	Quality flag of CCD temperature (VNR-NP)	✓	✓	–
14	/Data_quality_flag/Qf_CCD_temperature_PL	Quality flag of CCD temperature (VNR-PL)	–	✓	–
15	/Data_quality_flag/Qf_LWIR_temperature	Quality flag of LWIR (TIR) temperature	–	–	✓
16	/Data_quality_flag/Qf_SWIR_temperature	Quality flag of SWIR (SWIR) temperature	–	–	✓
17	/Data_quality_flag/Qf_LED_temperature	Quality flag of LED temperature	–	–	–
18	/Data_quality_flag/Qf_halogen_temperature	Quality flag of Halogen temperature	–	–	–
19	/Data_quality_flag/Qf_blackbody_temperature	Quality flag of Blackbody temperature	–	–	✓
20	/Data_quality_flag/Qf_ASP_temperature	Quality flag of ASP temperature	✓	✓	✓
21	/Data_quality_flag/Qf_sun_monitor_temperature	Quality flag of sun monitor temperature	–	–	–
22	/Data_quality_flag/Qf_diffuser	Quality flag of scatter diffuser angle	✓	✓	–
23	/Data_quality_flag/Qf_preamp_temperature	Quality flag of preamp temperature	–	–	✓
24	/Data_quality_flag/Qf_around_blackbody_temperature	Quality flag of temperature around blackbody	–	–	✓
25	/Data_quality_flag/Qf_moon_interference (/Data_quality_flag/Qf_moon_affect)	Flag of moon affect from deep space window	–	–	✓
26	/Converted_PCD/Orbit_source	Source of orbit	✓	✓	✓
27	/Converted_PCD/Attitude_source	Source of attitude	✓	✓	✓
28	/Global_attributes/Geometric_information_error_rate	Calcurated result error rate of Geometric information	✓	✓	✓

✓: Evaluation item -: No evaluation

Table 3.16-3 Source Data of the Total Quality (CAL)

			Evaluation for total quality
No.	Data Name		Common
1	/Global_attributes/Missing_lines_rate	Missing lines rate	✓
2	/Global_attributes/Saturated_pixels_rate	Saturated pixels rate	✓
3	/Converted_PCD/AOCS_mode	AOCS(Attitude and Orbit Control System) control mode	–
4	/Data_quality_flag/Qf_data_filter	Data invalid flag of joint surface on polarization filter	–
5	/Data_quality_flag/Qf_GPS	Quality flag of GPS	✓
6	/Data_quality_flag/Qf_sc_position	Quality flag of GCOM-C position	✓
7	/Data_quality_flag/Qf_sc_velocity	Quality flag of GCOM-C velocity	✓
8	/Data_quality_flag/Qf_sc_attitude_quaternion	Quality flag of GCOM-C quaternion	✓
9	/Data_quality_flag/Qf_sc_attitude_eular_angle	Quality flag of GCOM-C eular angle	✓
10	/Data_quality_flag/Qf_sc_status	Quality flag of GCOM-C status	✓
11	/Data_quality_flag/Qf_shutter_set	Quality flag of shutter set	–
12	/Data_quality_flag/Qf_tilt_angle	Quality flag of tilt angle	✓
13	/Data_quality_flag/Qf_CCD_temperature_VN	Quality flag of CCD temperature (VNR-NP)	–
14	/Data_quality_flag/Qf_CCD_temperature_PL	Quality flag of CCD temperature (VNR-PL)	✓
15	/Data_quality_flag/Qf_LWIR_temperature	Quality flag of LWIR (TIR) temperature	–
16	/Data_quality_flag/Qf_SWIR_temperature	Quality flag of SWIR (SWIR) temperature	–
17	/Data_quality_flag/Qf_LED_temperature	Quality flag of LED temperature	✓
18	/Data_quality_flag/Qf_halogen_temperature	Quality flag of Halogen temperature	–
19	/Data_quality_flag/Qf_blackbody_temperature	Quality flag of Blackbody temperature	–
20	/Data_quality_flag/Qf_ASP_temperature	Quality flag of ASP temperature	✓
21	/Data_quality_flag/Qf_sun_monitor_temperature	Quality flag of sun monitor temperature	✓
22	/Data_quality_flag/Qf_diffuser	Quality flag of scatter diffuser angle	✓
23	/Data_quality_flag/Qf_preamp_temperature	Quality flag of preamp temperature	–
24	/Data_quality_flag/Qf_around_blackbody_temperature	Quality flag of temperature around blackbody	–
25	/Data_quality_flag/Qf_moon_interference (/Data_quality_flag/Qf_moon_affect)	Flag of moon affect from deep space window	–
26	/Converted_PCD/Orbit_source	Source of orbit	✓
27	/Converted_PCD/Attitude_source	Source of attitude	✓
28	/Global_attributes/Geometric_information_error_rate	Calcurated result error rate of Geometric information	–

✓: Evaluation item -: No evaluation

Table 3.16-4 Excluded Section from the Quality Evaluation for Each Quality Data

No.	Data Name		Section excluded from quality evaluation			
			Observation OFF	The value of Qf_scan		
				011	100	101
1	/Global_attributes/Missing_lines_rate	Missing lines rate	✓	✓	✓	✓
2	/Global_attributes/Saturated_pixels_rate	Saturated pixels rate	✓	✓	✓	✓
3	/Converted_PCD/AOCS_mode	AOCS(Attitude and Orbit Control System) control mode	✓	–	–	–
4	/Data_quality_flag/Qf_data_filter	Data invalid flag of joint surface on polarization filter	–	–	–	–
5	/Data_quality_flag/Qf_GPS	Quality flag of GPS	✓	–	–	–
6	/Data_quality_flag/Qf_sc_position	Quality flag of GCOM-C position	✓	–	–	–
7	/Data_quality_flag/Qf_sc_velocity	Quality flag of GCOM-C velocity	✓	–	–	–
8	/Data_quality_flag/Qf_sc_attitude_quaternion	Quality flag of GCOM-C quaternion	✓	–	–	–
9	/Data_quality_flag/Qf_sc_attitude_eular_angle	Quality flag of GCOM-C eular angle	✓	–	–	–
10	/Data_quality_flag/Qf_sc_status	Quality flag of GCOM-C status	–	–	–	–
11	/Data_quality_flag/Qf_shutter_set	Quality flag of shutter set	✓	✓	✓	✓
12	/Data_quality_flag/Qf_tilt_angle	Quality flag of tilt angle	✓	✓	✓	✓
13	/Data_quality_flag/Qf_CCD_temperature_VN	Quality flag of CCD temperature (VNR-NP)	✓	✓	✓	✓
14	/Data_quality_flag/Qf_CCD_temperature_PL	Quality flag of CCD temperature (VNR-PL)	✓	✓	✓	✓
15	/Data_quality_flag/Qf_LWIR_temperature	Quality flag of LWIR (TIR) temperature	✓	✓	✓	✓
16	/Data_quality_flag/Qf_SWIR_temperature	Quality flag of SWIR (SWIR) temperature	✓	✓	✓	✓
17	/Data_quality_flag/Qf_LED_temperature	Quality flag of LED temperature	✓	✓	✓	✓
18	/Data_quality_flag/Qf_halogen_temperature	Quality flag of Halogen temperature	✓	✓	✓	✓
19	/Data_quality_flag/Qf_blackbody_temperature	Quality flag of Blackbody temperature	✓	✓	✓	✓
20	/Data_quality_flag/Qf_ASP_temperature	Quality flag of ASP temperature	✓	✓	✓	✓
21	/Data_quality_flag/Qf_sun_monitor_temperature	Quality flag of sun monitor temperature	✓	✓	✓	✓
22	/Data_quality_flag/Qf_diffuser	Quality flag of scatter diffuser angle	✓	✓	✓	✓
23	/Data_quality_flag/Qf_preamp_temperature	Quality flag of preamp temperature	✓	✓	✓	✓
24	/Data_quality_flag/Qf_around_blackbody_temperature	Quality flag of temperature around blackbody	✓	✓	✓	✓
25	/Data_quality_flag/Qf_moon_interference(/Data_quality_flag/Qf_moon_affect)	Flag of moon affect from deep space window	✓	✓	✓	✓
26	/Converted_PCD/Orbit_source	Source of orbit	–	–	–	–
27	/Converted_PCD/Attitude_source	Source of attitude	–	–	–	–
28	/Global_attributes/Geometric_information_error_rate	Calcurated result error rate of Geometric information	–	–	–	–

✓: Excluded section -: Not excluded

4 Level 1A Product

4.1 Outline

Raw data (DN value), the data from the satellite that is subjected to Level 1 processing described in Chapter 3.2 , and the product appended with various information about the raw data are defined as Level 1A products.

4.2 Details of Product

4.2.1 VNR-NP

4.2.1.1 List of Settings

Refer to Attached Sheet_L1 Product Format Data Set List

4.2.1.2 Special Remarks on Settings

4.2.1.2.1 Geo metry_data

(1) Grid point data

Some of the items in Geometry_data such as latitude and longitude of an image are thinned in a grid pattern, and the values after this data thinning are stored. The thinning starts from the pixel at the upper left corner of the image, and is carried out at intervals of equal numbers of pixels. When the size of the image cannot be divided evenly by a grid point interval, the grid points at the right and bottom edges become the data points outside of the product image. A schematic view of the grid point definition is shown in "Figure 4.2-1".

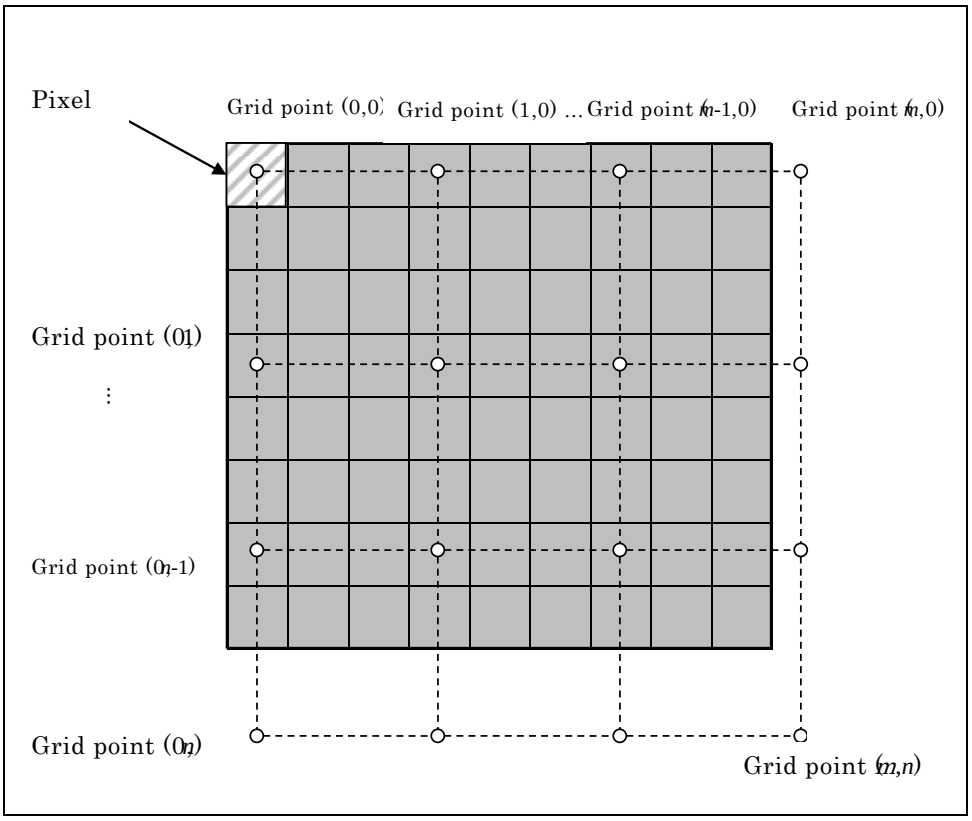


Figure 4.2-1 Determination of Grid in Geometry_data

(2) Azimuth angle and zenith angle

The Sun's azimuth angle (Solar Azimuth) is an angle formed by a vector from the origin of satellite coordinates to the Y axis, and a vector from the origin of satellite coordinates to the Sun. It is measured clockwise from the positive Y axis and defined to have the following range:

$$-180[\text{degrees}] < \text{Solar Azi muth} \leq 180[\text{degrees}]$$

The Sun's zenith angle (Solar Zenith) is an angle formed by a vector from the origin of satellite coordinates to the Z axis, and a vector from the origin of satellite coordinates to the Sun. It is an angle measured from the negative Z axis and defined to have the following range:

$$0[\text{degrees}] \leq \text{Solar Zenith} \leq 180[\text{degrees}]$$

The same definition is given to the Moon's azimuth angle (Moon Azimuth) and the Moon's zenith angle (Moon Zenith).

Schematic views of the azimuth angle and the zenith angle are shown in "Figure 4.2-2" and "Figure 4.2-3" respectively.

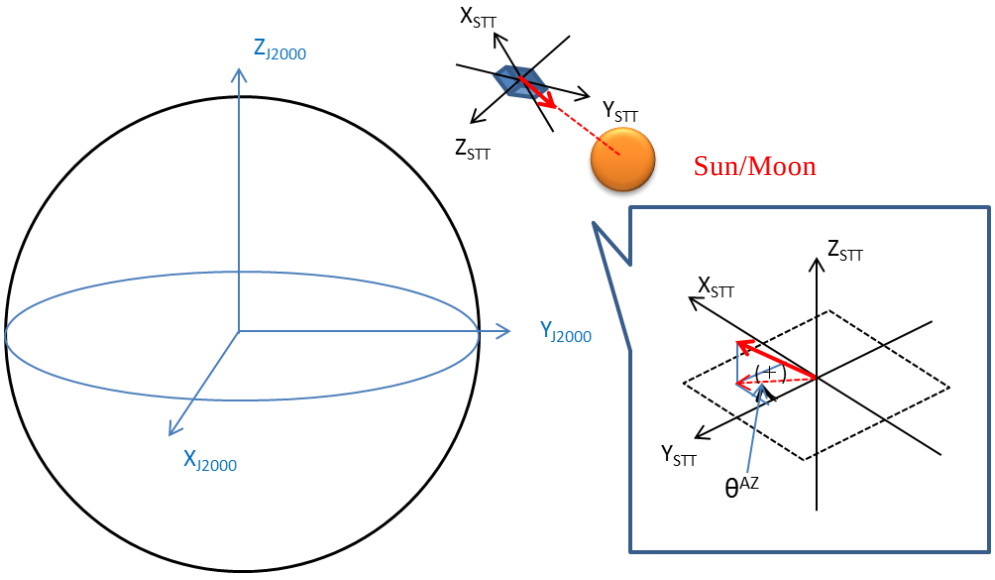


Figure 4.2-2 Definition of Azimuth Angle

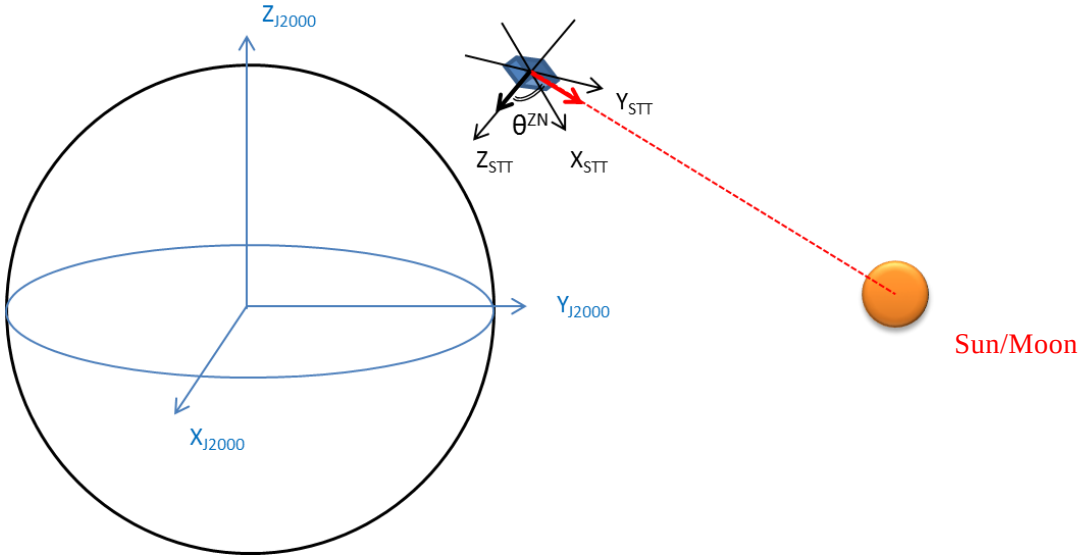


Figure 4.2-3 Definition of Zenith Angle

4.2.2 VNR-PL

4.2.2.1 List of Settings

Refer to Attached Sheet_L1 Product Format Data Set List

4.2.2.2 Special Remarks on Settings

4.2.2.2.1 Geo metry_data

Refer to 4.2.1.2.1.

4.2.3 IRS

4.2.3.1 List of Settings

Refer to Attached Sheet_L1 Product Format Data Set List

4.2.3.2 Special Remarks on Settings

4.2.3.2.1 Geo metry_data

(1) Grid point data

Refer to 4.2.1.2.1(1) .

(2) Azimuth Angle and Zenith Angle

Refer to 4.2.1.2.1(2) .

(3) Angle subtended by moon vector and satellite Y axis

The angle formed by a vector from the origin of satellite coordinates to the Moon and the satellite Y axis is defined to have the following range:

$$0[\text{degrees}] \leq \text{Angle} \leq 180[\text{degrees}]$$

A schematic view of the subtended angle between the moon vector and the satellite Y axis is shown in “Figure 4.2-4”.

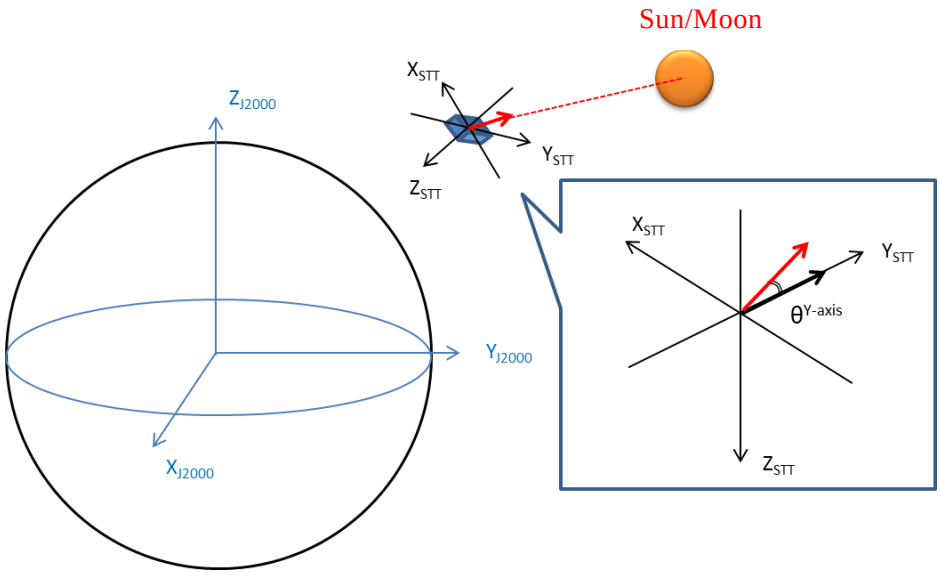


Figure 4.2-4 Definition of Subtended Angle between Moon Vector and Satellite Y Axis

5 Level 1B Product

5.1 Outline

Spectral radiance (image data), the Level 1A product information subjected to Level 1B processing as described in Chapter 3.2 , and the product appended with various information about the spectral radiance are defined as Level 1B products.

5.2 Details of Product

5.2.1 VNR-NP

5.2.1.1 List of Settings

Refer to Attached Sheet_L1 Product Format Data Set List

5.2.1.2 Special Remarks on Settings

5.2.1.2.1 Geo metry_data

(1) Grid point data

Some of the items in Geometry_data such as latitude and longitude of a Level 1B image are thinned in a grid pattern, and the values after this data thinning are stored. The thinning is carried out in a way similar to the thinning of a Level 1A product. However, the pixel from which thinning starts and the number of pixels between one grid point to the next are those of a Level 1B image. Refer to 4.2.1.2.1 for details.

(2) Azimuth angle and zenith angle

Sensor azimuth angle (Sensor Azimuth) is the angle formed by a vector from the observation point on the tangential plane at each observation point towards the North, and a vector from the observation point to the sensor focal point (inverse of line of sight vector). It is measured clockwise from the true North and defined to have the following range:

$$-180[\text{degrees}] \leq \text{Sensor Azi muth} < +180[\text{degrees}]$$

The sensor zenith angle (Sensor Zenith) is the absolute value of an angle formed by a vertical line from the observation point, and a vector from the observation point to the sensor focal point.

The Sun’s azimuth angle (Solar Azimuth) and the Sun’s zenith angle (Solar Zenith) are for the sensor azimuth and zenith angles, where the vector from the observation point to the sensor focal point in the definition is replaced by the Sun’s position vector. Note that the Sun’s zenith angle during the nighttime observation has a range of 90 [degrees] to 180 [degrees].

A schematic view of the azimuth angle and the zenith angle is shown in “Figure 5.2-1”.

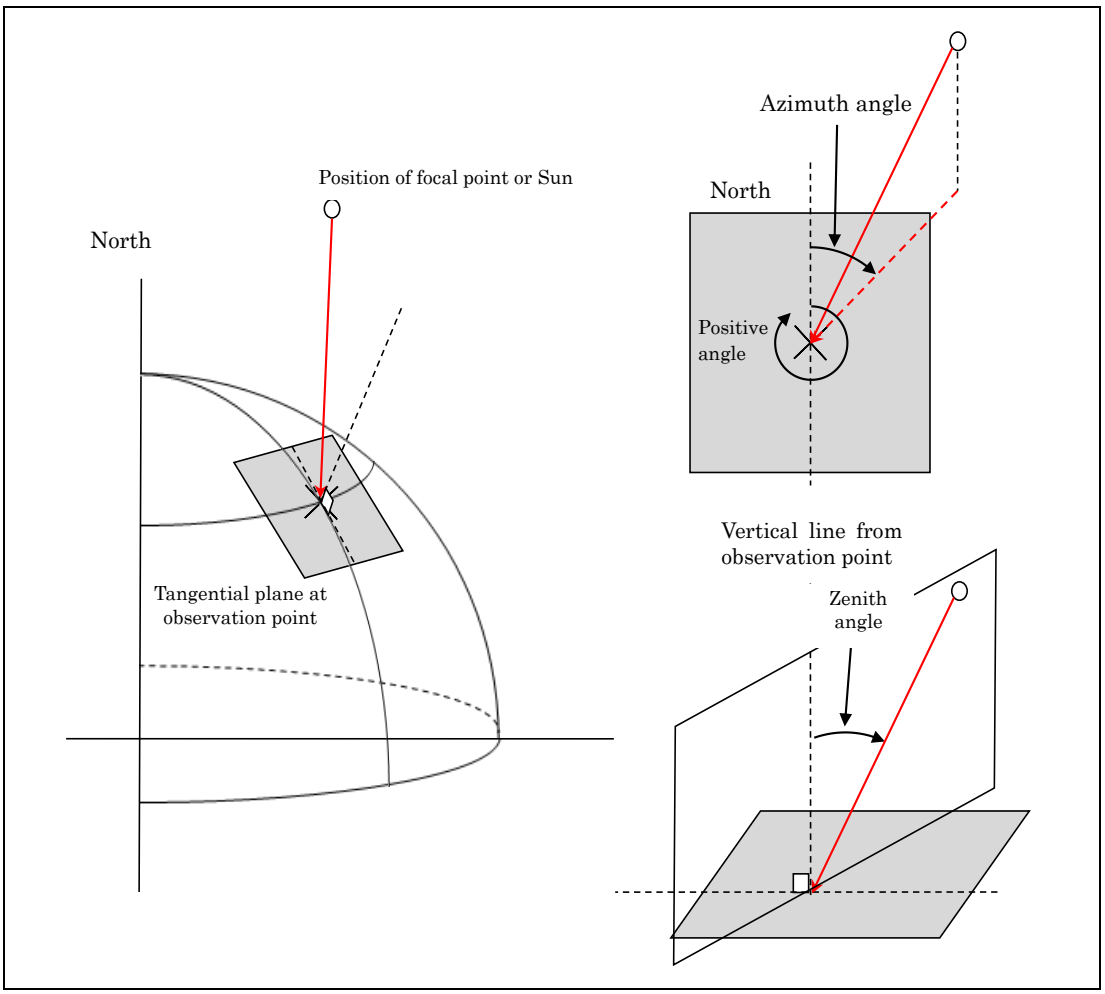


Figure 5.2-1 Definition of Azimuth Angle and Zenith Angle

5.2.1.2.2 I mage_data

(1) Land/Water flag

In the SGLI Level 1B product, the ratio of land area in every pixel is stored as the land/water flag. The frame of a square is defined based on the latitude/longitude at the center of a pixel, and the ratio of land area within the frame is calculated and stored. In the pixel, displacement of position due to differences in sea level is corrected. The frame of the square is equivalent to the footprint of every pixel (and both sides of the square are equivalent to the resolution when the center of the pixel is on the sub-satellite point).

5.2.2 VNR-PL

5.2.2.1 List of Settings

Refer to Attached Sheet_L1 Product Format Data Set List

5.2.2.2 Special Remarks on Settings

5.2.2.2.1 Geo metry_data

Refer to 5.2.1.2.1.

5.2.2.2.2 I mage_data

Refer to 5.2.1.2.2.

5.2.3 IRS

5.2.3.1 List of Settings

Refer to Attached Sheet_L1 Product Format Data Set List

5.2.3.2 Special Remarks on Settings

5.2.3.2.1 Geometry_data

Refer to 5.2.1.2.1.

5.2.3.2.2 Image_data

Refer to 5.2.1.2.2

6 Level 1B Product (1km re-sampling)

6.1 Outline

Level 1B products re-sampled at a 1 km interval on the ground, as described in Chapter 3.2 and the product, the image data of which is re-sampled to low resolution, are defined as Level 1B products (re-sampling at 1 km interval on the ground).

Because the resolution of VNR-PL is limited only to low resolution (1000 m), a Level 1B product (re-sampling at 1 km interval on the ground) is not created.

6.2 Details of Product

6.2.1 VNR-NP

6.2.1.1 List of Settings

Refer to Attached Sheet_L1 Product Format Data Set List

6.2.1.2 Special Remarks on Settings

Settings of a VNR-NP Level 1B product (1km re-sampling) are, except for the Image_data data set, identical to those of a L1B product. Refer to Chapter 5.2.1.2 .

6.2.2 VNR-PL

Do not create a VNR-PL Level 1B product (1km re-sampling).

6.2.3 IRS

6.2.3.1 List of Settings

Refer to Attached Sheet_L1 Product Format Data Set List.

6.2.3.2 Special Remarks on Settings

Settings of an IRS Level 1B product (1km re-sampling) are, except for the Image_data data set, identical to those of a L1B product. Refer to Chapter 5.2.3.2 .

6.2.4 Special Remarks

6.2.4.1 Filling from Low Resolution Product

When low resolution observation data is included within the product, a high resolution Level 1B product outputs the invalid value in the area that is observed with low resolution. On the other hand, when high resolution observation data is included within the product, a low resolution Level 1B product does not output the invalid value, but outputs high resolution observation data that is downsampled to low resolution.

Thus, when there is a low resolution product for which observation time overlaps in a Level 1B product (1km re-sampling), the area being overlapped with the contiguous product is filled by the product with low resolution.

A schematic view of product filling with a low resolution product is shown in "Figure 6.2-1".

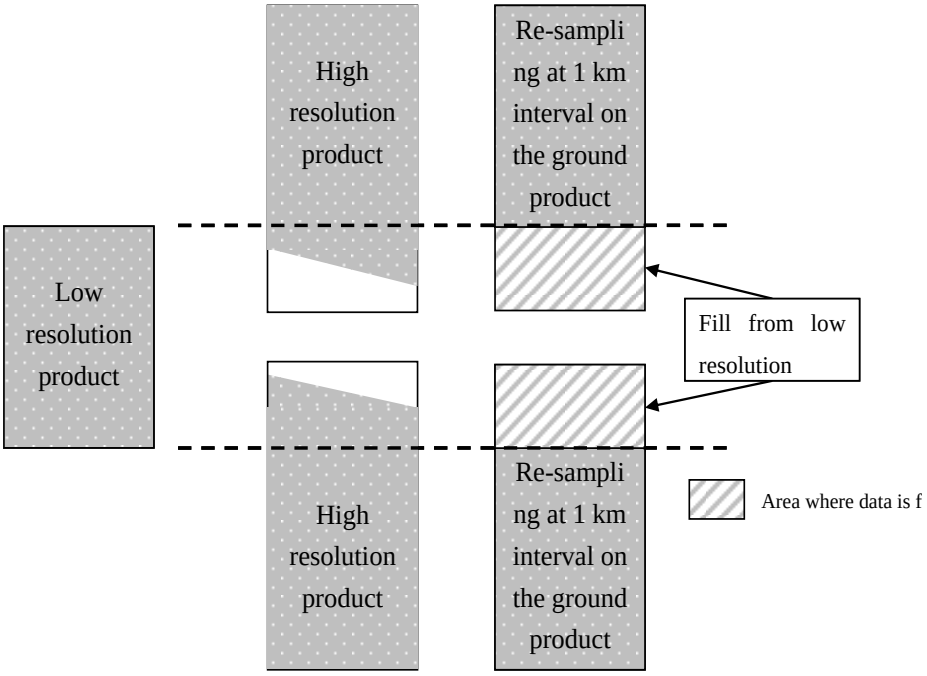


Figure 6.2-1 Example of Filling with Low Resolution Product

7 Constraints

7.1 Differences in Product due to Difference in Processing Type

SGLI products are divided into standard processing and near-real-time processing depending on the time Level 1 processing is carried out. The differences among these two types of processing are described in the following subparagraphs.

Note that it is possible to know with the Granule ID which type of processing is used to create the product. Details of the Granule ID are described in “3.7.2 ”.

(1) Scope of scene and product storage

When not all of the data is downlinked for some reason during near-real-time processing, a Level 1 product is generated for the data that is successfully downlinked.

When all of the data is downlinked during standard processing, whereas not all of the data is downlinked duringnear-real-time processing, the scopes of scene and product stored after standard processing are different from those stored after near-real-time processing.

(2) Type of orbital data and geometric information

When PCD orbital data cannot be used due to some sort of error, Level 1 products are created using the ephemeris (predicted ephemeris or precise ephemeris). At the start of near-real-time processing, the precise ephemeris does not exist due to the timing of the delivery of the ephemeris. Thus, products always have to be created using the predicted ephemeris.

When the precise ephemeris exists at the start of standard processing, products are created using the precise ephemeris. Thus, one product can be different from other products depending on which type of ephemeris is used.

7.2 Granule ID of Product Created by Re-processing

When creating products by re-processing the data, the range of scene is sometimes decided by using the orbital information that is different from what was used in standard processing or near-real-time processing. Consequently, one Granule ID (product name) may be different from another Granule ID (product name) even if they have the same observation day, path number, and scene number (Refer to 3.7.2). This indicates that a product with a different Granule ID can be stored at the same observation point. The Granule ID of a product at one observation point processed by standard processing or near-real-time processing may be different from a Granule ID of the same product at the same observation point that is re-processed.

7.3 Products During failuer

When the sensor telescope (VNR-NP), sensor type (SWI/TIR), or output from the sensor channel has an error, the product output item for the error is the missing value (i.e. set to be missing).

7.4 Calibration Mode

(1) Calibration mode for creating L1 product

The SGLI sensor sometimes runs in calibration mode to calibrate the sensor. Even while running the calibration, the sensor creates and provides L1 to L3 products of the Earth observation data. The data being affected by the calibration can be identified with the quality flag, or by referring to the maneuver condition in the Attribute. The relations between calibration products and the Earth observation product are listed in the following Tables. The symbol ○ and △ for the Earth observation product in the Tables indicates that normal L1 to L3 products are generated even in calibration mode.

Table 7.4-1 Products Generated during Calibration Operation (VNR-NP/PL Level 1 Product)

No.	Type of calibration	Earth observation product		Product quality
		L1A	L1B	
1	Electrical calibration	○(*1)	×	-
2	Internal lamp source calibration	×	×	Could result in lower quality due to unstable attitude
3	Solar calibration	△ (*3) (*4)	△ (*3) (*4)	Could result in lower quality due to unstable attitude
4	Maneuver calibration (Moon calibration)	○	△ (*2)	Could result in lower quality due to unstable attitude
5	Maneuver calibration (Solar calibration)	○	×	Could result in lower quality due to unstable attitude
6	Maneuver calibration (Sensitivity deviation)	○	×	Could result in lower quality due to unstable attitude
7	Raw data outpu	×	×	-

○ : Earth observation producte is generated.
△ : Calibration is running, Earth observation product is partially generated.
× : Earth observation product is not generated.
(*1) Calibration part is filled with alternative data
(*2) Maneuver calibration (Moon calibration) is running, only the area pointing to the Earth is generated.
(*3) For VNR-PL, when backward looking operation is not running, product is generated as Earth observation product.
(*4) Generate only the area where the Earth is included in the sensor's field of view, since the solar light diffuser is out of the field of view.

Table 7.4-2 Products Generated during Calibration Operation (IRS-SWI Level 1 Product)

No.	Type of calibration	Earth observation product		Product quality
		L1A	L1B	
1	Electrical calibration	○(*1)	×	-
2	Internal lamp calibration	○	○	Could result in lower quality due to unstable attitude
3	Solar calibration	○	○	Could result in lower quality due to unstable attitude
4	Maneuver calibration (Moon calibration)	○	△ (*2)	Could result in lower quality due to unstable attitude
5	Maneuver calibration (Solar calibration)	○	×	Could result in lower quality due to unstable attitude
6	Maneuver calibration (Sensitivity deviation)	○	×	Could result in lower quality due to unstable attitude
7	When scan mechanism stops rotating (When TIR health check data is being acquired)	○(*1)	×	-
8	All scanning data	○(*3)	○(*3)	Equivalent to Earth observation data

○ : Earth observation producte is generated.
△ : Calibration is running, Earth observation product is partially generated.
× : Earth observation product is not generated.
(*1) Calibration part is filled with alternative data
(*2) Maneuver calibration (Moon calibration) is running, only the area pointing to the Earth is generated.
(*3) Only data in the Earth View Window is extracted

Table 7.4-3 Products Generated during Calibration Operation (IRS-TIR Level 1 Product)

No.	Type of calibration	Earth observation product		Product quality
		L1A	L1B	
1	Electrical calibration	○(*1)	×	-
2	Maneuver calibration (Moon calibration)	○	△ (*2)	Could result in lower quality due to unstable attitude
3	Maneuver calibration (Solar calibration)	○	×	Could result in lower quality due to unstable attitude
4	Maneuver calibration (Sensitivity deviation)	○	×	Could result in lower quality due to unstable attitude
5	When scan mechanism stops rotating (When TIR health check data is being acquired)	○(*1)	×	-
6	Global output product	○(*3)	○(*3)	Equivalent to Earth observation data

○ : Earth observation producte is generated.
△ : Calibration is running, Earth observation product is partially generated.
× : Earth observation product is not generated.
(*1) Calibration part is filled with alternative data
(*2) Maneuver calibration (Moon calibration) is running, only the area pointing to the Earth is generated.
(*3) Only data in the Earth View Window is extracted

(2) Geometry related information in maneuver calibration

(a) Source of attitude data

When quaternion can not be used as the source of attitude data, "attitude error angle" or "nominal attitude" is used for calculating the geometry related information. When maneuver calibration is running, since the the error of "attitude error angle" and "nominal attitude" are large, the accuracy of the geometry related information drops as compared with using quaternion. Therefore, in case of the following conditions, the geometry related information listed in Table 7.4-4 is treated as referenced value.

-Condition: When "/Converted_PCD/Attitude_source" is other than 0 (Quaternion).

Table 7.4-4 Dataset List Whose Accuracy Drops during Maneuver Calibration

No.	Dataset Name	Remarks
1	/Geometry_data/Moon_azimuth	
2	/Geometry_data/Moon_zenith	
3	/Geometry_data/Solar_azimuth	
4	/Geometry_data/Solar_zenith	
5	/Geometry_data/Moon_sc_y_axis_angle	Dataset only IRS

(b) L1A product

In L1A product, product is created when maneuver calibration is running, but the geometry related information will be missing value.

7.5 Scope of L1A and L1B Products Storage

The Ancillary_data data set of L1A products stores the scope of scene start and end times.

The Ancillary_data data set of L1B products is output. The scope of this output is the same as that of the Image_data data set of L1B products inclusive of the overlap at the start and end times of the scene.

Therefore, the size of the Ancillary_data data set of L1A products from one scene is not identical to that of L1B products from the same scene.

Polynomial_to_L1B_* and Sampling_time_L1A, stored in Level_1_attributes of L1B products, are also output. The scope of this output is the same as that of the Ancillary_data data set of the above L1B products. Therefore, the following procedures are required for images of L1A products to calculate the image address of L1B products by making use of the approximate polynomial equation used to convert L1A address to L1B address (L1A address→L1B address).

1) Find the start time of Geometry_data/Scan_start_time_TAI in L1A products.
2) Search Level_1_attributes/Sampling_time_L1A of L1B products for the L1A line number that corresponds to the start time found in Step 1.
3) Since the L1A line number, calculated in Step 2, from L1B of Polynomial_to_L1B_* stored in Level_1_attributes of the L1B product is identical to the start (0) of the L1A line number of the L1A product, apply the line number, which is the sum of the L1A product line number and the L1A line number obtained in Step 2, to the approximate polynomial equation (Polynomial_to_L1B_*) in order to calculate the L1B product pixel address for the L1A product pixel address.

8 Appendix

8.1 Real Time PCD Data Format

The data format of the real time PCD is shown in “Table 8.1-1”.

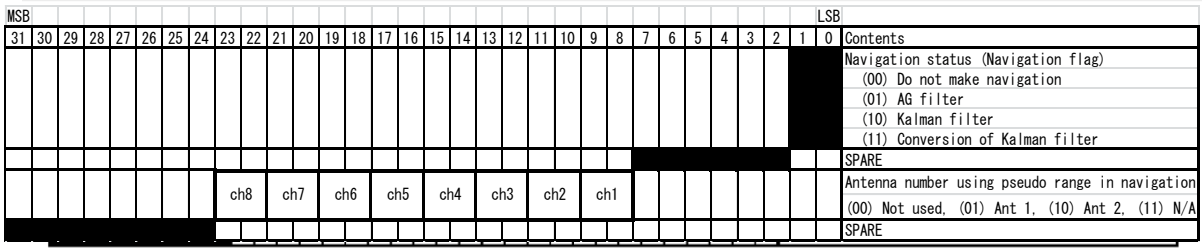
Table 8.1-1 Real Time PCD Data Format (1/2)

No.	Data item	Starting byte position (Size)	Note
1.	Primary header	0th byte (6 bytes)	
2.	Secondary header	6th byte (6 bytes)	Packet compilation time[*1]
3.	Packet ID	12th byte (2 bytes)	
4.	Navigation time [s]	14th byte (4 bytes)	Time of the following navigation position, navigation speed, argument of latitude, and navigation status data. Indicates number of seconds in GPS time counted since the start of the week.[*1] Integer in units of 0.001 s.
5.	Navigation position (X, Y, Z) [m] (WGS84 Coordinate System)	18th byte (3 bytes x 3)	Expressed in two's complement. Stored in the sequence of X, Y, and Z. Signed integer in units of 1 m.
6.	Navigation speed (X, Y, Z) [m/s] (WGS84 Coordinate System)	27th byte (3 bytes x 3)	Expressed in two's complement. Stored in the sequence of X, Y, and Z. Signed integer in units of 0.001 m/s.
7.	Argument of latitude [°] (Pseudo TOD coordinate system: Coordinate system where only the earth rotation element in the WGS84 Coordinate System is corrected)	36th byte (4 bytes)	Expressed in two's complement. Signed integer in units of 0.00002.
8.	Navigation status	40th byte (4 bytes)	Status showing the availability of navigation data.
9.	Attitude determination time (Number of seconds in the week) [s]	44th byte (3 bytes)	Time of the following attitude error, attitude angular velocity, quaternion, and attitude determination flag data. Indicates number of seconds in a week in GPS time counted since the start of the week.[*1]
10.	Attitude determination time (in milliseconds) [ms]	47th byte (3 bytes)	Time of the following attitude error, attitude angular velocity, quaternion, and attitude determination flag data. Indicates time that is shoter than one second. Integer in units of 2^{-12} ms.

Table 8.1-1 Real Time PCD Data Format (2/2)

No.	Data item	Starting byte position (Size)	Note
11.	Attitude determination time index	50th byte (1 byte)	Index showing which data in 11 quaternion data is the above attitude determination time.
12.	Attitude error (roll, pitch, and yaw) [°]	51st byte (3 bytes x 3)	Expressed in two's complement. Stored in the sequence of roll, pitch, and yaw. Signed integer in units of 0.001°.*2
13.	Attitude angular velocity (roll, pitch, and yaw) [°/sec]	60th byte (3 bytes x 3)	Expressed in two's complement. Stored in the sequence of roll, pitch, and yaw. Signed integer in units of 0.001°/s.
14.	Quaternion (q1, q2, q3, and q4)	69th byte (4 bytes x 11 x 4)	・ Attitude in the J2000 inertial coordinate system. ・ The “11” in the left cell indicates that the number of data within one second could be 11. When the number of data is 9, 10th and 11th data are indefinite. When the number of data is 10, 11th data is indefinite. ・ Even when the attitude is decided based on ESA/IRU, the attitude (quaternion) decided based on STT/IRU is output. Note that if the attitude decided based on STT/IRU is abnormal, the correct value is not output. ・ Stored in the sequence of q1 (1), q1(2)...q1(11), q2(1), q2(2)...q4(10), and q4(11).
15.	Control reference selection	245th byte (1 byte)	Flag showing ESA/IRU base (0) or STT/IRU base (1) control. (When the attitude decided based on STT/IRU is normal, quaternion data can be used even during the ESA/IRU base control.)
16.	AOCS control mode	246th byte (1 byte)	Indicates AOCS control mode (upper 4 bits) and sub-mode (lower 4 bits).
17.	Spare	247th byte (7 bytes)	
18.	Check word	254th byte (2 bytes)	
19.	Total	- (256 bytes)	

*1 Composed of preamble field, time field 1 (GPS week number), and time field 2 (navigation time, which is the number of seconds counted since the start of the week). Normally, the navigation time is maximum 0.1 seconds earlier than the attitude determination time (number of seconds in the week). The secondary header is different from the attitude determination time by about 2 to 3 seconds. Refer to the footnote on Broadcast PCD Ancillary Data Source Format for the time system conversion.
(Note) Contents of the navigation status are as follows: When the status is “10” or “11”, the navigation data (navigation time, navigation position, navigation speed, and argument of latitude) can be used. Even when there is an error in the navigation status, the information related to the attitude is valid.



Conversion from GPS time system to UTC time system
Navigation time (UTC) = “GPS week number of secondary header” + “Navigation time” + “Leap second”
Attitude determination time (UTC) = “GPS week number of secondary header” + “Navigation time” + “Attitude determination time” + “Leap second”

*2 GPSR antennas A and B correspond to antennas 0 and 1 respectively.
During attitude control utilizing STT/IRU as sensors, attitude references are calculated according to satellite position informations from GPSR. These positon informations are presented in WGS-84 coordinate system and are transformed into J2000 inertial coordinate system before calculating attitude references. Attitude errors are estimated as deviations of attitude information detected by STT/IRU from attitude references.

8.2 GeoTIFF Format

Level 1 products can be provided in GeoTIFF format.

Refer to “Attached Sheet_GeoTIFF Format Data Set List” for details on the GeoTIFF format.

8.3 NetCDF Format

This format is created with the same tag/structure as that of HDF5. However, since "dimension" is necessary to create the NetCDF format, dataset "dim_XXX (*)" is added directly under the root.

*: XXX is an integer used in the dataset size of HDF.

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
	Global_attributes	—	—	—	—	—	—	Product_file_name	GC1SG1_201305201801_12302_1ASG_VNRDQ_1001.h5	H5T_C_S1	
		—	—	—	—	—	—	Mission_characteristics	Nominal orbit:inclination = 98.6(Sun-Synchronous); node = 10:15-10:45 AM(descending); eccentricity < 0.0012; altitude = 798km; ground speed = 6.6km/sec; revolutions	H5T_C_S1	
		—	—	—	—	—	—	Sensor	Second-generation Global Imager (SGLI)	H5T_C_S1	
		—	—	—	—	—	—	Algorithm_version	0.10	H5T_C_S1	
		—	—	—	—	—	—	Parameter_version	002.00	H5T_C_S1	
		—	—	—	—	—	—	Algorithm_developer	Japan Aerospace Exploration Agency (JAXA)	H5T_C_S1	
		—	—	—	—	—	—	Dataset_description	Sensor output (digital counts)	H5T_C_S1	
		—	—	—	—	—	—	Product_name	Sensor output (digital counts)	H5T_C_S1	
		—	—	—	—	—	—	Product_version	0002	H5T_C_S1	
		—	—	—	—	—	—	Satellite	Global Change Observation Mission - Climate (GCOM-C)	H5T_C_S1	
		—	—	—	—	—	—	Product_level	Level-1A	H5T_C_S1	
		—	—	—	—	—	—	Scene_start_time	20030320 23:28:39.823	H5T_C_S1	
		—	—	—	—	—	—	Scene_end_time	20030320 23:32:49.287	H5T_C_S1	
		—	—	—	—	—	—	Scene_center_time	20030320 23:30:44.555	H5T_C_S1	
		—	—	—	—	—	—	Ascending_node_crossing_time	20030320 23:42:23.000	H5T_C_S1	
		—	—	—	—	—	—	Total_orbit_number	12345	H5T_STD_I32LE	
		—	—	—	—	—	—	RSP_path_number	123	H5T_STD_I32LE	
		—	—	—	—	—	—	Scene_number	2	H5T_STD_I32LE	
		—	—	—	—	—	—	Orbit_direction	Ascending	H5T_C_S1	
		—	—	—	—	—	—	Maneuver_status	Include	H5T_C_S1	
		—	—	—	—	—	—	Start_argument_of_latitude	1	H5T_IEEE_F32LE	
		—	—	—	—	—	—	End_argument_of_latitude	15	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Lines_per_scan	1, 1, 1, 1, 1, 1, 1, 1, 1, 1	H5T_STD_I32LE_[11]	
		—	—	—	—	—	—	Stored_channels	VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10)	H5T_C_S1	
		—	—	—	—	—	—	Missing_lines	0, 0, 0, 0, 0, 0, 0, 0, 0, 0	H5T_STD_I32LE_[11]	
		—	—	—	—	—	—	Missing_lines_rate	0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0	H5T_IEEE_F32LE_[11]	
		—	—	—	—	—	—	Saturated_pixels_rate	0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0	H5T_IEEE_F32LE_[11]	R=Nsatu／(N−Nloss) Satisfy 0.0≦R≦1.0 R: Saturated pixels rate N: The number of pixels of L1A scene. Three telescopes× (Raw_data/Number_of_lines) × (Raw_data/Number_of_pixels) Nloss: The number of pixels of the missing value in the pixel number N. Nsatu: The number of saturated pixels in the pixel number N. Saturation condition: Digital count value ≧DNmax DNmax: Saturation threshold value of the digital count value. Processing parameter for each telescope, channel and resolution. Setting value : 0 to 4095.
		—	—	—	—	—	—	Abnormal_positions_rate	0.0	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Abnormal_velocities_rate	0.0	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Abnormal_attitudes_rate	0.0	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Geometric_information_error_rate	0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0	H5T_IEEE_F32LE_[11]	
		—	—	—	—	—	—	Individual_quality_info	GGGGGGGGGGGGGGGG	H5T_C_S1	G : Good P : Poor F : Fair N : NG
		—	—	—	—	—	—	Quality_judge_line	0	H5T_STD_I32LE	
	Processing_attributes	—	—	—	—	—	—	Contact_point	JAXA/GCOM project team	H5T_C_S1	
		—	—	—	—	—	—	Input_files		H5T_C_S1	In the case of the reprocessed product using L1A product as input, L1A product name is stored.
		—	—	—	—	—	—	Processing_UT	20120813 01:30:35	H5T_C_S1	
		—	—	—	—	—	—	Processing_result	Good	H5T_C_S1	
		—	—	—	—	—	—	Processing_result_description	Good, Fair, Poor, NG	H5T_C_S1	
		—	—	—	—	—	—	Processing_organization	JAXA/GCOM-C project	H5T_C_S1	

B

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
	Raw_data	—	—	—	—	—	—	Number_of_lines	6816	H5T_STD_I32LE	
		—	—	—	—	—	—	Number_of_pixels	1500	H5T_STD_I32LE	
1		VN01	H5T_STD_U16LE	3	6816	1500		Data_description	Observed digital count of VN01 Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	380.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1092.1436	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	264.0	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
2		VN02	H5T_STD_U16LE	3	6816	1500		Data_description	Observed digital count of VN02 Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	412.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1712.1531	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	335.5	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
3		VN03	H5T_STD_U16LE	3	6816	1500		Data_description	Observed digital count of VN03 Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	443.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1898.3185	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	502.7	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
4		VN04	H5T_STD_U16LE	3	6816	1500		Data_description	Observed digital count of VN04 Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	490.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1938.4602	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	161.7	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
5		VN05	H5T_STD_U16LE	3	6816	1500		Data_description	Observed digital count of VN05 Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	20.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	530.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1850.9604	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	394.9	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
6		VN06	H5T_STD_U16LE	3	6816	1500		Data_description	Observed digital count of VN06 Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	20.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	565.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1797.1344	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	104.5	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
7		VN07	H5T_STD_U16LE	3	6816	1500		Data_description	Observed digital count of VN07 Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	20.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	673.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1502.5667	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	75.9	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
8		VN08	H5T_STD_U16LE	3	6816	1500		Data_description	Observed digital count of VN08 Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	20.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	673.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1502.3177	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	234.3	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
9		VN09	H5T_STD_U16LE	3	6816	1500		Data_description	Observed digital count of VN09 Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	12.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	763.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1245.3663	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	386.1	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
10		VN10	H5T_STD_U16LE	3	6816	1500		Data_description	Observed digital count of VN10 Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	20.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	868.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	956.2323	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	40.7	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
11		VN11	H5T_STD_U16LE	3	6816	1500		Data_description	Observed digital count of VN11 Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	20.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	868.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	956.5352	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	335.5	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
12		Pre_post_scan_VN01	H5T_STD_U16LE	3	6816	92		Data_description	AUX raw image data of VN01 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S06(VN01)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
13		Pre_post_scan_VN02	H5T_STD_U16LE	3	6816	92		Data_description	AUX raw image data of VN02 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S05(VN02)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
14		Pre_post_scan_VN03	H5T_STD_U16LE	3	6816	92		Data_description	AUX raw image data of VN03 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S07(VN03)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
15		Pre_post_scan_VN04	H5T_STD_U16LE	3	6816	92		Data_description	AUX raw image data of VN04 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S04(VN04)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
16		Pre_post_scan_VN05	H5T_STD_U16LE	3	6816	92		Data_description	AUX raw image data of VN05 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S08(VN05)	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
17		Pre_post_scan_VN06	H5T_STD_U16LE	3	6816	92		Data_description	AUX raw image data of VN06 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S03(VN06)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
18		Pre_post_scan_VN07	H5T_STD_U16LE	3	6816	92		Data_description	AUX raw image data of VN07 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S02(VN07)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
19		Pre_post_scan_VN08	H5T_STD_U16LE	3	6816	92		Data_description	AUX raw image data of VN08 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S09(VN08)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
20		Pre_post_scan_VN09	H5T_STD_U16LE	3	6816	92		Data_description	AUX raw image data of VN09 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S11(VN09)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
21		Pre_post_scan_VN10	H5T_STD_U16LE	3	6816	92		Data_description	AUX raw image data of VN10 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S01(VN10)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
22		Pre_post_scan_VN11	H5T_STD_U16LE	3	6816	92		Data_description	AUX raw image data of VN11 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S10(VN11)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
23		Realtime_PCD	H5T_STD_U8LE	354	256			Data_description	GCOM-C PCD raw data	H5T_C_S1	
								Dim0	Realtime PCD records (1Hz)	H5T_C_S1	
								Dim1	octets	H5T_C_S1	
24	Raw_data/AUX_packet	Raw_packet1	H5T_STD_U8LE	3	6816	594		Data_description	Packet#1 raw data	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	octets	H5T_C_S1	
25		Raw_packet_header	H5T_STD_U8LE	3	6816	312		Data_description	Raw packet header of all packets(#1-12)	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	octets	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
	Ancillary_data	—	—	—	—	—	—	Data_description	Don't use the record when lack line. (Refer to Data_quality_flag/Qf_Scan)	H5T_C_S1	
26	Ancillary_data/TC_FPGA	Mode_register	H5T_STD_U8LE	3	6816			Data_description	Mode register	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
27		Bord_address_register	H5T_STD_U8LE	3	6816			Data_description	Board address	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
28		SD4_PL_ASP_A_B_status	H5T_STD_U8LE	3	6816			Data_description	SD4 PL-ASP A/B status 0 : A 1 : B	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
29		SD3_NP_ASP_A_B_status	H5T_STD_U8LE	3	6816			Data_description	SD3 NP-ASP A/B status 0 : A 1 : B	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
30		SD2_MTR_A_B_status	H5T_STD_U8LE	3	6816			Data_description	SD2 MTR A/B status 0 : A 1 : B	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
31		SD1_HCE_A_B_status	H5T_STD_U8LE	3	6816			Data_description	SD1 HCE A/B status 0 : A 1 : B	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
32		Double_buffer_output_status	H5T_STD_U8LE	3	6816			Data_description	Double buffer output status 0 : A 1 : B	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
33		TC_FPGA_ENA_DIS	H5T_STD_U8LE	3	6816			Data_description	TC-FPGA ENA/DIS 0 : DISABLE 1 : ENABLE	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
34	Ancillary_data/NP_DSP_FPGA	Raw_mode_band_select	H5T_STD_U8LE	3	6816			Data_description	Selected Channel number in raw data output mode 0-10: VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10)	H5T_C_S1	
								TLM_info_tlmID	VN0077, VN0082, VN0070	H5T_C_S1	
								TLM_info_name	VNR NP-L RAW DAT BND SEL, VNR NP-N RAW DAT BND SEL, VNR NP-R RAW DAT BND SEL	H5T_C_S1	
								TLM_info_short_name	V NP-L VN SEL1-11, V NP-N VN SEL1-11, V NP-R VN SEL1-11	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
35		Resolution_status	H5T_STD_U8LE	3	6816			Data_description	Resolution status of each lens telescope 0 : 1km 1 : 250m	H5T_C_S1	
								TLM_info_tlmID	VN0079, VN0067, VN0072	H5T_C_S1	
								TLM_info_name	VNR NP-L RESO STS, VNR NP-N RESO STS, VNR NP-R RESO STS	H5T_C_S1	
								TLM_info_short_name	V NP-L RES SEL, V NP-N RES SEL, V NP-R RES SEL	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
36		Raw_mode_DSP	H5T_STD_U8LE	3	6816			Data_description	DSP status in raw data mode or observation mode 0 : Observation 1 : Raw	H5T_C_S1	
								TLM_info_tlmID	VN0080, VN0068, VN0073	H5T_C_S1	
								TLM_info_name	VNR NP-L RAW DAT MODE, VNR NP-N RAW DAT MODE, VNR NP-R RAW DAT MODE	H5T_C_S1	
								TLM_info_short_name	V NP-L RAW MODE SEL, V NP-N RAW MODE SEL, V NP-R RAW MODE SEL	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
37		DAT_ena_dis_status	H5T_STD_U8LE	3	6816			Data_description	Observation data enable or disable status 0 : Disable 1 : Enable	H5T_C_S1	
								TLM_info_tlmID	VN0081, VN0069, VN0074	H5T_C_S1	
								TLM_info_name	VNR NP-L DAT ENA/DIS, VNR NP-N DAT ENA/DIS, VNR NP-R DAT ENA/DIS	H5T_C_S1	
								TLM_info_short_name	V NP-L DAT ENA/DIS, V NP-N DAT ENA/DIS, V NP-R DAT ENA/DIS	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
38	Ancillary_data/NP_ASP_telemetr	Line_rate	H5T_STD_U8LE	3	6816	11		Data_description	Selected line rate status	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10)	H5T_C_S1	
39		Shutter_set_band	H5T_STD_U8LE	3	6816	11		Data_description	Selected Channel number in raw data output mode 0-10: VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10) The value of integration time is set in Dim2 of /Ancillary_data/NP_ASP_telemetry/Integration_time in order of VN01~VN11.	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10)	H5T_C_S1	
40		Integration_time	H5T_STD_U8LE	3	6816	11		Data_description	Selected Integration time	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10)	H5T_C_S1	
41		t3	H5T_IEEE_F64LE	3	6816	11		Data_description	Integration time t3(usec)	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10)	H5T_C_S1	
42	Ancillary_data/NP_ASP_SD	NP_ASP_select	H5T_STD_U8LE	3	6816			Data_description	Selected lens telescope name in command 1 : Right 2 : Nadir 3 : Left 7 : All	H5T_C_S1	
								TLM_info_tlmID	VN0537	H5T_C_S1	
								TLM_info_name	VNR NP TYPE	H5T_C_S1	
								TLM_info_short_name	V NP SEL	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
43		NP_ASP_mode_status(Right)	H5T_STD_U8LE	3	6816			Data_description	Selected mode of each lens telescope 1 : Wait mode 3 : Observation mode (observation data input) 4 : Raw data output mode 5 : Observation mode (electrical calibration input)	H5T_C_S1	
								TLM_info_tlmID	VN0538	H5T_C_S1	
								TLM_info_name	VNR NP-R MODE STS	H5T_C_S1	
								TLM_info_short_name	V NP-R MODE ST	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
44		NP_ASP_mode_status(Nadir)	H5T_STD_U8LE	3	6816			Data_description	Selected mode of each lens telescope 1 : Wait mode 3 : Observation mode (observation data input) 4 : Raw data output mode 5 : Observation mode (electrical calibration input)	H5T_C_S1	
								TLM_info_tlmID	VN0539	H5T_C_S1	
								TLM_info_name	VNR NP-N MODE STS	H5T_C_S1	
								TLM_info_short_name	V NP-N MODE ST	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
45		NP_ASP_mode_status(Left)	H5T_STD_U8LE	3	6816			Data_description	Selected mode of each lens telescope 1 : Wait mode 3 : Observation mode (observation data input) 4 : Raw data output mode 5 : Observation mode (electrical calibration input)	H5T_C_S1	
								TLM_info_tlmID	VN0540	H5T_C_S1	
								TLM_info_name	VNR NP-L MODE STS	H5T_C_S1	
								TLM_info_short_name	V NP-L MODE ST	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
46		Raw_mode_ASP(Right)	H5T_STD_U8LE	3	6816			Data_description	ASP status in raw data mode or observation mode 1 : Interface to AGE (DATA1:S01, DATA2:S05, DATA3:S09 / DATA1:S02, DATA2:S06, DATA3:S10), Interface to DSP (Data1:VN10, Data2:VN2, Data3:VN8) 2 : Interface to AGE (DATA1:S02, DATA2:S06, DATA3:S10 / DATA1:S01, DATA2:S05, DATA3:S09), Interface to DSP (DATA1:VN7, DATA2:VN1, DATA3:VN11) 3 : Interface to AGE (DATA1:S03, DATA2:S07, DATA3:S11 / DATA1:S04, DATA2:S08), Interface to DSP (DATA1:VN6, DATA2:VN3, DATA3:VN9) 4 : Interface to AGE (DATA1:S04, DATA2:S08 / DATA1:S03, DATA2:S07, DATA3:S11), Interface to DSP (DATA1:VN4, DATA2:VN5)	H5T_C_S1	
								TLM_info_tlmID	VN0544	H5T_C_S1	
								TLM_info_name	VNR NP-R RAW MODE SEL	H5T_C_S1	
								TLM_info_short_name	V NP-R MODE RAW	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
47		Raw_mode_ASP(Nadir)	H5T_STD_U8LE	3	6816			Data_description	ASP status in raw data mode or observation mode 1 : Interface to AGE (DATA1:S01, DATA2:S05, DATA3:S09 / DATA1:S02, DATA2:S06, DATA3:S10), Interface to DSP (Data1:VN10, Data2:VN2, Data3:VN8) 2 : Interface to AGE (DATA1:S02, DATA2:S06, DATA3:S10 / DATA1:S01, DATA2:S05, DATA3:S09), Interface to DSP (DATA1:VN7, DATA2:VN1, DATA3:VN11) 3 : Interface to AGE (DATA1:S03, DATA2:S07, DATA3:S11 / DATA1:S04, DATA2:S08), Interface to DSP (DATA1:VN6, DATA2:VN3, DATA3:VN9) 4 : Interface to AGE (DATA1:S04, DATA2:S08 / DATA1:S03, DATA2:S07, DATA3:S11), Interface to DSP (DATA1:VN4, DATA2:VN5)	H5T_C_S1	
								TLM_info_tlmID	VN0545	H5T_C_S1	
								TLM_info_name	VNR NP-N RAW MODE SEL	H5T_C_S1	
								TLM_info_short_name	V NP-N MODE RAW	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
48		Raw_mode_ASP(Left)	H5T_STD_U8LE	3	6816			Data_description	ASP status in raw data mode or observation mode 1 : Interface to AGE (DATA1:S01, DATA2:S05, DATA3:S09 / DATA1:S02, DATA2:S06, DATA3:S10), Interface to DSP (Data1:VN10, Data2:VN2, Data3:VN8) 2 : Interface to AGE (DATA1:S02, DATA2:S06, DATA3:S10 / DATA1:S01, DATA2:S05, DATA3:S09), Interface to DSP (DATA1:VN7, DATA2:VN1, DATA3:VN11) 3 : Interface to AGE (DATA1:S03, DATA2:S07, DATA3:S11 / DATA1:S04, DATA2:S08), Interface to DSP (DATA1:VN6, DATA2:VN3, DATA3:VN9) 4 : Interface to AGE (DATA1:S04, DATA2:S08 / DATA1:S03, DATA2:S07, DATA3:S11), Interface to DSP (DATA1:VN4, DATA2:VN5)	H5T_C_S1	
								TLM_info_tlmID	VN0546	H5T_C_S1	
								TLM_info_name	VNR NP-L RAW MODE SEL	H5T_C_S1	
								TLM_info_short_name	V NP-L MODE RAW	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
49		DET_drive_status(Right)	H5T_STD_U8LE	3	6816			Data_description	Detector CCD drive status 0 : OFF 1 : ON	H5T_C_S1	
								TLM_info_tlmID	VN0541	H5T_C_S1	
								TLM_info_name	VNR NP-R DET ON/OFF	H5T_C_S1	
								TLM_info_short_name	V NP-R DET ONOFF	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
50		DET_drive_status(Nadir)	H5T_STD_U8LE	3	6816			Data_description	Detector CCD drive status 0 : OFF 1 : ON	H5T_C_S1	
								TLM_info_tlmID	VN0542	H5T_C_S1	
								TLM_info_name	VNR NP-N DET ON/OFF	H5T_C_S1	
								TLM_info_short_name	V NP-N DET ONOFF	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
51		DET_drive_status(Left)	H5T_STD_U8LE	3	6816			Data_description	Detector CCD drive status 0 : OFF 1 : ON	H5T_C_S1	
								TLM_info_tlmID	VN0543	H5T_C_S1	
								TLM_info_name	VNR NP-L DET ON/OFF	H5T_C_S1	
								TLM_info_short_name	V NP-L DET ONOFF	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
52		Electric_cal_level(Right)	H5T_STD_U8LE	3	6816			Data_description	Electrical calibration signal level status 1 : Level1 2 : Level2 3 : Level3 4 : Level4 5 : Level5 6 : Level6	H5T_C_S1	
								TLM_info_tlmID	VN0550	H5T_C_S1	
								TLM_info_name	VNR NP-R ELEC CAL LEVEL	H5T_C_S1	
								TLM_info_short_name	V NP-R ELEC CAL	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
53		Electric_cal_level(Nadir)	H5T_STD_U8LE	3	6816			Data_description	Electrical calibration signal level status 1 : Level1 2 : Level2 3 : Level3 4 : Level4 5 : Level5 6 : Level6	H5T_C_S1	
								TLM_info_tlmID	VN0551	H5T_C_S1	
								TLM_info_name	VNR NP-N ELEC CAL LEVEL	H5T_C_S1	
								TLM_info_short_name	V NP-N ELEC CAL	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
54		Electric_cal_level(Left)	H5T_STD_U8LE	3	6816			Data_description	Electrical calibration signal level status 1 : Level1 2 : Level2 3 : Level3 4 : Level4 5 : Level5 6 : Level6	H5T_C_S1	
								TLM_info_tlmID	VN0552	H5T_C_S1	
								TLM_info_name	VNR NP-L ELEC CAL LEVEL	H5T_C_S1	
								TLM_info_short_name	V NP-L ELEC CAL	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
55		CCD_temperature(Right)	H5T_IEEE_F32LE	3	6816	2		Data_description	CCD temperature	H5T_C_S1	
								TLM_info_tlmID	VN0556, VN0557	H5T_C_S1	
								TLM_info_name	VNR NP-R CCD TMP1, VNR NP-R CCD TMP2	H5T_C_S1	
								TLM_info_short_name	V NP-R CCD TMP1, V NP-R CCD TMP2	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	60	H5T_IEEE_F32LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	temp1, temp2	H5T_C_S1	
								Unit	degree C	H5T_C_S1	
56		CCD_temperature(Nadir)	H5T_IEEE_F32LE	3	6816	2		Data_description	CCD temperature	H5T_C_S1	
								TLM_info_tlmID	VN0558, VN0559	H5T_C_S1	
								TLM_info_name	VNR NP-N CCD TMP3, VNR NP-N CCD TMP4	H5T_C_S1	
								TLM_info_short_name	V NP-N CCD TMP3, V NP-N CCD TMP4	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	60	H5T_IEEE_F32LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	temp3, temp4	H5T_C_S1	
								Unit	degree C	H5T_C_S1	
57		CCD_temperature(Left)	H5T_IEEE_F32LE	3	6816	2		Data_description	CCD temperature	H5T_C_S1	
								TLM_info_tlmID	VN0560, VN0561	H5T_C_S1	
								TLM_info_name	VNR NP-L CCD TMP5, VNR NP-L CCD TMP6	H5T_C_S1	
								TLM_info_short_name	V NP-L CCD TMP5, V NP-L CCD TMP6	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	60	H5T_IEEE_F32LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	temp5, temp6	H5T_C_S1	
								Unit	degree C	H5T_C_S1	
58	Ancillary_data/PL_ASP_SD	PD_monitor_gain	H5T_STD_U8LE	3	6816			Data_description	Sun monitor gain 0 : HI gain 1 : LO gain	H5T_C_S1	
								TLM_info_tlmID	VN0573	H5T_C_S1	
								TLM_info_name	VNR PD GAIN HI/LO	H5T_C_S1	
								TLM_info_short_name	V PD GAIN	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
59		LED_white_on_off	H5T_STD_U8LE	3	6816			Data_description	White LED ON/OFF status 0 : LED1 OFF / LED2 OFF 1 : LED1 OFF / LED2 ON 2 : LED1 ON / LED2 OFF 3 : LED1 ON / LED2 ON	H5T_C_S1	
								TLM_info_tlmID	VN0574	H5T_C_S1	
								TLM_info_name	VNR VIS-LED ON/OFF	H5T_C_S1	
								TLM_info_short_name	V VIS-LED ONOFF	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
60		LED_NIR_on_off	H5T_STD_U8LE	3	6816			Data_description	LED NIR status 0 : LED1 OFF / LED2 OFF 1 : LED1 OFF / LED2 ON 2 : LED1 ON / LED2 OFF 3 : LED1 ON / LED2 ON	H5T_C_S1	
								TLM_info_tlmID	VN0575	H5T_C_S1	
								TLM_info_name	VNR NIR-LED ON/OFF	H5T_C_S1	
								TLM_info_short_name	V NIR-LED ONOFF	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
61		PD_monitor	H5T_IEEE_F32LE	3	6816	4		Data_description	Sun monitor	H5T_C_S1	
								TLM_info_tlmID	VN0576, VN0577, VN0578, VN0579	H5T_C_S1	
								TLM_info_name	VNR PD MON1, VNR PD MON2, VNR PD MON3, VNR PD MON4	H5T_C_S1	
								TLM_info_short_name	V PD LEV1, V PD LEV2, V PD LEV3, V PD LEV4	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	-999	H5T_IEEE_F32LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	monitor1-monitor4	H5T_C_S1	
								Unit	nA	H5T_C_S1	
62		LED_white_current	H5T_IEEE_F32LE	3	6816	2	4	Data_description	LED white current	H5T_C_S1	
								TLM_info_tlmID	VN0580, VN0581, VN0582, VN0583, VN0584, VN0585, VN0586, VN0587	H5T_C_S1	
								TLM_info_name	VNR VIS-LED1-1 CUR, VNR VIS-LED1-2 CUR, VNR VIS-LED1-3 CUR, VNR VIS-LED1-4 CUR, VNR VIS-LED2-1 CUR, VNR VIS-LED2-2 CUR, VNR VIS-LED2-3 CUR, VNR VIS-LED2-4 CUR	H5T_C_S1	
								TLM_info_short_name	V VIS-LED1-1 CUR, V VIS-LED1-2 CUR, V VIS-LED1-3 CUR, V VIS-LED1-4 CUR, V VIS-LED2-1 CUR, V VIS-LED2-2 CUR, V VIS-LED2-3 CUR, V VIS-LED2-4 CUR	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	80	H5T_IEEE_F32LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	white LED1, white LED2	H5T_C_S1	
								Dim3	cur1-cur4	H5T_C_S1	
								Unit	mA	H5T_C_S1	
63		LED_NIR_current	H5T_IEEE_F32LE	3	6816	2		Data_description	LED NIR current	H5T_C_S1	
								TLM_info_tlmID	VN0588, VN0589	H5T_C_S1	
								TLM_info_name	VNR NIR-LED1 CUR, VNR NIR-LED2 CUR	H5T_C_S1	
								TLM_info_short_name	V NIR-LED1 CUR, V NIR-LED2 CUR	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	120	H5T_IEEE_F32LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	NIR LED1 NIR LED2	H5T_C_S1	
								Unit	mA	H5T_C_S1	
64		LED_white_temperature	H5T_IEEE_F32LE	3	6816	2		Data_description	LED white temperature	H5T_C_S1	
								TLM_info_tlmID	VN0590, VN0591	H5T_C_S1	
								TLM_info_name	VNR VIS-LED TMP1, VNR VIS-LED TMP2	H5T_C_S1	
								TLM_info_short_name	V VIS-LED TMP1, V VIS-LED TMP2	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	60	H5T_IEEE_F32LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	LED1 monitor, LED2 monitor	H5T_C_S1	
								Unit	degree C	H5T_C_S1	
65		LED_NIR_temperature	H5T_IEEE_F32LE	3	6816	2		Data_description	LED NIR temperature	H5T_C_S1	
								TLM_info_tlmID	VN0592, VN0593	H5T_C_S1	
								TLM_info_name	VNR NIR-LED TMP1, VNR NIR-LED TMP2	H5T_C_S1	
								TLM_info_short_name	V NIR-LED TMP1, V NIR-LED TMP2	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	60	H5T_IEEE_F32LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	LED1 monitor, LED2 monitor	H5T_C_S1	
								Unit	degree C	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
66		PD_monitor_temperature	H5T_IEEE_F32LE	3	6816			Data_description	Sun monitor temperature	H5T_C_S1	
								TLM_info_tlmID	VN0594	H5T_C_S1	
								TLM_info_name	VNR PD TMP	H5T_C_S1	
								TLM_info_short_name	V PD TMP	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	60	H5T_IEEE_F32LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Unit	degree C	H5T_C_S1	
67	Ancillary_data/MTR_SD	Diffuser_pulse_count	H5T_IEEE_F32LE	3	6816			Data_description	Steer angle of scatter diffuser	H5T_C_S1	
								TLM_info_tlmID	VN0668	H5T_C_S1	
								TLM_info_name	VNR DIF PLS(ANG)	H5T_C_S1	
								TLM_info_short_name	V DIF PLS CNT(ANG)	H5T_C_S1	
								Minimum_valid_value	-175	H5T_IEEE_F32LE	
								Maximum_valid_value	45	H5T_IEEE_F32LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Unit	degree	H5T_C_S1	
68		Diffuser_status	H5T_STD_U8LE	3	6816			Data_description	Status of scatter diffuser 0 : Stop 1 : Drive	H5T_C_S1	
								TLM_info_tlmID	VN0603	H5T_C_S1	
								TLM_info_name	VNR DIF MOVE ST	H5T_C_S1	
								TLM_info_short_name	V DIF MOVE ST	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
69		Tilt_status	H5T_STD_U8LE	3	6816			Data_description	Status of tilt 0 : Stop 1 : Drive	H5T_C_S1	
								TLM_info_tlmID	VN0628	H5T_C_S1	
								TLM_info_name	VNR TLT MOVE ST	H5T_C_S1	
								TLM_info_short_name	V TILT MOVE ST	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
70		Tilt_angle	H5T_IEEE_F32LE	3	6816			Data_description	Tilt angle of VNR-PL lens telescope	H5T_C_S1	
								TLM_info_tlmID	VN0669	H5T_C_S1	
								TLM_info_name	VNR TLT PLS(ANG)	H5T_C_S1	
								TLM_info_short_name	V TLT PLS CNT(ANG)	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32LE	
								Maximum_valid_value	90	H5T_IEEE_F32LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Unit	degree	H5T_C_S1	
71		Tilt_angle_resolver	H5T_IEEE_F32LE	3	6816			Data_description	Tilt angle from resolver count of VNR-PL lens telescope	H5T_C_S1	
								TLM_info_tlmID	VN0638	H5T_C_S1	
								TLM_info_name	VNR TLT RESE DAT	H5T_C_S1	
								TLM_info_short_name	V TLT RESE DAT	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32LE	
								Maximum_valid_value	90	H5T_IEEE_F32LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Unit	degree	H5T_C_S1	
72	Ancillary_data/HCE_SD	HCE_temperature	H5T_IEEE_F64LE	3	6816	64		Data_description	HCE sensor temperature	H5T_C_S1	
								TLM_info_tlmID	VN0345-VN0408	H5T_C_S1	
								TLM_info_name	VNR HCE CH1 TMP-VNR HCE CH1 TMP	H5T_C_S1	
								TLM_info_short_name	V HCE TMP NUM1-V HCE TMP NUM64	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64LE	
								Maximum_valid_value	-999	H5T_IEEE_F64LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	temp1-temp64	H5T_C_S1	
								Unit	degree C	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
	Converted_PCD	—	—	—	—	—	—	Worst_orbit_source	0	H5T_STD_U8LE	
		—	—	—	—	—	—	Worst_orbit_source_data_description	Source of orbit data(GPS_position_ECR,GPS_velocity_ECR,GPS_position_ECI,GPS_velocity_ECI,Argument_of_latitude) 0 : Realtime PCD 1 : Decision Ephemeris 2 : Prediction Ephemeris	H5T_C_S1	
		—	—	—	—	—	—	Worst_attitude_source	0	H5T_STD_U8LE	
		—	—	—	—	—	—	Worst_attitude_source_data_description	Source of attitude data(Attitude_time,Attitude_error_angle,Attitude_angular_velocity,Attitude_flag,Quaternion,Quaternion_index,Quaternion_number) 0 : Realtime PCD (Quaternion) 1 : Realtime PCD (Eular angle) 2 : Nominal	H5T_C_S1	
73		Navigation_time	H5T_IEEE_F64LE	354				Data_description	GPS navigation time	H5T_C_S1	
								Epoch_time	19800106 00:00:00	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Unit	sec	H5T_C_S1	
74		GPS_position_ECR	H5T_IEEE_F32LE	354	3			Data_description	GCOM-C position calculated by GPS	H5T_C_S1	
								Coordinate_system	WGS84	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Dim1	x,y,z	H5T_C_S1	
								Unit	km	H5T_C_S1	
75		GPS_velocity_ECR	H5T_IEEE_F32LE	354	3			Data_description	GCOM-C velocity calculated by GPS	H5T_C_S1	
								Coordinate_system	WGS84	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Dim1	Vx,Vy,Vz	H5T_C_S1	
								Unit	km/s	H5T_C_S1	
76		GPS_position_ECI	H5T_IEEE_F32LE	354	3			Data_description	GCOM-C position calculated by GPS	H5T_C_S1	
								Coordinate_system	J2000	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Dim1	x,y,z	H5T_C_S1	
								Unit	km	H5T_C_S1	
77		GPS_velocity_ECI	H5T_IEEE_F32LE	354	3			Data_description	GCOM-C velocity calculated by GPS	H5T_C_S1	
								Coordinate_system	J2000	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Dim1	Vx,Vy,Vz	H5T_C_S1	
								Unit	km/s	H5T_C_S1	
78		Argument_of_latitude	H5T_IEEE_F32LE	354				Data_description	Argument of latitude (true anomaly)	H5T_C_S1	
								Coordinate_system	WGS84	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Unit	degree	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
79		Navigation_status	H5T_STD_U32LE	354				Data_description	Navigation status	H5T_C_S1	
								Bit00(LSB)-01	navigation status 00 : Stop 01 : AG filter 10 : Kalman filter 11 : Kalman filter(Convergence)	H5T_C_S1	
								Bit02-07	spare	H5T_C_S1	
								Bit08-09	antenna (CH1) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit10-11	antenna (CH2) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit12-13	antenna (CH3) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit14-15	antenna (CH4) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit16-17	antenna (CH5) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit18-19	antenna (CH6) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit20-21	antenna (CH7) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit22-23	antenna (CH8) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit24-31(MSB)	spare	H5T_C_S1	
								Dim0	Realtime PCD records (1Hz)	H5T_C_S1	
80		Attitude_time	H5T_IEEE_F64LE	354				Data_description	Time when attitude determined	H5T_C_S1	
								Epoch_time	19800106 00:00:00	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Unit	sec	H5T_C_S1	
81		Attitude_error_angle	H5T_IEEE_F32LE	354	3			Data_description	Attitude error	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Dim1	Roll, Pitch, Yaw	H5T_C_S1	
								Unit	degree	H5T_C_S1	
82		Attitude_angular_velocity	H5T_IEEE_F32LE	354	3			Data_description	Attitude angular velocity	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Dim1	Roll, Pitch, Yaw	H5T_C_S1	
								Unit	degree/sec	H5T_C_S1	
83		Attitude_flag	H5T_STD_U8LE	354				Data_description	Quaternion usable / unusable flag 0 : ESA/IRU (quaternion unusable) 1 : STT/IRU (quaternion usable) 255 : Error value	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
84		Quaternion	H5T_IEEE_F32LE	354	11	4		Data_description	Quaternion(9-11 data per sec)	H5T_C_S1	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Dim1	Maximum number of quaternions (unusable area is stored with indefinite value)	H5T_C_S1	
								Dim2	q1, q2, q3, q4(scalar)	H5T_C_S1	
85		Quaternion_index	H5T_STD_U8LE	354				Data_description	Quaternion index (0-10) corresponds to "Att_time"	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Minimum_valid_value	0	H5T_STD_U8LE	
								Maximum_valid_value	10	H5T_STD_U8LE	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
86		Quaternion_number	H5T_STD_U8LE	354				Data_description	Available number of quaternion	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Minimum_valid_value	9	H5T_STD_U8LE	
								Maximum_valid_value	11	H5T_STD_U8LE	
87		AOCS_mode	H5T_STD_U8LE	354				Data_description	AOCS(Attitude and Orbit Control System) control mode	H5T_C_S1	
								Bit00(LSB)-07	Control Mode / Control Sub Mode 01110000 : Normal control / Not execute unloading 01110001 : Normal control / Execute magnetic unloading 01110010 : Normal control / Execute thruster unloading 10000000 : Orbit control / Attitude control thruster Delta-V (pitch and yaw-failure) 10000001 : Orbit control / Orbit control thruster (normal) 10000010 : Orbit control / Orbit control thruster Delta-V (pitch-failure) 10000011 : Orbit control / Orbit control thruster Delta-V (yaw-failure) 10000100 : Orbit control / Attitude control thruster(Three axis stabilized attitude control) 10000101 : Orbit control / Delta-V Idling 10000110 : Orbit control / Yaw around (first half) 10000111 : Orbit control / Yaw around (last half) 10010000 : Calibration Maneuver / Solar calibration or Gain deviation maneuver(First maneuver) 10010001 : Calibration Maneuver / Solar calibration or Gain deviation maneuver(Second maneuver) 10010010 : Calibration Maneuver / Solar calibration or Gain deviation maneuver(Third maneuver) 10010011 : Calibration Maneuver / Lunar calibration maneuver(First maneuver) 10010100 : Calibration Maneuver / Lunar calibration maneuver(Second maneuver) 10010101 : Calibration Maneuver / Lunar calibration maneuver(Third maneuver) Others : Not defined	H5T_C_S1	
								Error_value	255	H5T_C_S1	
								Dim0	Realtime PCD records (1Hz)	H5T_C_S1	
88		Orbit_source	H5T_STD_U8LE	354				Data_description	Source of orbit data(GPS_position_ECR,GPS_velocity_ECR,GPS_position_ECI,GPS_velocity_ECI,Argument_of_latitude) 0 : Realtime PCD 1 : Decision Ephemeris 2 : Prediction Ephemeris	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
89		Attitude_source	H5T_STD_U8LE	354				Data_description	Source of attitude data(Attitude_time,Attitude_error_angle,Attitude_angular_velocity,Attitude_flag,Quaternion,Quaternion_index,Quaternion_number) 0 : Realtime PCD (Quaternion) 1 : Realtime PCD (Eular angle) 2 : Nominal	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
	Geometry_parameter	—	—	—	—	—	—	Geometry_parameter_version	0002	H5T_C_S1	B
90		Sensor_position	H5T_IEEE_F64LE	3	3			Data_description	Sensor base position	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	x, y, z	H5T_C_S1	
								Unit	mm	H5T_C_S1	
91		GPSR_position	H5T_IEEE_F64LE	2	3			Data_description	GPSR position	H5T_C_S1	
								Dim0	Antenna-A, Antenna-B	H5T_C_S1	
								Dim1	x, y, z	H5T_C_S1	
								Unit	mm	H5T_C_S1	
92		Sensor_alignment	H5T_IEEE_F64LE	3	3	3		Data_description	Sensor alignment	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	Rows	H5T_C_S1	
								Dim2	Columns	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
93		Primary_change_rate	H5T_IEEE_F64LE	3	3			Data_description	Primary change rate	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lx, ly, lz	H5T_C_S1	
								Unit	radian/day	H5T_C_S1	
94		Exponential_amplitude	H5T_IEEE_F64LE	3	3			Data_description	Exponential term amplitude	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	Ax, Ay, Az	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
95		Exponential_time_constant	H5T_IEEE_F64LE	3				Data_description	Exponential term time constant	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Unit	day	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
96		Long_period	H5T_IEEE_F64LE	3				Data_description	Long round period	H5T_C_S1	
								Epoch_time	20000101	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Unit	day	H5T_C_S1	
97		Long_fourier_coef	H5T_IEEE_F64LE	3	6	8		Data_description	Fourier series coefficient (Long round period)	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	ax, bx, ay, by, az, bz	H5T_C_S1	
								Dim2	degree1-degree8	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
98		Orbit_period	H5T_IEEE_F64LE	3				Data_description	Orbit period	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Unit	min	H5T_C_S1	
99		Orbit_fourier_coef	H5T_IEEE_F64LE	3	6	8		Data_description	Fourier series coefficient (Orbit period)	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	ax, bx, ay, by, az, bz	H5T_C_S1	
								Dim2	degree1-degree8	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
100		Geo_opt_L	H5T_IEEE_F64LE	11	2	6		Data_description	CCD sensor vector parameter (Left)	H5T_C_S1	
								Dim0	VN10(S01),VN07(S02),VN06(S03),VN04(S04),VN02(S05),VN01(S06),VN03(S07),VN05(S08),VN08(S09),VN11(S10),VN09(S11)	H5T_C_S1	
								Dim1	theta-x, theta-y	H5T_C_S1	
								Dim2	A0-A5	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
101		Geo_opt_N	H5T_IEEE_F64LE	11	2	6		Data_description	CCD sensor vector parameter (Nadir)	H5T_C_S1	
								Dim0	VN10(S01),VN07(S02),VN06(S03),VN04(S04),VN02(S05),VN01(S06),VN03(S07),VN05(S08),VN08(S09),VN11(S10),VN09(S11)	H5T_C_S1	
								Dim1	theta-x, theta-y	H5T_C_S1	
								Dim2	A0-A5	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
102		Geo_opt_R	H5T_IEEE_F64LE	11	2	6		Data_description	CCD sensor vector parameter (Right)	H5T_C_S1	
								Dim0	VN10(S01),VN07(S02),VN06(S03),VN04(S04),VN02(S05),VN01(S06),VN03(S07),VN05(S08),VN08(S09),VN11(S10),VN09(S11)	H5T_C_S1	
								Dim1	theta-x, theta-y	H5T_C_S1	
								Dim2	A0-A5	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
103	Radiometric_parameter	Offset_prepost_VN01	H5T_IEEE_F32LE	3	6816			Data_description	Radiometric offset parameter from pre/post scan/OPB	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Unit	Count	H5T_C_S1	
104		Offset_prepost_VN02	H5T_IEEE_F32LE	3	6816			Data_description	Radiometric offset parameter from pre/post scan/OPB	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Unit	Count	H5T_C_S1	
105		Offset_prepost_VN03	H5T_IEEE_F32LE	3	6816			Data_description	Radiometric offset parameter from pre/post scan/OPB	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Unit	Count	H5T_C_S1	
106		Offset_prepost_VN04	H5T_IEEE_F32LE	3	6816			Data_description	Radiometric offset parameter from pre/post scan/OPB	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Unit	Count	H5T_C_S1	
107		Offset_prepost_VN05	H5T_IEEE_F32LE	3	6816			Data_description	Radiometric offset parameter from pre/post scan/OPB	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Unit	Count	H5T_C_S1	
108		Offset_prepost_VN06	H5T_IEEE_F32LE	3	6816			Data_description	Radiometric offset parameter from pre/post scan/OPB	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Unit	Count	H5T_C_S1	
109		Offset_prepost_VN07	H5T_IEEE_F32LE	3	6816			Data_description	Radiometric offset parameter from pre/post scan/OPB	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Unit	Count	H5T_C_S1	
110		Offset_prepost_VN08	H5T_IEEE_F32LE	3	6816			Data_description	Radiometric offset parameter from pre/post scan/OPB	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Unit	Count	H5T_C_S1	
111		Offset_prepost_VN09	H5T_IEEE_F32LE	3	6816			Data_description	Radiometric offset parameter from pre/post scan/OPB	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Unit	Count	H5T_C_S1	
112		Offset_prepost_VN10	H5T_IEEE_F32LE	3	6816			Data_description	Radiometric offset parameter from pre/post scan/OPB	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Unit	Count	H5T_C_S1	
113		Offset_prepost_VN11	H5T_IEEE_F32LE	3	6816			Data_description	Radiometric offset parameter from pre/post scan/OPB	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Unit	Count	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
114	Data_quality_flag	Qf_scan	H5T_STD_U8LE	3	11	6816		Data_description	Quality flag of each scan	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10)	H5T_C_S1	
								Dim2	lines	H5T_C_S1	
								Bit00(LSB)-002	Quality flag 000 : Normal line 001 : Lack line 011 : Lack line (1km/500m->250m or 1km->500m) 100 : Lack line (for calibration) 101 : Lack line (for synchronization between sensors) 010 : Resampling line (250m->1km/500m) 110 : Resampling line (500m->1km) 111 : Mixed line (000,001,011,100,101,010,110)	H5T_C_S1	
115		Qf_data	H5T_STD_U16LE	3	6816	1500		Data_description	Quality flag of each pixel	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10)	H5T_C_S1	
								Dim2	lines	H5T_C_S1	
								Bit00(LSB)-Bit10	Stray-light quantity flag 0-10: VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10) 0 : Less than threshold 1 : More than threshold	H5T_C_S1	
								Bit11-Bit15(MSB)	Altitude effect to stray-light correction VN04,VN06,VN07,VN10 0 : Not affect 1 : Affect	H5T_C_S1	
								Reference_band	VN10->VN11,VN08->VN05,VN07->VN08,VN06->VN05,VN04->VN05->VN03,VN02->VN03->VN01	H5T_C_S1	
116		Qf_data_stray	H5T_STD_U8LE	3	6816	1500		Data_description	This dataset isn't used.	H5T_C_S1	
								Band_width	0.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	0.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	956.2323	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Error_DN	255	H5T_STD_U8LE	
								Maximum_valid_DN	254	H5T_STD_U8LE	
								Minimum_valid_DN	0	H5T_STD_U8LE	
								Saturation_radiance	0.0	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.007	H5T_IEEE_F32LE	
								Offset	0	H5T_IEEE_F32LE	
								Channel		H5T_C_S1	
117		Qf_GPS	H5T_STD_U8LE	354				Data_description	Quality flag of GPS 0 : GPS time standard 1 : DMS time standard 255 : Error value	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
118		Qf_sc_position	H5T_STD_U8LE	354				Data_description	Quality flag of GCOM-C position 0 : Normal 1 : Satellite position value falls outside the normal range(or Error value)	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
119		Qf_sc_velocity	H5T_STD_U8LE	354				Data_description	Quality flag of GCOM-C velocity 0 : Normal 1 : Satellite velocity value falls outside the normal range(or Error value)	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
120		Qf_sc_attitude_quaternion	H5T_STD_U8LE	354				Data_description	Quality flag of GCOM-C quaternion 0 : Normal 1 : Abnormal(or Error value)	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
121		Qf_sc_attitude_eular_angle	H5T_STD_U8LE	354				Data_description	Quality flag of GCOM-C eular angle 0 : Normal 1 : Abnormal(or Error value)	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
122		Qf_sc_status	H5T_STD_U8LE	354				Data_description	Quality flag of GCOM-C status 0 : Normal 1 : Possibly less accurate around maneuver or tilt	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
123		Qf_sun_calibration	H5T_STD_U8LE	6816				Data_description	Quality flag of Sun calibration 0 : Not Sun calibration 1 : Sun calibration 2 : Sun calibration(Solar elevation value falls outside the normal range)	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
124		Qf_internal_lamp_calibration	H5T_STD_U8LE	6816				Data_description	Quality flag of internal lamp calibration 0 : Not internal lamp calibration 1 : Internal lamp calibration	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
125		Qf_electric_calibration	H5T_STD_U8LE	6816				Data_description	Quality flag of electrical calibration 0 : Not electrical calibration 1 : Electrical calibration 2 : Indefinite	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
126		Qf_maneuver	H5T_STD_U8LE	6816				Data_description	Quality flag of maneuver 0 : Not maneuver 1 : Not maneuver(out of range) 11 : Maneuver(Moon, out of range) 12 : Maneuver(Moon, in of range) 13 : Maneuver(Moon, indefinite) 21 : Maneuver(Sun/Gain deviation) 22 : Maneuver(Sun/Gain deviation, indefinite) 31 : Orbit Control Mode(STT/IRU) 32 : Orbit Control Mode(STT/IRU, indefinite) 33 : Orbit Control Mode(not STT/IRU) 34 : Orbit Control Mode(not STT/IRU, indefinite) 255 : AOCS Control Mode Error value(nominal attitude)	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
127		Qf_shutter_set	H5T_STD_U8LE	6816				Data_description	Quality flag of shutter set 0 : Normal 1 : indefinite	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
128		Qf_tilt_angle	H5T_STD_U8LE	6816				Data_description	Quality flag of tilt angle 0 : Normal 1 : tilt angle value falls outside the normal range	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
129		Qf_CCD_temperature_VN	H5T_STD_U8LE	6816				Data_description	Quality flag of CCD temperature (VNR-NP)	H5T_C_S1	
								Bit00(LSB)	temperature1 (Left lens telescope) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit01	temperature2 (Left lens telescope) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit02	temperature1 (Nadir lens telescope) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit03	temperature2 (Nadir lens telescope) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit04	temperature1 (Right lens telescope) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit05	temperature2 (Right lens telescope) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
130		Qf_CCD_temperature_PL	H5T_STD_U8LE	6816				Data_description	Quality flag of CCD temperature (VNR-PL)	H5T_C_S1	
								Bit00(LSB)	temperature1 (P1) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit01	temperature2 (P1) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit02	temperature1 (P2) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit03	temperature2 (P2) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Dim0	lines	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
131		Qf_LED_temperature	H5T_STD_U8LE	6816				Data_description	Quality flag of LED	H5T_C_S1	
								Bit00(LSB)	temperature (white LED1) 0 : Normal 1 : LED temperature falls outside the normal range	H5T_C_S1	
								Bit01	temperature (white LED2) 0 : Normal 1 : LED temperature falls outside the normal range	H5T_C_S1	
								Bit02	temperature (NIR LED1) 0 : Normal 1 : LED temperature falls outside the normal range	H5T_C_S1	
								Bit03	temperature (NIR LED2) 0 : Normal 1 : LED temperature falls outside the normal range	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
132		Qf_ASP_temperature	H5T_STD_U8LE	6816				Data_description	Quality flag of ASP temperature	H5T_C_S1	
								Bit00(LSB)	ASP temperature 0 : Normal 1 : ASP temperature falls outside the normal range	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
133		Qf_sun_monitor_temperature	H5T_STD_U8LE	6816				Data_description	Quality flag of sun monitor temperature	H5T_C_S1	
								Bit00(LSB)-Bit03	monitor1-monitor4 0 : Normal 1 : Sun monitor value falls outside the normal range	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
134		Qf_diffuser	H5T_STD_U8LE	6816				Data_description	Quality flag of scatter diffuser angle 0 : Normal 1 : Scatter diffuser angle falls outside the normal range	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
135		Qf_offset	H5T_STD_U16LE	3	6816			Data_description	Quality flag of offset	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Bit00(LSB)-Bit10	0-10: VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10) 0 : Good precision 1 : Bad precision	H5T_C_S1	
136		Qf_gain	H5T_STD_U16LE	3	6816			Data_description	Quality flag of gain	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Bit00(LSB)-Bit10	0-10: VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10) 0 : Good precision 1 : Bad precision	H5T_C_S1	
137		Saturation_num_in_line	H5T_STD_U16LE	3	11	6816		Data_description	Number of saturation data in line	H5T_C_S1	Check if the digital count values of pixels in one line are saturated for each pixel. Count the number of saturated pixels. Possible range: 0 ～ Raw_data/Number_of_pixels Saturation condition: Digital count value ≧DNmax DNmax: Saturation threshold value of the digital count value. Processing parameter for each telescope, channel, resolution. Setting value : 0 to 4095.
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10)	H5T_C_S1	
								Dim2	lines	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
	Geometry_data	—	—	—	—	—	—	Number_of_lines	683	H5T_STD_I32LE	
		—	—	—	—	—	—	Number_of_pixels	151	H5T_STD_I32LE	
		—	—	—	—	—	—	Latitude_unit	degree North	H5T_C_S1	
		—	—	—	—	—	—	Longitude_unit	degree East	H5T_C_S1	
		—	—	—	—	—	—	Upper_left_latitude	31.771229	H5T_IEEE_F32LE	Error_value:-999.99
		—	—	—	—	—	—	Upper_left_longitude	177.67711	H5T_IEEE_F32LE	Error_value:-999.99
		—	—	—	—	—	—	Upper_right_latitude	34.70099	H5T_IEEE_F32LE	Error_value:-999.99
		—	—	—	—	—	—	Upper_right_longitude	158.7626	H5T_IEEE_F32LE	Error_value:-999.99
		—	—	—	—	—	—	Lower_left_latitude	45.7335	H5T_IEEE_F32LE	Error_value:-999.99
		—	—	—	—	—	—	Lower_left_longitude	-175.31715	H5T_IEEE_F32LE	Error_value:-999.99
		—	—	—	—	—	—	Lower_right_latitude	49.363934	H5T_IEEE_F32LE	Error_value:-999.99
		—	—	—	—	—	—	Lower_right_longitude	161.3183	H5T_IEEE_F32LE	Error_value:-999.99
138		GPS_TAI	H5T_IEEE_F64LE	1				Data_description	Time difference between GPS(Epoch 1980/1/6) and TAI(Epoch 1993/1/1)	H5T_C_S1	
								Unit	sec	H5T_C_S1	
139		Leap_second	H5T_STD_I8LE	2				Data_description	Leap second time (TAI-UTC)	H5T_C_S1	
								Unit	sec	H5T_C_S1	
								Insert_leap_time	20170101, 00000000	H5T_C_S1	
140		Scan_start_time_TAI	H5T_IEEE_F64LE	3	6816			Data_description	Scan start time (TAI)	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Epoch_time	19930101 00:00:00	H5T_C_S1	
								Error_value	0	H5T_IEEE_F64LE	
								Unit	sec	H5T_C_S1	
141		Latitude_VN01	H5T_IEEE_F32LE	3	683	151		Data_description	Latitude grid points of VN01(No elevation correction)	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	Line grids	H5T_C_S1	
								Dim2	Pixel grids	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32LE	
								Maximum_valid_value	90	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	10	H5T_STD_I32LE	
								Unit	degree	H5T_C_S1	
142		Latitude_VN02	H5T_IEEE_F32LE	3	683	151		Data_description	Latitude grid points of VN02(No elevation correction)	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	Line grids	H5T_C_S1	
								Dim2	Pixel grids	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32LE	
								Maximum_valid_value	90	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	10	H5T_STD_I32LE	
								Unit	degree	H5T_C_S1	
143		Latitude_VN03	H5T_IEEE_F32LE	3	683	151		Data_description	Latitude grid points of VN03(No elevation correction)	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	Line grids	H5T_C_S1	
								Dim2	Pixel grids	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32LE	
								Maximum_valid_value	90	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	10	H5T_STD_I32LE	
								Unit	degree	H5T_C_S1	
144		Latitude_VN04	H5T_IEEE_F32LE	3	683	151		Data_description	Latitude grid points of VN04(No elevation correction)	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	Line grids	H5T_C_S1	
								Dim2	Pixel grids	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32LE	
								Maximum_valid_value	90	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	10	H5T_STD_I32LE	
								Unit	degree	H5T_C_S1	
145		Latitude_VN05	H5T_IEEE_F32LE	3	683	151		Data_description	Latitude grid points of VN05(No elevation correction)	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	Line grids	H5T_C_S1	
								Dim2	Pixel grids	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32LE	
								Maximum_valid_value	90	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	10	H5T_STD_I32LE	
								Unit	degree	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
146		Latitude_VN06	H5T_IEEE_F32LE	3	683	151		Data_description	Latitude grid points of VN06(No elevation correction)	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	Line grids	H5T_C_S1	
								Dim2	Pixel grids	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32LE	
								Maximum_valid_value	90	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	10	H5T_STD_I32LE	
								Unit	degree	H5T_C_S1	
147		Latitude_VN07	H5T_IEEE_F32LE	3	683	151		Data_description	Latitude grid points of VN07(No elevation correction)	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	Line grids	H5T_C_S1	
								Dim2	Pixel grids	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32LE	
								Maximum_valid_value	90	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	10	H5T_STD_I32LE	
								Unit	degree	H5T_C_S1	
148		Latitude_VN08	H5T_IEEE_F32LE	3	683	151		Data_description	Latitude grid points of VN08(No elevation correction)	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	Line grids	H5T_C_S1	
								Dim2	Pixel grids	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32LE	
								Maximum_valid_value	90	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	10	H5T_STD_I32LE	
								Unit	degree	H5T_C_S1	
149		Latitude_VN09	H5T_IEEE_F32LE	3	683	151		Data_description	Latitude grid points of VN09(No elevation correction)	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	Line grids	H5T_C_S1	
								Dim2	Pixel grids	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32LE	
								Maximum_valid_value	90	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	10	H5T_STD_I32LE	
								Unit	degree	H5T_C_S1	
150		Latitude_VN10	H5T_IEEE_F32LE	3	683	151		Data_description	Latitude grid points of VN10(No elevation correction)	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	Line grids	H5T_C_S1	
								Dim2	Pixel grids	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32LE	
								Maximum_valid_value	90	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	10	H5T_STD_I32LE	
								Unit	degree	H5T_C_S1	
151		Latitude_VN11	H5T_IEEE_F32LE	3	683	151		Data_description	Latitude grid points of VN11(No elevation correction)	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	Line grids	H5T_C_S1	
								Dim2	Pixel grids	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32LE	
								Maximum_valid_value	90	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	10	H5T_STD_I32LE	
								Unit	degree	H5T_C_S1	
152		Longitude_VN01	H5T_IEEE_F32LE	3	683	151		Data_description	Longitude grid points of VN01(No elevation correction) Minimum_valid_value < value <= Maximum_valid_value	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	Line grids	H5T_C_S1	
								Dim2	Pixel grids	H5T_C_S1	
								Minimum_valid_value	-180	H5T_IEEE_F32LE	
								Maximum_valid_value	180	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	10	H5T_STD_I32LE	
								Unit	degree	H5T_C_S1	
153		Longitude_VN02	H5T_IEEE_F32LE	3	683	151		Data_description	Longitude grid points of VN02(No elevation correction) Minimum_valid_value < value <= Maximum_valid_value	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	Line grids	H5T_C_S1	
								Dim2	Pixel grids	H5T_C_S1	
								Minimum_valid_value	-180	H5T_IEEE_F32LE	
								Maximum_valid_value	180	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	10	H5T_STD_I32LE	
								Unit	degree	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
154		Longitude_VN03	H5T_IEEE_F32LE	3	683	151		Data_description	Longitude grid points of VN03(No elevation correction) Minimum_valid_value < value <= Maximum_valid_value	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	Line grids	H5T_C_S1	
								Dim2	Pixel grids	H5T_C_S1	
								Minimum_valid_value	-180	H5T_IEEE_F32LE	
								Maximum_valid_value	180	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	10	H5T_STD_I32LE	
								Unit	degree	H5T_C_S1	
155		Longitude_VN04	H5T_IEEE_F32LE	3	683	151		Data_description	Longitude grid points of VN04(No elevation correction) Minimum_valid_value < value <= Maximum_valid_value	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	Line grids	H5T_C_S1	
								Dim2	Pixel grids	H5T_C_S1	
								Minimum_valid_value	-180	H5T_IEEE_F32LE	
								Maximum_valid_value	180	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	10	H5T_STD_I32LE	
								Unit	degree	H5T_C_S1	
156		Longitude_VN05	H5T_IEEE_F32LE	3	683	151		Data_description	Longitude grid points of VN05(No elevation correction) Minimum_valid_value < value <= Maximum_valid_value	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	Line grids	H5T_C_S1	
								Dim2	Pixel grids	H5T_C_S1	
								Minimum_valid_value	-180	H5T_IEEE_F32LE	
								Maximum_valid_value	180	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	10	H5T_STD_I32LE	
								Unit	degree	H5T_C_S1	
157		Longitude_VN06	H5T_IEEE_F32LE	3	683	151		Data_description	Longitude grid points of VN06(No elevation correction) Minimum_valid_value < value <= Maximum_valid_value	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	Line grids	H5T_C_S1	
								Dim2	Pixel grids	H5T_C_S1	
								Minimum_valid_value	-180	H5T_IEEE_F32LE	
								Maximum_valid_value	180	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	10	H5T_STD_I32LE	
								Unit	degree	H5T_C_S1	
158		Longitude_VN07	H5T_IEEE_F32LE	3	683	151		Data_description	Longitude grid points of VN07(No elevation correction) Minimum_valid_value < value <= Maximum_valid_value	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	Line grids	H5T_C_S1	
								Dim2	Pixel grids	H5T_C_S1	
								Minimum_valid_value	-180	H5T_IEEE_F32LE	
								Maximum_valid_value	180	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	10	H5T_STD_I32LE	
								Unit	degree	H5T_C_S1	
159		Longitude_VN08	H5T_IEEE_F32LE	3	683	151		Data_description	Longitude grid points of VN08(No elevation correction) Minimum_valid_value < value <= Maximum_valid_value	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	Line grids	H5T_C_S1	
								Dim2	Pixel grids	H5T_C_S1	
								Minimum_valid_value	-180	H5T_IEEE_F32LE	
								Maximum_valid_value	180	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	10	H5T_STD_I32LE	
								Unit	degree	H5T_C_S1	
160		Longitude_VN09	H5T_IEEE_F32LE	3	683	151		Data_description	Longitude grid points of VN09(No elevation correction) Minimum_valid_value < value <= Maximum_valid_value	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	Line grids	H5T_C_S1	
								Dim2	Pixel grids	H5T_C_S1	
								Minimum_valid_value	-180	H5T_IEEE_F32LE	
								Maximum_valid_value	180	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	10	H5T_STD_I32LE	
								Unit	degree	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
161		Longitude_VN10	H5T_IEEE_F32LE	3	683	151		Data_description	Longitude grid points of VN10(No elevation correction) Minimum_valid_value < value <= Maximum_valid_value	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	Line grids	H5T_C_S1	
								Dim2	Pixel grids	H5T_C_S1	
								Minimum_valid_value	-180	H5T_IEEE_F32LE	
								Maximum_valid_value	180	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	10	H5T_STD_I32LE	
								Unit	degree	H5T_C_S1	
162		Longitude_VN11	H5T_IEEE_F32LE	3	683	151		Data_description	Longitude grid points of VN11(No elevation correction) Minimum_valid_value < value <= Maximum_valid_value	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	Line grids	H5T_C_S1	
								Dim2	Pixel grids	H5T_C_S1	
								Minimum_valid_value	-180	H5T_IEEE_F32LE	
								Maximum_valid_value	180	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	10	H5T_STD_I32LE	
								Unit	degree	H5T_C_S1	
163		Modified_julian_date	H5T_IEEE_F64LE	3	6816			Data_description	Modified julian date	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Unit	day	H5T_C_S1	
164		Sun_vector_ECI	H5T_IEEE_F64LE	6816	3			Data_description	Sun position vector (J2000)	H5T_C_S1	
								Coordinate_system	J2000	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	x, y, z	H5T_C_S1	
								Data_interval_line	1	H5T_STD_I32LE	
								Unit	km	H5T_C_S1	
165		Moon_vector_ECI	H5T_IEEE_F64LE	6816	3			Data_description	Moon position vector (J2000)	H5T_C_S1	
								Coordinate_system	J2000	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	x, y, z	H5T_C_S1	
								Data_interval_line	1	H5T_STD_I32LE	
								Unit	km	H5T_C_S1	
166		Solar_azimuth	H5T_IEEE_F32LE	6816				Data_description	Solar azimuth angle	H5T_C_S1	
								Coordinate_system	Satellite coordinate system	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Unit	degree	H5T_C_S1	
167		Solar_zenith	H5T_IEEE_F32LE	6816				Data_description	Solar zenith angle	H5T_C_S1	
								Coordinate_system	Satellite coordinate system	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Unit	degree	H5T_C_S1	
168		Moon_azimuth	H5T_IEEE_F32LE	6816				Data_description	Moon azimuth angle	H5T_C_S1	
								Coordinate_system	Satellite coordinate system	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Unit	degree	H5T_C_S1	
169		Moon_zenith	H5T_IEEE_F32LE	6816				Data_description	Moon zenith angle	H5T_C_S1	
								Coordinate_system	Satellite coordinate system	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Unit	degree	H5T_C_S1	
170	Earth_rotation_parameter	Polar_motion	H5T_IEEE_F64LE	2				Data_description	Polar motion parameter	H5T_C_S1	
								Dim0	dx, dy	H5T_C_S1	
								Unit	sec of arc	H5T_C_S1	
171		UT1-UTC	H5T_IEEE_F32LE	1				Data_description	UT1-UTC	H5T_C_S1	
								Unit	sec	H5T_C_S1	
172		Precession_nutation	H5T_IEEE_F64LE	2				Data_description	Precession and nutation parameter	H5T_C_S1	
								Dim0	dpsi, deps	H5T_C_S1	
								Unit	msec of arc	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
173	Extended_area/250m	Overlap_pre_VN01	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN01(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	380.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1092.1436	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	264.0	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
174		Overlap_pre_VN02	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN02(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	412.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1712.1531	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	335.5	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
175		Overlap_pre_VN03	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN03(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	443.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1898.3185	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	502.7	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
176		Overlap_pre_VN04	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN04(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	490.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1938.4602	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	161.7	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
177		Overlap_pre_VN05	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN05(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	530.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1850.9604	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	394.9	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
178		Overlap_pre_VN06	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN06(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	565.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1797.1344	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	104.5	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
179		Overlap_pre_VN07	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN07(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	673.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1502.5667	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	75.9	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
180		Overlap_pre_VN08	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN08(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	673.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1502.3177	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	234.3	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
181		Overlap_pre_VN09	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN09(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	763.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1245.3663	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	386.1	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
182		Overlap_pre_VN10	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN10(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	868.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	956.2323	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	40.7	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
183		Overlap_pre_VN11	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN11(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	868.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	956.5352	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	335.5	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
184		Overlap_post_VN01	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN01(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	380	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1092.1436	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	264.0	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
185		Overlap_post_VN02	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN02(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	412	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1712.1531	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	335.5	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
186		Overlap_post_VN03	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN03(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	443.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1898.3185	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	502.7	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
187		Overlap_post_VN04	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN04(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	490.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1938.4602	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	161.7	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
188		Overlap_post_VN05	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN05(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	530.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1850.9604	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	394.9	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
189		Overlap_post_VN06	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN06(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	565.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1797.1344	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	104.5	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
190		Overlap_post_VN07	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN07(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	673.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1502.5667	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	75.9	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
191		Overlap_post_VN08	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN08(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	673.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1502.3177	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	234.3	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
192		Overlap_post_VN09	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN09(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	763.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1245.3663	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	386.1	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
193		Overlap_post_VN10	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN10(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	868.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	956.2323	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	40.7	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
194		Overlap_post_VN11	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN11(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	868.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	956.5352	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	335.5	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
195		Overlap_pre_Pre_post_scan_VN01	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN01 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S06(VN01)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
196		Overlap_pre_Pre_post_scan_VN02	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN02 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S05(VN02)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
197		Overlap_pre_Pre_post_scan_VN03	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN03 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S07(VN03)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
198		Overlap_pre_Pre_post_scan_VN04	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN04 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S04(VN04)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
199		Overlap_pre_Pre_post_scan_VN05	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN05 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S08(VN05)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
200		Overlap_pre_Pre_post_scan_VN06	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN06 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S03(VN06)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
201		Overlap_pre_Pre_post_scan_VN07	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN07 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S02(VN07)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
202		Overlap_pre_Pre_post_scan_VN08	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN08 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S09(VN08)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
203		Overlap_pre_Pre_post_scan_VN09	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN09 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S11(VN09)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
204		Overlap_pre_Pre_post_scan_VN10	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN10 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S01(VN10)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
205		Overlap_pre_Pre_post_scan_VN11	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN11 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S10(VN11)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
206		Overlap_post_Pre_post_scan_VN01	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN01 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S06(VN01)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
207		Overlap_post_Pre_post_scan_VN02	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN02 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S05(VN02)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
208		Overlap_post_Pre_post_scan_VN03	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN03 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S07(VN03)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
209		Overlap_post_Pre_post_scan_VN04	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN04 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S04(VN04)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
210		Overlap_post_Pre_post_scan_VN05	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN05 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan,	H5T_C_S1	
								CCD_line_number	S08(VN05)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
211		Overlap_post_Pre_post_scan_VN06	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN06 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S03(VN06)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
212		Overlap_post_Pre_post_scan_VN07	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN07 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S02(VN07)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
213		Overlap_post_Pre_post_scan_VN08	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN08 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S09(VN08)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
214		Overlap_post_Pre_post_scan_VN09	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN09 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S11(VN09)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
215		Overlap_post_Pre_post_scan_VN10	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN10 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S01(VN10)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
216		Overlap_post_Pre_post_scan_VN11	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN11 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S10(VN11)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
217		Overlap_pre_Raw_packet1	H5T_STD_U8LE	3	248	594		Data_description	Packet#1 raw data (except header)	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	octets	H5T_C_S1	
218		Overlap_post_Raw_packet1	H5T_STD_U8LE	3	248	594		Data_description	Packet#1 raw data (except header)	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	octets	H5T_C_S1	
219		Overlap_pre_Raw_packet_header	H5T_STD_U8LE	3	248	312		Data_description	Raw packet header of all packets(#1-12)	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	octets	H5T_C_S1	
220		Overlap_post_Raw_packet_header	H5T_STD_U8LE	3	248	312		Data_description	Raw packet header of all packets(#1-12)	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	octets	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
221		Overlap_pre_Qf_scan	H5T_STD_U8LE	3	11	6816		Data_description	Quality flag of each scan	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10)	H5T_C_S1	
								Dim2	lines	H5T_C_S1	
								Bit00(LSB)-002	Quality flag 000 : Normal line 001 : Lack line 101 : Lack line (for synchronization between sensors) 010 : Resampling line (250m->1km/500m) 110 : Resampling line (500m->1km) 111 : Mixed line (000,001,101,010,110)	H5T_C_S1	
222		Overlap_post_Qf_scan	H5T_STD_U8LE	3	11	6816		Data_description	Quality flag of each scan	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10)	H5T_C_S1	
								Dim2	lines	H5T_C_S1	
								Bit00(LSB)-002	Quality flag 000 : Normal line 001 : Lack line 101 : Lack line (for synchronization between sensors) 010 : Resampling line (250m->1km/500m) 110 : Resampling line (500m->1km) 111 : Mixed line (000,001,101,010,110)	H5T_C_S1	
223	Extended_area/1km	Overlap_pre_VN01	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN01(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	380.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1092.1436	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	264.0	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
224		Overlap_pre_VN02	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN02(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	412.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1712.1531	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	335.5	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
225		Overlap_pre_VN03	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN03(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	443.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1898.3185	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	502.7	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
226		Overlap_pre_VN04	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN04(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	490.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1938.4602	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	161.7	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
227		Overlap_pre_VN05	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN05(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	530.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1850.9604	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	394.9	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
228		Overlap_pre_VN06	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN06(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	565.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1797.1344	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	104.5	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
229		Overlap_pre_VN07	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN07(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	673.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1502.5667	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	75.9	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
230		Overlap_pre_VN08	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN08(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	673.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1502.3177	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	234.3	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
231		Overlap_pre_VN09	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN09(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	763.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1245.3663	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	386.1	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
232		Overlap_pre_VN10	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN10(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	868.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	956.2323	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	40.7	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
233		Overlap_pre_VN11	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN11(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	868.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	956.5352	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	335.5	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
234		Overlap_post_VN01	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN01(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	380	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1092.1436	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	264.0	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
235		Overlap_post_VN02	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN02(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	412	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1712.1531	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	335.5	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
236		Overlap_post_VN03	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN03(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	443.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1898.3185	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	502.7	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
237		Overlap_post_VN04	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN04(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	490.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1938.4602	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	161.7	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
238		Overlap_post_VN05	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN05(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	530.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1850.9604	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	394.9	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
239		Overlap_post_VN06	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN06(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	565.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1797.1344	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	104.5	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
240		Overlap_post_VN07	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN07(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	673.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1502.5667	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	75.9	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
241		Overlap_post_VN08	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN08(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	673.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1502.3177	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	234.3	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
242		Overlap_post_VN09	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN09(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	763.0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1245.3663	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	386.1	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
243		Overlap_post_VN10	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN10(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	868.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	956.2323	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	40.7	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
244		Overlap_post_VN11	H5T_STD_U16LE	3	248	1500		Data_description	Observed digital count of VN11(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	10.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	868.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	956.5352	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Maximum_valid_value	65534	H5T_STD_U16LE	
								Minimum_valid_value	0	H5T_STD_U16LE	
								Saturation_radiance	335.5	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
245		Overlap_pre_Pre_post_scan_VN01	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN01 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S06(VN01)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
246		Overlap_pre_Pre_post_scan_VN02	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN02 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S05(VN02)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
247		Overlap_pre_Pre_post_scan_VN03	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN03 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S07(VN03)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
248		Overlap_pre_Pre_post_scan_VN04	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN04 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S04(VN04)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
249		Overlap_pre_Pre_post_scan_VN05	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN05 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S08(VN05)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
250		Overlap_pre_Pre_post_scan_VN06	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN06 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S03(VN06)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
251		Overlap_pre_Pre_post_scan_VN07	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN07 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S02(VN07)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
252		Overlap_pre_Pre_post_scan_VN08	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN08 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S09(VN08)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
253		Overlap_pre_Pre_post_scan_VN09	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN09 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S11(VN09)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
254		Overlap_pre_Pre_post_scan_VN10	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN10 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S01(VN10)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
255		Overlap_pre_Pre_post_scan_VN11	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN11 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S10(VN11)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
256		Overlap_post_Pre_post_scan_VN01	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN01 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S06(VN01)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
257		Overlap_post_Pre_post_scan_VN02	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN02 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S05(VN02)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
258		Overlap_post_Pre_post_scan_VN03	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN03 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S07(VN03)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
259		Overlap_post_Pre_post_scan_VN04	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN04 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S04(VN04)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
260		Overlap_post_Pre_post_scan_VN05	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN05 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S08(VN05)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
261		Overlap_post_Pre_post_scan_VN06	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN06 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S03(VN06)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
262		Overlap_post_Pre_post_scan_VN07	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN07 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S02(VN07)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
263		Overlap_post_Pre_post_scan_VN08	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN08 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S09(VN08)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
264		Overlap_post_Pre_post_scan_VN09	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN09 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S11(VN09)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
265		Overlap_post_Pre_post_scan_VN10	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN10 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S01(VN10)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	
266		Overlap_post_Pre_post_scan_VN11	H5T_STD_U16LE	3	248	92		Data_description	AUX raw image data of VN11 (blank, pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan, blank)	H5T_C_S1	
								CCD_line_number	S10(VN11)	H5T_C_S1	
								Error_value	65535	H5T_STD_U16LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	00-19 : blank 20-36 : pre scan 37-44 : pre OPB scan 45 : pre dummy scan 46 : post dummy scan 47-54 : post OPB scan 55-71 : post scan 72-91 : blank	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
267		Overlap_pre_Raw_packet1	H5T_STD_U8LE	3	248	594		Data_description	Packet#1 raw data (except header)	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	octets	H5T_C_S1	
268		Overlap_post_Raw_packet1	H5T_STD_U8LE	3	248	594		Data_description	Packet#1 raw data (except header)	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	octets	H5T_C_S1	
269		Overlap_pre_Raw_packet_header	H5T_STD_U8LE	3	248	312		Data_description	Raw packet header of all packets(#1-12)	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	octets	H5T_C_S1	
270		Overlap_post_Raw_packet_header	H5T_STD_U8LE	3	248	312		Data_description	Raw packet header of all packets(#1-12)	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	octets	H5T_C_S1	
271		Overlap_pre_Qf_scan	H5T_STD_U8LE	3	11	6816		Data_description	Quality flag of each scan	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10)	H5T_C_S1	
								Dim2	lines	H5T_C_S1	
								Bit00(LSB)-002	Quality flag 000 : Normal line 001 : Lack line 101 : Lack line (for synchronization between sensors) 010 : Resampling line (250m->1km/500m) 110 : Resampling line (500m->1km) 111 : Mixed line (000,001,101,010,110)	H5T_C_S1	
272		Overlap_post_Qf_scan	H5T_STD_U8LE	3	11	6816		Data_description	Quality flag of each scan	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10)	H5T_C_S1	
								Dim2	lines	H5T_C_S1	
								Bit00(LSB)-002	Quality flag 000 : Normal line 001 : Lack line 101 : Lack line (for synchronization between sensors) 010 : Resampling line (250m->1km/500m) 110 : Resampling line (500m->1km) 111 : Mixed line (000,001,101,010,110)	H5T_C_S1	
273	Reserved	Unused_packet_left	H5T_STD_U8LE	0	2414			Data_description	Unused mission data packet(Left)	H5T_C_S1	
								Dim0	packets	H5T_C_S1	
								Dim1	octets	H5T_C_S1	
274		Unused_packet_nadir	H5T_STD_U8LE	0	2414			Data_description	Unused mission data packet(Nadir)	H5T_C_S1	
								Dim0	packets	H5T_C_S1	
								Dim1	octets	H5T_C_S1	
275		Unused_packet_right	H5T_STD_U8LE	0	2414			Data_description	Unused mission data packet(Right)	H5T_C_S1	
								Dim0	packets	H5T_C_S1	
								Dim1	octets	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
	Global_attributes	—	—	—	—	—	—	Product_file_name	GC1SG1_201305201801_12302_1ASG_POLDK_1001.h5	H5T_C_S1	
		—	—	—	—	—	—	Mission_characteristics	Nominal orbit:inclination = 98.6(Sun-Synchronous); node = 10:15-10:45 AM(descending); eccentricity < 0.0012; altitude = 798km; ground speed = 6.6km/sec; revolutions per day =14+9/34	H5T_C_S1	
		—	—	—	—	—	—	Sensor	Second-generation Global Imager (SGLI)	H5T_C_S1	
		—	—	—	—	—	—	Algorithm_version	0.10	H5T_C_S1	
		—	—	—	—	—	—	Parameter_version	002.00	H5T_C_S1	
		—	—	—	—	—	—	Algorithm_developer	Japan Aerospace Exploration Agency (JAXA)	H5T_C_S1	
		—	—	—	—	—	—	Dataset_description	Sensor output (digital counts)	H5T_C_S1	
		—	—	—	—	—	—	Product_name	Sensor output (digital counts)	H5T_C_S1	
		—	—	—	—	—	—	Product_version	0002	H5T_C_S1	
		—	—	—	—	—	—	Satellite	Global Change Observation Mission - Climate (GCOM-C)	H5T_C_S1	
		—	—	—	—	—	—	Product_level	Level-1A	H5T_C_S1	
		—	—	—	—	—	—	Scene_start_time	20030320 23:28:39.823	H5T_C_S1	
		—	—	—	—	—	—	Scene_end_time	20030320 23:32:49.287	H5T_C_S1	
		—	—	—	—	—	—	Scene_center_time	20030320 23:30:44.555	H5T_C_S1	
		—	—	—	—	—	—	Ascending_node_crossing_time	20030320 23:42:23.000	H5T_C_S1	
		—	—	—	—	—	—	Total_orbit_number	12345	H5T_STD_I32LE	
		—	—	—	—	—	—	RSP_path_number	123	H5T_STD_I32LE	
		—	—	—	—	—	—	Scene_number	2	H5T_STD_I32LE	
		—	—	—	—	—	—	Orbit_direction	Ascending	H5T_C_S1	
		—	—	—	—	—	—	Maneuver_status	Include	H5T_C_S1	
		—	—	—	—	—	—	Start_argument_of_latitude	1	H5T_IEEE_F32LE	
		—	—	—	—	—	—	End_argument_of_latitude	15	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Lines_per_scan	1, 1, 1, 1, 1, 1	H5T_STD_I32LE_	
		—	—	—	—	—	—	Stored_channels	PL01(+60), PL01(0), PL01(-60), PL02(+60), PL02(0), PL02(-60)	H5T_C_S1	
		—	—	—	—	—	—	Missing_lines	0, 0, 0, 0, 0, 0	H5T_STD_I32LE_[6]	
		—	—	—	—	—	—	Missing_lines_rate	0.0, 0.0, 0.0, 0.0, 0.0, 0.0	H5T_IEEE_F32LE_[6]	
		—	—	—	—	—	—	Saturated_pixels_rate	0.0, 0.0, 0.0, 0.0, 0.0, 0.0	H5T_IEEE_F32LE_[6]	Calculation method of the saturation pixel rate is the same as VNR-NP. However, N: the number of pixels in L1A scene. (Raw_data/Number_of_lines) × (Raw_data/Number_of_pixels) Saturation threshold value of the digital count value is the processing parameter for each channel.
		—	—	—	—	—	—	Abnormal_positions_rate	0.0	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Abnormal_velocities_rate	0.0	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Abnormal_attitudes_rate	0.0	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Geometric_information_error_rate	0.0, 0.0, 0.0, 0.0, 0.0, 0.0	H5T_IEEE_F32LE_[6]	
		—	—	—	—	—	—	Individual_quality_info	GGGGGGGGGGGGGGGG	H5T_C_S1	G : Good P : Poor F : Fair N : NG
		—	—	—	—	—	—	Quality_judge_line	0	H5T_STD_I32LE	
	Processing_attributes	—	—	—	—	—	—	Contact_point	JAXA/GCOM project team	H5T_C_S1	
		—	—	—	—	—	—	Input_files		H5T_C_S1	In the case of the reprocessed product using L1A product as input, L1A product name is stored.
		—	—	—	—	—	—	Processing_UT	20120813 01:30:35	H5T_C_S1	
		—	—	—	—	—	—	Processing_result	Good	H5T_C_S1	
		—	—	—	—	—	—	Processing_result_description	Good, Fair, Poor, NG	H5T_C_S1	
		—	—	—	—	—	—	Processing_organization	JAXA/GCOM-C project	H5T_C_S1	

B

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
	Raw_data	—	—	—	—	—	—	Number_of_lines	27167	H5T_STD_I32LE	
		—	—	—	—	—	—	Number_of_pixels	857	H5T_STD_I32LE	
1		P1_p60	H5T_STD_U16LE	27167	857			Data_description	Observed digital count of PL1 +60degree Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	673.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1503.605	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	324.5	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	1000.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
2		P1_0	H5T_STD_U16LE	27167	857			Data_description	Observed digital count of PL1 0degree Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	673.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1503.605	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	346.5	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	1000.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
3		P1_m60	H5T_STD_U16LE	27167	857			Data_description	Observed digital count of PL1 -60degree Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	673.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1503.605	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	322.3	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	1000.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
4		P2_p60	H5T_STD_U16LE	27167	857			Data_description	Observed digital count of PL2 +60degree Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	868.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	956.8333	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	435.6	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	1000.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
5		P2_0	H5T_STD_U16LE	27167	857			Data_description	Observed digital count of PL2 0degree Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	868.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	956.8333	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	466.4	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	1000.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
6		P2_m60	H5T_STD_U16LE	27167	857			Data_description	Observed digital count of PL2 -60degree Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	868.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	956.8333	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	440	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	1000.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
7		Pre_post_scan_P1_p60	H5T_STD_U16LE	27167	92			Data_description	AUX raw image data of PL1 +60degree (pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan)	H5T_C_S1	
								CCD_line_number	PL1-S09(p60)	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	0-33 : pre scan 34-43 : pre OPB scan 44-45 : pre dummy scan 46-47 : post dummy scan 48-57 : post OPB scan 58-91 : post scan	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
8		Pre_post_scan_P1_0	H5T_STD_U16LE	27167	92			Data_description	AUX raw image data of PL1 0degree (pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan)	H5T_C_S1	
								CCD_line_number	PL1-S10(pm0)	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	0-33 : pre scan 34-43 : pre OPB scan 44-45 : pre dummy scan 46-47 : post dummy scan 48-57 : post OPB scan 58-91 : post scan	H5T_C_S1	
9		Pre_post_scan_P1_m60	H5T_STD_U16LE	27167	92			Data_description	AUX raw image data of PL1 -60degree (pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan)	H5T_C_S1	
								CCD_line_number	PL1-S11(m60)	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	0-33 : pre scan 34-43 : pre OPB scan 44-45 : pre dummy scan 46-47 : post dummy scan 48-57 : post OPB scan 58-91 : post scan	H5T_C_S1	
10		Pre_post_scan_P2_p60	H5T_STD_U16LE	27167	92			Data_description	AUX raw image data of PL2 +60degree (pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan)	H5T_C_S1	
								CCD_line_number	PL2-S09(p60)	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	0-33 : pre scan 34-43 : pre OPB scan 44-45 : pre dummy scan 46-47 : post dummy scan 48-57 : post OPB scan 58-91 : post scan	H5T_C_S1	
11		Pre_post_scan_P2_0	H5T_STD_U16LE	27167	92			Data_description	AUX raw image data of PL2 0degree (pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan)	H5T_C_S1	
								CCD_line_number	PL2-S10(pm0)	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	0-33 : pre scan 34-43 : pre OPB scan 44-45 : pre dummy scan 46-47 : post dummy scan 48-57 : post OPB scan 58-91 : post scan	H5T_C_S1	
12		Pre_post_scan_P2_m60	H5T_STD_U16LE	27167	92			Data_description	AUX raw image data of PL2 -60degree (pre scan, pre OPB scan, pre dummy scan, post dummy scan, post OPB scan, post scan)	H5T_C_S1	
								CCD_line_number	PL2-S11(m60)	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	0-33 : pre scan 34-43 : pre OPB scan 44-45 : pre dummy scan 46-47 : post dummy scan 48-57 : post OPB scan 58-91 : post scan	H5T_C_S1	
13		Realtime_PCD	H5T_STD_U8LE	4139	256			Data_description	GCOM-C PCD raw data	H5T_C_S1	
								Dim0	Realtime PCD records (1Hz)	H5T_C_S1	
								Dim1	octets	H5T_C_S1	
14	Raw_data/AUX_packet	Raw_packet1	H5T_STD_U8LE	2	27167	594		Data_description	Packet1 auxiliary Raw data	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	octets	H5T_C_S1	
15		Raw_packet_header	H5T_STD_U8LE	2	27167	104		Data_description	Packet header of all packets	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	octets	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
	Ancillary_data	—	—	—	—	—	—	Data_description	Don't use the record when lack line. (Refer to Data_quality_flag/Qf_Scan)	H5T_C_S1	
16	Ancillary_data/TC_FPGA	Mode_register	H5T_STD_U8LE	2	27167			Data_description	Mode register	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
17		Bord_address_register	H5T_STD_U8LE	2	27167			Data_description	Board address	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
18		SD4_PL_ASP_A_B_status	H5T_STD_U8LE	2	27167			Data_description	SD4 PL-ASP A/B status 0 : A 1 : B	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
19		SD3_NP_ASP_A_B_status	H5T_STD_U8LE	2	27167			Data_description	SD3 NP-ASP A/B status 0 : A 1 : B	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
20		SD2_MTR_A_B_status	H5T_STD_U8LE	2	27167			Data_description	SD2 MTR A/B status 0 : A 1 : B	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
21		SD1_HCE_A_B_status	H5T_STD_U8LE	2	27167			Data_description	SD1 HCE A/B status 0 : A 1 : B	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
22		Double_buffer_output_status	H5T_STD_U8LE	2	27167			Data_description	Double buffer output status 0 : A 1 : B	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
23		TC_FPGA_ENA_DIS	H5T_STD_U8LE	2	27167			Data_description	TC-FPGA ENA/DIS 0 : DISABLE 1 : ENABLE	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
24	Ancillary_data/PL_DSP_FPGA	Raw_mode_DSP	H5T_STD_U8LE	2	27167			Data_description	DSP status in raw data mode or observation mode 0 : Observation 1 : Raw	H5T_C_S1	
								TLM_info_tlmID	VN0075, VN0085	H5T_C_S1	
								TLM_info_name	VNR PL-1 RAW DAT MODE, VNR PL-2 RAW DAT MODE	H5T_C_S1	
								TLM_info_short_name	V PL-1 RAW MODE SEL, V PL-2 RAW MODE SEL	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
25		DAT_ena_dis_status	H5T_STD_U8LE	2	27167			Data_description	Observation data enable or disable status 0 : Disable 1 : Enable	H5T_C_S1	
								TLM_info_tlmID	VN0076, VN0086	H5T_C_S1	
								TLM_info_name	VNR PL-1 DAT ENA/DIS, VNR PL-2 DAT ENA/DIS	H5T_C_S1	
								TLM_info_short_name	V PL-1 DAT ENA/DIS, V PL-2 DAT ENA/DIS	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
26	Ancillary_data/PL_ASP_telemetry	Line_rate	H5T_STD_U8LE	2	27167	3		Data_description	Selected line rate status The value of -60[degree] is invalid data, refer to 0[degree].	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	+60, 0, -60	H5T_C_S1	
27		Shutter_set_band	H5T_STD_U8LE	2	27167	3		Data_description	Selected band number in integration time 9 : BAND1(+60) 10 : BAND2(0) 11 : BAND3(-60) The value of 0[degree] is invalid data and needs to be replaced by 10:BAND2(0). The value of integration time is set in Dim2 of /Ancillary_data/PL_ASP_telemetry/Integration_time in order of +60[degree],0[degree],-60[degree].	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	+60, 0, -60	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
28		Integration_time	H5T_STD_U8LE	2	27167	3		Data_description	Selected Integration time The value of +60[degree] is invalid data, refer to 0[degree].	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	+60, 0, -60	H5T_C_S1	
29		t3	H5T_IEEE_F64LE	2	27167	3		Data_description	Integration time t3(usec)	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	+60, 0, -60	H5T_C_S1	
30	Ancillary_data/PL_ASP_SD	PL_ASP_select	H5T_STD_U8LE	2	27167			Data_description	Selected lens telescope name in command 1 : P1 2 : P2 5 : Internal lamp (PD monitor gain) 6 : Internal lamp (LED white on/off) 7 : Internal lamp (LED NIR on/off)	H5T_C_S1	
								TLM_info_tlmID	VN0562	H5T_C_S1	
								TLM_info_name	VNR PL TYPE	H5T_C_S1	
								TLM_info_short_name	V PL SEL	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
31		PL_ASP_mode_status(PL1)	H5T_STD_U8LE	2	27167			Data_description	Selected mode of each lens telescope 1 : Wait mode 3 : Observation mode (observation data input) 5 : Observation mode (electrical calibration input)	H5T_C_S1	
								TLM_info_tlmID	VN0563	H5T_C_S1	
								TLM_info_name	VNR PL-1 MODE	H5T_C_S1	
								TLM_info_short_name	V PL-1 MODE	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
32		PL_ASP_mode_status(PL2)	H5T_STD_U8LE	2	27167			Data_description	Selected mode of each lens telescope 1 : Wait mode 3 : Observation mode (observation data input) 5 : Observation mode (electrical calibration input)	H5T_C_S1	
								TLM_info_tlmID	VN0564	H5T_C_S1	
								TLM_info_name	VNR PL-2 MODE	H5T_C_S1	
								TLM_info_short_name	V PL-2 MODE	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
33		DET_drive_status(PL1)	H5T_STD_U8LE	2	27167			Data_description	Detector CCD drive status 0 : OFF 1 : ON	H5T_C_S1	
								TLM_info_tlmID	VN0565	H5T_C_S1	
								TLM_info_name	VNR PL-1 DET ON/OFF	H5T_C_S1	
								TLM_info_short_name	V PL-1 DET ONOFF	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
34		DET_drive_status(PL2)	H5T_STD_U8LE	2	27167			Data_description	Detector CCD drive status 0 : OFF 1 : ON	H5T_C_S1	
								TLM_info_tlmID	VN0566	H5T_C_S1	
								TLM_info_name	VNR PL-2 DET ON/OFF	H5T_C_S1	
								TLM_info_short_name	V PL-2 DET ONOFF	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
35		Electric_cal_level(PL1)	H5T_STD_U8LE	2	27167			Data_description	Electrical calibration signal level status 1 : Level 1 2 : Level 2 3 : Level 3 4 : Level 4 5 : Level 5 6 : Level 6	H5T_C_S1	
								TLM_info_tlmID	VN0569	H5T_C_S1	
								TLM_info_name	VNR PL-1 ELEC CAL LEVEL	H5T_C_S1	
								TLM_info_short_name	V PL-1 ELEC CAL	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
36		Electric_cal_level(PL2)	H5T_STD_U8LE	2	27167			Data_description	Electrical calibration signal level status 1 : Level 1 2 : Level 2 3 : Level 3 4 : Level 4 5 : Level 5 6 : Level 6	H5T_C_S1	
								TLM_info_tlmID	VN0570	H5T_C_S1	
								TLM_info_name	VNR PL-2 ELEC CAL LEVEL	H5T_C_S1	
								TLM_info_short_name	V PL-2 ELEC CAL	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
37		PD_monitor_gain	H5T_STD_U8LE	2	27167			Data_description	Sun monitor gain 0 : HI gain 1 : LO gain	H5T_C_S1	
								TLM_info_tlmID	VN0573	H5T_C_S1	
								TLM_info_name	VNR PD GAIN HI/LO	H5T_C_S1	
								TLM_info_short_name	V PD GAIN	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
38		LED_white_on_off	H5T_STD_U8LE	2	27167			Data_description	White LED ON/OFF status 0 : LED1 OFF / LED2 OFF 1 : LED1 OFF / LED2 ON 2 : LED1 ON / LED2 OFF 3 : LED1 ON / LED2 ON	H5T_C_S1	
								TLM_info_tlmID	VN0574	H5T_C_S1	
								TLM_info_name	VNR VIS-LED ON/OFF	H5T_C_S1	
								TLM_info_short_name	V VIS-LED ONOFF	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
39		LED_NIR_on_off	H5T_STD_U8LE	2	27167			Data_description	LED NIR status 0 : LED1 OFF / LED2 OFF 1 : LED1 OFF / LED2 ON 2 : LED1 ON / LED2 OFF 3 : LED1 ON / LED2 ON	H5T_C_S1	
								TLM_info_tlmID	VN0575	H5T_C_S1	
								TLM_info_name	VNR NIR-LED ON/OFF	H5T_C_S1	
								TLM_info_short_name	V NIR-LED ONOFF	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
40		PD_monitor	H5T_IEEE_F32LE	2	27167	4		Data_description	Sun monitor	H5T_C_S1	
								TLM_info_tlmID	VN0576, VN0577, VN0578, VN0579	H5T_C_S1	
								TLM_info_name	VNR PD MON1, VNR PD MON2, VNR PD MON3, VNR PD MON4	H5T_C_S1	
								TLM_info_short_name	V PD LEV1, V PD LEV2, V PD LEV3, V PD LEV4	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	-999	H5T_IEEE_F32LE	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	monitor1-monitor4	H5T_C_S1	
								Unit	nA	H5T_C_S1	
41		LED_white_current	H5T_IEEE_F32LE	2	27167	2	4	Data_description	LED white current	H5T_C_S1	
								TLM_info_tlmID	VN0580, VN0581, VN0582, VN0583, VN0584, VN0585, VN0586, VN0587	H5T_C_S1	
								TLM_info_name	VNR VIS-LED1-1 CUR, VNR VIS-LED1-2 CUR, VNR VIS-LED1-3 CUR, VNR VIS-LED1-4 CUR, VNR VIS-LED2-1 CUR, VNR VIS-LED2-2 CUR, VNR VIS-LED2-3 CUR, VNR VIS-LED2-4 CUR	H5T_C_S1	
								TLM_info_short_name	V VIS-LED1-1 CUR, V VIS-LED1-2 CUR, V VIS-LED1-3 CUR, V VIS-LED1-4 CUR, V VIS-LED2-1 CUR, V VIS-LED2-2 CUR, V VIS-LED2-3 CUR, V VIS-LED2-4 CUR	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	80	H5T_IEEE_F32LE	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	white LED1, white LED2	H5T_C_S1	
								Dim3	cur1-cur4	H5T_C_S1	
								Unit	mA	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
42		LED_NIR_current	H5T_IEEE_F32LE	2	27167	2		Data_description	LED NIR current	H5T_C_S1	
								TLM_info_tlmID	VN0588, VN0589	H5T_C_S1	
								TLM_info_name	VNR NIR-LED1 CUR, VNR NIR-LED2 CUR	H5T_C_S1	
								TLM_info_short_name	V NIR-LED1 CUR, V NIR-LED2 CUR	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	120	H5T_IEEE_F32LE	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	NIR LED1 NIR LED2	H5T_C_S1	
								Unit	mA	H5T_C_S1	
43		LED_white_temperature	H5T_IEEE_F32LE	2	27167	2		Data_description	LED white temperature	H5T_C_S1	
								TLM_info_tlmID	VN0590, VN0591	H5T_C_S1	
								TLM_info_name	VNR VIS-LED TMP1, VNR VIS-LED TMP2	H5T_C_S1	
								TLM_info_short_name	V VIS-LED TMP1, V VIS-LED TMP2	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	60	H5T_IEEE_F32LE	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	LED1 monitor, LED2 monitor	H5T_C_S1	
								Unit	degree C	H5T_C_S1	
44		LED_NIR_temperature	H5T_IEEE_F32LE	2	27167	2		Data_description	LED NIR temperature	H5T_C_S1	
								TLM_info_tlmID	VN0592, VN0593	H5T_C_S1	
								TLM_info_name	VNR NIR-LED TMP1, VNR NIR-LED TMP2	H5T_C_S1	
								TLM_info_short_name	V NIR-LED TMP1, V NIR-LED TMP2	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	60	H5T_IEEE_F32LE	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	LED1 monitor, LED2 monitor	H5T_C_S1	
								Unit	degree C	H5T_C_S1	
45		PD_monitor_temperature	H5T_IEEE_F32LE	2	27167			Data_description	Sun monitor temperature	H5T_C_S1	
								TLM_info_tlmID	VN0594	H5T_C_S1	
								TLM_info_name	VNR PD TMP	H5T_C_S1	
								TLM_info_short_name	V PD TMP	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	60	H5T_IEEE_F32LE	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Unit	degree C	H5T_C_S1	
46		CCD_temperature(PL1)	H5T_IEEE_F32LE	2	27167	2		Data_description	CCD temperature	H5T_C_S1	
								TLM_info_tlmID	VN0595, VN0596	H5T_C_S1	
								TLM_info_name	VNR PL CCD TMP1, VNR PL CCD TMP2	H5T_C_S1	
								TLM_info_short_name	V PL CCD TMP1, V PL CCD TMP2	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	60	H5T_IEEE_F32LE	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	temp1, temp2	H5T_C_S1	
								Unit	degree C	H5T_C_S1	
47		CCD_temperature(PL2)	H5T_IEEE_F32LE	2	27167	2		Data_description	CCD temperature	H5T_C_S1	
								TLM_info_tlmID	VN0597, VN0598	H5T_C_S1	
								TLM_info_name	VNR PL CCD TMP3, VNR PL CCD TMP4	H5T_C_S1	
								TLM_info_short_name	V PL CCD TMP3, V PL CCD TMP4	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	60	H5T_IEEE_F32LE	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	temp3, temp4	H5T_C_S1	
								Unit	degree C	H5T_C_S1	
48	Ancillary_data/MTR_SD	Diffuser_pulse_count	H5T_IEEE_F32LE	2	27167			Data_description	Steer angle of scatter diffuser	H5T_C_S1	
								TLM_info_tlmID	VN0668	H5T_C_S1	
								TLM_info_name	VNR DIF PLS(ANG)	H5T_C_S1	
								TLM_info_short_name	V DIF PLS CNT(ANG)	H5T_C_S1	
								Minimum_valid_value	-175	H5T_IEEE_F32LE	
								Maximum_valid_value	45	H5T_IEEE_F32LE	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Unit	degree	H5T_C_S1	
49		Diffuser_status	H5T_STD_U8LE	2	27167			Data_description	Status of scatter diffuser 0 : Stop 1 : Drive	H5T_C_S1	
								TLM_info_tlmID	VN0603	H5T_C_S1	
								TLM_info_name	VNR DIF MOVE ST	H5T_C_S1	
								TLM_info_short_name	V DIF MOVE ST	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
50		Tilt_status	H5T_STD_U8LE	2	27167			Data_description	Status of tilt 0 : Stop 1 : Drive	H5T_C_S1	
								TLM_info_tlmID	VN0628	H5T_C_S1	
								TLM_info_name	VNR TLT MOVE ST	H5T_C_S1	
								TLM_info_short_name	V TILT MOVE ST	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
51		Tilt_angle	H5T_IEEE_F32LE	2	27167			Data_description	Tilt angle of VNR-PL lens telescope	H5T_C_S1	
								TLM_info_tlmID	VN0669	H5T_C_S1	
								TLM_info_name	VNR TLT PLS(ANG)	H5T_C_S1	
								TLM_info_short_name	V TLT PLS CNT(ANG)	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32LE	
								Maximum_valid_value	90	H5T_IEEE_F32LE	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Unit	degree	H5T_C_S1	
52		Tilt_angle_resolver	H5T_IEEE_F32LE	2	27167			Data_description	Tilt angle from resolver count of VNR-PL lens	H5T_C_S1	
								TLM_info_tlmID	VN0638	H5T_C_S1	
								TLM_info_name	VNR TLT RESE DAT	H5T_C_S1	
								TLM_info_short_name	V TLT RESE DAT	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32LE	
								Maximum_valid_value	90	H5T_IEEE_F32LE	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Unit	degree	H5T_C_S1	
53	Ancillary_data/HCE_SD	HCE_temperature	H5T_IEEE_F64LE	2	27167	64		Data_description	HCE sensor temperature	H5T_C_S1	
								TLM_info_tlmID	VN0345-VN0408	H5T_C_S1	
								TLM_info_name	VNR HCE CH1 TMP-VNR HCE CH1 TMP	H5T_C_S1	
								TLM_info_short_name	V HCE TMP NUM1-V HCE TMP NUM64	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64LE	
								Maximum_valid_value	-999	H5T_IEEE_F64LE	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	temp1-temp64	H5T_C_S1	
								Unit	degree C	H5T_C_S1	
	Converted_PCD	—	—	—	—	—	—	Worst_orbit_source	0	H5T_STD_U8LE	
		—	—	—	—	—	—	Worst_orbit_source_data_description	Source of orbit data(GPS_position_ECR,GPS_velocity_ECR,GPS_position_ECI,GPS_velocity_ECI,Argument_of_latitude) 0 : Realtime PCD 1 : Decision Ephemeris 2 : Prediction Ephemeris	H5T_C_S1	
		—	—	—	—	—	—	Worst_attitude_source	0	H5T_STD_U8LE	
		—	—	—	—	—	—	Worst_attitude_source_data_description	Source of attitude data(Attitude_time,Attitude_error_angle,Attitude_angular_velocity,Attitude_flag,Quaternion,Quaternion_index,Quaternion_number) 0 : Realtime PCD (Quaternion) 1 : Realtime PCD (Eular angle) 2 : Nominal	H5T_C_S1	
54		Navigation_time	H5T_IEEE_F64LE	4139				Data_description	GPS navigation time	H5T_C_S1	
								Epoch_time	19800106 00:00:00	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Unit	sec	H5T_C_S1	
55		GPS_position_ECR	H5T_IEEE_F32LE	4139	3			Data_description	GCOM-C position calculated by GPS	H5T_C_S1	
								Coordinate_system	WGS84	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Dim1	x,y,z	H5T_C_S1	
								Unit	km	H5T_C_S1	
56		GPS_velocity_ECR	H5T_IEEE_F32LE	4139	3			Data_description	GCOM-C velocity calculated by GPS	H5T_C_S1	
								Coordinate_system	WGS84	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Dim1	Vx,Vy,Vz	H5T_C_S1	
								Unit	km/s	H5T_C_S1	
57		GPS_position_ECI	H5T_IEEE_F32LE	4139	3			Data_description	GCOM-C position calculated by GPS	H5T_C_S1	
								Coordinate_system	J2000	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Dim1	x,y,z	H5T_C_S1	
								Unit	km	H5T_C_S1	
58		GPS_velocity_ECI	H5T_IEEE_F32LE	4139	3			Data_description	GCOM-C velocity calculated by GPS	H5T_C_S1	
								Coordinate_system	J2000	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Dim1	Vx,Vy,Vz	H5T_C_S1	
								Unit	km/s	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
59		Argument_of_latitude	H5T_IEEE_F32LE	4139				Data_description	Argument of latitude (true anomaly)	H5T_C_S1	
								Coordinate_system	WGS84	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Unit	degree	H5T_C_S1	
60		Navigation_status	H5T_STD_U32LE	4139				Data_description	Navigation status	H5T_C_S1	
								Bit00(LSB)-01	navigation status 00 : Stop 01 : AG filter 10 : Kalman filter 11 : Kalman filter(Convergence)	H5T_C_S1	
								Bit02-07	spare	H5T_C_S1	
								Bit08-09	antenna (CH1) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit10-11	antenna (CH2) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit12-13	antenna (CH3) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit14-15	antenna (CH4) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit16-17	antenna (CH5) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit18-19	antenna (CH6) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit20-21	antenna (CH7) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit22-23	antenna (CH8) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit24-31(MSB)	spare	H5T_C_S1	
								Dim0	Realtime PCD records (1Hz)	H5T_C_S1	
61		Attitude_time	H5T_IEEE_F64LE	4139				Data_description	Time when attitude determined	H5T_C_S1	
								Epoch_time	19800106 00:00:00	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Unit	sec	H5T_C_S1	
62		Attitude_error_angle	H5T_IEEE_F32LE	4139	3			Data_description	Attitude error	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Dim1	Roll, Pitch, Yaw	H5T_C_S1	
								Unit	degree	H5T_C_S1	
63		Attitude_angular_velocity	H5T_IEEE_F32LE	4139	3			Data_description	Attitude angular velocity	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Dim1	Roll, Pitch, Yaw	H5T_C_S1	
								Unit	degree/sec	H5T_C_S1	
64		Attitude_flag	H5T_STD_U8LE	4139				Data_description	Quaternion usable / unusable flag 0 : ESA/IRU (quaternion unusable) 1 : STT/IRU (quaternion usable) 255 : Error value	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
65		Quaternion	H5T_IEEE_F32LE	4139	11	4		Data_description	Quaternion(9-11 data per sec)	H5T_C_S1	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Dim1	Maximum number of quaternions (unusable area is stored with indefinite value)	H5T_C_S1	
								Dim2	q1, q2, q3, q4(scalar)	H5T_C_S1	
66		Quaternion_index	H5T_STD_U8LE	4139				Data_description	Quaternion index (0-10) corresponds to "Att_time"	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Minimum_valid_value	0	H5T_STD_U8LE	
								Maximum_valid_value	10	H5T_STD_U8LE	
								Dim0	attitude records (1Hz)	H5T_C_S1	
67		Quaternion_number	H5T_STD_U8LE	4139				Data_description	Available number of quaternion	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Minimum_valid_value	9	H5T_STD_U8LE	
								Maximum_valid_value	11	H5T_STD_U8LE	
								Dim0	attitude records (1Hz)	H5T_C_S1	
68		AOCS_mode	H5T_STD_U8LE	4139				Data_description	AOCS(Attitude and Orbit Control System) control mode	H5T_C_S1	
								Bit00(LSB)-07	Control Mode / Control Sub Mode 01110000 : Normal control / Not execute unloading 01110001 : Normal control / Execute magnetic unloading 01110010 : Normal control / Execute thruster unloading 10000000 : Orbit control / Attitude control thruster Delta-V (pitch and yaw-failure) 10000001 : Orbit control / Orbit control thruster (normal) 10000010 : Orbit control / Orbit control thruster Delta-V (pitch-failure) 10000011 : Orbit control / Orbit control thruster Delta-V (yaw-failure) 10000100 : Orbit control / Attitude control thruster(Three axis stabilized attitude control) 10000101 : Orbit control / Delta-V Idling 10000110 : Orbit control / Yaw around (first half) 10000111 : Orbit control / Yaw around (last half) 10010000 : Calibration Maneuver / Solar calibration or Gain deviation maneuver(First maneuver) 10010001 : Calibration Maneuver / Solar calibration or Gain deviation maneuver(Second maneuver) 10010010 : Calibration Maneuver / Solar calibration or Gain deviation maneuver(Third maneuver) 10010011 : Calibration Maneuver / Lunar calibration maneuver(First maneuver) 10010100 : Calibration Maneuver / Lunar calibration maneuver(Second maneuver) 10010101 : Calibration Maneuver / Lunar calibration maneuver(Third maneuver) Others : Not defined	H5T_C_S1	
								Error_value	255	H5T_C_S1	
								Dim0	Realtime PCD records (1Hz)	H5T_C_S1	
69		Orbit_source	H5T_STD_U8LE	4139				Data_description	Source of orbit data(GPS_position_ECR,GPS_velocity_ECR,GPS_position_ECI,GPS_velocity_ECI,Argument_of_latitude) 0 : Realtime PCD 1 : Decision Ephemeris 2 : Prediction Ephemeris	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
70		Attitude_source	H5T_STD_U8LE	4139				Data_description	Source of attitude data(Attitude_time,Attitude_error_angle,Attitude_angular_velocity,Attitude_flag,Quaternion,Quaternion_index,Quaternion_number) 0 : Realtime PCD (Quaternion) 1 : Realtime PCD (Eular angle) 2 : Nominal	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
	Geometry_parameter	—	—	—	—	—	—	Geometry_parameter_version	0002	H5T_C_S1	B
71		Sensor_position	H5T_IEEE_F64LE	2	3			Data_description	Sensor base position	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	x, y, z	H5T_C_S1	
								Unit	mm	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
72		GPSR_position	H5T_IEEE_F64LE	2	3			Data_description	GPSR position	H5T_C_S1	
								Dim0	Antenna-A, Antenna-B	H5T_C_S1	
								Dim1	x, y, z	H5T_C_S1	
								Unit	mm	H5T_C_S1	
73		Sensor_alignment	H5T_IEEE_F64LE	2	3	3		Data_description	Sensor alignment	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	Rows	H5T_C_S1	
								Dim2	Columns	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
74		Primary_change_rate	H5T_IEEE_F64LE	2	3			Data_description	Primary change rate	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lx, ly, lz	H5T_C_S1	
								Unit	radian/day	H5T_C_S1	
75		Exponential_amplitude	H5T_IEEE_F64LE	2	3			Data_description	Exponential term amplitude	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	Ax, Ay, Az	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
76		Exponential_time_constant	H5T_IEEE_F64LE	2				Data_description	Exponential term time constant	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Unit	day	H5T_C_S1	
77		Long_period	H5T_IEEE_F64LE	2				Data_description	Long round period	H5T_C_S1	
								Epoch_time	20000101	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Unit	day	H5T_C_S1	
78		Long_fourier_coef	H5T_IEEE_F64LE	2	6	8		Data_description	Fourier series coefficient (Long round period)	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	ax, bx, ay, by, az, bz	H5T_C_S1	
								Dim2	degree1-degree8	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
79		Orbit_period	H5T_IEEE_F64LE	2				Data_description	Orbit period	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Unit	min	H5T_C_S1	
80		Orbit_fourier_coef	H5T_IEEE_F64LE	2	6	8		Data_description	Fourier series coefficient (Orbit period)	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	ax, bx, ay, by, az, bz	H5T_C_S1	
								Dim2	degree1-degree8	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
81		Tilt_axis	H5T_IEEE_F64LE	3				Data_description	PL telescope tilt drive axis	H5T_C_S1	
								Dim0	alpha, beta, gamma	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
82		Tilt_error_coef	H5T_IEEE_F64LE	5				Data_description	Tilt angle error correct coefficient	H5T_C_S1	
								Dim0	A0-A4	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
83		Tilt_coef	H5T_IEEE_F64LE	2	3	8		Data_description	Tilt coefficient	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	Mx, My, Mz	H5T_C_S1	
								Dim2	degree1-degree8	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
84		Geo_opt_P1	H5T_IEEE_F64LE	3	2	6		Data_description	CCD sensor vector parameter (P1)	H5T_C_S1	
								Dim0	+60, 0, -60	H5T_C_S1	
								Dim1	theta-x, theta-y	H5T_C_S1	
								Dim2	A0-A5	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
85		Geo_opt_P2	H5T_IEEE_F64LE	3	2	6		Data_description	CCD sensor vector parameter (P2)	H5T_C_S1	
								Dim0	+60, 0, -60	H5T_C_S1	
								Dim1	theta-x, theta-y	H5T_C_S1	
								Dim2	A0-A5	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
86	Radiometric_parameter	Offset_prepost_P1_m60	H5T_IEEE_F32LE	27167				Data_description	Radiometric offset parameter from pre/post scan/OPB	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Unit	Count	H5T_C_S1	
87		Offset_prepost_P1_0	H5T_IEEE_F32LE	27167				Data_description	Radiometric offset parameter from pre/post scan/OPB	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Unit	Count	H5T_C_S1	
88		Offset_prepost_P1_p60	H5T_IEEE_F32LE	27167				Data_description	Radiometric offset parameter from pre/post scan/OPB	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Unit	Count	H5T_C_S1	
89		Offset_prepost_P2_m60	H5T_IEEE_F32LE	27167				Data_description	Radiometric offset parameter from pre/post scan/OPB	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Unit	Count	H5T_C_S1	
90		Offset_prepost_P2_0	H5T_IEEE_F32LE	27167				Data_description	Radiometric offset parameter from pre/post scan/OPB	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Unit	Count	H5T_C_S1	
91		Offset_prepost_P2_p60	H5T_IEEE_F32LE	27167				Data_description	Radiometric offset parameter from pre/post scan/OPB	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
92	Data_quality_flag	Qf_scan	H5T_STD_U8LE	6	27167			Data_description	Quality flag of each scan	H5T_C_S1	
								Dim0	P1:+60, 0, -60, P2:+60, 0, -60	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Bit00(LSB)-002	Quality flag 000 : Normal line 001 : Lack line 011 : Lack line (1km/500m->250m or 1km->500m) 100 : Lack line (for calibration) 101 : Lack line (for synchronization between sensors) 010 : Resampling line (250m->1km/500m) 110 : Resampling line (500m->1km) 111 : Mixed line (000,001,011,100,101,010,110)	H5T_C_S1	
93		Qf_data	H5T_STD_U16LE	27167	857			Data_description	Quality flag of each pixel	H5T_C_S1	
								Bit00(LSB)-Bit05	Stray-light quantity flag P1_m60 P1_0 P1_p60 P2_m60 P2_0 P2_p60 0 : Less than threshold 1 : More than threshold	H5T_C_S1	
								Bit06-Bit11	joint surface on polarization filter effect to stray-light correction P1_m60 P1_0 P1_p60 P2_m60 P2_0 P2_p60 0 : Not affect 1 : Affect	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
94		Qf_data_filter	H5T_STD_U8LE	27167	857			Data_description	Data invalid flag of joint surface on polarization	H5T_C_S1	
								Bit00(LSB)-Bit05	P1_m60 P1_0 P1_p60 P2_m60 P2_0 P2_p60 0 : Not joint surface 1 : Joint surface	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
95		Qf_data_stray	H5T_STD_U8LE	27167	857			Data_description	This dataset isn't used.	H5T_C_S1	
								Band_width	0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	0	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1503.605	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_DN	255	H5T_STD_U8LE	
								Maximum_valid_DN	254	H5T_STD_U8LE	
								Minimum_valid_DN	0	H5T_STD_U8LE	
								Saturation_radiance	0.0	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	1000.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.007	H5T_IEEE_F32LE	
								Offset	0	H5T_IEEE_F32LE	
								Channel		H5T_C_S1	
96		Qf_GPS	H5T_STD_U8LE	4139				Data_description	Quality flag of GPS 0 : GPS time standard 1 : DMS time standard 255 : Error value	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
97		Qf_sc_position	H5T_STD_U8LE	4139				Data_description	Quality flag of GCOM-C position 0 : Normal 1 : Satellite position value falls outside the normal range(or Error value)	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
98		Qf_sc_velocity	H5T_STD_U8LE	4139				Data_description	Quality flag of GCOM-C velocity 0 : Normal 1 : Satellite velocity value falls outside the normal range(or Error value)	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
99		Qf_sc_attitude_quaternion	H5T_STD_U8LE	4139				Data_description	Quality flag of GCOM-C quaternion 0 : Normal 1 : Abnormal(or Error value)	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
100		Qf_sc_attitude_eular_angle	H5T_STD_U8LE	4139				Data_description	Quality flag of GCOM-C eular angle 0 : Normal 1 : Abnormal(or Error value)	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
101		Qf_sc_status	H5T_STD_U8LE	4139				Data_description	Quality flag of GCOM-C status 0 : Normal 1 : Possibly less accurate around maneuver or tilt	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
102		Qf_sun_calibration	H5T_STD_U8LE	27167				Data_description	Quality flag of Sun calibration 0 : Not Sun calibration 1 : Sun calibration 2 : Sun calibration(Solar elevation value falls outside the normal range)	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
103		Qf_internal_lamp_calibration	H5T_STD_U8LE	27167				Data_description	Quality flag of internal lamp calibration 0 : Not internal lamp calibration 1 : Internal lamp calibration	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
104		Qf_electric_calibration	H5T_STD_U8LE	27167				Data_description	Quality flag of electrical calibration 0 : Not electrical calibration 1 : Electrical calibration 2 : Indefinite	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
105		Qf_maneuver	H5T_STD_U8LE	27167				Data_description	Quality flag of maneuver 0 : Not maneuver 1 : Not maneuver(out of range) 11 : Maneuver(Moon,out of range) 12 : Maneuver(Moon,in of range) 13 : Maneuver(Moon,indefinite) 21 : Maneuver(Sun/Gain deviation) 22 : Maneuver(Sun/Gain deviation,indefinite) 31 : Orbit Control Mode(STT/IRU) 32 : Orbit Control Mode(STT/IRU,indefinite) 33 : Orbit Control Mode(not STT/IRU) 34 : Orbit Control Mode(not STT/IRU,indefinite) 255 : AOCS Control Mode Error value(nominal attitude)	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
106		Qf_shutter_set	H5T_STD_U8LE	27167				Data_description	Quality flag of shutter set 0 : Normal 1 : indefinite	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
107		Qf_tilt_angle	H5T_STD_U8LE	27167				Data_description	Quality flag of tilt angle 0 : Normal 1 : tilt angle value falls outside the normal range	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
108		Qf_CCD_temperature_VN	H5T_STD_U8LE	27167				Data_description	Quality flag of CCD temperature (VNR-NP)	H5T_C_S1	
								Bit00(LSB)	temperature1 (Left lens telescope) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit01	temperature2 (Left lens telescope) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit02	temperature1 (Nadir lens telescope) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit03	temperature2 (Nadir lens telescope) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit04	temperature1 (Right lens telescope) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit05	temperature2 (Right lens telescope) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
109		Qf_CCD_temperature_PL	H5T_STD_U8LE	27167				Data_description	Quality flag of CCD temperature (VNR-PL)	H5T_C_S1	
								Bit00(LSB)	temperature1 (P1) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit01	temperature2 (P1) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit02	temperature1 (P2) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit03	temperature2 (P2) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Dim0	lines	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
110		Qf_LED_temperature	H5T_STD_U8LE	27167				Data_description	Quality flag of LED	H5T_C_S1	
								Bit00(LSB)	temperature (white LED1) 0 : Normal 1 : LED temperature falls outside the normal range	H5T_C_S1	
								Bit01	temperature (white LED2) 0 : Normal 1 : LED temperature falls outside the normal range	H5T_C_S1	
								Bit02	temperature (NIR LED1) 0 : Normal 1 : LED temperature falls outside the normal range	H5T_C_S1	
								Bit03	temperature (NIR LED2) 0 : Normal 1 : LED temperature falls outside the normal range	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
111		Qf_ASP_temperature	H5T_STD_U8LE	27167				Data_description	Quality flag of ASP temperature	H5T_C_S1	
								Bit00(LSB)	ASP temperature 0 : Normal 1 : ASP temperature falls outside the normal range	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
112		Qf_sun_monitor_temperature	H5T_STD_U8LE	27167				Data_description	Quality flag of sun monitor temperature	H5T_C_S1	
								Bit00-Bit03	monitor1-monitor4 0 : Normal 1 : Sun monitor value falls outside the normal range	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
113		Qf_diffuser	H5T_STD_U8LE	27167				Data_description	Quality flag of scatter diffuser angle 0 : Normal 1 : Scatter diffuser angle falls outside the normal range	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
114		Qf_offset	H5T_STD_U16LE	27167				Data_description	Quality flag of offset	H5T_C_S1	
								Bit00(LSB)	P1 +60degree 0 : Good precision 1 : Bad precision	H5T_C_S1	
								Bit01	P1 0degree 0 : Good precision 1 : Bad precision	H5T_C_S1	
								Bit02	P1 -60degree 0 : Good precision 1 : Bad precision	H5T_C_S1	
								Bit03	P2 +60degree 0 : Good precision 1 : Bad precision	H5T_C_S1	
								Bit04	P2 0degree 0 : Good precision 1 : Bad precision	H5T_C_S1	
								Bit05	P2 -60degree 0 : Good precision 1 : Bad precision	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
115		Qf_gain	H5T_STD_U16LE	27167				Data_description	Quality flag of gain	H5T_C_S1	
								Bit00(LSB)	P1 +60degree 0 : Good precision 1 : Bad precision	H5T_C_S1	
								Bit01	P1 0degree 0 : Good precision 1 : Bad precision	H5T_C_S1	
								Bit02	P1 -60degree 0 : Good precision 1 : Bad precision	H5T_C_S1	
								Bit03	P2 +60degree 0 : Good precision 1 : Bad precision	H5T_C_S1	
								Bit04	P2 0degree 0 : Good precision 1 : Bad precision	H5T_C_S1	
								Bit05	P2 -60degree 0 : Good precision 1 : Bad precision	H5T_C_S1	
								Dim0	lines	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
116		Saturation_num_in_line	H5T_STD_U16LE	6	27167			Data_description	Number of saturation data in line	H5T_C_S1	Calculation method of the saturation pixel rate and saturation condition are the same as VNR-NP. Saturation threshold value of the digital count value is the processing parameter for each channel.
								Dim0	PL01(-60),PL01(0),PL01(+60),PL02(-60),PL02(0),PL02(+60)	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
116	Geometry_data	—	—	—	—	—	—	Number_of_lines	5435	H5T_STD_I32LE	
		—	—	—	—	—	—	Number_of_pixels	173	H5T_STD_I32LE	
		—	—	—	—	—	—	Latitude_unit	degree North	H5T_C_S1	
		—	—	—	—	—	—	Longitude_unit	degree East	H5T_C_S1	
		—	—	—	—	—	—	Upper_left_latitude	31.771229	H5T_IEEE_F32LE	Error_value:-999.99
		—	—	—	—	—	—	Upper_left_longitude	177.67711	H5T_IEEE_F32LE	Error_value:-999.99
		—	—	—	—	—	—	Upper_right_latitude	34.70099	H5T_IEEE_F32LE	Error_value:-999.99
		—	—	—	—	—	—	Upper_right_longitude	158.7626	H5T_IEEE_F32LE	Error_value:-999.99
		—	—	—	—	—	—	Lower_left_latitude	45.7335	H5T_IEEE_F32LE	Error_value:-999.99
		—	—	—	—	—	—	Lower_left_longitude	-175.31715	H5T_IEEE_F32LE	Error_value:-999.99
		—	—	—	—	—	—	Lower_right_latitude	49.363934	H5T_IEEE_F32LE	Error_value:-999.99
		—	—	—	—	—	—	Lower_right_longitude	161.3183	H5T_IEEE_F32LE	Error_value:-999.99
		Latitude_P1_p60	H5T_IEEE_F32LE	5435	173			Data_description	Latitude grid points of P1 +60degree(No elevation correction)	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32LE	
								Maximum_valid_value	90	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	5	H5T_STD_I32LE	
								Data_interval_line	5	H5T_STD_I32LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	pixel grids	H5T_C_S1	
								Unit	degree	H5T_C_S1	
118		Latitude_P1_0	H5T_IEEE_F32LE	5435	173			Data_description	Latitude grid points of P1 0degree(No elevation correction)	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32LE	
								Maximum_valid_value	90	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	5	H5T_STD_I32LE	
								Data_interval_line	5	H5T_STD_I32LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	pixel grids	H5T_C_S1	
								Unit	degree	H5T_C_S1	
119		Latitude_P1_m60	H5T_IEEE_F32LE	5435	173			Data_description	Latitude grid points of P1 -60degree(No elevation correction)	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32LE	
								Maximum_valid_value	90	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	5	H5T_STD_I32LE	
								Data_interval_line	5	H5T_STD_I32LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	pixel grids	H5T_C_S1	
								Unit	degree	H5T_C_S1	
120		Latitude_P2_p60	H5T_IEEE_F32LE	5435	173			Data_description	Latitude grid points of P2 +60degree(No elevation correction)	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32LE	
								Maximum_valid_value	90	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	5	H5T_STD_I32LE	
								Data_interval_line	5	H5T_STD_I32LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	pixel grids	H5T_C_S1	
								Unit	degree	H5T_C_S1	
121		Latitude_P2_0	H5T_IEEE_F32LE	5435	173			Data_description	Latitude grid points of P2 0degree(No elevation correction)	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32LE	
								Maximum_valid_value	90	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	5	H5T_STD_I32LE	
								Data_interval_line	5	H5T_STD_I32LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	pixel grids	H5T_C_S1	
								Unit	degree	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
122		Latitude_P2_m60	H5T_IEEE_F32LE	5435	173			Data_description	Latitude grid points of P2 -60degree(No elevation correction)	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32LE	
								Maximum_valid_value	90	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	5	H5T_STD_I32LE	
								Data_interval_line	5	H5T_STD_I32LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	pixel grids	H5T_C_S1	
								Unit	degree	H5T_C_S1	
123		Longitude_P1_p60	H5T_IEEE_F32LE	5435	173			Data_description	Longitude grid points of P1 +60degree(No elevation correction) Minimum_valid_value < value <= Maximum_valid_value	H5T_C_S1	
								Minimum_valid_value	-180	H5T_IEEE_F32LE	
								Maximum_valid_value	180	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	5	H5T_STD_I32LE	
								Data_interval_line	5	H5T_STD_I32LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	pixel grids	H5T_C_S1	
								Unit	degree	H5T_C_S1	
124		Longitude_P1_0	H5T_IEEE_F32LE	5435	173			Data_description	Longitude grid points of P1 0degree(No elevation correction) Minimum_valid_value < value <= Maximum_valid_value	H5T_C_S1	
								Minimum_valid_value	-180	H5T_IEEE_F32LE	
								Maximum_valid_value	180	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	5	H5T_STD_I32LE	
								Data_interval_line	5	H5T_STD_I32LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	pixel grids	H5T_C_S1	
								Unit	degree	H5T_C_S1	
125		Longitude_P1_m60	H5T_IEEE_F32LE	5435	173			Data_description	Longitude grid points of P1 -60degree(No elevation correction) Minimum_valid_value < value <= Maximum_valid_value	H5T_C_S1	
								Minimum_valid_value	-180	H5T_IEEE_F32LE	
								Maximum_valid_value	180	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	5	H5T_STD_I32LE	
								Data_interval_line	5	H5T_STD_I32LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	pixel grids	H5T_C_S1	
								Unit	degree	H5T_C_S1	
126		Longitude_P2_p60	H5T_IEEE_F32LE	5435	173			Data_description	Longitude grid points of P2 +60degree(No elevation correction) Minimum_valid_value < value <= Maximum_valid_value	H5T_C_S1	
								Minimum_valid_value	-180	H5T_IEEE_F32LE	
								Maximum_valid_value	180	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	5	H5T_STD_I32LE	
								Data_interval_line	5	H5T_STD_I32LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	pixel grids	H5T_C_S1	
								Unit	degree	H5T_C_S1	
127		Longitude_P2_0	H5T_IEEE_F32LE	5435	173			Data_description	Longitude grid points of P2 0degree(No elevation correction) Minimum_valid_value < value <= Maximum_valid_value	H5T_C_S1	
								Minimum_valid_value	-180	H5T_IEEE_F32LE	
								Maximum_valid_value	180	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	5	H5T_STD_I32LE	
								Data_interval_line	5	H5T_STD_I32LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	pixel grids	H5T_C_S1	
								Unit	degree	H5T_C_S1	
128		Longitude_P2_m60	H5T_IEEE_F32LE	5435	173			Data_description	Longitude grid points of P2 -60degree(No elevation correction) Minimum_valid_value < value <= Maximum_valid_value	H5T_C_S1	
								Minimum_valid_value	-180	H5T_IEEE_F32LE	
								Maximum_valid_value	180	H5T_IEEE_F32LE	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Data_interval_pixel	5	H5T_STD_I32LE	
								Data_interval_line	5	H5T_STD_I32LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	pixel grids	H5T_C_S1	
								Unit	degree	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
129		GPS_TAI	H5T_IEEE_F64LE	1				Data_description	Time difference between GPS(Epoch 1980/1/6) and TAI(Epoch 1993/1/1)	H5T_C_S1	
								Unit	sec	H5T_C_S1	
130		Leap_second	H5T_STD_I8LE	2				Data_description	Leap second time (TAI-UTC)	H5T_C_S1	
								Unit	sec	H5T_C_S1	
								Insert_leap_time	20170101, 00000000	H5T_C_S1	
131		Scan_start_time_TAI	H5T_IEEE_F64LE	2	27167			Data_description	Scan start time (TAI)	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Epoch_time	19930101 00:00:00	H5T_C_S1	
								Error_value	0	H5T_IEEE_F64LE	
								Unit	sec	H5T_C_S1	
132		Tilt_Flag	H5T_STD_U8LE	27167				Data_description	Tilt flag 0 : 0[degree] 1 : +45[degree] 2 : -45[degree] 3 : else	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
133		Modified_julian_date	H5T_IEEE_F64LE	2	27167			Data_description	Modified julian date	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Unit	day	H5T_C_S1	
134		Sun_vector_ECI	H5T_IEEE_F64LE	27167	3			Data_description	Sun position vector (J2000)	H5T_C_S1	
								Coordinate_system	J2000	H5T_C_S1	
								Data_interval_line	1	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	x, y, z	H5T_C_S1	
								Unit	km	H5T_C_S1	
135		Moon_vector_ECI	H5T_IEEE_F64LE	27167	3			Data_description	Moon position vector (J2000)	H5T_C_S1	
								Coordinate_system	J2000	H5T_C_S1	
								Data_interval_line	1	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	x, y, z	H5T_C_S1	
								Unit	km	H5T_C_S1	
136		Solar_azimuth	H5T_IEEE_F32LE	27167				Data_description	Solar azimuth angle	H5T_C_S1	
								Coordinate_system	Satellite coordinate system	H5T_C_S1	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Dim0	lines	H5T_C_S1	
								Unit	degree	H5T_C_S1	
137		Solar_zenith	H5T_IEEE_F32LE	27167				Data_description	Solar zenith angle	H5T_C_S1	
								Coordinate_system	Satellite coordinate system	H5T_C_S1	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Dim0	lines	H5T_C_S1	
								Unit	degree	H5T_C_S1	
138		Moon_azimuth	H5T_IEEE_F32LE	27167				Data_description	Moon azimuth angle	H5T_C_S1	
								Coordinate_system	Satellite coordinate system	H5T_C_S1	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Dim0	lines	H5T_C_S1	
								Unit	degree	H5T_C_S1	
139		Moon_zenith	H5T_IEEE_F32LE	27167				Data_description	Moon zenith angle	H5T_C_S1	
								Coordinate_system	Satellite coordinate system	H5T_C_S1	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Dim0	lines	H5T_C_S1	
								Unit	degree	H5T_C_S1	
140	Earth_rotation_parameter	Polar_motion	H5T_IEEE_F64LE	2				Data_description	Polar motion parameter	H5T_C_S1	
								Dim0	dx, dy	H5T_C_S1	
								Unit	sec of arc	H5T_C_S1	
141		UT1-UTC	H5T_IEEE_F32LE	1				Data_description	UT1-UTC	H5T_C_S1	
								Unit	sec	H5T_C_S1	
142		Precession_nutation	H5T_IEEE_F64LE	2				Data_description	Precession and nutation parameter	H5T_C_S1	
								Dim0	dpsi, deps	H5T_C_S1	
								Unit	msec of arc	H5T_C_S1	
142	Extended_area	—	—	—	—	—	—				
143	Reserved	Unused_packet_P1	H5T_STD_U8LE	0	2414			Data_description	Unused mission data packet(P1)	H5T_C_S1	
								Dim0	packets	H5T_C_S1	
								Dim1	octets	H5T_C_S1	
144		Unused_packet_P2	H5T_STD_U8LE	0	2414			Data_description	Unused mission data packet(P2)	H5T_C_S1	
								Dim0	packets	H5T_C_S1	
								Dim1	octets	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
	Global_attributes	—	—	—	—	—	—	Product_file_name	GC1SG1_201305201801_12302_1ASG_IRSDH_1001.h5	H5T_C_S1	
		—	—	—	—	—	—	Mission_characteristics	Nominal orbit:inclination = 98.6(Sun-Synchronous); node = 10:15-10:45 AM(descending); eccentricity < 0.0012; altitude = 798km; ground speed = 6.6km/sec; revolutions per day =14+9/34	H5T_C_S1	
		—	—	—	—	—	—	Sensor	Second-generation Global Imager (SGLI)	H5T_C_S1	
		—	—	—	—	—	—	Algorithm_version	0.10	H5T_C_S1	
		—	—	—	—	—	—	Parameter_version	002.00	H5T_C_S1	
		—	—	—	—	—	—	Algorithm_developer	Japan Aerospace Exploration Agency (JAXA)	H5T_C_S1	
		—	—	—	—	—	—	Dataset_description	Sensor output (digital counts)	H5T_C_S1	
		—	—	—	—	—	—	Product_name	Sensor output (digital counts)	H5T_C_S1	
		—	—	—	—	—	—	Product_version	0002	H5T_C_S1	
		—	—	—	—	—	—	Satellite	Global Change Observation Mission - Climate (GCOM-C)	H5T_C_S1	
		—	—	—	—	—	—	Product_level	Level-1A	H5T_C_S1	
		—	—	—	—	—	—	Scene_start_time	20030320 23:28:39.823	H5T_C_S1	
		—	—	—	—	—	—	Scene_end_time	20030320 23:32:49.287	H5T_C_S1	
		—	—	—	—	—	—	Scene_center_time	20030320 23:30:44.555	H5T_C_S1	
		—	—	—	—	—	—	Ascending_node_crossing_time	20030320 23:42:23.000	H5T_C_S1	
		—	—	—	—	—	—	Total_orbit_number	12345	H5T_STD_I32LE	
		—	—	—	—	—	—	RSP_path_number	123	H5T_STD_I32LE	
		—	—	—	—	—	—	Scene_number	2	H5T_STD_I32LE	
		—	—	—	—	—	—	Orbit_direction	Ascending	H5T_C_S1	
		—	—	—	—	—	—	Maneuver_status	Include	H5T_C_S1	
		—	—	—	—	—	—	Start_argument_of_latitude	1	H5T_IEEE_F32L	
		—	—	—	—	—	—	End_argument_of_latitude	15	H5T_IEEE_F32L	
		—	—	—	—	—	—	Lines_per_scan	5, 5, 5, 5, 10, 10	H5T_STD_I32LE_[6]	
		—	—	—	—	—	—	Stored_channels	SW1, SW2, SW3, SW4, TI1, TI2	H5T_C_S1	
		—	—	—	—	—	—	Missing_lines	0, 0, 0, 0, 0, 0	H5T_STD_I32LE_[6]	
		—	—	—	—	—	—	Missing_lines_rate	0.0, 0.0, 0.0, 0.0, 0.0, 0.0	H5T_IEEE_F32LE_[6]	
		—	—	—	—	—	—	Saturated_pixels_rate	0.0, 0.0, 0.0, 0.0, 0.0, 0.0	H5T_IEEE_F32LE_[6]	Calculation method of the saturation pixel rate is the same as VNR-NP. However, N: the number of pixels in L1A scene. (Raw_data/Number_of_lines) × (Raw_data/Number_of_pixels) Saturation threshold value of the digital count value is the processing parameter for each channel and resolution.
		—	—	—	—	—	—	Abnormal_positions_rate	0.0	H5T_IEEE_F32L	
		—	—	—	—	—	—	Abnormal_velocities_rate	0.0	H5T_IEEE_F32L	
		—	—	—	—	—	—	Abnormal_attitudes_rate	0.0	H5T_IEEE_F32L	
		—	—	—	—	—	—	Geometric_information_error_rate	0.0, 0.0, 0.0, 0.0, 0.0, 0.0	H5T_IEEE_F32LE_[6]	
		—	—	—	—	—	—	Individual_quality_info	GGGGGGGGGGGGGGGG	H5T_C_S1	G : Good P : Poor F : Fair N : NG
		—	—	—	—	—	—	Quality_judge_line	0,0	H5T_STD_I32LE	SWI,TIR
	Processing_attributes	—	—	—	—	—	—	Contact_point	JAXA/GCOM project team	H5T_C_S1	
		—	—	—	—	—	—	Input_files		H5T_C_S1	In the case of the reprocessed product using L1A product as input, L1A product name is stored.
		—	—	—	—	—	—	Processing_UT	20120813 01:30:35	H5T_C_S1	
		—	—	—	—	—	—	Processing_result	Good	H5T_C_S1	
		—	—	—	—	—	—	Processing_result_description	Good, Fair, Poor, NG	H5T_C_S1	
		—	—	—	—	—	—	Processing_organization	JAXA/GCOM-C project	H5T_C_S1	

B

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
	Raw_data	—	—	—	—	—	—	Number_of_lines	3430	H5T_STD_I32LE	
		—	—	—	—	—	—	Number_of_pixels	2292	H5T_STD_I32LE	
1		SW1	H5T_STD_U16LE	1715	1146			Data_description	Observed digital count of SW1 Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	20.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	1050.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	646.5213	H5T_IEEE_F32L	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	284.9	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	1000.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
2		SW2	H5T_STD_U16LE	1715	1146			Data_description	Observed digital count of SW2 Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	20.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	1380.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	361.225	H5T_IEEE_F32L	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	118.5	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	1000.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
3		SW3	H5T_STD_U16LE	1715	1146			Data_description	Observed digital count of SW3 Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	200.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	1630.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	237.5784	H5T_IEEE_F32L	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	55.2	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	1000.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
4		SW4	H5T_STD_U16LE	1715	1146			Data_description	Observed digital count of SW4 Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	50.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	2210.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	84.2413	H5T_IEEE_F32L	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	22.2	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	1000.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
5		TI1	H5T_STD_U16LE	3430	2292			Data_description	Observed digital count of TI1	H5T_C_S1	
								Band_width	700.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	11000.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	18.2	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	500.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
6		TI2	H5T_STD_U16LE	3430	2292			Data_description	Observed digital count of TI2	H5T_C_S1	
								Band_width	700.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	1200.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	16.1	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	500.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
7		Blackbody_SW1	H5T_STD_U16LE	1715	32			Data_description	Blackbody raw data of SW1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
8		Blackbody_SW2	H5T_STD_U16LE	1715	32			Data_description	Blackbody raw data of SW2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
9		Blackbody_SW3	H5T_STD_U16LE	1715	32			Data_description	Blackbody raw data of SW3	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
10		Blackbody_SW4	H5T_STD_U16LE	1715	32			Data_description	Blackbody raw data of SW4	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
11		Blackbody_TI1	H5T_STD_U16LE	3430	64			Data_description	Blackbody raw data of TI1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
12		Blackbody_TI2	H5T_STD_U16LE	3430	64			Data_description	Blackbody raw data of TI2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
13		Internal_lamp_LED_SW1	H5T_STD_U16LE	1715	32			Data_description	Internal light raw data of SW1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
14		Internal_lamp_LED_SW2	H5T_STD_U16LE	1715	32			Data_description	Internal light raw data of SW2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
15		Internal_lamp_LED_SW3	H5T_STD_U16LE	1715	32			Data_description	Internal light raw data of SW3	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
16		Internal_lamp_LED_SW4	H5T_STD_U16LE	1715	32			Data_description	Internal light raw data of SW4	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
17		Internal_lamp_LED_TI1	H5T_STD_U16LE	3430	64			Data_description	Internal light raw data of TI1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
18		Internal_lamp_LED_TI2	H5T_STD_U16LE	3430	64			Data_description	Internal light raw data of TI2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
19		Deep_space_SW1	H5T_STD_U16LE	1715	32			Data_description	Deep space raw data of SW1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
20		Deep_space_SW2	H5T_STD_U16LE	1715	32			Data_description	Deep space raw data of SW2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
21		Deep_space_SW3	H5T_STD_U16LE	1715	32			Data_description	Deep space raw data of SW3	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
22		Deep_space_SW4	H5T_STD_U16LE	1715	32			Data_description	Deep space raw data of SW4	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
23		Deep_space_TI1	H5T_STD_U16LE	3430	64			Data_description	Deep space raw data of TI1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
24		Deep_space_TI2	H5T_STD_U16LE	3430	64			Data_description	Deep space raw data of TI2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
25		Diffuser_SW1	H5T_STD_U16LE	1715	64			Data_description	Scatter diffuser raw data of SW1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
26		Diffuser_SW2	H5T_STD_U16LE	1715	64			Data_description	Scatter diffuser raw data of SW2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
27		Diffuser_SW3	H5T_STD_U16LE	1715	64			Data_description	Scatter diffuser raw data of SW3	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
28		Diffuser_SW4	H5T_STD_U16LE	1715	64			Data_description	Scatter diffuser raw data of SW4	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
29		Diffuser_TI1	H5T_STD_U16LE	3430	128			Data_description	Scatter diffuser raw data of TI1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
30		Diffuser_TI2	H5T_STD_U16LE	3430	128			Data_description	Scatter diffuser raw data of TI2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
31		Realtime_PCD	H5T_STD_U8LE	354	256			Data_description	GCOM-C PCD raw data	H5T_C_S1	
								Dim0	Realtime PCD records (1Hz)	H5T_C_S1	
								Dim1	octets	H5T_C_S1	
32	Raw_data/AUX_packet	Raw_packet1_2_SWI	H5T_STD_U8LE	343	2	1826		Data_description	Packet#1 and #2 raw data	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	
								Dim2	octets	H5T_C_S1	
33		Raw_packet_header_SWI	H5T_STD_U8LE	343	2522			Data_description	Raw packet header of all packets(#1-97)	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
								Dim1	octets	H5T_C_S1	
34		Raw_packet1_2_TIR	H5T_STD_U8LE	343	2	1826		Data_description	Packet#1 and #2 raw data	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	
								Dim2	octets	H5T_C_S1	
35		Raw_packet_header_TIR	H5T_STD_U8LE	343	4212			Data_description	Raw packet header of all packets(#1-162)	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
								Dim1	octets	H5T_C_S1	
	Ancillary_data	—	—	—	—	—	—	Data_description	Don't use the record when lack line. (Refer to Data_quality_flag/Qf_Scan)	H5T_C_S1	
36	Ancillary_data/IRS_DSP_AB	Halogen_on_off	H5T_STD_U8LE	2	343	2		Data_description	Halogen lamp ON/OFF status 0 : OFF 1 : ON	H5T_C_S1	
								TLM_info_tlmID	IR0046	H5T_C_S1	
								TLM_info_name	IRS HAL ON/OFF	H5T_C_S1	
								TLM_info_short_name	I HAL PWR ONOFF	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	packet#1, packet#2	H5T_C_S1	
37	Ancillary_data/TC_FPGA	Mode_register	H5T_STD_U8LE	2	343	2		Data_description	Mode register	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	packet#1, packet#2	H5T_C_S1	
38		Board_address	H5T_STD_U8LE	2	343	2		Data_description	Board address	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	packet#1, packet#2	H5T_C_S1	
39		SD5_SMCU_TLM_word_status	H5T_STD_U8LE	2	343	2		Data_description	SD5 SMCU TLM word status 0 : 32 words 1 : 97 words	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	packet#1, packet#2	H5T_C_S1	
40		SD5_SMCU_CMD_word_status	H5T_STD_U8LE	2	343	2		Data_description	SD5 SMCU CMD word status 0 : 32 words 1 : 97 words	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	packet#1, packet#2	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
41		SD5_SMCU_ANGLE_A_B_status	H5T_STD_U8LE	2	343	2		Data_description	SD5 SMCU ANGLE A/B status 0 : A 1 : B	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	packet#1, packet#2	H5T_C_S1	
42		SD4_CCE_A_B_status	H5T_STD_U8LE	2	343	2		Data_description	SD4 CCE A/B status 0 : A 1 : B	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	packet#1, packet#2	H5T_C_S1	
43		SD3_TEC_A_B_status	H5T_STD_U8LE	2	343	2		Data_description	SD3 TEC A/B status 0 : A 1 : B	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	packet#1, packet#2	H5T_C_S1	
44		SD2_I_ASP_A_B_status	H5T_STD_U8LE	2	343	2		Data_description	SD2 I-ASP A/B status 0 : A 1 : B	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	packet#1, packet#2	H5T_C_S1	
45		SD1_HCE_A_B_status	H5T_STD_U8LE	2	343	2		Data_description	SD1 HCE A/B status 0 : A 1 : B	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	packet#1, packet#2	H5T_C_S1	
46		Double_buffer_output_status	H5T_STD_U8LE	2	343	2		Data_description	Double buffer output status 0 : A 1 : B	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	packet#1, packet#2	H5T_C_S1	
47		TC_FPGA_ENA_DIS	H5T_STD_U8LE	2	343	2		Data_description	TC-FPGA ENA/DIS 0 : DISABLE 1 : ENABLE	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	packet#1, packet#2	H5T_C_S1	
48	Ancillary_data/SWI_DSP_FPGA	DSP_AB_select	H5T_STD_U8LE	343	2			Data_description	Selected LVDS input status of SWI observation data (A or B) 0 : A 1 : Non-selected	H5T_C_S1	
								TLM_info_tlmID	IR0069	H5T_C_S1	
								TLM_info_name	IRS DSP SWI A/B SEL	H5T_C_S1	
								TLM_info_short_name	I DSP SWI AB SEL	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	
49		Resolution_status	H5T_STD_U8LE	343	2			Data_description	Resolution status(SWI) 1 : 250m 3 : 1km	H5T_C_S1	
								TLM_info_tlmID	IR0070	H5T_C_S1	
								TLM_info_name	IRS SWI RESO STS	H5T_C_S1	
								TLM_info_short_name	I SWI RES SEL	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	
50		All_round_mode_status	H5T_STD_U8LE	343	2			Data_description	Observation/Round scan mode switch(SWI) 0 : Observation 1 : Round scan	H5T_C_S1	
								TLM_info_tlmID	IR0071	H5T_C_S1	
								TLM_info_name	IRS SWI ALL DAT MODE	H5T_C_S1	
								TLM_info_short_name	I SWI ALL MODE SEL	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	
51		DAT_ena_dis_status	H5T_STD_U8LE	343	2			Data_description	Observation data enable or disable status 0 : Disable 1 : Enable	H5T_C_S1	
								TLM_info_tlmID	IR0072	H5T_C_S1	
								TLM_info_name	IRS SWI DAT ENA/DIS	H5T_C_S1	
								TLM_info_short_name	I SWI DAT ENA/DIS	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
52	Ancillary_data/TIR_DSP_FPGA	DSP_AB_select	H5T_STD_U8LE	343	2			Data_description	Selected LVDS input status of TIR observation data (A or B) 0 : A 1 : Non-selected	H5T_C_S1	
								TLM_info_tlmID	IR0068	H5T_C_S1	
								TLM_info_name	IRS DSP TIR A/B SEL	H5T_C_S1	
								TLM_info_short_name	I DSP TIR AB SEL	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	
53		TIR_TDI_status	H5T_STD_U8LE	343	2	2		Data_description	Fixed data status 0 : TDI (A/B) 1 : No TDI (B) 2 : No TDI (A)	H5T_C_S1	
								TLM_info_tlmID	IR0074, IR0073	H5T_C_S1	
								TLM_info_name	IRS TIR1 TDI STS, IRS TIR TDI STS	H5T_C_S1	
								TLM_info_short_name	I TIR1 TDI ST, I TIR2 TDI ST	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	
								Dim2	TI1, TI2	H5T_C_S1	
54		Resolution_status	H5T_STD_U8LE	343	2			Data_description	Resolution status(TIR) 1 : 250m 2 : 500m 3 : 1km	H5T_C_S1	
								TLM_info_tlmID	IR0075	H5T_C_S1	
								TLM_info_name	IRS TIR RESO STS	H5T_C_S1	
								TLM_info_short_name	I TIR RES SEL	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	
55		All_round_mode_status	H5T_STD_U8LE	343	2			Data_description	Observation/Round scan mode switch(TIR) 0 : Observation 1 : Round scan	H5T_C_S1	
								TLM_info_tlmID	IR0076	H5T_C_S1	
								TLM_info_name	IRS TIR ALL DAT MODE	H5T_C_S1	
								TLM_info_short_name	I TIR ALL MODE SEL	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	
56		DAT_ena_dis_status	H5T_STD_U8LE	343	2			Data_description	Observation data enable or disable status 0 : Disable 1 : Enable	H5T_C_S1	
								TLM_info_tlmID	IR0077	H5T_C_S1	
								TLM_info_name	IRS TIR DAT ENA/DIS	H5T_C_S1	
								TLM_info_short_name	I TIR DAT ENA/DIS	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	
57	Ancillary_data/IRS_ASP_SD	SWI_ASP_mode_status	H5T_STD_U8LE	2	343	2		Data_description	Selected mode of SWI 1 : Wait mode 3 : Observation mode (observation data input) 4 : Round scan mode 5 : Observation mode (electrical calibration input)	H5T_C_S1	
								TLM_info_tlmID	IR0527, IR0528	H5T_C_S1	
								TLM_info_name	IRS SWI 1-3 MODE, IRS SWI 4 MODE	H5T_C_S1	
								TLM_info_short_name	I SWI MODE, I SWI4 MODE	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	SW1/2/3, SW4	H5T_C_S1	
58		SWI_electric_cal_level	H5T_STD_U8LE	2	343	2		Data_description	Electrical calibration signal level status 1 : Level1 2 : Level2 3 : Level3 4 : Level4 5 : Level5 6 : Level6	H5T_C_S1	
								TLM_info_tlmID	IR0529, IR0530	H5T_C_S1	
								TLM_info_name	IRS SWI 1-3 ELEC CAL LVL, IRS SWI 4 ELEC CAL LVL	H5T_C_S1	
								TLM_info_short_name	I SWI1-3 ELEC CAL, I SWI4 ELEC CAL	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	SW1/2/3, SW4	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
59		SWI_clamp_level	H5T_STD_U8LE	2	343	8		Data_description	Offset voltage level setting 0-255 : Level1-Level256	H5T_C_S1	
								TLM_info_tlmID	IR0531, IR0656, IR0657, IR0533, IR0534, IR0535, IR0536, IR0537	H5T_C_S1	
								TLM_info_name	IRS SWI 1-2 OFFSET, IRS SWI3-1 OFFSET, IRS SWI3-2 OFFSET, IRS SWI4-1 OFFSET, IRS SWI4-2 OFFSET, IRS SWI4-3 OFFSET, IRS SWI4-4 OFFSET, IRS SWI4-5 OFFSET	H5T_C_S1	
								TLM_info_short_name	I SWI1-2 OFFSET, I SWI3 OFFSET1, I SWI3 OFFSET2, I SWI4 OFFSET1, I SWI4 OFFSET2, I SWI4 OFFSET3, I SWI4 OFFSET4, I SWI4 OFFSET5	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	SW1/2/3 ,SW4 ,SW4-1ch ,SW4-2ch ,SW4-3ch ,SW4-4ch ,SW4-5ch	H5T_C_S1	SW1/2, SW3-1, SW3-2, SW4-1ch, SW4-2ch, SW4-3ch, SW4-4ch, SW4-5ch
60		TIR_ASP_mode_status	H5T_STD_U8LE	2	343	2		Data_description	Selected mode of TIR 1 : Wait modex 3 : Observation mode (observation data input) 4 : All scan data output mode 5 : Observation mode (electrical calibration input)	H5T_C_S1	
								TLM_info_tlmID	IR0539, IR0546	H5T_C_S1	
								TLM_info_name	IRS TIR1-A MODE, IRS TIR2-A MODE	H5T_C_S1	
								TLM_info_short_name	I TIR1A MODE, I TIR2A MODE	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	TI1-A ,TI2-A	H5T_C_S1	
61		TIR_long_short_status	H5T_STD_U8LE	2	343	2		Data_description	LONG/SHORT command status 0 : Short 1 : Long	H5T_C_S1	
								TLM_info_tlmID	IR0659, IR0660	H5T_C_S1	
								TLM_info_name	IRS TIR1 LG/ST CMD STS, IRS TIR2 LG/ST CMD STS	H5T_C_S1	
								TLM_info_short_name	I TIR1 LGST ST, I TIR2 LGST ST	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	TI1, TI2	H5T_C_S1	
62		TIR_long_short_counter	H5T_STD_U8LE	2	343	2		Data_description	LONG/SHORT command counter (change state 0->1->2->3 with every command)	H5T_C_S1	
								TLM_info_tlmID	IR0658, IR0655	H5T_C_S1	
								TLM_info_name	IRS TIR1 LG/ST CMD CNT, IRS TIR2 LG/ST CMD CNT	H5T_C_S1	
								TLM_info_short_name	I TIR1 LGST CNT, I TIR2 LGST CNT	H5T_C_S1	
								Minimum_valid_value	0	H5T_STD_U8LE	
								Maximum_valid_value	3	H5T_STD_U8LE	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	TI1, TI2	H5T_C_S1	
63		TIR_integration_time	H5T_STD_U8LE	2	343	2		Data_description	TIR integral time INT setting 1-8 selected(max:0, min:7)	H5T_C_S1	
								TLM_info_tlmID	IR0540, IR0547	H5T_C_S1	
								TLM_info_name	IRS TIR-A INTG SEL, IRS TIR-B INTG SEL	H5T_C_S1	
								TLM_info_short_name	I TIR-A INTG SEL, I TIR-B INTG SEL	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	A, B	H5T_C_S1	
64		TIR_electric_cal_level	H5T_STD_U8LE	2	343	2		Data_description	Electrical calibration signal level status 1 : Level1 2 : Level2 3 : Level3 4 : Level4 5 : Level5 6 : Level6	H5T_C_S1	
								TLM_info_tlmID	IR0541, IR0548	H5T_C_S1	
								TLM_info_name	IRS TIR1-A ELEC CAL LVL, IRS TIR2-A ELEC CAL LVL	H5T_C_S1	
								TLM_info_short_name	I TIR1A ELEC CAL, I TIR2A ELEC CAL	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	TIR-A, TIR-B	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
65		TIR_clamp_level	H5T_STD_U8LE	2	343	2	2	Data_description	TIR clamp(offset) 0-255 : level1-level256	H5T_C_S1	
								TLM_info_tlmID	IR0544, IR0545, IR0551, IR0552	H5T_C_S1	
								TLM_info_name	IRS TIR1-A OFFSET, IRS TIR1-B OFFSET, IRS TIR2-A OFFSET, IRS TIR2-B OFFSET	H5T_C_S1	
								TLM_info_short_name	I TIR1A OFFSET, I TIR1B OFFSET, I TIR2A OFFSET, I TIR2B OFFSET	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	TI1 ,TI2	H5T_C_S1	
								Dim3	A, B	H5T_C_S1	
66		LED_on_off	H5T_STD_U8LE	2	343			Data_description	LED ON/OFF status 0 : LED1-3 OFF / LED4-6 OFF 1 : LED1-3 OFF / LED4-6 ON 2 : LED1-3 ON / LED4-6 OFF 3 : LED1-3 ON / LED4-6 ON	H5T_C_S1	
								TLM_info_tlmID	IR0553	H5T_C_S1	
								TLM_info_name	IRS LED ON/OFF MODE	H5T_C_S1	
								TLM_info_short_name	I LED ONOFF	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
67		LED_PD_monitor	H5T_IEEE_F64L	2	343			Data_description	LED monitor	H5T_C_S1	
								TLM_info_tlmID	IR0554	H5T_C_S1	
								TLM_info_name	IRS LED PD MON	H5T_C_S1	
								TLM_info_short_name	I LED PD MON	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64L	
								Maximum_valid_value	-999	H5T_IEEE_F64L	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Unit	uA	H5T_C_S1	
68		Sun_PD_monitor	H5T_IEEE_F64L	2	343	2		Data_description	Sun monitor	H5T_C_S1	
								TLM_info_tlmID	IR0555, IR0556	H5T_C_S1	
								TLM_info_name	IRS SUN PD MON1, IRS SUN PD MON2	H5T_C_S1	
								TLM_info_short_name	I SUN PD MON1, I SUN PD MON2	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64L	
								Maximum_valid_value	-999	H5T_IEEE_F64L	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	monitor1, monitor2	H5T_C_S1	
								Unit	uA	H5T_C_S1	
69		LED_current	H5T_IEEE_F32L	2	343	6		Data_description	LED current	H5T_C_S1	
								TLM_info_tlmID	IR0557, IR0558, IR0559, IR0560, IR0561, IR0562	H5T_C_S1	
								TLM_info_name	IRS VIS-LED1 CUR, IRS VIS-LED2 CUR, IRS VIS-LED3 CUR, IRS VIS-LED4 CUR, IRS VIS-LED5 CUR, IRS VIS-LED6 CUR	H5T_C_S1	
								TLM_info_short_name	I CUR LED1, I CUR LED2, I CUR LED3, I CUR LED4, I CUR LED5, I CUR LED6	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	LED1-LED6	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32L	
								Maximum_valid_value	70	H5T_IEEE_F32L	
								Unit	mA	H5T_C_S1	
70		Halogen_voltage	H5T_IEEE_F64L	2	343			Data_description	Halogen voltage	H5T_C_S1	
								TLM_info_tlmID	IR0563	H5T_C_S1	
								TLM_info_name	IRS HAL VLT	H5T_C_S1	
								TLM_info_short_name	I HAL VLT MON	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64L	
								Maximum_valid_value	12	H5T_IEEE_F64L	
								Unit	V	H5T_C_S1	
71		Halogen_current	H5T_IEEE_F64L	2	343			Data_description	Halogen current	H5T_C_S1	
								TLM_info_tlmID	IR0564	H5T_C_S1	
								TLM_info_name	IRS HAL CUR	H5T_C_S1	
								TLM_info_short_name	I HAL CUR MON	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64L	
								Maximum_valid_value	2.5	H5T_IEEE_F64L	
								Unit	A	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
72		TIR_temperature	H5T_IEEE_F64L	2	343	2		Data_description	TIR temperature monitor	H5T_C_S1	
								TLM_info_tlmID	IR0565, IR0566	H5T_C_S1	
								TLM_info_name	IRS LWIRD TMP1, IRS LWIRD TMP2	H5T_C_S1	
								TLM_info_short_name	I LWID MON TMP1, I LWID MON TMP2	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	temp1(narrow), temp2(wide)	H5T_C_S1	
								Minimum_valid_value(narrow)	50	H5T_IEEE_F64L	
								Maximum_valid_value(narrow)	60	H5T_IEEE_F64L	
								Minimum_valid_value(wide)	47	H5T_IEEE_F64L	
								Maximum_valid_value(wide)	170	H5T_IEEE_F64L	
								Unit	K	H5T_C_S1	
73		LED_temperature	H5T_IEEE_F64LE	2	343	2		Data_description	LED temperature monitor	H5T_C_S1	
								TLM_info_tlmID	IR0567, IR0568	H5T_C_S1	
								TLM_info_name	IRS LED TMP1, IRS LED TMP2	H5T_C_S1	
								TLM_info_short_name	I LED MON TMP1, I LED MON TMP2	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	temp1, temp2	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64L	
								Maximum_valid_value	50	H5T_IEEE_F64L	
								Unit	degree C	H5T_C_S1	
74		PD_temperature	H5T_IEEE_F64L	2	343			Data_description	PD temperature monitor	H5T_C_S1	
								TLM_info_tlmID	IR0569	H5T_C_S1	
								TLM_info_name	IRS PD TMP	H5T_C_S1	
								TLM_info_short_name	I PD MON TMP	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64L	
								Maximum_valid_value	50	H5T_IEEE_F64L	
								Unit	degree C	H5T_C_S1	
75		Halogen_temperature	H5T_IEEE_F64L	2	343			Data_description	Halogen temperature monitor	H5T_C_S1	
								TLM_info_tlmID	IR0570	H5T_C_S1	
								TLM_info_name	IRS HAL TMP	H5T_C_S1	
								TLM_info_short_name	I HAL MON TMP	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64L	
								Maximum_valid_value	50	H5T_IEEE_F64L	
								Unit	degree C	H5T_C_S1	
76		Blackbody_temperature	H5T_IEEE_F64LE	2	343	5		Data_description	Black body temperature monitor	H5T_C_S1	
								TLM_info_tlmID	IR0571, IR0572, IR0573, IR0574, IR0575	H5T_C_S1	
								TLM_info_name	IRS BLACK BODY TMP1, IRS BLACK BODY TMP2, IRS BLACK BODY TMP3, IRS BLACK BODY TMP4, IRS BLACK BODY TMP5	H5T_C_S1	
								TLM_info_short_name	I BB MON TMP1, I BB MON TMP2, I BB MON TMP3, I BB MON TMP4, I BB MON TMP5	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	temp1-temp5	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64L	
								Maximum_valid_value	50	H5T_IEEE_F64L	
								Unit	degree C	H5T_C_S1	
77	Ancillary_data/HCE_SD	HCE_temperature	H5T_IEEE_F64L	2	343	64		Data_description	HCE temperature monitor	H5T_C_S1	
								TLM_info_tlmID	IR0334-IR0397	H5T_C_S1	
								TLM_info_name	IRS HCE CH1 TMP-IRS HCE CH64 TMP	H5T_C_S1	
								TLM_info_short_name	I HCE TMP NUM1-I HCE TMP NUM64	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64L	
								Maximum_valid_value	-999	H5T_IEEE_F64L	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	temp1-temp64	H5T_C_S1	
								Unit	degree C	H5T_C_S1	
78	Ancillary_data/TEC_SD	TEC_drv_status	H5T_STD_U8LE	2	343			Data_description	TEC drive ON/OFF status 0 : OFF 1 : ON	H5T_C_S1	
								TLM_info_tlmID	IR0576	H5T_C_S1	
								TLM_info_name	IRS TEC DRV ON/OFF	H5T_C_S1	
								TLM_info_short_name	I TEC ONOFF	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
79		TEC_mode	H5T_STD_U8LE	2	343			Data_description	TEC mode switch status 0 : Constant current control 1 : PI control	H5T_C_S1	
								TLM_info_tlmID	IR0577	H5T_C_S1	
								TLM_info_name	IRS TEC CNTL MODE	H5T_C_S1	
								TLM_info_short_name	I TEC CTRL ST	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
80		TEC_temperature	H5T_STD_U8LE	2	343			Data_description	TEC temperature control setting value status 0 : Control temperature -32 degree C 1 : Control temperature -30 degree C	H5T_C_S1	
								TLM_info_tlmID	IR0578	H5T_C_S1	
								TLM_info_name	IRS TEC TMP STS	H5T_C_S1	
								TLM_info_short_name	I TEC TMP	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
81		TEC_current	H5T_IEEE_F64L	2	343			Data_description	TEC control current	H5T_C_S1	
								TLM_info_tlmID	IR0579	H5T_C_S1	
								TLM_info_name	IRS TEC CUR	H5T_C_S1	
								TLM_info_short_name	I TEC CUR	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64L	
								Maximum_valid_value	2	H5T_IEEE_F64L	
								Unit	A	H5T_C_S1	
82		TEC_voltage	H5T_IEEE_F64L	2	343			Data_description	TEC control voltage	H5T_C_S1	
								TLM_info_tlmID	IR0580	H5T_C_S1	
								TLM_info_name	IRS TEC VLT	H5T_C_S1	
								TLM_info_short_name	I TEC VLT	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64L	
								Maximum_valid_value	2	H5T_IEEE_F64L	
								Unit	V	H5T_C_S1	
83		SWI_temperature	H5T_IEEE_F64L	2	343	2		Data_description	SWI temperature monitor	H5T_C_S1	
								TLM_info_tlmID	IR0581, IR0582	H5T_C_S1	
								TLM_info_name	IRS TEC SWIR TMP1, IRS TEC SWIR TMP2	H5T_C_S1	
								TLM_info_short_name	I TEC TMP MON1, I TEC TMP MON2	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	temp1(narrow), temp2(wide)	H5T_C_S1	
								Minimum_valid_value(narrow)	-35	H5T_IEEE_F64L	
								Maximum_valid_value(narrow)	-25	H5T_IEEE_F64L	
								Minimum_valid_value(wide)	-35	H5T_IEEE_F64L	
								Maximum_valid_value(wide)	-25	H5T_IEEE_F64L	
								Unit	degree C	H5T_C_S1	
84	Ancillary_data/CCE_SD	STC_voltage_set_monitor	H5T_IEEE_F64L	2	343			Data_description	STC_voltage_set_monitor	H5T_C_S1	
								TLM_info_tlmID	IR0583	H5T_C_S1	
								TLM_info_name	IRS CCE STC SET VLT	H5T_C_S1	
								TLM_info_short_name	I CCE STC VLT SET MON	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64L	
								Maximum_valid_value	22.721	H5T_IEEE_F64L	
								Unit	Vrms	H5T_C_S1	
85		STB_voltage_set_monitor	H5T_IEEE_F64L	2	343			Data_description	STB_voltage_set_monitor	H5T_C_S1	
								TLM_info_tlmID	IR0584	H5T_C_S1	
								TLM_info_name	IRS CCE STB SET VLT	H5T_C_S1	
								TLM_info_short_name	I CCE STB VLT SET MON	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64L	
								Maximum_valid_value	2.754	H5T_IEEE_F64L	
								Unit	Vrms	H5T_C_S1	
86		STB_power_set_monitor	H5T_IEEE_F64L	2	343			Data_description	STB_power_set_monitor	H5T_C_S1	
								TLM_info_tlmID	IR0585	H5T_C_S1	
								TLM_info_name	IRS CCE STB SET PHASE	H5T_C_S1	
								TLM_info_short_name	I CCE STB PWR SET MON	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	271.2	H5T_IEEE_F64L	
								Maximum_valid_value	327.9	H5T_IEEE_F64L	
								Unit	degree	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
87		CCE_status_monitor	H5T_STD_U8LE	2	343			Data_description	CCE status monitor	H5T_C_S1	
								TLM_info_tlmID	IR0598	H5T_C_S1	
								TLM_info_name	IRS CCE STS	H5T_C_S1	
								TLM_info_short_name	I CCE ST MON	H5T_C_S1	
								Bit00(LSB)	STC OVI 0 : Normal 1 : OVI	H5T_C_S1	
								Bit01	STB OVI 0 : Normal 1 : OVI	H5T_C_S1	
								Bit02	TLM REQ RETRY 0 : No retry 1 : Retry	H5T_C_S1	
								Bit03	CMD RETRY 0 : No retry 1 : Retry	H5T_C_S1	
								Bit04	DRIVE TLM 0 : Update 1 : No update	H5T_C_S1	
								Bit05	CTRL TLM 0 : Update 1 : No update	H5T_C_S1	
								Bit06	COMN 0 : A 1 : B	H5T_C_S1	
								Bit07	IRS CCE temperature sensor 0 : TMP1 1 : TMP2	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
88		STC_voltage	H5T_IEEE_F64L	2	343			Data_description	STC voltage monitor	H5T_C_S1	
								TLM_info_tlmID	IR0587	H5T_C_S1	
								TLM_info_name	IRS CCE STC VLT	H5T_C_S1	
								TLM_info_short_name	I CCE STC VLT MON	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64L	
								Maximum_valid_value	23.435	H5T_IEEE_F64L	
								Unit	Vrms	H5T_C_S1	
89		STC_current	H5T_IEEE_F64L	2	343			Data_description	STC current monitor	H5T_C_S1	
								TLM_info_tlmID	IR0588	H5T_C_S1	
								TLM_info_name	IRS CCE STC CUR	H5T_C_S1	
								TLM_info_short_name	I CCE STC CUR MON	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64L	
								Maximum_valid_value	4.333	H5T_IEEE_F64L	
								Unit	Arms	H5T_C_S1	
90		STC_power	H5T_IEEE_F64L	2	343			Data_description	STC power monitor	H5T_C_S1	
								TLM_info_tlmID	IR0589	H5T_C_S1	
								TLM_info_name	IRS CCE STC PWR MON	H5T_C_S1	
								TLM_info_short_name	I CCE STC PWR MON	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64L	
								Maximum_valid_value	65.357	H5T_IEEE_F64L	
								Unit	W	H5T_C_S1	
91		STB_voltage	H5T_IEEE_F64L	2	343			Data_description	STB voltage monitor	H5T_C_S1	
								TLM_info_tlmID	IR0590	H5T_C_S1	
								TLM_info_name	IRS CCE STB VLT	H5T_C_S1	
								TLM_info_short_name	I CCE STB VLT MON	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64L	
								Maximum_valid_value	2.55	H5T_IEEE_F64L	
								Unit	Vrms	H5T_C_S1	
92		STB_current	H5T_IEEE_F64L	2	343			Data_description	STB current monitor	H5T_C_S1	
								TLM_info_tlmID	IR0591	H5T_C_S1	
								TLM_info_name	IRS CCE STB CUR	H5T_C_S1	
								TLM_info_short_name	I CCE STB CUR MON	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64L	
								Maximum_valid_value	1.173	H5T_IEEE_F64L	
								Unit	Arms	H5T_C_S1	

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No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
93		STB_power	H5T_IEEE_F64L	2	343			Data_description	STB power monitor	H5T_C_S1	
								TLM_info_tlmID	IR0592	H5T_C_S1	
								TLM_info_name	IRS CCE STB PWR MON	H5T_C_S1	
								TLM_info_short_name	I CCE STB PWR MON	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64L	
								Maximum_valid_value	1.658	H5T_IEEE_F64L	
								Unit	W	H5T_C_S1	
94		Cold_stage_heater_voltage	H5T_IEEE_F64L	2	343			Data_description	Heat voltage monitor	H5T_C_S1	
								TLM_info_tlmID	IR0595	H5T_C_S1	
								TLM_info_name	IRS CCE HTR VLT	H5T_C_S1	
								TLM_info_short_name	I CCE HTR VLT MON	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64L	
								Maximum_valid_value	9.96	H5T_IEEE_F64L	
								Unit	V	H5T_C_S1	
95		Cold_stage_heater_current	H5T_IEEE_F64L	2	343			Data_description	Heat current monitor	H5T_C_S1	
								TLM_info_tlmID	IR0596	H5T_C_S1	
								TLM_info_name	IRS CCE HTR CUR	H5T_C_S1	
								TLM_info_short_name	I CCE HTR CUR MON	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64L	
								Maximum_valid_value	99.6	H5T_IEEE_F64L	
								Unit	mA	H5T_C_S1	
96		Cold_stage_heater_power	H5T_IEEE_F64L	2	343			Data_description	Heat power monitor	H5T_C_S1	
								TLM_info_tlmID	IR0597	H5T_C_S1	
								TLM_info_name	IRS CCE HTR PWR MON	H5T_C_S1	
								TLM_info_short_name	I CCE HTR PWR MON	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64L	
								Maximum_valid_value	996	H5T_IEEE_F64L	
								Unit	mW	H5T_C_S1	
97	Ancillary_data/SMCU	Scan_rate	H5T_IEEE_F64L	2	343			Data_description	Scan rotation rate	H5T_C_S1	
								TLM_info_tlmID	IR0611	H5T_C_S1	
								TLM_info_name	IRS SMCU SCAN RATE	H5T_C_S1	
								TLM_info_short_name	I SM SCAN RATE	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64L	
								Maximum_valid_value	127.5	H5T_IEEE_F64L	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Unit	rpm	H5T_C_S1	
98	Ancillary_data/Scan_angle	Scan_angle_ENG	H5T_IEEE_F64L	2	343	1000		Data_description	Scan angle data	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	1/1000 Revolution	H5T_C_S1	
	Converted_PCD	—	—	—	—	—	—	Worst_orbit_source	0	H5T_STD_U8LE	
		—	—	—	—	—	—	Worst_orbit_source_data_description	Source of orbit data(GPS_position_ECR,GPS_velocity_ECR,GPS_position_ECI,GPS_velocity_ECI,Argument_of_latitude) 0 : Realtime PCD 1 : Decision Ephemeris 2 : Prediction Ephemeris	H5T_C_S1	
		—	—	—	—	—	—	Worst_attitude_source	0	H5T_STD_U8LE	
		—	—	—	—	—	—	Worst_attitude_source_data_description	Source of attitude data(Attitude_time,Attitude_error_angle,Attitude_angular_velocity,Attitude_flag,Quaternion,Quaternion_index,Quaternion_number) 0 : Realtime PCD (Quaternion) 1 : Realtime PCD (Eular angle) 2 : Nominal	H5T_C_S1	
99		Navigation_time	H5T_IEEE_F64LE	354				Data_description	GPS navigation time	H5T_C_S1	
								Epoch_time	19800106 00:00:00	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Unit	sec	H5T_C_S1	
100		GPS_position_ECR	H5T_IEEE_F32LE	354	3			Data_description	GCOM-C position calculated by GPS	H5T_C_S1	
								Coordinate_system	WGS84	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Dim1	x,y,z	H5T_C_S1	
								Unit	km	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
101		GPS_velocity_ECR	H5T_IEEE_F32LE	354	3			Data_description	GCOM-C velocity calculated by GPS	H5T_C_S1	
								Coordinate_system	WGS84	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Dim1	Vx,Vy,Vz	H5T_C_S1	
								Unit	km/s	H5T_C_S1	
102		GPS_position_ECI	H5T_IEEE_F32LE	354	3			Data_description	GCOM-C position calculated by GPS	H5T_C_S1	
								Coordinate_system	J2000	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Dim1	x,y,z	H5T_C_S1	
								Unit	km	H5T_C_S1	
103		GPS_velocity_ECI	H5T_IEEE_F32LE	354	3			Data_description	GCOM-C velocity calculated by GPS	H5T_C_S1	
								Coordinate_system	J2000	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Dim1	Vx,Vy,Vz	H5T_C_S1	
								Unit	km/s	H5T_C_S1	
104		Argument_of_latitude	H5T_IEEE_F32LE	354				Data_description	Argument of latitude (true anomaly)	H5T_C_S1	
								Coordinate_system	WGS84	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Unit	degree	H5T_C_S1	
105		Navigation_status	H5T_STD_U32LE	354				Data_description	Navigation status	H5T_C_S1	
								Bit00(LSB)-01	navigation status 00 : Stop 01 : AG filter 10 : Kalman filter 11 : Kalman filter(Convergence)	H5T_C_S1	
								Bit02-07	spare	H5T_C_S1	
								Bit08-09	antenna (CH1) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit10-11	antenna (CH2) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit12-13	antenna (CH3) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit14-15	antenna (CH4) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit16-17	antenna (CH5) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit18-19	antenna (CH6) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit20-21	antenna (CH7) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit22-23	antenna (CH8) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit24-31(MSB)	spare	H5T_C_S1	
								Dim0	Realtime PCD records (1Hz)	H5T_C_S1	
106		Attitude_time	H5T_IEEE_F64LE	354				Data_description	Time when attitude determined	H5T_C_S1	
								Epoch_time	19800106 00:00:00	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Unit	sec	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
107		Attitude_error_angle	H5T_IEEE_F32LE	354	3			Data_description	Attitude error	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Dim1	Roll, Pitch, Yaw	H5T_C_S1	
								Unit	degree	H5T_C_S1	
108		Attitude_angular_velocity	H5T_IEEE_F32LE	354	3			Data_description	Attitude angular velocity	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Dim1	Roll, Pitch, Yaw	H5T_C_S1	
								Unit	degree/sec	H5T_C_S1	
109		Attitude_flag	H5T_STD_U8LE	354				Data_description	Quaternion usable / unusable flag 0 : ESA/IRU (quaternion unusable) 1 : STT/IRU (quaternion usable) 255 : Error value	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
110		Quaternion	H5T_IEEE_F32LE	354	11	4		Data_description	Quaternion(9-11 data per sec)	H5T_C_S1	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Dim1	Maximum number of quaternions (unusable area is stored with indefinite value)	H5T_C_S1	
								Dim2	q1, q2, q3, q4(scalar)	H5T_C_S1	
111		Quaternion_index	H5T_STD_U8LE	354				Data_description	Quaternion index (0-10) corresponds to "Att_time"	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Minimum_valid_value	0	H5T_STD_U8LE	
								Maximum_valid_value	10	H5T_STD_U8LE	
								Dim0	attitude records (1Hz)	H5T_C_S1	
112		Quaternion_number	H5T_STD_U8LE	354				Data_description	Available number of quaternion	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Minimum_valid_value	9	H5T_STD_U8LE	
								Maximum_valid_value	11	H5T_STD_U8LE	
								Dim0	attitude records (1Hz)	H5T_C_S1	
113		AOCS_mode	H5T_STD_U8LE	354				Data_description	AOCS(attitude and Orbit Control System) control mode	H5T_C_S1	
								Bit00(LSB)-07	Control Mode / Control Sub Mode 01110000 : Normal control / Not execute unloading 01110001 : Normal control / Execute magnetic unloading 01110010 : Normal control / Execute thruster unloading 10000000 : Orbit control / Attitude control thruster Delta-V (pitch and yaw-failure) 10000001 : Orbit control / Orbit control thruster (normal) 10000010 : Orbit control / Orbit control thruster Delta-V (pitch-failure) 10000011 : Orbit control / Orbit control thruster Delta-V (yaw-failure) 10000100 : Orbit control / Attitude control thruster(Three axis stabilized attitude control) 10000101 : Orbit control / Delta-V Idling 10000110 : Orbit control / Yaw around (first half) 10000111 : Orbit control / Yaw around (last half) 10010000 : Calibration Maneuver / Solar calibration or Gain deviation maneuver(First maneuver) 10010001 : Calibration Maneuver / Solar calibration or Gain deviation maneuver(Second maneuver) 10010010 : Calibration Maneuver / Solar calibration or Gain deviation maneuver(Third maneuver) 10010011 : Calibration Maneuver / Lunar calibration maneuver(First maneuver) 10010100 : Calibration Maneuver / Lunar calibration maneuver(Second maneuver) 10010101 : Calibration Maneuver / Lunar calibration maneuver(Third maneuver) Others : Not defined	H5T_C_S1	
								Error_value	255	H5T_C_S1	
								Dim0	Realtime PCD records (1Hz)	H5T_C_S1	
114		Orbit_source	H5T_STD_U8LE	354				Data_description	Source of orbit data(GPS_position_ECR,GPS_velocity_ECR,GPS_position_ECI,GPS_velocity_ECI,Argument_of_latitude) 0 : Realtime PCD 1 : Decision Ephemeris 2 : Prediction Ephemeris	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
115		Attitude_source	H5T_STD_U8LE	354				Data_description	Source of attitude data(Attitude_time,Attitude_error_angle,Attitude_angular_velocity,Attitude_flag,Quaternion,Quaternion_index,Quaternion_number) 0 : Realtime PCD (Quaternion) 1 : Realtime PCD (Eular angle) 2 : Nominal	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
	Geometry_parameter	—	—	—	—	—	—	Geometry_parameter_version	0002	H5T_C_S1	
116		Sensor_position	H5T_IEEE_F64LE	3				Data_description	Sensor base position	H5T_C_S1	
								Dim0	x, y, z	H5T_C_S1	
								Unit	mm	H5T_C_S1	
117		GPSR_position	H5T_IEEE_F64LE	2	3			Data_description	GPSR position	H5T_C_S1	
								Dim0	Antenna-A, Antenna-B	H5T_C_S1	
								Dim1	x, y, z	H5T_C_S1	
								Unit	mm	H5T_C_S1	
118		DTC_sensor_alignment	H5T_IEEE_F64LE	3	3			Data_description	Sensor alignment	H5T_C_S1	
								Dim0	Rows	H5T_C_S1	
								Dim1	Columns	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
119		DTC_primary_change_rate	H5T_IEEE_F64LE	3				Data_description	Primary_change_rate	H5T_C_S1	
								Dim0	lx, ly, lz	H5T_C_S1	
								Unit	radian/day	H5T_C_S1	
120		DTC_exponential_amplitude	H5T_IEEE_F64LE	3				Data_description	Exponential term amplitude	H5T_C_S1	
								Dim0	Ax, Ay, Az	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
121		DTC_exponential_time_constant	H5T_IEEE_F64LE	1				Data_description	Exponential term time constant	H5T_C_S1	
								Unit	day	H5T_C_S1	
122		DTC_long_period	H5T_IEEE_F64LE	1				Data_description	Long round period	H5T_C_S1	
								Epoch_time	20000101	H5T_C_S1	
								Unit	day	H5T_C_S1	
123		DTC_long_fourier_coef	H5T_IEEE_F64LE	6	8			Data_description	Fourier series coefficient (Long round period)	H5T_C_S1	
								Dim0	ax, bx, ay, by, az, bz	H5T_C_S1	
								Dim1	degree1-degree8	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
124		DTC_orbit_period	H5T_IEEE_F64LE	1				Data_description	Orbit period	H5T_C_S1	
								Unit	min	H5T_C_S1	
125		DTC_orbit_fourier_coef	H5T_IEEE_F64LE	6	8			Data_description	Fourier series coefficient (Orbit period)	H5T_C_S1	
								Dim0	ax, bx, ay, by, az, bz	H5T_C_S1	
								Dim1	degree1-degree8	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
126		SCN_sensor_alignment	H5T_IEEE_F64LE	3	3			Data_description	Sensor alignment	H5T_C_S1	
								Dim0	Rows	H5T_C_S1	
								Dim1	Columns	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
127		SCN_primary_change_rate	H5T_IEEE_F64LE	3				Data_description	Primary_change_rate	H5T_C_S1	
								Dim0	lx, ly, lz	H5T_C_S1	
								Unit	radian/day	H5T_C_S1	
128		SCN_exponential_amplitude	H5T_IEEE_F64LE	3				Data_description	Exponential term amplitude	H5T_C_S1	
								Dim0	Ax, Ay, Az	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
129		SCN_exponential_time_constant	H5T_IEEE_F64LE	1				Data_description	Exponential term time constant	H5T_C_S1	
								Unit	day	H5T_C_S1	
130		SCN_long_period	H5T_IEEE_F64LE	1				Data_description	Long round period	H5T_C_S1	
								Epoch_time	20000101	H5T_C_S1	
								Unit	day	H5T_C_S1	
131		SCN_long_fourier_coef	H5T_IEEE_F64LE	6	8			Data_description	Fourier series coefficient (Long round period)	H5T_C_S1	
								Dim0	ax, bx, ay, by, az, bz	H5T_C_S1	
								Dim1	degree1-degree8	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
132		SCN_orbit_period	H5T_IEEE_F64LE	1				Data_description	Orbit period	H5T_C_S1	
								Unit	min	H5T_C_S1	
133		SCN_orbit_fourier_coef	H5T_IEEE_F64LE	6	8			Data_description	Fourier series coefficient (Orbit period)	H5T_C_S1	
								Dim0	ax, bx, ay, by, az, bz	H5T_C_S1	
								Dim1	degree1-degree8	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
134		Rotation_angle_ref	H5T_IEEE_F64LE	1				Data_description	Rotation angle_ref	H5T_C_S1	
								Unit	degree	H5T_C_S1	
135		Motor_linearity_coef	H5T_IEEE_F64L	2	10			Data_description	Motor linearity correction coefficient	H5T_C_S1	
								Dim0	correction function, reverse function	H5T_C_S1	
								Dim1	A0(B0)-A9(B9)	H5T_C_S1	
								Unit	N/A	H5T_C_S1	

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Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
136		Geo_opt_SWI	H5T_IEEE_F64LE	3	3	5		Data_description	Detector vector parameter (SWI)	H5T_C_S1	
								Dim0	SW1, SW2, SW4	H5T_C_S1	
								Dim1	d_ct, d_at, f	H5T_C_S1	
								Dim2	pixel01-pixel05	H5T_C_S1	
								Unit	mm	H5T_C_S1	
137		Geo_opt_SW3	H5T_IEEE_F64LE	3	20			Data_description	Detector vector parameter (SWI/SW3)	H5T_C_S1	
								Dim0	d_ct, d_at, f	H5T_C_S1	
								Dim1	pixel01-pixel20	H5T_C_S1	
								Unit	mm	H5T_C_S1	
138		Geo_opt_TIR	H5T_IEEE_F64LE	4	3	20		Data_description	Detector vector parameter (TIR)	H5T_C_S1	
								Dim0	TI1-A, TI1-B, TI2-A, TI2-B	H5T_C_S1	
								Dim1	d_ct, d_at, f	H5T_C_S1	
								Dim2	pixel01-pixel20	H5T_C_S1	
								Unit	mm	H5T_C_S1	
139		IRS_sample_start_number	H5T_STD_U16LE	6	3			Data_description	sample start nunmber of IRS scan	H5T_C_S1	
								Dim0	T1-T6	H5T_C_S1	
								Dim1	1km, 500m, 250m	H5T_C_S1	
								Unit	sample (1 origin)	H5T_C_S1	
140		IRS_sample_start_time	H5T_IEEE_F64L	6				Data_description	sample start time of IRS scan	H5T_C_S1	
								Dim0	T1-T6	H5T_C_S1	
								Unit	msec	H5T_C_S1	
141		IRS_delta_ts	H5T_IEEE_F64L	3	3			Data_description	sampling interval of IRS scan	H5T_C_S1	
								Dim0	(SW1&SW2&SW4), SW3, TIR	H5T_C_S1	
								Dim1	1km, 500m, 250m	H5T_C_S1	
								Unit	usec	H5T_C_S1	
142		K_DELAY	H5T_IEEE_F64L	6	20			Data_description	K_DELAY: relative sample delay	H5T_C_S1	
								Dim0	SW1, SW2, SW3(250m), SW3(1km), SW4, TIR	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
143	Radiometric_parameter	Offset_deepspace_SW1	H5T_IEEE_F32LE	1715				Data_description	Radiometric offset parameter from deep space counts	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Unit	Count	H5T_C_S1	
144		Offset_deepspace_SW2	H5T_IEEE_F32LE	1715				Data_description	Radiometric offset parameter from deep space counts	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Unit	Count	H5T_C_S1	
145		Offset_deepspace_SW3	H5T_IEEE_F32LE	1715				Data_description	Radiometric offset parameter from deep space counts	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Unit	Count	H5T_C_S1	
146		Offset_deepspace_SW4	H5T_IEEE_F32LE	1715				Data_description	Radiometric offset parameter from deep space counts	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Unit	Count	H5T_C_S1	
147		Offset_deepspace_TIR1	H5T_IEEE_F32LE	3430				Data_description	Radiometric offset parameter from deep space counts	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Unit	Count	H5T_C_S1	
148		Offset_deepspace_TIR2	H5T_IEEE_F32LE	3430				Data_description	Radiometric offset parameter from deep space counts	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Unit	Count	H5T_C_S1	
149		Offset_blackbody_TIR1	H5T_IEEE_F32LE	3430				Data_description	Radiometric offset parameter from black body counts	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Unit	Count	H5T_C_S1	
150		Offset_blackbody_TIR2	H5T_IEEE_F32LE	3430				Data_description	Radiometric offset parameter from black body counts	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Unit	Count	H5T_C_S1	
151		Blackbody_radiation_rate	H5T_IEEE_F32L	2				Data_description	The rate of black body radiation	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Unit	Count	H5T_C_S1	
152		Blackbody_temperature	H5T_IEEE_F32L	343				Data_description	Black body average temperature	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
								Unit	degree C	H5T_C_S1	
153		Blackbody_environment_temperature	H5T_IEEE_F32L	343				Data_description	Black body environment average temperature	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
								Unit	degree C	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
154	Data_quality_flag	Qf_scan_SWI	H5T_STD_U8LE	3	1715			Data_description	Quality flag of each scan	H5T_C_S1	
								Dim0	SW1, SW2, SW4	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Bit00(LSB)-002	Quality flag 000 : Normal line 001 : Lack line 011 : Lack line (1km/500m->250m or 1km->500m) 100 : Lack line (for calibration) 101 : Lack line (for synchronization between sensors) 010 : Resampling line (250m->1km/500m) 110 : Resampling line (500m->1km) 111 : Mixed line (000,001,011,100,101,010,110)	H5T_C_S1	
155		Qf_scan_SW3	H5T_STD_U8LE	1715				Data_description	Quality flag of each scan	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Bit00(LSB)-002	Quality flag 000 : Normal line 001 : Lack line 011 : Lack line (1km/500m->250m or 1km->500m) 100 : Lack line (for calibration) 101 : Lack line (for synchronization between sensors) 010 : Resampling line (250m->1km/500m) 110 : Resampling line (500m->1km) 111 : Mixed line (000,001,011,100,101,010,110)	H5T_C_S1	
156		Qf_scan_TIR	H5T_STD_U8LE	2	3430			Data_description	Quality flag of each scan	H5T_C_S1	
								Dim0	TIR1, TIR2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Bit00(LSB)-002	Quality flag 000 : Normal line 001 : Lack line 011 : Lack line (1km/500m->250m or 1km->500m) 100 : Lack line (for calibration) 101 : Lack line (for synchronization between sensors) 010 : Resampling line (250m->1km/500m) 110 : Resampling line (500m->1km) 111 : Mixed line (000,001,011,100,101,010,110)	H5T_C_S1	
157		Qf_data_SWI	H5T_STD_U16LE	1715	1146			Data_description	Quality flag of each pixel	H5T_C_S1	
								Bit00(LSB)-Bit03	Stray-light quantity flag SW1 SW2 SW4 0 : Less than threshold 1 : More than threshold	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
158		Qf_data_SW3	H5T_STD_U16LE	1715	1146			Data_description	Quality flag of each pixel	H5T_C_S1	
								Bit00(LSB)	Stray-light quantity flag SW3 0 : Less than threshold 1 : More than threshold	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
159		Qf_data_TIR	H5T_STD_U16LE	3430	2292			Data_description	Quality flag of each pixel	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
160		Qf_data_stray	H5T_STD_U8LE	1715	1146			Data_description	This dataset isn't used.	H5T_C_S1	
								Band_width	0.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	0.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	237.5784	H5T_IEEE_F32L	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_DN	255	H5T_STD_U8LE	
								Maximum_valid_DN	254	H5T_STD_U8LE	
								Minimum_valid_DN	0	H5T_STD_U8LE	
								Saturation_radiance	0.0	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	1000.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.007	H5T_IEEE_F32L	
								Offset	0	H5T_IEEE_F32L	
								Channel		H5T_C_S1	
161		Qf_GPS	H5T_STD_U8LE	354				Data_description	Quality flag of GPS 0 : GPS time standard 1 : DMS time standard	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
162		Qf_sc_position	H5T_STD_U8LE	354				Data_description	Quality flag of GCOM-C position 0 : Normal 1 : Satellite position value falls outside the normal range(or Error value)	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
163		Qf_sc_velocity	H5T_STD_U8LE	354				Data_description	Quality flag of GCOM-C velocity 0 : Normal 1 : Satellite velocity value falls outside the normal range(or Error value)	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
164		Qf_sc_attitude_quaternion	H5T_STD_U8LE	354				Data_description	Quality flag of GCOM-C quaternion 0 : Normal 1 : Abnormal(or Error value)	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
165		Qf_sc_attitude_eular_angle	H5T_STD_U8LE	354				Data_description	Quality flag of GCOM-C eular angle 0 : Normal 1 : Abnormal(or Error value)	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
166		Qf_sc_status	H5T_STD_U8LE	354				Data_description	Quality flag of GCOM-C status 0 : Normal 1 : Possibly less accurate around maneuver or tilt	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
167		Qf_sun_calibration	H5T_STD_U8LE	343				Data_description	Quality flag of Sun calibration (SWI only) 0 : Not Sun calibration(Solar elevation value is within the normal range) 1 : Sun calibration(Solar elevation value falls outside the normal range)	H5T_C_S1	Quality flag of Sun calibration 0: Normal observation 1: Sun calibration
								Dim0	scans	H5T_C_S1	
168		Qf_Internal_light_calibration	H5T_STD_U8LE	343				Data_description	Quality flag of Internal light calibration (SWI only) 0 : Not internal light calibration	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
169		Qf_electric_calibration	H5T_STD_U8LE	2	343			Data_description	Quality flag of electrical calibration 0 : Not electrical calibration 1 : Electrical calibration	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
170		Qf_maneuver	H5T_STD_U8LE	2	343			Data_description	Quality flag of maneuver 0 : Not maneuver 1 : Not maneuver(out of range) 11 : Maneuver(Moon,out of range) 12 : Maneuver(Moon,in of range) 13 : Maneuver(Moon,indefinite) 21 : Maneuver(Sun/Gain deviation) 22 : Maneuver(Sun/Gain deviation,indefinite) 31 : Orbit Control Mode(STT/IRU) 32 : Orbit Control Mode(STT/IRU,indefinite) 33 : Orbit Control Mode(not STT/IRU) 34 : Orbit Control Mode(not STT/IRU,indefinite) 255 : AOCS Control Mode Error value(nominal attitude)	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
171		Qf_LWIR_temperature	H5T_STD_U8LE	343				Data_description	Quality flag of LWIR (TIR) temperature 0 : Normal 1 : LWIR temperature falls outside the normal range	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
172		Qf_SWIR_temperature	H5T_STD_U8LE	343	2			Data_description	Quality flag of SWIR (SWIR) temperature 0 : Normal 1 : SWIR temperature falls outside the normal range	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
								Dim1	temp1(narrow), temp2(wide)	H5T_C_S1	
173		Qf_LED_temperature	H5T_STD_U8LE	343				Data_description	Quality flag of LED temperature 0 : Normal 1 : LED temperature falls outside the normal range	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
174		Qf_halogen_temperature	H5T_STD_U8LE	343				Data_description	Quality flag of Halogen temperature 0 : Normal 1 : Halogen temperature falls outside the normal range	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
175		Qf_blackbody_temperature	H5T_STD_U8LE	343				Data_description	Quality flag of Blackbody temperature	H5T_C_S1	
								Bit00(LSB)-Bit04	temperature1 - temperature5 0 : Normal 1 : Blackbody temperature falls outside the normal range	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
176		Qf_ASP_temperature	H5T_STD_U8LE	343				Data_description	Quality flag of ASP temperature	H5T_C_S1	
								Bit00(LSB)	ASP temperature 0 : Normal 1 : ASP temperature falls outside the normal range	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
177		Qf_preamp_temperature	H5T_STD_U8LE	343				Data_description	Quality flag of Preamp temperature	H5T_C_S1	
								Bit00(LSB)	Preamp temperature 0 : Normal 1 : Preamp temperature falls outside the normal	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
178		Qf_around_blackbody_temperature	H5T_STD_U8LE	343				Data_description	Quality flag of temperature around blackbody	H5T_C_S1	
								Bit00(LSB)	temperature around blackbody 0 : Normal 1 : Temperature around Blackbody falls outside the normal range	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
179		Qf_moon_interference	H5T_STD_U16LE	343				Data_description	Flag of moon interference in deep space window	H5T_C_S1	
								Bit00(LSB)-Bit05	SW1-SW4, TI1-TI2 0 : No affect 1 : Affect	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
180		Qf_scan_rate	H5T_STD_U8LE	343				Data_description	Flag of scan rotation rate 0 : No affect 1 : Affect	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
181		Qf_gain_SWI	H5T_STD_U16LE	1715				Data_description	Quality flag of gain (SW1,SW2,SW4)	H5T_C_S1	
								Bit00(LSB)-Bit02	SW1,SW2,SW4 0 : Good precision 1 : Bad precision	H5T_C_S1	
								Dim0	lines	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
182		Qf_gain_SW3	H5T_STD_U16LE	1715				Data_description	Quality flag of gain (SW3)	H5T_C_S1	
								Bit00(LSB)	SW3 0 : Good precision 1 : Bad precision	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
183		Qf_gain_TIR	H5T_STD_U16LE	3430				Data_description	Quality flag of gain (TIR)	H5T_C_S1	
								Bit00(LSB)-Bit01	TI1-TI2 0 : Good precision 1 : Bad precision	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
184		Qf_offset_SWI	H5T_STD_U16LE	1715				Data_description	Quality flag of offset (SW1,SW2,SW4)	H5T_C_S1	
								Bit00(LSB)-Bit02	SW1,SW2,SW4 0 : Good precision 1 : Bad precision	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
185		Qf_offset_SW3	H5T_STD_U16LE	1715				Data_description	Quality flag of offset (SW3)	H5T_C_S1	
								Bit00(LSB)	SW3 0 : Good precision 1 : Bad precision	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
186		Qf_offset_TIR	H5T_STD_U16LE	3430				Data_description	Quality flag of offset	H5T_C_S1	
								Bit00(LSB)-Bit01	TI1-TI2 0 : Good precision 1 : Bad precision	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
187		Saturation_num_in_line_SWI	H5T_STD_U16LE	3	1715			Data_description	Number of saturation data in line (SWI1,2,4)	H5T_C_S1	Calculation method of the saturation pixel rate and saturation condition are the same as VNR-NP. Saturation threshold value of the digital count value is the processing parameter for each channel.
								Dim0	SWI1,2,4	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
188		Saturation_num_in_line_SW3	H5T_STD_U16LE	1715				Data_description	Number of saturation data in line (SWI3)	H5T_C_S1	Calculation method of the saturation pixel rate and saturation condition are the same as VNR-NP. Saturation threshold value of the digital count value is the processing parameter for each resolution.
								Dim0	lines	H5T_C_S1	
189		Saturation_num_in_line_TIR	H5T_STD_U16LE	2	3430			Data_description	Number of saturation data in line (TIR)	H5T_C_S1	Calculation method of the saturation pixel rate and saturation condition are the same as VNR-NP. Saturation threshold value of the digital count value is the processing parameter for each channel and resolution.
								Dim0	TIR1,2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
	Geometry_data	—	—	—	—	—	—	Number_of_lines	5435	H5T_STD_I32LE	
		—	—	—	—	—	—	Number_of_pixels	173	H5T_STD_I32LE	
		—	—	—	—	—	—	Latitude_unit	degree North	H5T_C_S1	
		—	—	—	—	—	—	Longitude_unit	degree East	H5T_C_S1	
		—	—	—	—	—	—	Upper_left_latitude	31.771229	H5T_IEEE_F32L	Error_value:-999.99
		—	—	—	—	—	—	Upper_left_longitude	177.67711	H5T_IEEE_F32L	Error_value:-999.99
		—	—	—	—	—	—	Upper_right_latitude	34.70099	H5T_IEEE_F32L	Error_value:-999.99
		—	—	—	—	—	—	Upper_right_longitude	158.7626	H5T_IEEE_F32L	Error_value:-999.99
		—	—	—	—	—	—	Lower_left_latitude	45.7335	H5T_IEEE_F32L	Error_value:-999.99
		—	—	—	—	—	—	Lower_left_longitude	-175.31715	H5T_IEEE_F32L	Error_value:-999.99
		—	—	—	—	—	—	Lower_right_latitude	49.363934	H5T_IEEE_F32L	Error_value:-999.99
		—	—	—	—	—	—	Lower_right_longitude	161.3183	H5T_IEEE_F32L	Error_value:-999.99
190		Latitude_SW1	H5T_IEEE_F32LE	1715	116			Data_description	Latitude grid points of SW1(No elevation correction)	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32L	
								Maximum_valid_value	90	H5T_IEEE_F32L	
								Error_value	-999.99	H5T_IEEE_F32L	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	1	H5T_STD_I32LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Pixel grids	H5T_C_S1	
								Unit	degree	H5T_C_S1	
191		Latitude_SW2	H5T_IEEE_F32LE	1715	116			Data_description	Latitude grid points of SW2(No elevation correction)	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32L	
								Maximum_valid_value	90	H5T_IEEE_F32L	
								Error_value	-999.99	H5T_IEEE_F32L	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	1	H5T_STD_I32LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Pixel grids	H5T_C_S1	
								Unit	degree	H5T_C_S1	
192		Latitude_SW3	H5T_IEEE_F32LE	1715	116			Data_description	Latitude grid points of SW3(No elevation correction)	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32L	
								Maximum_valid_value	90	H5T_IEEE_F32L	
								Error_value	-999.99	H5T_IEEE_F32L	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	1	H5T_STD_I32LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Pixel grids	H5T_C_S1	
								Unit	degree	H5T_C_S1	
193		Latitude_SW4	H5T_IEEE_F32LE	1715	116			Data_description	Latitude grid points of SW4(No elevation correction)	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32L	
								Maximum_valid_value	90	H5T_IEEE_F32L	
								Error_value	-999.99	H5T_IEEE_F32L	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	1	H5T_STD_I32LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Pixel grids	H5T_C_S1	
								Unit	degree	H5T_C_S1	
194		Latitude_TI1	H5T_IEEE_F32LE	3430	231			Data_description	Latitude grid points of TI1(No elevation correction)	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32L	
								Maximum_valid_value	90	H5T_IEEE_F32L	
								Error_value	-999.99	H5T_IEEE_F32L	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	1	H5T_STD_I32LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Pixel grids	H5T_C_S1	
								Unit	degree	H5T_C_S1	
195		Latitude_TI2	H5T_IEEE_F32LE	3430	231			Data_description	Latitude grid points of TI2(No elevation correction)	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32L	
								Maximum_valid_value	90	H5T_IEEE_F32L	
								Error_value	-999.99	H5T_IEEE_F32L	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	1	H5T_STD_I32LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Pixel grids	H5T_C_S1	
								Unit	degree	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
196		Longitude_SW1	H5T_IEEE_F32LE	1715	116			Data_description	Longitude grid points of SW1(No elevation correction) Minimum_valid_value < value <= Maximum_valid_value	H5T_C_S1	
								Minimum_valid_value	-180	H5T_IEEE_F32L	
								Maximum_valid_value	180	H5T_IEEE_F32L	
								Error_value	-999.99	H5T_IEEE_F32L	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	1	H5T_STD_I32LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Pixel grids	H5T_C_S1	
								Unit	degree	H5T_C_S1	
197		Longitude_SW2	H5T_IEEE_F32LE	1715	116			Data_description	Longitude grid points of SW2(No elevation correction) Minimum_valid_value < value <= Maximum_valid_value	H5T_C_S1	
								Minimum_valid_value	-180	H5T_IEEE_F32L	
								Maximum_valid_value	180	H5T_IEEE_F32L	
								Error_value	-999.99	H5T_IEEE_F32L	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	1	H5T_STD_I32LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Pixel grids	H5T_C_S1	
								Unit	degree	H5T_C_S1	
198		Longitude_SW3	H5T_IEEE_F32LE	1715	116			Data_description	Longitude grid points of SW3(No elevation correction) Minimum_valid_value < value <= Maximum_valid_value	H5T_C_S1	
								Minimum_valid_value	-180	H5T_IEEE_F32L	
								Maximum_valid_value	180	H5T_IEEE_F32L	
								Error_value	-999.99	H5T_IEEE_F32L	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	1	H5T_STD_I32LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Pixel grids	H5T_C_S1	
								Unit	degree	H5T_C_S1	
199		Longitude_SW4	H5T_IEEE_F32LE	1715	116			Data_description	Longitude grid points of SW4(No elevation correction) Minimum_valid_value < value <= Maximum_valid_value	H5T_C_S1	
								Minimum_valid_value	-180	H5T_IEEE_F32L	
								Maximum_valid_value	180	H5T_IEEE_F32L	
								Error_value	-999.99	H5T_IEEE_F32L	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	1	H5T_STD_I32LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Pixel grids	H5T_C_S1	
								Unit	degree	H5T_C_S1	
200		Longitude_TI1	H5T_IEEE_F32LE	3430	231			Data_description	Longitude grid points of TI1(No elevation correction) Minimum_valid_value < value <= Maximum_valid_value	H5T_C_S1	
								Minimum_valid_value	-180	H5T_IEEE_F32L	
								Maximum_valid_value	180	H5T_IEEE_F32L	
								Error_value	-999.99	H5T_IEEE_F32L	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	1	H5T_STD_I32LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Pixel grids	H5T_C_S1	
								Unit	degree	H5T_C_S1	
201		Longitude_TI2	H5T_IEEE_F32LE	3430	231			Data_description	Longitude grid points of TI2(No elevation correction) Minimum_valid_value < value <= Maximum_valid_value	H5T_C_S1	
								Minimum_valid_value	-180	H5T_IEEE_F32L	
								Maximum_valid_value	180	H5T_IEEE_F32L	
								Error_value	-999.99	H5T_IEEE_F32L	
								Data_interval_pixel	10	H5T_STD_I32LE	
								Data_interval_line	1	H5T_STD_I32LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Pixel grids	H5T_C_S1	
								Unit	degree	H5T_C_S1	
202		GPS_TAI	H5T_IEEE_F64LE	1				Data_description	Time difference between GPS(Epoch 1980/1/6) and TAI(Epoch 1993/1/1)	H5T_C_S1	
								Unit	sec	H5T_C_S1	
203		Leap_second	H5T_STD_I8LE	2				Data_description	Leap second time (TAI-UTC)	H5T_C_S1	
								Unit	sec	H5T_C_S1	
								Insert_leap_time	20170101, 00000000	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
204		Scan_start_time_TAI	H5T_IEEE_F64LE	343				Data_description	Scan start time (TAI)	H5T_C_S1	
								Epoch_time	19930101 00:00:00	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
								Error_value	0	H5T_IEEE_F64L	
								Unit	sec	H5T_C_S1	
205		Modified_julian_date	H5T_IEEE_F64LE	343				Data_description	Modified julian date	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
								Unit	day	H5T_C_S1	
206		Sun_vector_ECI	H5T_IEEE_F64LE	3430	3			Data_description	Sun position vector (J2000)	H5T_C_S1	
								Coordinate_system	J2000	H5T_C_S1	
								Data_interval_line	1	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	x, y, z	H5T_C_S1	
								Unit	km	H5T_C_S1	
207		Moon_vector_ECI	H5T_IEEE_F64LE	3430	3			Data_description	Moon position vector (J2000)	H5T_C_S1	
								Coordinate_system	J2000	H5T_C_S1	
								Data_interval_line	1	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	x, y, z	H5T_C_S1	
								Unit	km	H5T_C_S1	
208		Solar_azimuth	H5T_IEEE_F32LE	3430				Data_description	Solar azimuth angle	H5T_C_S1	
								Coordinate_system	Satellite coordinate system	H5T_C_S1	
								Error_value	-999.99	H5T_IEEE_F32L	
								Dim0	lines	H5T_C_S1	
								Unit	degree	H5T_C_S1	
209		Solar_zenith	H5T_IEEE_F32LE	3430				Data_description	Solar zenith angle	H5T_C_S1	
								Coordinate_system	Satellite coordinate system	H5T_C_S1	
								Error_value	-999.99	H5T_IEEE_F32L	
								Dim0	lines	H5T_C_S1	
								Unit	degree	H5T_C_S1	
210		Moon_azimuth	H5T_IEEE_F32LE	3430				Data_description	Moon azimuth angle	H5T_C_S1	
								Coordinate_system	Satellite coordinate system	H5T_C_S1	
								Error_value	-999.99	H5T_IEEE_F32L	
								Dim0	lines	H5T_C_S1	
								Unit	degree	H5T_C_S1	
211		Moon_zenith	H5T_IEEE_F32LE	3430				Data_description	Moon zenith angle	H5T_C_S1	
								Coordinate_system	Satellite coordinate system	H5T_C_S1	
								Error_value	-999.99	H5T_IEEE_F32L	
								Dim0	lines	H5T_C_S1	
								Unit	degree	H5T_C_S1	
212		Moon_sc_y_axis_angle	H5T_IEEE_F32LE	3430				Data_description	The angle of between Moon direction and spacecraft Y	H5T_C_S1	
								Coordinate_system	Satellite coordinate system	H5T_C_S1	
								Error_value	-999.99	H5T_IEEE_F32L	
								Dim0	lines	H5T_C_S1	
								Unit	degree	H5T_C_S1	
213	Earth_rotation_parameter	Polar_motion	H5T_IEEE_F64LE	2				Data_description	Polar motion parameter	H5T_C_S1	
								Dim0	dx, dy	H5T_C_S1	
								Unit	sec of arc	H5T_C_S1	
214		UT1-UTC	H5T_IEEE_F32LE	1				Data_description	UT1-UTC	H5T_C_S1	
								Unit	sec	H5T_C_S1	
215		Precession_nutation	H5T_IEEE_F64LE	2				Data_description	Precession and nutation parameter	H5T_C_S1	
								Dim0	dpsi, deps	H5T_C_S1	
								Unit	msec of arc	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
216	Extended_area/SW_250m	Overlap_pre_SW1	H5T_STD_U16LE	375	1146			Data_description	Observed digital count of SW1(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	20.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	1050.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	646.5213	H5T_IEEE_F32L	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	284.9	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	1000.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
217		Overlap_pre_SW2	H5T_STD_U16LE	375	1146			Data_description	Observed digital count of SW2(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	20.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	1380.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	361.225	H5T_IEEE_F32L	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	118.5	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	1000.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
218		Overlap_pre_SW3	H5T_STD_U16LE	1500	4584			Data_description	Observed digital count of SW3(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	200.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	1630.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	237.5784	H5T_IEEE_F32L	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	55.2	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
219		Overlap_pre_SW4	H5T_STD_U16LE	375	1146			Data_description	Observed digital count of SW4(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	50.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	2210.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	84.2413	H5T_IEEE_F32L	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	22.2	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	1000.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
220		Overlap_post_SW1	H5T_STD_U16LE	375	1146			Data_description	Observed digital count of SW1(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	20.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	1050.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	646.5213	H5T_IEEE_F32L	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	284.9	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	1000.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
221		Overlap_post_SW2	H5T_STD_U16LE	375	1146			Data_description	Observed digital count of SW2(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	20.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	1380.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	361.225	H5T_IEEE_F32L	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	118.5	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	1000.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
222		Overlap_post_SW3	H5T_STD_U16LE	1500	4584			Data_description	Observed digital count of SW3(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	200.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	1630.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	237.5784	H5T_IEEE_F32L	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	55.2	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
223		Overlap_post_SW4	H5T_STD_U16LE	375	1146			Data_description	Observed digital count of SW4(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	50.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	2210.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	84.2413	H5T_IEEE_F32L	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	22.2	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	1000.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
224		Overlap_pre_Blackbody_SW1	H5T_STD_U16LE	375	32			Data_description	Blackbody raw data of SW1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
225		Overlap_post_Blackbody_SW1	H5T_STD_U16LE	375	32			Data_description	Blackbody raw data of SW1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
226		Overlap_pre_Blackbody_SW2	H5T_STD_U16LE	375	32			Data_description	Blackbody raw data of SW2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
227		Overlap_post_Blackbody_SW2	H5T_STD_U16LE	375	32			Data_description	Blackbody raw data of SW2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
228		Overlap_pre_Blackbody_SW3	H5T_STD_U16LE	1500	32			Data_description	Blackbody raw data of SW3	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
229		Overlap_post_Blackbody_SW3	H5T_STD_U16LE	1500	32			Data_description	Blackbody raw data of SW3	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
230		Overlap_pre_Blackbody_SW4	H5T_STD_U16LE	375	32			Data_description	Blackbody raw data of SW4	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
231		Overlap_post_Blackbody_SW4	H5T_STD_U16LE	375	32			Data_description	Blackbody raw data of SW4	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
232		Overlap_pre_Internal_lamp_LED_SW1	H5T_STD_U16LE	375	32			Data_description	Internal light raw data of SW1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
233		Overlap_post_Internal_lamp_LED_SW1	H5T_STD_U16LE	375	32			Data_description	Internal light raw data of SW1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
234		Overlap_pre_Internal_lamp_LED_SW2	H5T_STD_U16LE	375	32			Data_description	Internal light raw data of SW2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
235		Overlap_post_Internal_lamp_LED_SW2	H5T_STD_U16LE	375	32			Data_description	Internal light raw data of SW2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
236		Overlap_pre_Internal_lamp_LED_SW3	H5T_STD_U16LE	1500	32			Data_description	Internal light raw data of SW3	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
237		Overlap_post_Internal_lamp_LED_SW3	H5T_STD_U16LE	1500	32			Data_description	Internal light raw data of SW3	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
238		Overlap_pre_Internal_lamp_LED_SW4	H5T_STD_U16LE	375	32			Data_description	Internal light raw data of SW4	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
239		Overlap_post_Internal_lamp_LED_SW4	H5T_STD_U16LE	375	32			Data_description	Internal light raw data of SW4	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
240		Overlap_pre_Deep_space_SW1	H5T_STD_U16LE	375	32			Data_description	Deep space raw data of SW1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
241		Overlap_post_Deep_space_SW1	H5T_STD_U16LE	375	32			Data_description	Deep space raw data of SW1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
242		Overlap_pre_Deep_space_SW2	H5T_STD_U16LE	375	32			Data_description	Deep space raw data of SW2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
243		Overlap_post_Deep_space_SW2	H5T_STD_U16LE	375	32			Data_description	Deep space raw data of SW2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
244		Overlap_pre_Deep_space_SW3	H5T_STD_U16LE	1500	32			Data_description	Deep space raw data of SW3	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
245		Overlap_post_Deep_space_SW3	H5T_STD_U16LE	1500	32			Data_description	Deep space raw data of SW3	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
246		Overlap_pre_Deep_space_SW4	H5T_STD_U16LE	375	32			Data_description	Deep space raw data of SW4	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
247		Overlap_post_Deep_space_SW4	H5T_STD_U16LE	375	32			Data_description	Deep space raw data of SW4	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
248		Overlap_pre_Diffuser_SW1	H5T_STD_U16LE	375	64			Data_description	Scatter diffuser raw data of SW1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
249		Overlap_post_Diffuser_SW1	H5T_STD_U16LE	375	64			Data_description	Scatter diffuser raw data of SW1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
250		Overlap_pre_Diffuser_SW2	H5T_STD_U16LE	375	64			Data_description	Scatter diffuser raw data of SW2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
251		Overlap_post_Diffuser_SW2	H5T_STD_U16LE	375	64			Data_description	Scatter diffuser raw data of SW2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
252		Overlap_pre_Diffuser_SW3	H5T_STD_U16LE	1500	64			Data_description	Scatter diffuser raw data of SW3	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
253		Overlap_post_Diffuser_SW3	H5T_STD_U16LE	1500	64			Data_description	Scatter diffuser raw data of SW3	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
254		Overlap_pre_Diffuser_SW4	H5T_STD_U16LE	375	64			Data_description	Scatter diffuser raw data of SW4	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
255		Overlap_post_Diffuser_SW4	H5T_STD_U16LE	375	64			Data_description	Scatter diffuser raw data of SW4	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
256		Overlap_pre_Raw_packet1_2_SWI	H5T_STD_U8LE	75	2	1826		Data_description	Packet#1 and #2 raw data	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	lines	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	
								Dim2	octets	H5T_C_S1	
257		Overlap_pre_Raw_packet_header_SWI	H5T_STD_U8LE	75	2522			Data_description	Raw packet header of all packets(#1-97)	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	lines	H5T_C_S1	
								Dim1	octets	H5T_C_S1	
258		Overlap_post_Raw_packet1_2_SWI	H5T_STD_U8LE	75	2	1826		Data_description	Packet#1 and #2 raw data	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	lines	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	
								Dim2	octets	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
259		Overlap_post_Raw_packet_header_SWI	H5T_STD_U8LE	75	2522			Data_description	Raw packet header of all packets(#1-97)	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	lines	H5T_C_S1	
								Dim1	octets	H5T_C_S1	
260		Overlap_pre_Qf_scan_SWI	H5T_STD_U8LE	3	1715			Data_description	Quality flag of each scan	H5T_C_S1	
								Dim0	SW1, SW2, SW4	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Bit00(LSB)-002	Quality flag 000 : Normal line 001 : Lack line 101 : Lack line (for synchronization between sensors) 010 : Resampling line (250m->1km/500m) 110 : Resampling line (500m->1km) 111 : Mixed line (000,001,101,010,110)	H5T_C_S1	
261		Overlap_pre_Qf_scan_SW3	H5T_STD_U8LE	1715				Data_description	Quality flag of each scan	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Bit00(LSB)-002	Quality flag 000 : Normal line 001 : Lack line 101 : Lack line (for synchronization between sensors) 010 : Resampling line (250m->1km/500m) 110 : Resampling line (500m->1km) 111 : Mixed line (000,001,101,010,110)	H5T_C_S1	
262		Overlap_post_Qf_scan_SWI	H5T_STD_U8LE	3	1715			Data_description	Quality flag of each scan	H5T_C_S1	
								Dim0	SW1, SW2, SW4	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Bit00(LSB)-002	Quality flag 000 : Normal line 001 : Lack line 101 : Lack line (for synchronization between sensors) 010 : Resampling line (250m->1km/500m) 110 : Resampling line (500m->1km) 111 : Mixed line (000,001,101,010,110)	H5T_C_S1	
263		Overlap_post_Qf_scan_SW3	H5T_STD_U8LE	1715				Data_description	Quality flag of each scan	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Bit00(LSB)-002	Quality flag 000 : Normal line 001 : Lack line 101 : Lack line (for synchronization between sensors) 010 : Resampling line (250m->1km/500m) 110 : Resampling line (500m->1km) 111 : Mixed line (000,001,101,010,110)	H5T_C_S1	
264	Extended_area/SW_1km	Overlap_pre_SW1	H5T_STD_U16LE	375	1146			Data_description	Observed digital count of SW1(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	20.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	1050.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	646.5213	H5T_IEEE_F32L	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	284.9	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	1000.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
265		Overlap_pre_SW2	H5T_STD_U16LE	375	1146			Data_description	Observed digital count of SW2(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	20.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	1380.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	361.225	H5T_IEEE_F32L	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	118.5	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	1000.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
266		Overlap_pre_SW3	H5T_STD_U16LE	1500	4584			Data_description	Observed digital count of SW3(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	200.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	1630.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	237.5784	H5T_IEEE_F32L	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	55.2	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
267		Overlap_pre_SW4	H5T_STD_U16LE	375	1146			Data_description	Observed digital count of SW4(Pre Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	50.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	2210.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	84.2413	H5T_IEEE_F32L	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	22.2	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	1000.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
268		Overlap_post_SW1	H5T_STD_U16LE	375	1146			Data_description	Observed digital count of SW1(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	20.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	1050.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	646.5213	H5T_IEEE_F32L	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	284.9	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	1000.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
269		Overlap_post_SW2	H5T_STD_U16LE	375	1146			Data_description	Observed digital count of SW2(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	20.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	1380.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	361.225	H5T_IEEE_F32L	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	118.5	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	1000.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
270		Overlap_post_SW3	H5T_STD_U16LE	1500	4584			Data_description	Observed digital count of SW3(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	200.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	1630.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	237.5784	H5T_IEEE_F32L	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	55.2	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
271		Overlap_post_SW4	H5T_STD_U16LE	375	1146			Data_description	Observed digital count of SW4(Post Overlap) only different from main data resolution Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	50.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	2210.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	84.2413	H5T_IEEE_F32L	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	22.2	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	1000.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
272		Overlap_pre_Blackbody_SW1	H5T_STD_U16LE	375	32			Data_description	Blackbody raw data of SW1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
273		Overlap_post_Blackbody_SW1	H5T_STD_U16LE	375	32			Data_description	Blackbody raw data of SW1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
274		Overlap_pre_Blackbody_SW2	H5T_STD_U16LE	375	32			Data_description	Blackbody raw data of SW2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
275		Overlap_post_Blackbody_SW2	H5T_STD_U16LE	375	32			Data_description	Blackbody raw data of SW2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
276		Overlap_pre_Blackbody_SW3	H5T_STD_U16LE	1500	32			Data_description	Blackbody raw data of SW3	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
277		Overlap_post_Blackbody_SW3	H5T_STD_U16LE	1500	32			Data_description	Blackbody raw data of SW3	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
278		Overlap_pre_Blackbody_SW4	H5T_STD_U16LE	375	32			Data_description	Blackbody raw data of SW4	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
279		Overlap_post_Blackbody_SW4	H5T_STD_U16LE	375	32			Data_description	Blackbody raw data of SW4	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
280		Overlap_pre_Internal_lamp_LED_SW1	H5T_STD_U16LE	375	32			Data_description	Internal light raw data of SW1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
281		Overlap_post_Internal_lamp_LED_SW1	H5T_STD_U16LE	375	32			Data_description	Internal light raw data of SW1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
282		Overlap_pre_Internal_lamp_LED_SW2	H5T_STD_U16LE	375	32			Data_description	Internal light raw data of SW2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
283		Overlap_post_Internal_lamp_LED_SW2	H5T_STD_U16LE	375	32			Data_description	Internal light raw data of SW2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
284		Overlap_pre_Internal_lamp_LED_SW3	H5T_STD_U16LE	1500	32			Data_description	Internal light raw data of SW3	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
285		Overlap_post_Internal_lamp_LED_SW3	H5T_STD_U16LE	1500	32			Data_description	Internal light raw data of SW3	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
286		Overlap_pre_Internal_lamp_LED_SW4	H5T_STD_U16LE	375	32			Data_description	Internal light raw data of SW4	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
287		Overlap_post_Internal_lamp_LED_SW4	H5T_STD_U16LE	375	32			Data_description	Internal light raw data of SW4	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
288		Overlap_pre_Deep_space_SW1	H5T_STD_U16LE	375	32			Data_description	Deep space raw data of SW1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
289		Overlap_post_Deep_space_SW1	H5T_STD_U16LE	375	32			Data_description	Deep space raw data of SW1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
290		Overlap_pre_Deep_space_SW2	H5T_STD_U16LE	375	32			Data_description	Deep space raw data of SW2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
291		Overlap_post_Deep_space_SW2	H5T_STD_U16LE	375	32			Data_description	Deep space raw data of SW2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
292		Overlap_pre_Deep_space_SW3	H5T_STD_U16LE	1500	32			Data_description	Deep space raw data of SW3	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
293		Overlap_post_Deep_space_SW3	H5T_STD_U16LE	1500	32			Data_description	Deep space raw data of SW3	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
294		Overlap_pre_Deep_space_SW4	H5T_STD_U16LE	375	32			Data_description	Deep space raw data of SW4	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
295		Overlap_post_Deep_space_SW4	H5T_STD_U16LE	375	32			Data_description	Deep space raw data of SW4	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
296		Overlap_pre_Diffuser_SW1	H5T_STD_U16LE	375	64			Data_description	Scatter diffuser raw data of SW1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
297		Overlap_post_Diffuser_SW1	H5T_STD_U16LE	375	64			Data_description	Scatter diffuser raw data of SW1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
298		Overlap_pre_Diffuser_SW2	H5T_STD_U16LE	375	64			Data_description	Scatter diffuser raw data of SW2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
299		Overlap_post_Diffuser_SW2	H5T_STD_U16LE	375	64			Data_description	Scatter diffuser raw data of SW2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
300		Overlap_pre_Diffuser_SW3	H5T_STD_U16LE	1500	64			Data_description	Scatter diffuser raw data of SW3	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
301		Overlap_post_Diffuser_SW3	H5T_STD_U16LE	1500	64			Data_description	Scatter diffuser raw data of SW3	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
302		Overlap_pre_Diffuser_SW4	H5T_STD_U16LE	375	64			Data_description	Scatter diffuser raw data of SW4	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
303		Overlap_post_Diffuser_SW4	H5T_STD_U16LE	375	64			Data_description	Scatter diffuser raw data of SW4	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
304		Overlap_pre_Raw_packet1_2_SWI	H5T_STD_U8LE	75	2	1826		Data_description	Packet#1 and #2 raw data	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	lines	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	
								Dim2	octets	H5T_C_S1	
305		Overlap_pre_Raw_packet_header_SWI	H5T_STD_U8LE	75	2522			Data_description	Raw packet header of all packets(#1-97)	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	lines	H5T_C_S1	
								Dim1	octets	H5T_C_S1	
306		Overlap_post_Raw_packet1_2_SWI	H5T_STD_U8LE	75	2	1826		Data_description	Packet#1 and #2 raw data	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	lines	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	
								Dim2	octets	H5T_C_S1	
307		Overlap_post_Raw_packet_header_SWI	H5T_STD_U8LE	75	2522			Data_description	Raw packet header of all packets(#1-97)	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	lines	H5T_C_S1	
								Dim1	octets	H5T_C_S1	
308		Overlap_pre_Qf_scan_SWI	H5T_STD_U8LE	3	1715			Data_description	Quality flag of each scan	H5T_C_S1	
								Dim0	SW1, SW2, SW4	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Bit00(LSB)-002	Quality flag 000 : Normal line 001 : Lack line 101 : Lack line (for synchronization between sensors) 010 : Resampling line (250m->1km/500m) 110 : Resampling line (500m->1km) 111 : Mixed line (000,001,101,010,110)	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
309		Overlap_pre_Qf_scan_SW3	H5T_STD_U8LE	1715				Data_description	Quality flag of each scan	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Bit00(LSB)-002	Quality flag 000 : Normal line 001 : Lack line 101 : Lack line (for synchronization between sensors) 010 : Resampling line (250m->1km/500m) 110 : Resampling line (500m->1km) 111 : Mixed line (000,001,101,010,110)	H5T_C_S1	
310		Overlap_post_Qf_scan_SWI	H5T_STD_U8LE	3	1715			Data_description	Quality flag of each scan	H5T_C_S1	
								Dim0	SW1, SW2, SW4	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Bit00(LSB)-002	Quality flag 000 : Normal line 001 : Lack line 101 : Lack line (for synchronization between sensors) 010 : Resampling line (250m->1km/500m) 110 : Resampling line (500m->1km) 111 : Mixed line (000,001,101,010,110)	H5T_C_S1	
311		Overlap_post_Qf_scan_SW3	H5T_STD_U8LE	1715				Data_description	Quality flag of each scan	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Bit00(LSB)-002	Quality flag 000 : Normal line 001 : Lack line 101 : Lack line (for synchronization between sensors) 010 : Resampling line (250m->1km/500m) 110 : Resampling line (500m->1km) 111 : Mixed line (000,001,101,010,110)	H5T_C_S1	
312	Extended_area/TI_250m	Overlap_pre_TI1	H5T_STD_U16LE	1500	4584			Data_description	Observed digital count of TI1(Pre Overlap) only different from main data resolution	H5T_C_S1	
								Band_width	700.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	11000.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	18.2	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
313		Overlap_pre_TI2	H5T_STD_U16LE	1500	4584			Data_description	Observed digital count of TI2(Pre Overlap) only different from main data resolution	H5T_C_S1	
								Band_width	700.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	12000.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	16.1	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
314		Overlap_post_TI1	H5T_STD_U16LE	1500	4584			Data_description	Observed digital count of TI1(Post Overlap) only different from main data resolution	H5T_C_S1	
								Band_width	700.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	11000.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	18.2	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
315		Overlap_post_TI2	H5T_STD_U16LE	1500	4584			Data_description	Observed digital count of TI2(Post Overlap) only different from main data resolution	H5T_C_S1	
								Band_width	700.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	12000.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	16.1	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
316		Overlap_pre_Blackbody_TI1	H5T_STD_U16LE	1500	64			Data_description	Blackbody raw data of TI1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
317		Overlap_post_Blackbody_TI1	H5T_STD_U16LE	1500	64			Data_description	Blackbody raw data of TI1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
318		Overlap_pre_Blackbody_TI2	H5T_STD_U16LE	1500	64			Data_description	Blackbody raw data of TI2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
319		Overlap_post_Blackbody_TI2	H5T_STD_U16LE	1500	64			Data_description	Blackbody raw data of TI2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
320		Overlap_pre_Internal_lamp_LED_TI1	H5T_STD_U16LE	1500	64			Data_description	Internal light raw data of TI1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
321		Overlap_post_Internal_lamp_LED_TI1	H5T_STD_U16LE	1500	64			Data_description	Internal light raw data of TI1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
322		Overlap_pre_Internal_lamp_LED_TI2	H5T_STD_U16LE	1500	64			Data_description	Internal light raw data of TI2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
323		Overlap_post_Internal_lamp_LED_TI2	H5T_STD_U16LE	1500	64			Data_description	Internal light raw data of TI2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
324		Overlap_pre_Deep_space_TI1	H5T_STD_U16LE	1500	64			Data_description	Deep space raw data of TI1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
325		Overlap_post_Deep_space_TI1	H5T_STD_U16LE	1500	64			Data_description	Deep space raw data of TI1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
326		Overlap_pre_Deep_space_TI2	H5T_STD_U16LE	1500	64			Data_description	Deep space raw data of TI2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
327		Overlap_post_Deep_space_TI2	H5T_STD_U16LE	1500	64			Data_description	Deep space raw data of TI2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
328		Overlap_pre_Diffuser_TI1	H5T_STD_U16LE	1500	128			Data_description	Scatter diffuser raw data of TI1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
329		Overlap_post_Diffuser_TI1	H5T_STD_U16LE	1500	128			Data_description	Scatter diffuser raw data of TI1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
330		Overlap_pre_Diffuser_TI2	H5T_STD_U16LE	1500	128			Data_description	Scatter diffuser raw data of TI2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
331		Overlap_post_Diffuser_TI2	H5T_STD_U16LE	1500	128			Data_description	Scatter diffuser raw data of TI2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
332		Overlap_pre_Raw_packet1_2_TIR	H5T_STD_U8LE	75	2	1826		Data_description	Packet#1 and #2 raw data	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	lines	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	
								Dim2	octets	H5T_C_S1	
333		Overlap_pre_Raw_packet_header_TIR	H5T_STD_U8LE	75	4212			Data_description	Raw packet header of all packets(#1-162)	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	lines	H5T_C_S1	
								Dim1	octets	H5T_C_S1	
334		Overlap_post_Raw_packet1_2_TIR	H5T_STD_U8LE	75	2	1826		Data_description	Packet#1 and #2 raw data	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	lines	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	
								Dim2	octets	H5T_C_S1	
335		Overlap_post_Raw_packet_header_TIR	H5T_STD_U8LE	75	4212			Data_description	Raw packet header of all packets(#1-162)	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	lines	H5T_C_S1	
								Dim1	octets	H5T_C_S1	
336		Overlap_pre_Qf_scan_TIR	H5T_STD_U8LE	2	3430			Data_description	Quality flag of each scan	H5T_C_S1	
								Dim0	TIR1, TIR2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Bit00(LSB)-002	Quality flag 000 : Normal line 001 : Lack line 101 : Lack line (for synchronization between sensors) 010 : Resampling line (250m->1km/500m) 110 : Resampling line (500m->1km) 111 : Mixed line (000,001,101,010,110)	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
337		Overlap_post_Qf_scan_TIR	H5T_STD_U8LE	2	3430			Data_description	Quality flag of each scan	H5T_C_S1	
								Dim0	TIR1, TIR2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Bit00(LSB)-002	Quality flag 000 : Normal line 001 : Lack line 101 : Lack line (for synchronization between sensors) 010 : Resampling line (250m->1km/500m) 110 : Resampling line (500m->1km) 111 : Mixed line (000,001,101,010,110)	H5T_C_S1	
338	Extended_area/TI_500m	Overlap_pre_TI1	H5T_STD_U16LE	1500	4584			Data_description	Observed digital count of TI1(Pre Overlap) only different from main data resolution	H5T_C_S1	
								Band_width	700.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	11000.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	18.2	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
339		Overlap_pre_TI2	H5T_STD_U16LE	1500	4584			Data_description	Observed digital count of TI2(Pre Overlap) only different from main data resolution	H5T_C_S1	
								Band_width	700.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	12000.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	16.1	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
340		Overlap_post_TI1	H5T_STD_U16LE	1500	4584			Data_description	Observed digital count of TI1(Post Overlap) only different from main data resolution	H5T_C_S1	
								Band_width	700.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	11000.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	18.2	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
341		Overlap_post_TI2	H5T_STD_U16LE	1500	4584			Data_description	Observed digital count of TI2(Post Overlap) only different from main data resolution	H5T_C_S1	
								Band_width	700.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	12000.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	16.1	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
342		Overlap_pre_Blackbody_TI1	H5T_STD_U16LE	1500	64			Data_description	Blackbody raw data of TI1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
343		Overlap_post_Blackbody_TI1	H5T_STD_U16LE	1500	64			Data_description	Blackbody raw data of TI1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
344		Overlap_pre_Blackbody_TI2	H5T_STD_U16LE	1500	64			Data_description	Blackbody raw data of TI2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
345		Overlap_post_Blackbody_TI2	H5T_STD_U16LE	1500	64			Data_description	Blackbody raw data of TI2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
346		Overlap_pre_Internal_lamp_LED_TI1	H5T_STD_U16LE	1500	64			Data_description	Internal light raw data of TI1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
347		Overlap_post_Internal_lamp_LED_TI1	H5T_STD_U16LE	1500	64			Data_description	Internal light raw data of TI1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
348		Overlap_pre_Internal_lamp_LED_TI2	H5T_STD_U16LE	1500	64			Data_description	Internal light raw data of TI2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
349		Overlap_post_Internal_lamp_LED_TI2	H5T_STD_U16LE	1500	64			Data_description	Internal light raw data of TI2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
350		Overlap_pre_Deep_space_TI1	H5T_STD_U16LE	1500	64			Data_description	Deep space raw data of TI1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
351		Overlap_post_Deep_space_TI1	H5T_STD_U16LE	1500	64			Data_description	Deep space raw data of TI1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
352		Overlap_pre_Deep_space_TI2	H5T_STD_U16LE	1500	64			Data_description	Deep space raw data of TI2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
353		Overlap_post_Deep_space_TI2	H5T_STD_U16LE	1500	64			Data_description	Deep space raw data of TI2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
354		Overlap_pre_Diffuser_TI1	H5T_STD_U16LE	1500	128			Data_description	Scatter diffuser raw data of TI1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
355		Overlap_post_Diffuser_TI1	H5T_STD_U16LE	1500	128			Data_description	Scatter diffuser raw data of TI1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
356		Overlap_pre_Diffuser_TI2	H5T_STD_U16LE	1500	128			Data_description	Scatter diffuser raw data of TI2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
357		Overlap_post_Diffuser_TI2	H5T_STD_U16LE	1500	128			Data_description	Scatter diffuser raw data of TI2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
358		Overlap_pre_Raw_packet1_2_TIR	H5T_STD_U8LE	75	2	1826		Data_description	Packet#1 and #2 raw data	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	lines	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	
								Dim2	octets	H5T_C_S1	
359		Overlap_pre_Raw_packet_header_TIR	H5T_STD_U8LE	75	4212			Data_description	Raw packet header of all packets(#1-162)	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	lines	H5T_C_S1	
								Dim1	octets	H5T_C_S1	
360		Overlap_post_Raw_packet1_2_TIR	H5T_STD_U8LE	75	2	1826		Data_description	Packet#1 and #2 raw data	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	lines	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	
								Dim2	octets	H5T_C_S1	
361		Overlap_post_Raw_packet_header_TIR	H5T_STD_U8LE	75	4212			Data_description	Raw packet header of all packets(#1-162)	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	lines	H5T_C_S1	
								Dim1	octets	H5T_C_S1	
362		Overlap_pre_Qf_scan_TIR	H5T_STD_U8LE	2	3430			Data_description	Quality flag of each scan	H5T_C_S1	
								Dim0	TIR1, TIR2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Bit00(LSB)-002	Quality flag 000 : Normal line 001 : Lack line 101 : Lack line (for synchronization between sensors) 010 : Resampling line (250m->1km/500m) 110 : Resampling line (500m->1km) 111 : Mixed line (000,001,101,010,110)	H5T_C_S1	
363		Overlap_post_Qf_scan_TIR	H5T_STD_U8LE	2	3430			Data_description	Quality flag of each scan	H5T_C_S1	
								Dim0	TIR1, TIR2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Bit00(LSB)-002	Quality flag 000 : Normal line 001 : Lack line 101 : Lack line (for synchronization between sensors) 010 : Resampling line (250m->1km/500m) 110 : Resampling line (500m->1km) 111 : Mixed line (000,001,101,010,110)	H5T_C_S1	
364	Extended_area/TI_1km	Overlap_pre_TI1	H5T_STD_U16LE	1500	4584			Data_description	Observed digital count of TI1(Pre Overlap) only different from main data resolution	H5T_C_S1	
								Band_width	700.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	11000.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	18.2	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
365		Overlap_pre_TI2	H5T_STD_U16LE	1500	4584			Data_description	Observed digital count of TI2(Pre Overlap) only different from main data resolution	H5T_C_S1	
								Band_width	700.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	12000.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	16.1	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
366		Overlap_post_TI1	H5T_STD_U16LE	1500	4584			Data_description	Observed digital count of TI1(Post Overlap) only different from main data resolution	H5T_C_S1	
								Band_width	700.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	11000.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	18.2	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
367		Overlap_post_TI2	H5T_STD_U16LE	1500	4584			Data_description	Observed digital count of TI2(Post Overlap) only different from main data resolution	H5T_C_S1	
								Band_width	700.0	H5T_IEEE_F32L	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	12000.0	H5T_IEEE_F32L	
								Center_wavelength_unit	nm	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Maximum_valid_value	65534	H5T_STD_I32LE	
								Minimum_valid_value	0	H5T_STD_I32LE	
								Saturation_radiance	16.1	H5T_IEEE_F32L	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32L	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
368		Overlap_pre_Blackbody_TI1	H5T_STD_U16LE	1500	64			Data_description	Blackbody raw data of TI1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
369		Overlap_post_Blackbody_TI1	H5T_STD_U16LE	1500	64			Data_description	Blackbody raw data of TI1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
370		Overlap_pre_Blackbody_TI2	H5T_STD_U16LE	1500	64			Data_description	Blackbody raw data of TI2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
371		Overlap_post_Blackbody_TI2	H5T_STD_U16LE	1500	64			Data_description	Blackbody raw data of TI2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
372		Overlap_pre_Internal_lamp_LED_TI1	H5T_STD_U16LE	1500	64			Data_description	Internal light raw data of TI1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
373		Overlap_post_Internal_lamp_LED_TI1	H5T_STD_U16LE	1500	64			Data_description	Internal light raw data of TI1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
374		Overlap_pre_Internal_lamp_LED_TI2	H5T_STD_U16LE	1500	64			Data_description	Internal light raw data of TI2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
375		Overlap_post_Internal_lamp_LED_TI2	H5T_STD_U16LE	1500	64			Data_description	Internal light raw data of TI2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
376		Overlap_pre_Deep_space_TI1	H5T_STD_U16LE	1500	64			Data_description	Deep space raw data of TI1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
377		Overlap_post_Deep_space_TI1	H5T_STD_U16LE	1500	64			Data_description	Deep space raw data of TI1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
378		Overlap_pre_Deep_space_TI2	H5T_STD_U16LE	1500	64			Data_description	Deep space raw data of TI2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
379		Overlap_post_Deep_space_TI2	H5T_STD_U16LE	1500	64			Data_description	Deep space raw data of TI2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
380		Overlap_pre_Diffuser_TI1	H5T_STD_U16LE	1500	128			Data_description	Scatter diffuser raw data of TI1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
381		Overlap_post_Diffuser_TI1	H5T_STD_U16LE	1500	128			Data_description	Scatter diffuser raw data of TI1	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
382		Overlap_pre_Diffuser_TI2	H5T_STD_U16LE	1500	128			Data_description	Scatter diffuser raw data of TI2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
383		Overlap_post_Diffuser_TI2	H5T_STD_U16LE	1500	128			Data_description	Scatter diffuser raw data of TI2	H5T_C_S1	
								Error_value	65535	H5T_STD_I32LE	
								Dim0	lines	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
								Unit	Count	H5T_C_S1	
384		Overlap_pre_Raw_packet1_2_TIR	H5T_STD_U8LE	75	2	1826		Data_description	Packet#1 and #2 raw data	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	lines	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	
								Dim2	octets	H5T_C_S1	
385		Overlap_pre_Raw_packet_header_TIR	H5T_STD_U8LE	75	4212			Data_description	Raw packet header of all packets(#1-162)	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	lines	H5T_C_S1	
								Dim1	octets	H5T_C_S1	
386		Overlap_post_Raw_packet1_2_TIR	H5T_STD_U8LE	75	2	1826		Data_description	Packet#1 and #2 raw data	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	lines	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	
								Dim2	octets	H5T_C_S1	
387		Overlap_post_Raw_packet_header_TIR	H5T_STD_U8LE	75	4212			Data_description	Raw packet header of all packets(#1-162)	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Dim0	lines	H5T_C_S1	
								Dim1	octets	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1A

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute	Remarks
388		Overlap_pre_Qf_scan_TIR	H5T_STD_U8LE	2	3430			Data_description	Quality flag of each scan	H5T_C_S1	
								Dim0	TIR1, TIR2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Bit00(LSB)-002	Quality flag 000 : Normal line 001 : Lack line 101 : Lack line (for synchronization between sensors) 010 : Resampling line (250m->1km/500m) 110 : Resampling line (500m->1km) 111 : Mixed line (000,001,101,010,110)	H5T_C_S1	
389		Overlap_post_Qf_scan_TIR	H5T_STD_U8LE	2	3430			Data_description	Quality flag of each scan	H5T_C_S1	
								Dim0	TIR1, TIR2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Bit00(LSB)-002	Quality flag 000 : Normal line 001 : Lack line 101 : Lack line (for synchronization between sensors) 010 : Resampling line (250m->1km/500m) 110 : Resampling line (500m->1km) 111 : Mixed line (000,001,101,010,110)	H5T_C_S1	
390	Reserved	Unused_packet_SWI	H5T_STD_U8LE	0	2028			Data_description	Unused mission data packet(SWI)	H5T_C_S1	
								Dim0	packets	H5T_C_S1	
								Dim1	octets	H5T_C_S1	
391		Unused_packet_TIR	H5T_STD_U8LE	0	2028			Data_description	Unused mission data packet(TIR)	H5T_C_S1	
								Dim0	packets	H5T_C_S1	
								Dim1	octets	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
	Global_attributes	—	—	—	—	—	—	Product_file_name	GC1SG1_201305201801_12302_1BSG_VNRDQ_1001.h5	H5T_C_S1	
		—	—	—	—	—	—	Mission_characteristics	Nominal orbit:inclination = 98.6(Sun-Synchronous); node = 10:15-10:45 AM(descending); eccentricity < 0.0012; altitude = 798km; ground speed = 6.6km/sec; revolutions per day =14+9/34	H5T_C_S1	
		—	—	—	—	—	—	Sensor	Second-generation Global Imager (SGLI)	H5T_C_S1	
		—	—	—	—	—	—	Product_version	0002	H5T_C_S1	
		—	—	—	—	—	—	Algorithm_developer	Japan Aerospace Exploration Agency (JAXA)	H5T_C_S1	
		—	—	—	—	—	—	Dataset_description	Top of atmosphere radiance (reflectance) at [VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10)]	H5T_C_S1	
		—	—	—	—	—	—	Product_name	Top of atmosphere radiance (reflectance)	H5T_C_S1	
		—	—	—	—	—	—	Algorithm_version	0.10	H5T_C_S1	
		—	—	—	—	—	—	Parameter_version	002.00	H5T_C_S1	
		—	—	—	—	—	—	Satellite	Global Change Observation Mission - Climate (GCOM-C)	H5T_C_S1	
		—	—	—	—	—	—	Product_level	Level-1B	H5T_C_S1	
		—	—	—	—	—	—	Scene_start_time	20030320 23:28:39.823	H5T_C_S1	
		—	—	—	—	—	—	Scene_end_time	20030320 23:32:49.287	H5T_C_S1	
		—	—	—	—	—	—	Scene_center_time	20030320 23:30:44.555	H5T_C_S1	
		—	—	—	—	—	—	Scene_start_index	3356	H5T_STD_I32LE	
		—	—	—	—	—	—	Scene_end_index	5211	H5T_STD_I32LE	
		—	—	—	—	—	—	Ascending_node_crossing_time	20030320 23:42:23.000	H5T_C_S1	
		—	—	—	—	—	—	Total_orbit_number	12345	H5T_STD_I32LE	
		—	—	—	—	—	—	RSP_path_number	123	H5T_STD_I32LE	
		—	—	—	—	—	—	Scene_number	2	H5T_STD_I32LE	
		—	—	—	—	—	—	Orbit_direction	Ascending	H5T_C_S1	
		—	—	—	—	—	—	Maneuver_status	Include	H5T_C_S1	
		—	—	—	—	—	—	Start_argument_of_latitude	1	H5T_IEEE_F32LE	
		—	—	—	—	—	—	End_argument_of_latitude	15	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Lines_per_scan	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	H5T_STD_I32LE_[11]	
		—	—	—	—	—	—	Stored_channels	VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10)	H5T_C_S1	
		—	—	—	—	—	—	Missing_lines	0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	H5T_STD_I32LE_[11]	
		—	—	—	—	—	—	Missing_lines_rate	0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0	H5T_IEEE_F32LE_[11]	
		—	—	—	—	—	—	Saturated_pixels_rate	0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0	H5T_IEEE_F32LE_[11]	R＝Nsatu／(N－Nloss) Satisfy 0.0≦R≦1.0 R: Saturated pixels rate N: The number of pixels of L1B image. Image_data/Number_of_lines) × Image_data/Number_of_pixels) Nloss: The number of pixels of the missing value in the pixel number N. Nsatu: The number of saturated pixels in the pixel number N. Saturation condition: Spectral radiance ≧Lsatu Lsatu: Saturation threshold value of the Spectral radiance Lsatu＝16381.5 * slope + offset slope: Stored value of Image_data/Lt_*/slope offset: Stored value of Image_data/Lt_*/offset

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
		—	—	—	—	—	—	Abnormal_positions_rate	0.0	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Abnormal_velocities_rate	0.0	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Abnormal_attitudes_rate	0.0	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Geometric_information_error_rate	0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0	H5T_IEEE_F32LE_[11]	
		—	—	—	—	—	—	Stray_light_corrected_pixels_rate	0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0	H5T_IEEE_F32LE_[11]	
		—	—	—	—	—	—	Radiance_error_pixels_rate	0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0	H5T_IEEE_F32LE_[11]	
		—	—	—	—	—	—	Stripe_correction	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	H5T_STD_U32LE_[11]	Stripe correction 1: Execute 0: Not execute
		—	—	—	—	—	—	Radiometer_correction	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	H5T_STD_U32LE_[11]	Inter-telescope radiance correction 1: Execute 0: Not execute
		—	—	—	—	—	—	L1B_line_sample_interval	dt=147.1734msec (1km)	H5T_C_S1	
		—	—	—	—	—	—	Orbital_period	6057sec	H5T_C_S1	
		—	—	—	—	—	—	Representative_channel	VN01	H5T_C_S1	
		—	—	—	—	—	—	Individual_quality_info	GGGGGGGGGGGGGGGGG	H5T_C_S1	G : Good P : Poor F : Fair N : NG
		—	—	—	—	—	—	Quality_judge_line	0	H5T_STD_I32LE	
	Processing_attributes	—	—	—	—	—	—	Contact_point	JAXA/GCOM project team	H5T_C_S1	
		—	—	—	—	—	—	Input_files		H5T_C_S1	In the case of the reprocessed product using L1A product as input, L1A product name is stored.
		—	—	—	—	—	—	Processing_UT	20120813 01:30:35	H5T_C_S1	
		—	—	—	—	—	—	Processing_result	Good	H5T_C_S1	
		—	—	—	—	—	—	Processing_result_description	Good, Fair, Poor, NG	H5T_C_S1	
		—	—	—	—	—	—	Processing_organization	JAXA/GCOM-C project	H5T_C_S1	
	Geometry_data	—	—	—	—	—	—	Number_of_lines	743	H5T_STD_I32LE	
		—	—	—	—	—	—	Number_of_pixels	501	H5T_STD_I32LE	
		—	—	—	—	—	—	Image_projection	L1B reference grid	H5T_C_S1	
		—	—	—	—	—	—	Grid_interval	2500	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Grid_interval_unit	meter	H5T_C_S1	
		—	—	—	—	—	—	Latitude_unit	degree North	H5T_C_S1	
		—	—	—	—	—	—	Longitude_unit	degree East	H5T_C_S1	
		—	—	—	—	—	—	Upper_left_longitude	124.127	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Upper_left_latitude	46.2602	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Upper_right_longitude	143.978	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Upper_right_latitude	43.2426	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Lower_left_longitude	120.908	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Lower_left_latitude	29.0959	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Lower_right_longitude	136.931	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Lower_right_latitude	26.6657	H5T_IEEE_F32LE	
1		ECR_position_VN01	H5T_IEEE_F64LE	743	9	3		Data_description	ECR position at sampling column addresses of 352, 1076, 1800 for NP-L, 1848, 2500, 3152 for NP-N, and 3200, 3924, 4648 for NP-R with respect to VN01	H5T_C_S1	
								Unit	km	H5T_C_S1	
								Resampling_interval	10	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	XYZ	H5T_C_S1	
								Minimum_valid_value	-7200	H5T_IEEE_F64LE	
								Maximum_valid_value	7200	H5T_IEEE_F64LE	
								Error_value	-9999	H5T_IEEE_F64LE	
2		ECR_position_VN02	H5T_IEEE_F64LE	743	9	3		Data_description	ECR position at sampling column addresses of 352, 1076, 1800 for NP-L, 1848, 2500, 3152 for NP-N, and 3200, 3924, 4648 for NP-R with respect to VN02	H5T_C_S1	
								Unit	km	H5T_C_S1	
								Resampling_interval	10	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	XYZ	H5T_C_S1	
								Minimum_valid_value	-7200	H5T_IEEE_F64LE	
								Maximum_valid_value	7200	H5T_IEEE_F64LE	
								Error_value	-9999	H5T_IEEE_F64LE	

B

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
3		ECR_position_VN03	H5T_IEEE_F64LE	743	9	3		Data_description	ECR position at sampling column addresses of 352, 1076, 1800 for NP-L, 1848, 2500, 3152 for NP-N, and 3200, 3924, 4648 for NP-R with respect to VN03	H5T_C_S1	
								Unit	km	H5T_C_S1	
								Resampling_interval	10	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	XYZ	H5T_C_S1	
								Minimum_valid_value	-7200	H5T_IEEE_F64LE	
								Maximum_valid_value	7200	H5T_IEEE_F64LE	
								Error_value	-9999	H5T_IEEE_F64LE	
4		ECR_position_VN04	H5T_IEEE_F64LE	743	9	3		Data_description	ECR position at sampling column addresses of 352, 1076, 1800 for NP-L, 1848, 2500, 3152 for NP-N, and 3200, 3924, 4648 for NP-R with respect to VN04	H5T_C_S1	
								Unit	km	H5T_C_S1	
								Resampling_interval	10	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	XYZ	H5T_C_S1	
								Minimum_valid_value	-7200	H5T_IEEE_F64LE	
								Maximum_valid_value	7200	H5T_IEEE_F64LE	
								Error_value	-9999	H5T_IEEE_F64LE	
5		ECR_position_VN05	H5T_IEEE_F64LE	743	9	3		Data_description	ECR position at sampling column addresses of 352, 1076, 1800 for NP-L, 1848, 2500, 3152 for NP-N, and 3200, 3924, 4648 for NP-R with respect to VN05	H5T_C_S1	
								Unit	km	H5T_C_S1	
								Resampling_interval	10	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	XYZ	H5T_C_S1	
								Minimum_valid_value	-7200	H5T_IEEE_F64LE	
								Maximum_valid_value	7200	H5T_IEEE_F64LE	
								Error_value	-9999	H5T_IEEE_F64LE	
6		ECR_position_VN06	H5T_IEEE_F64LE	743	9	3		Data_description	ECR position at sampling column addresses of 352, 1076, 1800 for NP-L, 1848, 2500, 3152 for NP-N, and 3200, 3924, 4648 for NP-R with respect to VN06	H5T_C_S1	
								Unit	km	H5T_C_S1	
								Resampling_interval	10	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	XYZ	H5T_C_S1	
								Minimum_valid_value	-7200	H5T_IEEE_F64LE	
								Maximum_valid_value	7200	H5T_IEEE_F64LE	
								Error_value	-9999	H5T_IEEE_F64LE	
7		ECR_position_VN07	H5T_IEEE_F64LE	743	9	3		Data_description	ECR position at sampling column addresses of 352, 1076, 1800 for NP-L, 1848, 2500, 3152 for NP-N, and 3200, 3924, 4648 for NP-R with respect to VN07	H5T_C_S1	
								Unit	km	H5T_C_S1	
								Resampling_interval	10	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	XYZ	H5T_C_S1	
								Minimum_valid_value	-7200	H5T_IEEE_F64LE	
								Maximum_valid_value	7200	H5T_IEEE_F64LE	
								Error_value	-9999	H5T_IEEE_F64LE	
8		ECR_position_VN08	H5T_IEEE_F64LE	743	9	3		Data_description	ECR position at sampling column addresses of 352, 1076, 1800 for NP-L, 1848, 2500, 3152 for NP-N, and 3200, 3924, 4648 for NP-R with respect to VN08	H5T_C_S1	
								Unit	km	H5T_C_S1	
								Resampling_interval	10	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	XYZ	H5T_C_S1	
								Minimum_valid_value	-7200	H5T_IEEE_F64LE	
								Maximum_valid_value	7200	H5T_IEEE_F64LE	
								Error_value	-9999	H5T_IEEE_F64LE	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
9		ECR_position_VN09	H5T_IEEE_F64LE	743	9	3		Data_description	ECR position at sampling column addresses of 352, 1076, 1800 for NP-L, 1848, 2500, 3152 for NP-N, and 3200, 3924, 4648 for NP-R with respect to VN09	H5T_C_S1	
								Unit	km	H5T_C_S1	
								Resampling_interval	10	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	XYZ	H5T_C_S1	
								Minimum_valid_value	-7200	H5T_IEEE_F64LE	
								Maximum_valid_value	7200	H5T_IEEE_F64LE	
								Error_value	-9999	H5T_IEEE_F64LE	
10		ECR_position_VN10	H5T_IEEE_F64LE	743	9	3		Data_description	ECR position at sampling column addresses of 352, 1076, 1800 for NP-L, 1848, 2500, 3152 for NP-N, and 3200, 3924, 4648 for NP-R with respect to VN10	H5T_C_S1	
								Unit	km	H5T_C_S1	
								Resampling_interval	10	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	XYZ	H5T_C_S1	
								Minimum_valid_value	-7200	H5T_IEEE_F64LE	
								Maximum_valid_value	7200	H5T_IEEE_F64LE	
								Error_value	-9999	H5T_IEEE_F64LE	
11		ECR_position_VN11	H5T_IEEE_F64LE	743	9	3		Data_description	ECR position at sampling column addresses of 352, 1076, 1800 for NP-L, 1848, 2500, 3152 for NP-N, and 3200, 3924, 4648 for NP-R with respect to VN11	H5T_C_S1	
								Unit	km	H5T_C_S1	
								Resampling_interval	10	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	XYZ	H5T_C_S1	
								Minimum_valid_value	-7200	H5T_IEEE_F64LE	
								Maximum_valid_value	7200	H5T_IEEE_F64LE	
								Error_value	-9999	H5T_IEEE_F64LE	
12		Latitude	H5T_IEEE_F32LE	743	501			Data_description	Latitude (degree)	H5T_C_S1	
								Unit	degree	H5T_C_S1	
								Slope	1	H5T_IEEE_F32LE	
								Offset	0	H5T_IEEE_F32LE	
								Resampling_interval	10	H5T_STD_I32LE	
								Resampling_interval_unit	pixel	H5T_C_S1	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Pixel grids	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32LE	
								Maximum_valid_value	90	H5T_IEEE_F32LE	
								Error_value	-999	H5T_IEEE_F32LE	
13		Longitude	H5T_IEEE_F32LE	743	501			Data_description	Longitude (degree) Minimum_valid_value < value <= Maximum_valid_value	H5T_C_S1	
								Unit	degree	H5T_C_S1	
								Slope	1	H5T_IEEE_F32LE	
								Offset	0	H5T_IEEE_F32LE	
								Resampling_interval	10	H5T_STD_I32LE	
								Resampling_interval_unit	pixel	H5T_C_S1	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Pixel grids	H5T_C_S1	
								Minimum_valid_value	-180	H5T_IEEE_F32LE	
								Maximum_valid_value	180	H5T_IEEE_F32LE	
								Error_value	-999	H5T_IEEE_F32LE	
14		Matrix_OPT_to_ECR_VN01	H5T_IEEE_F64LE	743	9	9		Data_description	Coordinates transformation matrix from OPT to ECR at sampling column addresses of 352, 1076, 1800 for NP-L, 1848, 2500, 3152 for NP-N, and 3200, 3924, 4648 for NP-R with respect to VN01	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
								Resampling_interval	10	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Minimum_valid_value	-1	H5T_IEEE_F64LE	
								Maximum_valid_value	1	H5T_IEEE_F64LE	
								Error_value	-999	H5T_IEEE_F64LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	elements of 3x3 matrix (line x column)	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
15		Matrix_OPT_to_ECR_VN02	H5T_IEEE_F64LE	743	9	9		Data_description	Coordinates transformation matrix from OPT to ECR at sampling column addresses of 352, 1076, 1800 for NP-L, 1848, 2500, 3152 for NP-N, and 3200, 3924, 4648 for NP-R with respect to VN02	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
								Resampling_interval	10	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Minimum_valid_value	-1	H5T_IEEE_F64LE	
								Maximum_valid_value	1	H5T_IEEE_F64LE	
								Error_value	-999	H5T_IEEE_F64LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	elements of 3x3 matrix (line x column)	H5T_C_S1	
16		Matrix_OPT_to_ECR_VN03	H5T_IEEE_F64LE	743	9	9		Data_description	Coordinates transformation matrix from OPT to ECR at sampling column addresses of 352, 1076, 1800 for NP-L, 1848, 2500, 3152 for NP-N, and 3200, 3924, 4648 for NP-R with respect to VN03	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
								Resampling_interval	10	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Minimum_valid_value	-1	H5T_IEEE_F64LE	
								Maximum_valid_value	1	H5T_IEEE_F64LE	
								Error_value	-999	H5T_IEEE_F64LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	elements of 3x3 matrix (line x column)	H5T_C_S1	
17		Matrix_OPT_to_ECR_VN04	H5T_IEEE_F64LE	743	9	9		Data_description	Coordinates transformation matrix from OPT to ECR at sampling column addresses of 352, 1076, 1800 for NP-L, 1848, 2500, 3152 for NP-N, and 3200, 3924, 4648 for NP-R with respect to VN04	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
								Resampling_interval	10	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Minimum_valid_value	-1	H5T_IEEE_F64LE	
								Maximum_valid_value	1	H5T_IEEE_F64LE	
								Error_value	-999	H5T_IEEE_F64LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	elements of 3x3 matrix (line x column)	H5T_C_S1	
18		Matrix_OPT_to_ECR_VN05	H5T_IEEE_F64LE	743	9	9		Data_description	Coordinates transformation matrix from OPT to ECR at sampling column addresses of 352, 1076, 1800 for NP-L, 1848, 2500, 3152 for NP-N, and 3200, 3924, 4648 for NP-R with respect to VN05	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
								Resampling_interval	10	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Minimum_valid_value	-1	H5T_IEEE_F64LE	
								Maximum_valid_value	1	H5T_IEEE_F64LE	
								Error_value	-999	H5T_IEEE_F64LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	elements of 3x3 matrix (line x column)	H5T_C_S1	
19		Matrix_OPT_to_ECR_VN06	H5T_IEEE_F64LE	743	9	9		Data_description	Coordinates transformation matrix from OPT to ECR at sampling column addresses of 352, 1076, 1800 for NP-L, 1848, 2500, 3152 for NP-N, and 3200, 3924, 4648 for NP-R with respect to VN06	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
								Resampling_interval	10	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Minimum_valid_value	-1	H5T_IEEE_F64LE	
								Maximum_valid_value	1	H5T_IEEE_F64LE	
								Error_value	-999	H5T_IEEE_F64LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	elements of 3x3 matrix (line x column)	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
20		Matrix_OPT_to_ECR_VN07	H5T_IEEE_F64LE	743	9	9		Data_description	Coordinates transformation matrix from OPT to ECR at sampling column addresses of 352, 1076, 1800 for NP-L, 1848, 2500, 3152 for NP-N, and 3200, 3924, 4648 for NP-R with respect to VN07	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
								Resampling_interval	10	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Minimum_valid_value	-1	H5T_IEEE_F64LE	
								Maximum_valid_value	1	H5T_IEEE_F64LE	
								Error_value	-999	H5T_IEEE_F64LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	elements of 3x3 matrix (line x column)	H5T_C_S1	
21		Matrix_OPT_to_ECR_VN08	H5T_IEEE_F64LE	743	9	9		Data_description	Coordinates transformation matrix from OPT to ECR at sampling column addresses of 352, 1076, 1800 for NP-L, 1848, 2500, 3152 for NP-N, and 3200, 3924, 4648 for NP-R with respect to VN08	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
								Resampling_interval	10	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Minimum_valid_value	-1	H5T_IEEE_F64LE	
								Maximum_valid_value	1	H5T_IEEE_F64LE	
								Error_value	-999	H5T_IEEE_F64LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	elements of 3x3 matrix (line x column)	H5T_C_S1	
22		Matrix_OPT_to_ECR_VN09	H5T_IEEE_F64LE	743	9	9		Data_description	Coordinates transformation matrix from OPT to ECR at sampling column addresses of 352, 1076, 1800 for NP-L, 1848, 2500, 3152 for NP-N, and 3200, 3924, 4648 for NP-R with respect to VN09	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
								Resampling_interval	10	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Minimum_valid_value	-1	H5T_IEEE_F64LE	
								Maximum_valid_value	1	H5T_IEEE_F64LE	
								Error_value	-999	H5T_IEEE_F64LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	elements of 3x3 matrix (line x column)	H5T_C_S1	
23		Matrix_OPT_to_ECR_VN10	H5T_IEEE_F64LE	743	9	9		Data_description	Coordinates transformation matrix from OPT to ECR at sampling column addresses of 352, 1076, 1800 for NP-L, 1848, 2500, 3152 for NP-N, and 3200, 3924, 4648 for NP-R with respect to VN10	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
								Resampling_interval	10	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Minimum_valid_value	-1	H5T_IEEE_F64LE	
								Maximum_valid_value	1	H5T_IEEE_F64LE	
								Error_value	-999	H5T_IEEE_F64LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	elements of 3x3 matrix (line x column)	H5T_C_S1	
24		Matrix_OPT_to_ECR_VN11	H5T_IEEE_F64LE	743	9	9		Data_description	Coordinates transformation matrix from OPT to ECR at sampling column addresses of 352, 1076, 1800 for NP-L, 1848, 2500, 3152 for NP-N, and 3200, 3924, 4648 for NP-R with respect to VN11	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
								Resampling_interval	10	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Minimum_valid_value	-1	H5T_IEEE_F64LE	
								Maximum_valid_value	1	H5T_IEEE_F64LE	
								Error_value	-999	H5T_IEEE_F64LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	elements of 3x3 matrix (line x column)	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks	
25		Obs_time	H5T_STD_I16LE	743	501			Data_description	Observation time (hour)	H5T_C_S1	Elapsed time from the starting date (Observation start date 00:00:00 of Granule ID) in UTC.	
								Unit	hour	H5T_C_S1		
								Slope	0.001	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
26		Obs_time_VN01	H5T_STD_I16LE	743	501			Data_description	Observation time of VN01	H5T_C_S1	Elapsed time from the starting date (Observation start date 00:00:00 of Granule ID) in UTC.	
								Unit	hour	H5T_C_S1		
								Slope	0.001	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
27		Obs_time_VN02	H5T_STD_I16LE	743	501			Data_description	Observation time of VN02	H5T_C_S1	Elapsed time from the starting date (Observation start date 00:00:00 of Granule ID) in UTC.	
								Unit	hour	H5T_C_S1		
								Slope	0.001	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
28		Obs_time_VN03	H5T_STD_I16LE	743	501			Data_description	Observation time of VN03	H5T_C_S1	Elapsed time from the starting date (Observation start date 00:00:00 of Granule ID) in UTC.	
								Unit	hour	H5T_C_S1		
								Slope	0.001	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
29		Obs_time_VN04	H5T_STD_I16LE	743	501			Data_description	Observation time of VN04	H5T_C_S1	Elapsed time from the starting date (Observation start date 00:00:00 of Granule ID) in UTC.	
								Unit	hour	H5T_C_S1		
								Slope	0.001	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks	
30		Obs_time_VN05	H5T_STD_I16LE	743	501			Data_description	Observation time of VN05	H5T_C_S1	Elapsed time from the starting date (Observation start date 00:00:00 of Granule ID) in UTC.	
								Unit	hour	H5T_C_S1		
								Slope	0.001	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
31		Obs_time_VN06	H5T_STD_I16LE	743	501			Data_description	Observation time of VN06	H5T_C_S1	Elapsed time from the starting date (Observation start date 00:00:00 of Granule ID) in UTC.	
								Unit	hour	H5T_C_S1		
								Slope	0.001	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
32		Obs_time_VN07	H5T_STD_I16LE	743	501			Data_description	Observation time of VN07	H5T_C_S1	Elapsed time from the starting date (Observation start date 00:00:00 of Granule ID) in UTC.	
								Unit	hour	H5T_C_S1		
								Slope	0.001	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
33		Obs_time_VN08	H5T_STD_I16LE	743	501			Data_description	Observation time of VN08	H5T_C_S1	Elapsed time from the starting date (Observation start date 00:00:00 of Granule ID) in UTC.	
								Unit	hour	H5T_C_S1		
								Slope	0.001	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
34		Obs_time_VN09	H5T_STD_I16LE	743	501			Data_description	Observation time of VN09	H5T_C_S1	Elapsed time from the starting date (Observation start date 00:00:00 of Granule ID) in UTC.	
								Unit	hour	H5T_C_S1		
								Slope	0.001	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks	
35		Obs_time_VN10	H5T_STD_I16LE	743	501			Data_description	Observation time of VN10	H5T_C_S1	Elapsed time from the starting date (Observation start date 00:00:00 of Granule ID) in UTC.	
								Unit	hour	H5T_C_S1		
								Slope	0.001	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
36		Obs_time_VN11	H5T_STD_I16LE	743	501			Data_description	Observation time of VN11	H5T_C_S1	Elapsed time from the starting date (Observation start date 00:00:00 of Granule ID) in UTC.	
								Unit	hour	H5T_C_S1		
								Slope	0.001	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
37		Sensor_azimuth	H5T_STD_I16LE	743	501			Data_description	Sensor azimuth angle (Clockwize from the North)	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
38		Sensor_azimuth_VN01	H5T_STD_I16LE	743	501			Data_description	Sensor azimuth angle of VN01	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
39		Sensor_azimuth_VN02	H5T_STD_I16LE	743	501			Data_description	Sensor azimuth angle of VN02	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
40		Sensor_azimuth_VN03	H5T_STD_I16LE	743	501			Data_description	Sensor azimuth angle of VN03	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks	
41		Sensor_azimuth_VN04	H5T_STD_I16LE	743	501			Data_description	Sensor azimuth angle of VN04	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
42		Sensor_azimuth_VN05	H5T_STD_I16LE	743	501			Data_description	Sensor azimuth angle of VN05	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
43		Sensor_azimuth_VN06	H5T_STD_I16LE	743	501			Data_description	Sensor azimuth angle of VN06	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
44		Sensor_azimuth_VN07	H5T_STD_I16LE	743	501			Data_description	Sensor azimuth angle of VN07	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
45		Sensor_azimuth_VN08	H5T_STD_I16LE	743	501			Data_description	Sensor azimuth angle of VN08	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
46		Sensor_azimuth_VN09	H5T_STD_I16LE	743	501			Data_description	Sensor azimuth angle of VN09	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks	
47		Sensor_azimuth_VN10	H5T_STD_I16LE	743	501			Data_description	Sensor azimuth angle of VN10	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
48		Sensor_azimuth_VN11	H5T_STD_I16LE	743	501			Data_description	Sensor azimuth angle of VN11	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
49		Sensor_zenith	H5T_STD_I16LE	743	501			Data_description	Sensor zenith angle (from the local zenith)	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
50		Sensor_zenith_VN01	H5T_STD_I16LE	743	501			Data_description	Sensor zenith angle of VN01	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
51		Sensor_zenith_VN02	H5T_STD_I16LE	743	501			Data_description	Sensor zenith angle of VN02	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
52		Sensor_zenith_VN03	H5T_STD_I16LE	743	501			Data_description	Sensor zenith angle of VN03	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks	
53		Sensor_zenith_VN04	H5T_STD_I16LE	743	501			Data_description	Sensor zenith angle of VN04	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
54		Sensor_zenith_VN05	H5T_STD_I16LE	743	501			Data_description	Sensor zenith angle of VN05	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
55		Sensor_zenith_VN06	H5T_STD_I16LE	743	501			Data_description	Sensor zenith angle of VN06	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
56		Sensor_zenith_VN07	H5T_STD_I16LE	743	501			Data_description	Sensor zenith angle of VN07	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
57		Sensor_zenith_VN08	H5T_STD_I16LE	743	501			Data_description	Sensor zenith angle of VN08	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
58		Sensor_zenith_VN09	H5T_STD_I16LE	743	501			Data_description	Sensor zenith angle of VN09	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks	
59		Sensor_zenith_VN10	H5T_STD_I16LE	743	501			Data_description	Sensor zenith angle of VN10	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
60		Sensor_zenith_VN11	H5T_STD_I16LE	743	501			Data_description	Sensor zenith angle of VN11	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
61		Solar_azimuth	H5T_STD_I16LE	743	501			Data_description	Solar azimuth angle (Clockwize from the North)	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
62		Solar_zenith	H5T_STD_I16LE	743	501			Data_description	Solar zenith angle (from the local zenith)	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
	Image_data	—	—	—	—	—	—	Number_of_lines	7416	H5T_STD_I32LE		
		—	—	—	—	—	—	Number_of_pixels	5000	H5T_STD_I32LE		
		—	—	—	—	—	—	Image_projection	L1B reference grid	H5T_C_S1		
		—	—	—	—	—	—	Grid_interval	250	H5T_IEEE_F32LE		
		—	—	—	—	—	—	Grid_interval_unit	meter	H5T_C_S1		
63		Line_msec	H5T_STD_I32LE	7416				Data_description	Day millisecond at each line (UTC)	H5T_C_S1	Elapsed time from the starting date (Observation start date 00:00:00 of Granule ID) in UTC.	
								Unit	millisecond	H5T_C_S1		
								Slope	1	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Dim0	L1B-lines	H5T_C_S1		
								Minimum_valid_DN	-2147483647	H5T_STD_I32LE		
								Maximum_valid_DN	2147483647	H5T_STD_I32LE		
								Error_DN	2147483648	H5T_STD_I32LE		B
64		Line_tai93	H5T_IEEE_F64LE	7416				Data_description	TAI93 at each line	H5T_C_S1		
								Dim0	L1B-lines	H5T_C_S1		
								Error_value	-1.0	H5T_IEEE_F64LE		
								Maximum_valid_value	9.99999999E8	H5T_IEEE_F64LE		
								Minimum_valid_value	0.0	H5T_IEEE_F64LE		
								Unit	second	H5T_C_S1		

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
65		Lt_VN01	H5T_STD_U16LE	7416	5000			Data_description	TOA radiance of VN01: Lt[W/m^2/sr/um]=(DN&Mask)*Slope+Offset; TOA reflectance of VN01: rt[Lt*pi/(F0/d^2)]=(DN&Mask)*Slope_reflectance+Offset_reflectance Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Mask	16383	H5T_STD_U16LE	
								Bit00(LSB)-13	Digital Number 16383 : Missing value 16382 : Saturation value	H5T_C_S1	
								Bit14	Stray light correction sign flag (delta_L = Ltrue - Lobs) 0:Sign of the amount of stray light correction is positive (or zero)	H5T_C_S1	
								Bit15(MSB)	Stray light correction flag 0 : Stray light is uncorrected 1 : Stray light is corrected	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.01758027	H5T_IEEE_F32LE	
								Offset	-24	H5T_IEEE_F32LE	
								Spatial_resolution	250	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65533	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	380	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	10	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	264	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1092.1436	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_uni	W/m^2/um	H5T_C_S1	
								Slope_reflectance	2.06197E-05	H5T_IEEE_F32LE	
								Offset_reflectance	0	H5T_IEEE_F32LE	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
66		Lt_VN02	H5T_STD_U16LE	7416	5000			Data_description	TOA radiance of VN02: Lt[W/m^2/sr/um]=(DN&Mask)*Slope+Offset; TOA reflectance of VN02: rt[Lt*pi/(F0/d^2)]=(DN&Mask)*Slope_reflectance+Offset_reflectance Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Mask	16383	H5T_STD_U16LE	
								Bit00(LSB)-13	Digital Number 16383 : Missing value 16382 : Saturation value	H5T_C_S1	
								Bit14	Stray light correction sign flag (delta_L = Ltrue - Lobs) 0:Sign of the amount of stray light correction is positive (or zero) 1:Sign of the amount of stray light correction is negative	H5T_C_S1	
								Bit15(MSB)	Stray light correction flag 0 : Stray light is uncorrected 1 : Stray light is corrected	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.02234159	H5T_IEEE_F32LE	
								Offset	-30.5	H5T_IEEE_F32LE	
								Spatial_resolution	250	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65533	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	412	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	10	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	335.5	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1712.1531	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_uni	W/m^2/um	H5T_C_S1	
								Slope_reflectance	1.58813E-05	H5T_IEEE_F32LE	
								Offset_reflectance	0	H5T_IEEE_F32LE	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
67		Lt_VN03	H5T_STD_U16LE	7416	5000			Data_description	TOA radiance of VN03: Lt[W/m^2/sr/um]=(DN&Mask)*Slope+Offset; TOA reflectance of VN03: rt[Lt*pi/(F0/d^2)]=(DN&Mask)*Slope_reflectance+Offset_reflectance Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Mask	16383	H5T_STD_U16LE	
								Bit00(LSB)-13	Digital Number 16383 : Missing value 16382 : Saturation value	H5T_C_S1	
								Bit14	Stray light correction sign flag (delta_L = Ltrue - Lobs) 0:Sign of the amount of stray light correction is positive (or zero) 1:Sign of the amount of stray light correction is negative	H5T_C_S1	
								Bit15(MSB)	Stray light correction flag 0 : Stray light is uncorrected 1 : Stray light is corrected	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.03347577	H5T_IEEE_F32LE	
								Offset	-45.7	H5T_IEEE_F32LE	
								Spatial_resolution	250	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65533	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	443	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	10	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	502.7	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m 2/um/sr	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1898.3185	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_uni	W/m 2/um	H5T_C_S1	
								Slope_reflectance	2.28372E-05	H5T_IEEE_F32LE	
								Offset_reflectance	0	H5T_IEEE_F32LE	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
68		Lt_VN04	H5T_STD_U16LE	7416	5000			Data_description	TOA radiance of VN04: Lt[W/m^2/sr/um]=(DN&Mask)*Slope+Offset; TOA reflectance of VN04: rt[Lt*pi/(F0/d^2)]=(DN&Mask)*Slope_reflectance+Offset_reflectance Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Mask	16383	H5T_STD_U16LE	
								Bit00(LSB)-13	Digital Number 16383 : Missing value 16382 : Saturation value	H5T_C_S1	
								Bit14	Stray light correction sign flag (delta_L = Ltrue - Lobs) 0:Sign of the amount of stray light correction is positive (or zero) 1:Sign of the amount of stray light correction is negative	H5T_C_S1	
								Bit15(MSB)	Stray light correction flag 0 : Stray light is uncorrected 1 : Stray light is corrected	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.01076792	H5T_IEEE_F32LE	
								Offset	-14.7	H5T_IEEE_F32LE	
								Spatial_resolution	250	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65533	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	490	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	10	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	161.7	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m 2/um/sr	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1938.4602	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_uni	W/m 2/um	H5T_C_S1	
								Slope_reflectance	6.66439E-06	H5T_IEEE_F32LE	
								Offset_reflectance	0	H5T_IEEE_F32LE	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
69		Lt_VN05	H5T_STD_U16LE	7416	5000			Data_description	TOA radiance of VN05: Lt[W/m^2/sr/um]=(DN&Mask)*Slope+Offset; TOA reflectance of VN05: rt[Lt*pi/(F0/d^2)]=(DN&Mask)*Slope_reflectance+Offset_reflectance Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Mask	16383	H5T_STD_U16LE	
								Bit00(LSB)-13	Digital Number 16383 : Missing value 16382 : Saturation value	H5T_C_S1	
								Bit14	Stray light correction sign flag (delta_L = Ltrue - Lobs) 0:Sign of the amount of stray light correction is positive (or zero) 1:Sign of the amount of stray light correction is negative	H5T_C_S1	
								Bit15(MSB)	Stray light correction flag 0 : Stray light is uncorrected 1 : Stray light is corrected	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.02629716	H5T_IEEE_F32LE	
								Offset	-35.9	H5T_IEEE_F32LE	
								Spatial_resolution	250	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65533	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	530	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	394.9	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m 2/um/sr	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1850.9604	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_uni	W/m 2/um	H5T_C_S1	
								Slope_reflectance	2.04362E-05	H5T_IEEE_F32LE	
								Offset_reflectance	0	H5T_IEEE_F32LE	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
70		Lt_VN06	H5T_STD_U16LE	7416	5000			Data_description	TOA radiance of VN06: Lt[W/m^2/sr/um]=(DN&Mask)*Slope+Offset; TOA reflectance of VN06: rt[Lt*pi/(F0/d^2)]=(DN&Mask)*Slope_reflectance+Offset_reflectance Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Mask	16383	H5T_STD_U16LE	
								Bit00(LSB)-13	Digital Number 16383 : Missing value 16382 : Saturation value	H5T_C_S1	
								Bit14	Stray light correction sign flag (delta_L = Ltrue - Lobs) 0:Sign of the amount of stray light correction is positive (or zero) 1:Sign of the amount of stray light correction is negative	H5T_C_S1	
								Bit15(MSB)	Stray light correction flag 0 : Stray light is uncorrected 1 : Stray light is corrected	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.00695886	H5T_IEEE_F32LE	
								Offset	-9.5	H5T_IEEE_F32LE	
								Spatial_resolution	250	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65533	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	565	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	104.5	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1797.1344	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_uni	W/m^2/um	H5T_C_S1	
								Slope_reflectance	5.38764E-06	H5T_IEEE_F32LE	
								Offset_reflectance	0	H5T_IEEE_F32LE	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
71		Lt_VN07	H5T_STD_U16LE	7416	5000			Data_description	TOA radiance of VN07: Lt[W/m^2/sr/um]=(DN&Mask)*Slope+Offset; TOA reflectance of VN07: rt[Lt*pi/(F0/d^2)]=(DN&Mask)*Slope_reflectance+Offset_reflectance Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Mask	16383	H5T_STD_U16LE	
								Bit00(LSB)-13	Digital Number 16383 : Missing value 16382 : Saturation value	H5T_C_S1	
								Bit14	Stray light correction sign flag (delta_L = Ltrue - Lobs) 0:Sign of the amount of stray light correction is positive (or zero) 1:Sign of the amount of stray light correction is negative	H5T_C_S1	
								Bit15(MSB)	Stray light correction flag 0 : Stray light is uncorrected 1 : Stray light is corrected	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.00505433	H5T_IEEE_F32LE	
								Offset	-6.9	H5T_IEEE_F32LE	
								Spatial_resolution	250	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65533	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	673.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	75.9	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1502.5667	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_uni	W/m^2/um	H5T_C_S1	
								Slope_reflectance	4.52803E-06	H5T_IEEE_F32LE	
								Offset_reflectance	0	H5T_IEEE_F32LE	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
72		Lt_VN08	H5T_STD_U16LE	7416	5000			Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Data_description	TOA radiance of VN08: Lt[W/m^2/sr/um]=(DN&Mask)*Slope+Offset; TOA reflectance of VN08: rt[Lt*pi/(F0/d^2)]=(DN&Mask)*Slope_reflectance+Offset_reflectance Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Mask	16383	H5T_STD_U16LE	
								Bit00(LSB)-13	Digital Number 16383 : Missing value 16382 : Saturation value	H5T_C_S1	
								Bit14	Stray light correction sign flag (delta_L = Ltrue - Lobs) 0:Sign of the amount of stray light correction is positive (or zero) 1:Sign of the amount of stray light correction is negative	H5T_C_S1	
								Bit15(MSB)	Stray light correction flag 0 : Stray light is uncorrected 1 : Stray light is corrected	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.01560249	H5T_IEEE_F32LE	
								Offset	-21.3	H5T_IEEE_F32LE	
								Spatial_resolution	250	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65533	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	673.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	234.3	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance	1502.3177	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_uni	W/m 2/um	H5T_C_S1	
								Slope_reflectance	1.50934E-05	H5T_IEEE_F32LE	
								Offset_reflectance	0	H5T_IEEE_F32LE	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
73		Lt_VN09	H5T_STD_U16LE	7416	5000			Data_description	TOA radiance of VN09: Lt[W/m^2/sr/um]=(DN&Mask)*Slope+Offset; TOA reflectance of VN09: rt[Lt*pi/(F0/d^2)]=(DN&Mask)*Slope_reflectance+Offset_reflectance Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Mask	16383	H5T_STD_U16LE	
								Bit00(LSB)-13	Digital Number 16383 : Missing value 16382 : Saturation value	H5T_C_S1	
								Bit14	Stray light correction sign flag (delta_L = Ltrue - Lobs) 0:Sign of the amount of stray light correction is positive (or zero) 1:Sign of the amount of stray light correction is negative	H5T_C_S1	
								Bit15(MSB)	Stray light correction flag 0 : Stray light is uncorrected 1 : Stray light is corrected	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.02571115	H5T_IEEE_F32LE	
								Offset	-35.1	H5T_IEEE_F32LE	
								Spatial_resolution	250	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65533	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	763	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	12	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	386.1	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1245.3663	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_uni	W/m^2/um	H5T_C_S1	
								Slope_reflectance	3.03445E-05	H5T_IEEE_F32LE	
								Offset_reflectance	0	H5T_IEEE_F32LE	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
74		Lt_VN10	H5T_STD_U16LE	7416	5000			Data_description	TOA radiance of VN10: Lt[W/m^2/sr/um]=(DN&Mask)*Slope+Offset; TOA reflectance of VN10: rt[Lt*pi/(F0/d^2)]=(DN&Mask)*Slope_reflectance+Offset_reflectance Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Mask	16383	H5T_STD_U16LE	
								Bit00(LSB)-13	Digital Number 16383 : Missing value 16382 : Saturation value	H5T_C_S1	
								Bit14	Stray light correction sign flag (delta_L = Ltrue - Lobs) 0:Sign of the amount of stray light correction is positive (or zero) 1:Sign of the amount of stray light correction is negative	H5T_C_S1	
								Bit15(MSB)	Stray light correction flag 0 : Stray light is uncorrected 1 : Stray light is corrected	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.00271029	H5T_IEEE_F32LE	
								Offset	-3.7	H5T_IEEE_F32LE	
								Spatial_resolution	250	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65533	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	868.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	40.7	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	956.2323	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_uni	W/m^2/um	H5T_C_S1	
								Slope_reflectance	3.37901E-06	H5T_IEEE_F32LE	
								Offset_reflectance	0	H5T_IEEE_F32LE	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
75		Lt_VN11	H5T_STD_U16LE	7416	5000			Data_description	TOA radiance of VN11: Lt[W/m^2/sr/um]=(DN&Mask)*Slope+Offset; TOA reflectance of VN11: rt[Lt*pi/(F0/d^2)]=(DN&Mask)*Slope_reflectance+Offset_reflectance Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Mask	16383	H5T_STD_U16LE	
								Bit00(LSB)-13	Digital Number 16383 : Missing value 16382 : Saturation value	H5T_C_S1	
								Bit14	Stray light correction sign flag (delta_L = Ltrue - Lobs) 0:Sign of the amount of stray light correction is positive (or zero) 1:Sign of the amount of stray light correction is negative	H5T_C_S1	
								Bit15(MSB)	Stray light correction flag 0 : Stray light is uncorrected 1 : Stray light is corrected	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.02234159	H5T_IEEE_F32LE	
								Offset	-30.5	H5T_IEEE_F32LE	
								Spatial_resolution	250	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65533	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	868.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	335.5	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	956.5352	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_uni	W/m^2/um	H5T_C_S1	
								Slope_reflectance	0.000034128	H5T_IEEE_F32LE	
								Offset_reflectance	0	H5T_IEEE_F32LE	
76		QA_flag	H5T_STD_U16LE	7416	5000			Data_description	Quality flag of each pixels	H5T_C_S1	
								Bit00(LSB)	channel integrity 0 : Not integrity 1 : Integrity	H5T_C_S1	
								Bit01	vnr-pol tilt-driving 0 : Not tilt-driving 1 : Tilt-driving	H5T_C_S1	
								Unit	NA	H5T_C_S1	
								Slope	1	H5T_IEEE_F32LE	
								Offset	0	H5T_IEEE_F32LE	
								Spatial_resolution	250	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65534	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
77		Land_water_flag	H5T_STD_U8LE	7416	5000			Data_description	Rate of land at each pixel (With elevation correction) 0 : water 100 : land	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Minimum_valid_value	0	H5T_STD_U8LE	
								Maximum_valid_value	100	H5T_STD_U8LE	
								Error_value	255	H5T_STD_U8LE	
								Altitude_correction	yes	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
	Level_1_attributes	—	—	—	—	—	—	Operation_mode	OBD	H5T_C_S1	
		—	—	—	—	—	—	Radiometric_calibration	Original	H5T_C_S1	
		—	—	—	—	—	—	Geometric_calibration	Original	H5T_C_S1	
		—	—	—	—	—	—	Number_of_pixels_L1A	1500	H5T_STD_I32LE	
		—	—	—	—	—	—	Number_of_lines_L1A	6816	H5T_STD_I32LE	
78		Lt_overlap_VN01	H5T_STD_U16LE	2	2	7416	304	Data_description	TOA radiance of VN01: Lt[W/m^2/sr/um]=DN*Slope+Offset; TOA reflectance of VN01: rt[Lt*pi/(F0/d^2)]=DN*Slope_reflectance+Offset_reflectance	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.01758027	H5T_IEEE_F32LE	
								Offset	-24	H5T_IEEE_F32LE	
								Spatial_resolution	250	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	left-overlap(VNR-L & VNR-N), right-overlap(VNR-N & VNR-R)	H5T_C_S1	
								Dim1	left-side-image, right-side-image	H5T_C_S1	
								Dim2	L1B-lines	H5T_C_S1	
								Dim3	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65534	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	380	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	10	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	264	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
79		Lt_overlap_VN02	H5T_STD_U16LE	2	2	7416	304	Data_description	TOA radiance of VN02: Lt[W/m^2/sr/um]=DN*Slope+Offset; TOA reflectance of VN02: rt[Lt*pi/(F0/d^2)]=DN*Slope_reflectance+Offset_reflectance	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.02234159	H5T_IEEE_F32LE	
								Offset	-30.5	H5T_IEEE_F32LE	
								Spatial_resolution	250	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	left-overlap(VNR-L & VNR-N), right-overlap(VNR-N & VNR-R)	H5T_C_S1	
								Dim1	left-side-image, right-side-image	H5T_C_S1	
								Dim2	L1B-lines	H5T_C_S1	
								Dim3	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65534	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	412	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	10	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	335.5	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
80		Lt_overlap_VN03	H5T_STD_U16LE	2	2	7416	304	Data_description	TOA radiance of VN03: Lt[W/m^2/sr/um]=DN*Slope+Offset; TOA reflectance of VN03: rt[Lt*pi/(F0/d^2)]=DN*Slope_reflectance+Offset_reflectance	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.03347577	H5T_IEEE_F32LE	
								Offset	-45.7	H5T_IEEE_F32LE	
								Spatial_resolution	250	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	left-overlap(VNR-L & VNR-N), right-overlap(VNR-N & VNR-R)	H5T_C_S1	
								Dim1	left-side-image, right-side-image	H5T_C_S1	
								Dim2	L1B-lines	H5T_C_S1	
								Dim3	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65534	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	443	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	10	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	502.7	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
81		Lt_overlap_VN04	H5T_STD_U16LE	2	2	7416	304	Data_description	TOA radiance of VN04: Lt[W/m^2/sr/um]=DN*Slope+Offset; TOA reflectance of VN04: rt[Lt*pi/(F0/d^2)]=DN*Slope_reflectance+Offset_reflectance	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.01076792	H5T_IEEE_F32LE	
								Offset	-14.7	H5T_IEEE_F32LE	
								Spatial_resolution	250	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	left-overlap(VNR-L & VNR-N), right-overlap(VNR-N & VNR-R)	H5T_C_S1	
								Dim1	left-side-image, right-side-image	H5T_C_S1	
								Dim2	L1B-lines	H5T_C_S1	
								Dim3	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65534	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	490	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	10	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	161.7	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
82		Lt_overlap_VN05	H5T_STD_U16LE	2	2	7416	304	Data_description	TOA radiance of VN05: Lt[W/m^2/sr/um]=DN*Slope+Offset; TOA reflectance of VN05: rt[Lt*pi/(F0/d^2)]=DN*Slope_reflectance+Offset_reflectance	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.02629716	H5T_IEEE_F32LE	
								Offset	-35.9	H5T_IEEE_F32LE	
								Spatial_resolution	250	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	left-overlap(VNR-L & VNR-N), right-overlap(VNR-N & VNR-R)	H5T_C_S1	
								Dim1	left-side-image, right-side-image	H5T_C_S1	
								Dim2	L1B-lines	H5T_C_S1	
								Dim3	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65534	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	530	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	394.9	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
83		Lt_overlap_VN06	H5T_STD_U16LE	2	2	7416	304	Data_description	TOA radiance of VN06: Lt[W/m^2/sr/um]=DN*Slope+Offset; TOA reflectance of VN06: rt[Lt*pi/(F0/d^2)]=DN*Slope_reflectance+Offset_reflectance	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.00695886	H5T_IEEE_F32LE	
								Offset	-9.5	H5T_IEEE_F32LE	
								Spatial_resolution	250	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	left-overlap(VNR-L & VNR-N), right-overlap(VNR-N & VNR-R)	H5T_C_S1	
								Dim1	left-side-image, right-side-image	H5T_C_S1	
								Dim2	L1B-lines	H5T_C_S1	
								Dim3	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65534	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	565	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	104.5	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
84		Lt_overlap_VN07	H5T_STD_U16LE	2	2	7416	304	Data_description	TOA radiance of VN07: Lt[W/m^2/sr/um]=DN*Slope+Offset; TOA reflectance of VN07: rt[Lt*pi/(F0/d^2)]=DN*Slope_reflectance+Offset_reflectance	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.00505433	H5T_IEEE_F32LE	
								Offset	-6.9	H5T_IEEE_F32LE	
								Spatial_resolution	250	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	left-overlap(VNR-L & VNR-N), right-overlap(VNR-N & VNR-R)	H5T_C_S1	
								Dim1	left-side-image, right-side-image	H5T_C_S1	
								Dim2	L1B-lines	H5T_C_S1	
								Dim3	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65534	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	673.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	75.9	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
85		Lt_overlap_VN08	H5T_STD_U16LE	2	2	7416	304	Saturation_radiance	234.3	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Data_description	TOA radiance of VN08: Lt[W/m^2/sr/um]=DN*Slope+Offset; TOA reflectance of VN08: rt[Lt*pi/(F0/d^2)]=DN*Slope_reflectance+Offset_reflectance	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.01560249	H5T_IEEE_F32LE	
								Offset	-21.3	H5T_IEEE_F32LE	
								Spatial_resolution	250	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	left-overlap(VNR-L & VNR-N), right-overlap(VNR-N & VNR-R)	H5T_C_S1	
								Dim1	left-side-image, right-side-image	H5T_C_S1	
								Dim2	L1B-lines	H5T_C_S1	
								Dim3	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65534	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	673.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
86		Lt_overlap_VN09	H5T_STD_U16LE	2	2	7416	304	Data_description	TOA radiance of VN09: Lt[W/m^2/sr/um]=DN*Slope+Offset; TOA reflectance of VN09: rt[Lt*pi/(F0/d^2)]=DN*Slope_reflectance+Offset_reflectance	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.02571115	H5T_IEEE_F32LE	
								Offset	-35.1	H5T_IEEE_F32LE	
								Spatial_resolution	250	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	left-overlap(VNR-L & VNR-N), right-overlap(VNR-N & VNR-R)	H5T_C_S1	
								Dim1	left-side-image, right-side-image	H5T_C_S1	
								Dim2	L1B-lines	H5T_C_S1	
								Dim3	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65534	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	763	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	12	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	386.1	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
87		Lt_overlap_VN10	H5T_STD_U16LE	2	2	7416	304	Data_description	TOA radiance of VN10: Lt[W/m^2/sr/um]=DN*Slope+Offset; TOA reflectance of VN10: rt[Lt*pi/(F0/d^2)]=DN*Slope_reflectance+Offset_reflectance	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.00271029	H5T_IEEE_F32LE	
								Offset	-3.7	H5T_IEEE_F32LE	
								Spatial_resolution	250	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	left-overlap(VNR-L & VNR-N), right-overlap(VNR-N & VNR-R)	H5T_C_S1	
								Dim1	left-side-image, right-side-image	H5T_C_S1	
								Dim2	L1B-lines	H5T_C_S1	
								Dim3	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65534	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	868.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	40.7	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
88		Lt_overlap_VN11	H5T_STD_U16LE	2	2	7416	304	Slope	0.02234159	H5T_IEEE_F32LE	
								Offset	-30.5	H5T_IEEE_F32LE	
								Spatial_resolution	250	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	left-overlap(VNR-L & VNR-N), right-overlap(VNR-N & VNR-R)	H5T_C_S1	
								Dim1	left-side-image, right-side-image	H5T_C_S1	
								Dim2	L1B-lines	H5T_C_S1	
								Dim3	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65534	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	868.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	335.5	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Data_description	TOA radiance of VN11: Lt[W/m^2/sr/um]=DN*Slope+Offset; TOA reflectance of VN11: rt[Lt*pi/(F0/d^2)]=DN*Slope_reflectance+Offset_reflectance	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
89		Lt_overlap_range	H5T_STD_U16LE	2	2			Data_description	Range of column addresses for overlap images on Level-1B image coordinates	H5T_C_S1	
								Unit	pixel	H5T_C_S1	
								Dim0	left-overlap(VNR-L & VNR-N), right-overlap(VNR-N & VNR-R)	H5T_C_S1	
								Dim1	start, end	H5T_C_S1	
90		Polynomial_to_L1A_VN01_coef	H5T_IEEE_F64LE	3	2	7416	8	Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	to-L1A-pixel, to-L1A-line	H5T_C_S1	
								Dim2	L1B-lines	H5T_C_S1	
								Dim3	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1B image coordinates into L1A image coordinates for VN01. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
91		Polynomial_to_L1A_VN01_range	H5T_STD_U16LE	7416	2			Dim0	L1B-lines	H5T_C_S1	
								Dim1	start, end	H5T_C_S1	
								Data_description	Range of pixel address on L1B image coordinates corresponding to the nadir radiometer for VN01. The pixel address starts from 1.	H5T_C_S1	
								Unit	pixel	H5T_C_S1	
92		Polynomial_to_L1A_VN02_coef	H5T_IEEE_F64LE	3	2	7416	8	Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	to-L1A-pixel, to-L1A-line	H5T_C_S1	
								Dim2	L1B-lines	H5T_C_S1	
								Dim3	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1B image coordinates into L1A image coordinates for VN02. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
93		Polynomial_to_L1A_VN02_range	H5T_STD_U16LE	7416	2			Dim0	L1B-lines	H5T_C_S1	
								Dim1	start, end	H5T_C_S1	
								Unit	pixel	H5T_C_S1	
								Data_description	Range of pixel address on L1B image coordinates corresponding to the nadir radiometer for VN02. The pixel address starts from 1.	H5T_C_S1	
94		Polynomial_to_L1A_VN03_coef	H5T_IEEE_F64LE	3	2	7416	8	Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	to-L1A-pixel, to-L1A-line	H5T_C_S1	
								Dim2	L1B-lines	H5T_C_S1	
								Dim3	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1B image coordinates into L1A image coordinates for VN03. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
95		Polynomial_to_L1A_VN03_range	H5T_STD_U16LE	7416	2			Dim0	L1B-lines	H5T_C_S1	
								Dim1	start, end	H5T_C_S1	
								Data_description	Range of pixel address on L1B image coordinates corresponding to the nadir radiometer for VN03. The pixel address starts from 1.	H5T_C_S1	
								Unit	pixel	H5T_C_S1	
96		Polynomial_to_L1A_VN04_coef	H5T_IEEE_F64LE	3	2	7416	8	Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	to-L1A-pixel, to-L1A-line	H5T_C_S1	
								Dim2	L1B-lines	H5T_C_S1	
								Dim3	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1B image coordinates into L1A image coordinates for VN04. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
97		Polynomial_to_L1A_VN04_range	H5T_STD_U16LE	7416	2			Dim0	L1B-lines	H5T_C_S1	
								Dim1	start, end	H5T_C_S1	
								Data_description	Range of pixel address on L1B image coordinates corresponding to the nadir radiometer for VN04. The pixel address starts from 1.	H5T_C_S1	
								Unit	pixel	H5T_C_S1	

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No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
98		Polynomial_to_L1A_VN05_coef	H5T_IEEE_F64LE	3	2	7416	8	Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	to-L1A-pixel, to-L1A-line	H5T_C_S1	
								Dim2	L1B-lines	H5T_C_S1	
								Dim3	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1B image coordinates into L1A image coordinates for VN05. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
99		Polynomial_to_L1A_VN05_range	H5T_STD_U16LE	7416	2			Dim0	L1B-lines	H5T_C_S1	
								Dim1	start, end	H5T_C_S1	
								Data_description	Range of pixel address on L1B image coordinates corresponding to the nadir radiometer for VN05. The pixel address starts from 1.	H5T_C_S1	
								Unit	pixel	H5T_C_S1	
100		Polynomial_to_L1A_VN06_coef	H5T_IEEE_F64LE	3	2	7416	8	Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	to-L1A-pixel, to-L1A-line	H5T_C_S1	
								Dim2	L1B-lines	H5T_C_S1	
								Dim3	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1B image coordinates into L1A image coordinates for VN06. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
101		Polynomial_to_L1A_VN06_range	H5T_STD_U16LE	7416	2			Dim0	L1B-lines	H5T_C_S1	
								Dim1	start, end	H5T_C_S1	
								Data_description	Range of pixel address on L1B image coordinates corresponding to the nadir radiometer for VN06. The pixel address starts from 1.	H5T_C_S1	
								Unit	pixel	H5T_C_S1	
102		Polynomial_to_L1A_VN07_coef	H5T_IEEE_F64LE	3	2	7416	8	Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	to-L1A-pixel, to-L1A-line	H5T_C_S1	
								Dim2	L1B-lines	H5T_C_S1	
								Dim3	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1B image coordinates into L1A image coordinates for VN07. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
103		Polynomial_to_L1A_VN07_range	H5T_STD_U16LE	7416	2			Dim0	L1B-lines	H5T_C_S1	
								Dim1	start, end	H5T_C_S1	
								Data_description	Range of pixel address on L1B image coordinates corresponding to the nadir radiometer for VN07. The pixel address starts from 1.	H5T_C_S1	
								Unit	pixel	H5T_C_S1	
104		Polynomial_to_L1A_VN08_coef	H5T_IEEE_F64LE	3	2	7416	8	Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	to-L1A-pixel, to-L1A-line	H5T_C_S1	
								Dim2	L1B-lines	H5T_C_S1	
								Dim3	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1B image coordinates into L1A image coordinates for VN08. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
105		Polynomial_to_L1A_VN08_range	H5T_STD_U16LE	7416	2			Dim0	L1B-lines	H5T_C_S1	
								Dim1	start, end	H5T_C_S1	
								Data_description	Range of pixel address on L1B image coordinates corresponding to the nadir radiometer for VN08. The pixel address starts from 1.	H5T_C_S1	
								Unit	pixel	H5T_C_S1	
106		Polynomial_to_L1A_VN09_coef	H5T_IEEE_F64LE	3	2	7416	8	Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	to-L1A-pixel, to-L1A-line	H5T_C_S1	
								Dim2	L1B-lines	H5T_C_S1	
								Dim3	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1B image coordinates into L1A image coordinates for VN09. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	

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No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
107		Polynomial_to_L1A_VN09_range	H5T_STD_U16LE	7416	2			Dim0	L1B-lines	H5T_C_S1	
								Dim1	start, end	H5T_C_S1	
								Data_description	Range of pixel address on L1B image coordinates corresponding to the nadir radiometer for VN09. The pixel address starts from 1.	H5T_C_S1	
								Unit	pixel	H5T_C_S1	
108		Polynomial_to_L1A_VN10_coef	H5T_IEEE_F64LE	3	2	7416	8	Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	to-L1A-pixel, to-L1A-line	H5T_C_S1	
								Dim2	L1B-lines	H5T_C_S1	
								Dim3	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1B image coordinates into L1A image coordinates for VN10. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
109		Polynomial_to_L1A_VN10_range	H5T_STD_U16LE	7416	2			Dim0	L1B-lines	H5T_C_S1	
								Dim1	start, end	H5T_C_S1	
								Data_description	Range of pixel address on L1B image coordinates corresponding to the nadir radiometer for VN10. The pixel address starts from 1.	H5T_C_S1	
								Unit	pixel	H5T_C_S1	
110		Polynomial_to_L1A_VN11_coef	H5T_IEEE_F64LE	3	2	7416	8	Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	to-L1A-pixel, to-L1A-line	H5T_C_S1	
								Dim2	L1B-lines	H5T_C_S1	
								Dim3	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1B image coordinates into L1A image coordinates for VN11. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
111		Polynomial_to_L1A_VN11_range	H5T_STD_U16LE	7416	2			Dim0	L1B-lines	H5T_C_S1	
								Dim1	start, end	H5T_C_S1	
								Data_description	Range of pixel address on L1B image coordinates corresponding to the nadir radiometer for VN11. The pixel address starts from 1.	H5T_C_S1	
								Unit	pixel	H5T_C_S1	
112		Polynomial_to_L1B_VN01_coef	H5T_IEEE_F64LE	3	2	6816	7	Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	to-L1B-pixel, to-L1B-line	H5T_C_S1	
								Dim2	L1A-lines	H5T_C_S1	
								Dim3	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1A image coordinates into L1B image coordinates for VN01. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	6	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
113		Polynomial_to_L1B_VN02_coef	H5T_IEEE_F64LE	3	2	6816	7	Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	to-L1B-pixel, to-L1B-line	H5T_C_S1	
								Dim2	L1A-lines	H5T_C_S1	
								Dim3	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1A image coordinates into L1B image coordinates for VN02. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	6	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
114		Polynomial_to_L1B_VN03_coef	H5T_IEEE_F64LE	3	2	6816	7	Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	to-L1B-pixel, to-L1B-line	H5T_C_S1	
								Dim2	L1A-lines	H5T_C_S1	
								Dim3	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1A image coordinates into L1B image coordinates for VN03. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	6	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
115		Polynomial_to_L1B_VN04_coef	H5T_IEEE_F64LE	3	2	6816	7	Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	to-L1B-pixel, to-L1B-line	H5T_C_S1	
								Dim2	L1A-lines	H5T_C_S1	
								Dim3	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1A image coordinates into L1B image coordinates for VN04. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	6	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
116		Polynomial_to_L1B_VN05_coef	H5T_IEEE_F64LE	3	2	6816	7	Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	to-L1B-pixel, to-L1B-line	H5T_C_S1	
								Dim2	L1A-lines	H5T_C_S1	
								Dim3	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1A image coordinates into L1B image coordinates for VN05. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	6	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
117		Polynomial_to_L1B_VN06_coef	H5T_IEEE_F64LE	3	2	6816	7	Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	to-L1B-pixel, to-L1B-line	H5T_C_S1	
								Dim2	L1A-lines	H5T_C_S1	
								Dim3	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1A image coordinates into L1B image coordinates for VN06. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Unit	pixel	H5T_C_S1	
								Polynomial_degree	6	H5T_STD_I32LE	
118		Polynomial_to_L1B_VN07_coef	H5T_IEEE_F64LE	3	2	6816	7	Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	to-L1B-pixel, to-L1B-line	H5T_C_S1	
								Dim2	L1A-lines	H5T_C_S1	
								Dim3	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1A image coordinates into L1B image coordinates for VN07. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	6	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
119		Polynomial_to_L1B_VN08_coef	H5T_IEEE_F64LE	3	2	6816	7	Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	to-L1B-pixel, to-L1B-line	H5T_C_S1	
								Dim2	L1A-lines	H5T_C_S1	
								Dim3	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1A image coordinates into L1B image coordinates for VN08. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	6	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
120		Polynomial_to_L1B_VN09_coef	H5T_IEEE_F64LE	3	2	6816	7	Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	to-L1B-pixel, to-L1B-line	H5T_C_S1	
								Dim2	L1A-lines	H5T_C_S1	
								Dim3	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1A image coordinates into L1B image coordinates for VN09. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	6	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
121		Polynomial_to_L1B_VN10_coef	H5T_IEEE_F64LE	3	2	6816	7	Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	to-L1B-pixel, to-L1B-line	H5T_C_S1	
								Dim2	L1A-lines	H5T_C_S1	
								Dim3	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1A image coordinates into L1B image coordinates for VN10. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	6	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	

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No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
122		Polynomial_to_L1B_VN11_coef	H5T_IEEE_F64LE	3	2	6816	7	Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	to-L1B-pixel, to-L1B-line	H5T_C_S1	
								Dim2	L1A-lines	H5T_C_S1	
								Dim3	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1A image coordinates into L1B image coordinates for VN11. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	6	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
123		Quaternion_ECR	H5T_IEEE_F32LE	3541	4			Dim0	quaternion records (10Hz)	H5T_C_S1	
								Dim1	x, y, z, w(scalar)	H5T_C_S1	
								Data_description	Quaternion (STT->ECR) in x	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
124		Quaternion_time	H5T_IEEE_F64LE	3541				Data_description	Attitude determination time in TAI93	H5T_C_S1	
								Dim0	quaternion records (10Hz)	H5T_C_S1	
								Unit	second	H5T_C_S1	
125		Sampling_time_L1A	H5T_IEEE_F64LE	6816				Data_description	Sampling time of L1A in TAI93	H5T_C_S1	
								Dim0	L1A-lines	H5T_C_S1	
								Unit	Total seconds from 1993/01/01(TAI) epoch	H5T_C_S1	
126		Satellite_eclipse_time	H5T_IEEE_F64LE	1				Data_description	Satellite eclipse time in TAI93	H5T_C_S1	
								Unit	second	H5T_C_S1	
127		StripeCorrection_slope_VN01	H5T_IEEE_F32LE	3	1500			Dim0	Left, Nadir, Right	H5T_C_S1	Stripe correction OFF: 0.0
								Dim1	L1A-pixels	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
128		StripeCorrection_slope_VN02	H5T_IEEE_F32LE	3	1500			Dim0	Left, Nadir, Right	H5T_C_S1	Stripe correction OFF: 0.0
								Dim1	L1A-pixels	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
129		StripeCorrection_slope_VN03	H5T_IEEE_F32LE	3	1500			Dim0	Left, Nadir, Right	H5T_C_S1	Stripe correction OFF: 0.0
								Dim1	L1A-pixels	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
130		StripeCorrection_slope_VN04	H5T_IEEE_F32LE	3	1500			Dim0	Left, Nadir, Right	H5T_C_S1	Stripe correction OFF: 0.0
								Dim1	L1A-pixels	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
131		StripeCorrection_slope_VN05	H5T_IEEE_F32LE	3	1500			Dim0	Left, Nadir, Right	H5T_C_S1	Stripe correction OFF: 0.0
								Dim1	L1A-pixels	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
132		StripeCorrection_slope_VN06	H5T_IEEE_F32LE	3	1500			Dim0	Left, Nadir, Right	H5T_C_S1	Stripe correction OFF: 0.0
								Dim1	L1A-pixels	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
133		StripeCorrection_slope_VN07	H5T_IEEE_F32LE	3	1500			Dim0	Left, Nadir, Right	H5T_C_S1	Stripe correction OFF: 0.0
								Dim1	L1A-pixels	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
134		StripeCorrection_slope_VN08	H5T_IEEE_F32LE	3	1500			Dim0	Left, Nadir, Right	H5T_C_S1	Stripe correction OFF: 0.0
								Dim1	L1A-pixels	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
135		StripeCorrection_slope_VN09	H5T_IEEE_F32LE	3	1500			Dim0	Left, Nadir, Right	H5T_C_S1	Stripe correction OFF: 0.0
								Dim1	L1A-pixels	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
136		StripeCorrection_slope_VN10	H5T_IEEE_F32LE	3	1500			Dim0	Left, Nadir, Right	H5T_C_S1	Stripe correction OFF: 0.0
								Dim1	L1A-pixels	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
137		StripeCorrection_slope_VN11	H5T_IEEE_F32LE	3	1500			Dim0	Left, Nadir, Right	H5T_C_S1	Stripe correction OFF: 0.0
								Dim1	L1A-pixels	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
138		StripeCorrection_offset_VN01	H5T_IEEE_F32LE	3	1500			Dim0	Left, Nadir, Right	H5T_C_S1	Stripe correction OFF: 0.0
								Dim1	L1A-pixels	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
139		StripeCorrection_offset_VN02	H5T_IEEE_F32LE	3	1500			Dim0	Left, Nadir, Right	H5T_C_S1	Stripe correction OFF: 0.0
								Dim1	L1A-pixels	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
140		StripeCorrection_offset_VN03	H5T_IEEE_F32LE	3	1500			Dim0	Left, Nadir, Right	H5T_C_S1	Stripe correction OFF: 0.0
								Dim1	L1A-pixels	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
141		StripeCorrection_offset_VN04	H5T_IEEE_F32LE	3	1500			Dim0	Left, Nadir, Right	H5T_C_S1	Stripe correction OFF: 0.0
								Dim1	L1A-pixels	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
142		StripeCorrection_offset_VN05	H5T_IEEE_F32LE	3	1500			Dim0	Left, Nadir, Right	H5T_C_S1	Stripe correction OFF: 0.0
								Dim1	L1A-pixels	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
143		StripeCorrection_offset_VN06	H5T_IEEE_F32LE	3	1500			Dim0	Left, Nadir, Right	H5T_C_S1	Stripe correction OFF: 0.0
								Dim1	L1A-pixels	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
144		StripeCorrection_offset_VN07	H5T_IEEE_F32LE	3	1500			Dim0	Left, Nadir, Right	H5T_C_S1	Stripe correction OFF: 0.0
								Dim1	L1A-pixels	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
145		StripeCorrection_offset_VN08	H5T_IEEE_F32LE	3	1500			Dim0	Left, Nadir, Right	H5T_C_S1	Stripe correction OFF: 0.0
								Dim1	L1A-pixels	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
146		StripeCorrection_offset_VN09	H5T_IEEE_F32LE	3	1500			Dim0	Left, Nadir, Right	H5T_C_S1	Stripe correction OFF: 0.0
								Dim1	L1A-pixels	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
147		StripeCorrection_offset_VN10	H5T_IEEE_F32LE	3	1500			Dim0	Left, Nadir, Right	H5T_C_S1	Stripe correction OFF: 0.0
								Dim1	L1A-pixels	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
148		StripeCorrection_offset_VN11	H5T_IEEE_F32LE	3	1500			Dim0	Left, Nadir, Right	H5T_C_S1	Stripe correction OFF: 0.0
								Dim1	L1A-pixels	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
149		RadiometerCorrection_slope_VN01	H5T_IEEE_F32LE	4	6816			Dim0	Left, Nadir(Left), Nadir(Right), Right	H5T_C_S1	Radiometer correction OFF: 0.0
								Dim1	L1A-lines	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
150		RadiometerCorrection_slope_VN02	H5T_IEEE_F32LE	4	6816			Dim0	Left, Nadir(Left), Nadir(Right), Right	H5T_C_S1	Radiometer correction OFF: 0.0
								Dim1	L1A-lines	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
151		RadiometerCorrection_slope_VN03	H5T_IEEE_F32LE	4	6816			Dim0	Left, Nadir(Left), Nadir(Right), Right	H5T_C_S1	Radiometer correction OFF: 0.0
								Dim1	L1A-lines	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
152		RadiometerCorrection_slope_VN04	H5T_IEEE_F32LE	4	6816			Dim0	Left, Nadir(Left), Nadir(Right), Right	H5T_C_S1	Radiometer correction OFF: 0.0
								Dim1	L1A-lines	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
153		RadiometerCorrection_slope_VN05	H5T_IEEE_F32LE	4	6816			Dim0	Left, Nadir(Left), Nadir(Right), Right	H5T_C_S1	Radiometer correction OFF: 0.0
								Dim1	L1A-lines	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
154		RadiometerCorrection_slope_VN06	H5T_IEEE_F32LE	4	6816			Dim0	Left, Nadir(Left), Nadir(Right), Right	H5T_C_S1	Radiometer correction OFF: 0.0
								Dim1	L1A-lines	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
155		RadiometerCorrection_slope_VN07	H5T_IEEE_F32LE	4	6816			Dim0	Left, Nadir(Left), Nadir(Right), Right	H5T_C_S1	Radiometer correction OFF: 0.0
								Dim1	L1A-lines	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
156		RadiometerCorrection_slope_VN08	H5T_IEEE_F32LE	4	6816			Dim0	Left, Nadir(Left), Nadir(Right), Right	H5T_C_S1	Radiometer correction OFF: 0.0
								Dim1	L1A-lines	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
157		RadiometerCorrection_slope_VN09	H5T_IEEE_F32LE	4	6816			Dim0	Left, Nadir(Left), Nadir(Right), Right	H5T_C_S1	Radiometer correction OFF: 0.0
								Dim1	L1A-lines	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
158		RadiometerCorrection_slope_VN10	H5T_IEEE_F32LE	4	6816			Dim0	Left, Nadir(Left), Nadir(Right), Right	H5T_C_S1	Radiometer correction OFF: 0.0
								Dim1	L1A-lines	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
159		RadiometerCorrection_slope_VN11	H5T_IEEE_F32LE	4	6816			Dim0	Left, Nadir(Left), Nadir(Right), Right	H5T_C_S1	Radiometer correction OFF: 0.0
								Dim1	L1A-lines	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
160		RadiometerCorrection_offset_VN01	H5T_IEEE_F32LE	4	6816			Dim0	Left, Nadir(Left), Nadir(Right), Right	H5T_C_S1	Radiometer correction OFF: 0.0
								Dim1	L1A-lines	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
161		RadiometerCorrection_offset_VN02	H5T_IEEE_F32LE	4	6816			Dim0	Left, Nadir(Left), Nadir(Right), Right	H5T_C_S1	Radiometer correction OFF: 0.0
								Dim1	L1A-lines	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
162		RadiometerCorrection_offset_VN03	H5T_IEEE_F32LE	4	6816			Dim0	Left, Nadir(Left), Nadir(Right), Right	H5T_C_S1	Radiometer correction OFF: 0.0
								Dim1	L1A-lines	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
163		RadiometerCorrection_offset_VN04	H5T_IEEE_F32LE	4	6816			Dim0	Left, Nadir(Left), Nadir(Right), Right	H5T_C_S1	Radiometer correction OFF: 0.0
								Dim1	L1A-lines	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
164		RadiometerCorrection_offset_VN05	H5T_IEEE_F32LE	4	6816			Dim0	Left, Nadir(Left), Nadir(Right), Right	H5T_C_S1	Radiometer correction OFF: 0.0
								Dim1	L1A-lines	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
165		RadiometerCorrection_offset_VN06	H5T_IEEE_F32LE	4	6816			Dim0	Left, Nadir(Left), Nadir(Right), Right	H5T_C_S1	Radiometer correction OFF: 0.0
								Dim1	L1A-lines	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
166		RadiometerCorrection_offset_VN07	H5T_IEEE_F32LE	4	6816			Dim0	Left, Nadir(Left), Nadir(Right), Right	H5T_C_S1	Radiometer correction OFF: 0.0
								Dim1	L1A-lines	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
167		RadiometerCorrection_offset_VN08	H5T_IEEE_F32LE	4	6816			Dim0	Left, Nadir(Left), Nadir(Right), Right	H5T_C_S1	Radiometer correction OFF: 0.0
								Dim1	L1A-lines	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
168		RadiometerCorrection_offset_VN09	H5T_IEEE_F32LE	4	6816			Dim0	Left, Nadir(Left), Nadir(Right), Right	H5T_C_S1	Radiometer correction OFF: 0.0
								Dim1	L1A-lines	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
169		RadiometerCorrection_offset_VN10	H5T_IEEE_F32LE	4	6816			Dim0	Left, Nadir(Left), Nadir(Right), Right	H5T_C_S1	Radiometer correction OFF: 0.0
								Dim1	L1A-lines	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
170		RadiometerCorrection_offset_VN11	H5T_IEEE_F32LE	4	6816			Dim0	Left, Nadir(Left), Nadir(Right), Right	H5T_C_S1	Radiometer correction OFF: 0.0
								Dim1	L1A-lines	H5T_C_S1	
								Error_value	-999	H5T_IEEE_F32LE	
	Ancillary_data	—	—	—	—	—	—	Data_description	Don't use the record when lack line. (Refer to Data_quality_flag/Qf_Scan of L1A-product)	H5T_C_S1	
171	Ancillary_data/TC_FPGA	Mode_register	H5T_STD_U8LE	3	6816			Data_description	Mode register	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
172		Bord_address_register	H5T_STD_U8LE	3	6816			Data_description	Board address	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
173		SD4_PL_ASP_A_B_status	H5T_STD_U8LE	3	6816			Data_description	SD4 PL-ASP A/B status 0 : A 1 : B	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
174		SD3_NP_ASP_A_B_status	H5T_STD_U8LE	3	6816			Data_description	SD3 NP-ASP A/B status 0 : A 1 : B	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
175		SD2_MTR_A_B_status	H5T_STD_U8LE	3	6816			Data_description	SD2 MTR A/B status 0 : A 1 : B	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
176		SD1_HCE_A_B_status	H5T_STD_U8LE	3	6816			Data_description	SD1 HCE A/B status 0 : A 1 : B	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
177		Double_buffer_output_status	H5T_STD_U8LE	3	6816			Data_description	Double buffer output status 0 : A 1 : B	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
178		TC_FPGA_ENA_DIS	H5T_STD_U8LE	3	6816			Data_description	TC-FPGA ENA/DIS 0 : DISABLE 1 : ENABLE	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
179	Ancillary_data/NP_DSP_FPGA	Raw_mode_band_select	H5T_STD_U8LE	3	6816			Data_description	Selected Channel number in raw data output mode 1-11 : VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10)	H5T_C_S1	
								TLM_info_tlmID	VN0077, VN0082, VN0070	H5T_C_S1	
								TLM_info_name	VNR NP-L RAW DAT BND SEL, VNR NP-N RAW DAT BND SEL, VNR NP-R RAW DAT BND SEL	H5T_C_S1	
								TLM_info_short_name	V NP-L VN SEL1-11, V NP-N VN SEL1-11, V NP-R VN SEL1-11	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
180		Resolution_status	H5T_STD_U8LE	3	6816			Data_description	Resolution status of each lens telescope 0 : 1km 1 : 250m	H5T_C_S1	
								TLM_info_tlmID	VN0079, VN0067, VN0072	H5T_C_S1	
								TLM_info_name	VNR NP-L RESO STS, VNR NP-N RESO STS, VNR NP-R RESO STS	H5T_C_S1	
								TLM_info_short_name	V NP-L RES SEL, V NP-N RES SEL, V NP-R RES SEL	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
181		Raw_mode_DSP	H5T_STD_U8LE	3	6816			Data_description	DSP status in raw data mode or observation mode 0 : Observation 1 : Raw	H5T_C_S1	
								TLM_info_tlmID	VN0080, VN0068, VN0073	H5T_C_S1	
								TLM_info_name	VNR NP-L RAW DAT MODE, VNR NP-N RAW DAT MODE, VNR NP-R RAW DAT MODE	H5T_C_S1	
								TLM_info_short_name	V NP-L RAW MODE SEL, V NP-N RAW MODE SEL, V NP-R RAW MODE SEL	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
182		DAT_ena_dis_status	H5T_STD_U8LE	3	6816			Data_description	Observation data enable or disable status 0 : Disable 1 : Enable	H5T_C_S1	
								TLM_info_tlmID	VN0081, VN0069, VN0074	H5T_C_S1	
								TLM_info_name	VNR NP-L DAT ENA/DIS, VNR NP-N DAT ENA/DIS, VNR NP-R DAT ENA/DIS	H5T_C_S1	
								TLM_info_short_name	V NP-L DAT ENA/DIS, V NP-N DAT ENA/DIS, V NP-R DAT	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
183	Ancillary_data/NP_ASP_telemetry	Line_rate	H5T_STD_U8LE	3	6816	11		Data_description	Selected line rate status	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10)	H5T_C_S1	
184		Shutter_set_band	H5T_STD_U8LE	3	6816	11		Data_description	Selected Channel number in integration time 1-11 : VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10)	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10)	H5T_C_S1	
185		Integration_time	H5T_STD_U8LE	3	6816	11		Data_description	Selected Integration time	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10)	H5T_C_S1	
186		t3	H5T_IEEE_F64LE	3	6816	11		Data_description	Integration time t3(usec)	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10)	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
187	Ancillary_data/NP_ASP_SD	NP_ASP_select	H5T_STD_U8LE	3	6816			Data_description	Selected lens telescope name in command 1 : Right 2 : Nadir 3 : Left 7 : All	H5T_C_S1	
								TLM_info_tlmID	VN0537	H5T_C_S1	
								TLM_info_name	VNR NP TYPE	H5T_C_S1	
								TLM_info_short_name	V NP SEL	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
188		NP_ASP_mode_status(Right)	H5T_STD_U8LE	3	6816			Data_description	Selected mode of each lens telescope 1 : Wait mode 3 : Observation mode (observation data input) 4 : Raw data output mode 5 : Observation mode (electrical calibration input)	H5T_C_S1	
								TLM_info_tlmID	VN0538	H5T_C_S1	
								TLM_info_name	VNR NP-R MODE STS	H5T_C_S1	
								TLM_info_short_name	V NP-R MODE ST	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
189		NP_ASP_mode_status(Nadir)	H5T_STD_U8LE	3	6816			Data_description	Selected mode of each lens telescope 1 : Wait mode 3 : Observation mode (observation data input) 4 : Raw data output mode 5 : Observation mode (electrical calibration input)	H5T_C_S1	
								TLM_info_tlmID	VN0539	H5T_C_S1	
								TLM_info_name	VNR NP-N MODE STS	H5T_C_S1	
								TLM_info_short_name	V NP-N MODE ST	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
190		NP_ASP_mode_status(Left)	H5T_STD_U8LE	3	6816			Data_description	Selected mode of each lens telescope 1 : Wait mode 3 : Observation mode (observation data input) 4 : Raw data output mode 5 : Observation mode (electrical calibration input)	H5T_C_S1	
								TLM_info_tlmID	VN0540	H5T_C_S1	
								TLM_info_name	VNR NP-L MODE STS	H5T_C_S1	
								TLM_info_short_name	V NP-L MODE ST	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
191		Raw_mode_ASP(Right)	H5T_STD_U8LE	3	6816			Data_description	ASP status in raw data mode or observation mode 1 : Interface to AGE (DATA1:S01, DATA2:S05, DATA3:S09 / DATA1:S02, DATA2:S06, DATA3:S10), Interface to DSP (Data1:VN10, Data2:VN2, Data3:VN8) 2 : Interface to AGE (DATA1:S02, DATA2:S06, DATA3:S10 / DATA1:S01, DATA2:S05, DATA3:S09), Interface to DSP (DATA1:VN7, DATA2:VN1, DATA3:VN11) 3 : Interface to AGE (DATA1:S03, DATA2:S07, DATA3:S11 / DATA1:S04, DATA2:S08), Interface to DSP (DATA1:VN6, DATA2:VN3, DATA3:VN9) 4 : Interface to AGE (DATA1:S04, DATA2:S08 / DATA1:S03, DATA2:S07, DATA3:S11), Interface to DSP (DATA1:VN4, DATA2:VN5)	H5T_C_S1	
								TLM_info_tlmID	VN0544	H5T_C_S1	
								TLM_info_name	VNR NP-R RAW MODE SEL	H5T_C_S1	
								TLM_info_short_name	V NP-R MODE RAW	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
192		Raw_mode_ASP(Nadir)	H5T_STD_U8LE	3	6816			Data_description	ASP status in raw data mode or observation mode 1 : Interface to AGE (DATA1:S01, DATA2:S05, DATA3:S09 / DATA1:S02, DATA2:S06, DATA3:S10), Interface to DSP (Data1:VN10, Data2:VN2, Data3:VN8) 2 : Interface to AGE (DATA1:S02, DATA2:S06, DATA3:S10 / DATA1:S01, DATA2:S05, DATA3:S09), Interface to DSP (DATA1:VN7, DATA2:VN1, DATA3:VN11) 3 : Interface to AGE (DATA1:S03, DATA2:S07, DATA3:S11 / DATA1:S04, DATA2:S08), Interface to DSP (DATA1:VN6, DATA2:VN3, DATA3:VN9) 4 : Interface to AGE (DATA1:S04, DATA2:S08 / DATA1:S03, DATA2:S07, DATA3:S11), Interface to DSP (DATA1:VN4, DATA2:VN5)	H5T_C_S1	
								TLM_info_tlmID	VN0545	H5T_C_S1	
								TLM_info_name	VNR NP-N RAW MODE SEL	H5T_C_S1	
								TLM_info_short_name	V NP-N MODE RAW	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
193		Raw_mode_ASP(Left)	H5T_STD_U8LE	3	6816			Data_description	ASP status in raw data mode or observation mode 1 : Interface to AGE (DATA1:S01, DATA2:S05, DATA3:S09 / DATA1:S02, DATA2:S06, DATA3:S10), Interface to DSP (Data1:VN10, Data2:VN2, Data3:VN8) 2 : Interface to AGE (DATA1:S02, DATA2:S06, DATA3:S10 / DATA1:S01, DATA2:S05, DATA3:S09), Interface to DSP (DATA1:VN7, DATA2:VN1, DATA3:VN11) 3 : Interface to AGE (DATA1:S03, DATA2:S07, DATA3:S11 / DATA1:S04, DATA2:S08), Interface to DSP (DATA1:VN6, DATA2:VN3, DATA3:VN9) 4 : Interface to AGE (DATA1:S04, DATA2:S08 / DATA1:S03, DATA2:S07, DATA3:S11), Interface to DSP (DATA1:VN4, DATA2:VN5)	H5T_C_S1	
								TLM_info_tlmID	VN0546	H5T_C_S1	
								TLM_info_name	VNR NP-L RAW MODE SEL	H5T_C_S1	
								TLM_info_short_name	V NP-L MODE RAW	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
194		DET_drive_status(Right)	H5T_STD_U8LE	3	6816			Data_description	Detector CCD drive status 0 : OFF 1 : ON	H5T_C_S1	
								TLM_info_tlmID	VN0541	H5T_C_S1	
								TLM_info_name	VNR NP-R DET ON/OFF	H5T_C_S1	
								TLM_info_short_name	V NP-R DET ONOFF	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
195		DET_drive_status(Nadir)	H5T_STD_U8LE	3	6816			Data_description	Detector CCD drive status 0 : OFF 1 : ON	H5T_C_S1	
								TLM_info_tlmID	VN0542	H5T_C_S1	
								TLM_info_name	VNR NP-N DET ON/OFF	H5T_C_S1	
								TLM_info_short_name	V NP-N DET ONOFF	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
196		DET_drive_status(Left)	H5T_STD_U8LE	3	6816			Data_description	Detector CCD drive status 0 : OFF 1 : ON	H5T_C_S1	
								TLM_info_tlmID	VN0543	H5T_C_S1	
								TLM_info_name	VNR NP-L DET ON/OFF	H5T_C_S1	
								TLM_info_short_name	V NP-L DET ONOFF	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
197		Electric_cal_level(Right)	H5T_STD_U8LE	3	6816			Data_description	Electrical calibration signal level status 1 : Level1 2 : Level2 3 : Level3 4 : Level4 5 : Level5 6 : Level6	H5T_C_S1	
								TLM_info_tlmID	VN0550	H5T_C_S1	
								TLM_info_name	VNR NP-R ELEC CAL LEVEL	H5T_C_S1	
								TLM_info_short_name	V NP-R ELEC CAL	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
198		Electric_cal_level(Nadir)	H5T_STD_U8LE	3	6816			Data_description	Electrical calibration signal level status 1 : Level1 2 : Level2 3 : Level3 4 : Level4 5 : Level5 6 : Level6	H5T_C_S1	
								TLM_info_tlmID	VN0551	H5T_C_S1	
								TLM_info_name	VNR NP-N ELEC CAL LEVEL	H5T_C_S1	
								TLM_info_short_name	V NP-N ELEC CAL	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
199		Electric_cal_level(Left)	H5T_STD_U8LE	3	6816			Data_description	Electrical calibration signal level status 1 : Level1 2 : Level2 3 : Level3 4 : Level4 5 : Level5 6 : Level6	H5T_C_S1	
								TLM_info_tlmID	VN0552	H5T_C_S1	
								TLM_info_name	VNR NP-L ELEC CAL LEVEL	H5T_C_S1	
								TLM_info_short_name	V NP-L ELEC CAL	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
200		CCD_temperature(Right)	H5T_IEEE_F32LE	3	6816	2		Data_description	CCD temperature	H5T_C_S1	
								TLM_info_tlmID	VN0556, VN0557	H5T_C_S1	
								TLM_info_name	VNR NP-R CCD TMP1, VNR NP-R CCD TMP2	H5T_C_S1	
								TLM_info_short_name	V NP-R CCD TMP1, V NP-R CCD TMP2	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	60	H5T_IEEE_F32LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	temp1, temp2	H5T_C_S1	
								Unit	degree C	H5T_C_S1	
201		CCD_temperature(Nadir)	H5T_IEEE_F32LE	3	6816	2		Data_description	CCD temperature	H5T_C_S1	
								TLM_info_tlmID	VN0558, VN0559	H5T_C_S1	
								TLM_info_name	VNR NP-N CCD TMP3, VNR NP-N CCD TMP4	H5T_C_S1	
								TLM_info_short_name	V NP-N CCD TMP3, V NP-N CCD TMP4	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	60	H5T_IEEE_F32LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	temp3, temp4	H5T_C_S1	
								Unit	degree C	H5T_C_S1	
202		CCD_temperature(Left)	H5T_IEEE_F32LE	3	6816	2		Data_description	CCD temperature	H5T_C_S1	
								TLM_info_tlmID	VN0560, VN0561	H5T_C_S1	
								TLM_info_name	VNR NP-L CCD TMP5, VNR NP-L CCD TMP6	H5T_C_S1	
								TLM_info_short_name	V NP-L CCD TMP5, V NP-L CCD TMP6	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	60	H5T_IEEE_F32LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	temp5, temp6	H5T_C_S1	
								Unit	degree C	H5T_C_S1	
203	Ancillary_data/PL_ASP_SD	PD_monitor_gain	H5T_STD_U8LE	3	6816			Data_description	Sun monitor gain 0 : HI gain 1 : LO gain	H5T_C_S1	
								TLM_info_tlmID	VN0573	H5T_C_S1	
								TLM_info_name	VNR PD GAIN HI/LO	H5T_C_S1	
								TLM_info_short_name	V PD GAIN	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
204		LED_white_on_off	H5T_STD_U8LE	3	6816			Data_description	White LED ON/OFF status 0 : LED1 OFF / LED2 OFF 1 : LED1 OFF / LED2 ON 2 : LED1 ON / LED2 OFF 3 : LED1 ON / LED2 ON	H5T_C_S1	
								TLM_info_tlmID	VN0574	H5T_C_S1	
								TLM_info_name	VNR VIS-LED ON/OFF	H5T_C_S1	
								TLM_info_short_name	V VIS-LED ONOFF	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
205		LED_NIR_on_off	H5T_STD_U8LE	3	6816			Data_description	LED NIR status 0 : LED1 OFF / LED2 OFF 1 : LED1 OFF / LED2 ON 2 : LED1 ON / LED2 OFF 3 : LED1 ON / LED2 ON	H5T_C_S1	
								TLM_info_tlmID	VN0575	H5T_C_S1	
								TLM_info_name	VNR NIR-LED ON/OFF	H5T_C_S1	
								TLM_info_short_name	V NIR-LED ONOFF	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
206		PD_monitor	H5T_IEEE_F32LE	3	6816	4		Data_description	Sun monitor	H5T_C_S1	
								TLM_info_tlmID	VN0576, VN0577, VN0578, VN0579	H5T_C_S1	
								TLM_info_name	VNR PD MON1, VNR PD MON2, VNR PD MON3, VNR PD MON4	H5T_C_S1	
								TLM_info_short_name	V PD LEV1, V PD LEV2, V PD LEV3, V PD LEV4	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	-999	H5T_IEEE_F32LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	monitor1-monitor4	H5T_C_S1	
								Unit	nA	H5T_C_S1	
207		LED_white_current	H5T_IEEE_F32LE	3	6816	2	4	Data_description	LED white current	H5T_C_S1	
								TLM_info_tlmID	VN0580, VN0581, VN0582, VN0583, VN0584, VN0585, VN0586, VN0587	H5T_C_S1	
								TLM_info_name	VNR VIS-LED1-1 CUR, VNR VIS-LED1-2 CUR, VNR VIS-LED1-3 CUR, VNR VIS-LED1-4 CUR, VNR VIS-LED2-1 CUR, VNR VIS-LED2-2 CUR, VNR VIS-LED2-3 CUR, VNR VIS-	H5T_C_S1	
								TLM_info_short_name	V VIS-LED1-1 CUR, V VIS-LED1-2 CUR, V VIS-LED1-3 CUR, V VIS-LED1-4 CUR, V VIS-LED2-1 CUR, V VIS-LED2-2 CUR, V VIS-LED2-3 CUR, V VIS-LED2-4 CUR	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	80	H5T_IEEE_F32LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	white LED1, white LED2	H5T_C_S1	
								Dim3	cur1-cur4	H5T_C_S1	
								Unit	mA	H5T_C_S1	
208		LED_NIR_current	H5T_IEEE_F32LE	3	6816	2		Data_description	LED NIR current	H5T_C_S1	
								TLM_info_tlmID	VN0588, VN0589	H5T_C_S1	
								TLM_info_name	VNR NIR-LED1 CUR, VNR NIR-LED2 CUR	H5T_C_S1	
								TLM_info_short_name	V NIR-LED1 CUR, V NIR-LED2 CUR	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	120	H5T_IEEE_F32LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	NIR LED1 NIR LED2	H5T_C_S1	
								Unit	mA	H5T_C_S1	
209		LED_white_temperature	H5T_IEEE_F32LE	3	6816	2		Data_description	LED white temperature	H5T_C_S1	
								TLM_info_tlmID	VN0590, VN0591	H5T_C_S1	
								TLM_info_name	VNR VIS-LED TMP1, VNR VIS-LED TMP2	H5T_C_S1	
								TLM_info_short_name	V VIS-LED TMP1, V VIS-LED TMP2	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	60	H5T_IEEE_F32LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	LED1 monitor, LED2 monitor	H5T_C_S1	
								Unit	degree C	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
210		LED_NIR_temperature	H5T_IEEE_F32LE	3	6816	2		Data_description	LED NIR temperature	H5T_C_S1	
								TLM_info_tlmID	VN0592, VN0593	H5T_C_S1	
								TLM_info_name	VNR NIR-LED TMP1, VNR NIR-LED TMP2	H5T_C_S1	
								TLM_info_short_name	V NIR-LED TMP1, V NIR-LED TMP2	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	60	H5T_IEEE_F32LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	LED1 monitor, LED2 monitor	H5T_C_S1	
								Unit	degree C	H5T_C_S1	
211		PD_monitor_temperature	H5T_IEEE_F32LE	3	6816			Data_description	Sun monitor temperature	H5T_C_S1	
								TLM_info_tlmID	VN0594	H5T_C_S1	
								TLM_info_name	VNR PD TMP	H5T_C_S1	
								TLM_info_short_name	V PD TMP	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	60	H5T_IEEE_F32LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Unit	degree C	H5T_C_S1	
212	Ancillary_data/MTR_SD	Diffuser_pulse_count	H5T_IEEE_F32LE	3	6816			Data_description	Steer angle of scatter diffuser	H5T_C_S1	
								TLM_info_tlmID	VN0668	H5T_C_S1	
								TLM_info_name	VNR DIF PLS(ANG)	H5T_C_S1	
								TLM_info_short_name	V DIF PLS CNT(ANG)	H5T_C_S1	
								Minimum_valid_value	-175	H5T_IEEE_F32LE	
								Maximum_valid_value	45	H5T_IEEE_F32LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Unit	degree	H5T_C_S1	
213		Diffuser_status	H5T_STD_U8LE	3	6816			Data_description	Status of scatter diffuser 0 : Stop 1 : Drive	H5T_C_S1	
								TLM_info_tlmID	VN0603	H5T_C_S1	
								TLM_info_name	VNR DIF MOVE ST	H5T_C_S1	
								TLM_info_short_name	V DIF MOVE ST	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
214	Ancillary_data/MTR_SD	Tilt_status	H5T_STD_U8LE	3	6816			Data_description	Status of tilt 0 : Stop 1 : Drive	H5T_C_S1	
								TLM_info_tlmID	VN0628	H5T_C_S1	
								TLM_info_name	VNR TLT MOVE ST	H5T_C_S1	
								TLM_info_short_name	V TILT MOVE ST	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
215		Tilt_angle	H5T_IEEE_F32LE	3	6816			Data_description	Tilt angle of VNR-PL lens telescope	H5T_C_S1	
								TLM_info_tlmID	VN0669	H5T_C_S1	
								TLM_info_name	VNR TLT PLS(ANG)	H5T_C_S1	
								TLM_info_short_name	V TLT PLS CNT(ANG)	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32LE	
								Maximum_valid_value	90	H5T_IEEE_F32LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Unit	degree	H5T_C_S1	
216		Tilt_angle_resolver	H5T_IEEE_F32LE	3	6816			Data_description	Tilt angle from resolver count of VNR-PL lens	H5T_C_S1	
								TLM_info_tlmID	VN0638	H5T_C_S1	
								TLM_info_name	VNR TLT RESE DAT	H5T_C_S1	
								TLM_info_short_name	V TLT RESE DAT	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32LE	
								Maximum_valid_value	90	H5T_IEEE_F32LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Unit	degree	H5T_C_S1	
217	Ancillary_data/HCE_SD	HCE_temperature	H5T_IEEE_F64LE	3	6816	64		Data_description	HCE sensor temperature	H5T_C_S1	
								TLM_info_tlmID	VN0345-VN0408	H5T_C_S1	
								TLM_info_name	VNR HCE CH1 TMP-VNR HCE CH1 TMP	H5T_C_S1	
								TLM_info_short_name	V HCE TMP NUM1-V HCE TMP NUM64	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64LE	
								Maximum_valid_value	-999	H5T_IEEE_F64LE	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	temp1-temp64	H5T_C_S1	
								Unit	degree C	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
	Converted_PCD	—	—	—	—	—	—	Worst_orbit_source	0	H5T_STD_U8LE	
		—	—	—	—	—	—	Worst_orbit_source_data_description	Source of orbit data(GPS_position_ECR,GPS_velocity_ECR,GPS_position_ECI,GPS_velocity_ECI,Argument_of_latitude) 0 : Realtime PCD 1 : Decision Ephemeris 2 : Prediction Ephemeris	H5T_C_S1	
		—	—	—	—	—	—	Worst_attitude_source	0	H5T_STD_U8LE	
		—	—	—	—	—	—	Worst_attitude_source_data_description	Source of attitude data(Attitude_time,Attitude_error_angle,Attitude_angular_velocity,Attitude_flag,Quaternion,Quaternion_index,Quaternion_number) 0 : Realtime PCD (Quaternion) 1 : Realtime PCD (Eular angle) 2 : Nominal	H5T_C_S1	
218		Navigation_time	H5T_IEEE_F64LE	354	—	—	—	Data_description	GPS navigation time	H5T_C_S1	
								Epoch_time	19800106 00:00:00	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Unit	sec	H5T_C_S1	
219		GPS_position_ECR	H5T_IEEE_F32LE	354	3			Data_description	GCOM-C position calculated by GPS	H5T_C_S1	
								Coordinate_system	WGS84	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Dim1	x,y,z	H5T_C_S1	
								Unit	km	H5T_C_S1	
220		GPS_velocity_ECR	H5T_IEEE_F32LE	354	3			Data_description	GCOM-C velocity calculated by GPS	H5T_C_S1	
								Coordinate_system	WGS84	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Dim1	Vx,Vy,Vz	H5T_C_S1	
								Unit	km/s	H5T_C_S1	
221		GPS_position_ECI	H5T_IEEE_F32LE	354	3			Data_description	GCOM-C position calculated by GPS	H5T_C_S1	
								Coordinate_system	J2000	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Dim1	x,y,z	H5T_C_S1	
								Unit	km	H5T_C_S1	
222		GPS_velocity_ECI	H5T_IEEE_F32LE	354	3			Data_description	GCOM-C velocity calculated by GPS	H5T_C_S1	
								Coordinate_system	J2000	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Dim1	Vx,Vy,Vz	H5T_C_S1	
								Unit	km/s	H5T_C_S1	
223		Argument_of_latitude	H5T_IEEE_F32LE	354				Data_description	Argument of latitude (true anomaly)	H5T_C_S1	
								Coordinate_system	WGS84	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Unit	degree	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
224		Navigation_status	H5T_STD_U32LE	354				Data_description	Navigation status	H5T_C_S1	
								Bit00(LSB)-01	navigation status 00 : Stop 01 : AG filter 10 : Kalman filter 11 : Kalman filter(Convergence)	H5T_C_S1	
								Bit02-07	spare	H5T_C_S1	
								Bit08-09	antenna (CH1) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit10-11	antenna (CH2) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit12-13	antenna (CH3) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit14-15	antenna (CH4) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit16-17	antenna (CH5) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit18-19	antenna (CH6) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit20-21	antenna (CH7) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit22-23	antenna (CH8) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit24-31(MSB)	spare	H5T_C_S1	
								Dim0	Realtime PCD records (1Hz)	H5T_C_S1	
225		Attitude_time	H5T_IEEE_F64LE	354				Data_description	Time when attitude determined	H5T_C_S1	
								Epoch_time	19800106 00:00:00	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Unit	sec	H5T_C_S1	
226		Attitude_error_angle	H5T_IEEE_F32LE	354	3			Data_description	Attitude error	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Dim1	Roll, Pitch, Yaw	H5T_C_S1	
								Unit	degree	H5T_C_S1	
227		Attitude_angular_velocity	H5T_IEEE_F32LE	354	3			Data_description	Attitude angular velocity	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Dim1	Roll, Pitch, Yaw	H5T_C_S1	
								Unit	degree/sec	H5T_C_S1	
228		Attitude_flag	H5T_STD_U8LE	354				Data_description	Quaternion usable / unusable flag 0 : ESA/IRU (quaternion unusable) 1 : STT/IRU (quaternion usable) 255 : Error value	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
229		Quaternion	H5T_IEEE_F32LE	354	11	4		Data_description	Quaternion(9-11 data per sec)	H5T_C_S1	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Dim1	Maximum number of quaternions (unusable area is stored with indefinite value)	H5T_C_S1	
								Dim2	q1, q2, q3, q4(scalar)	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
230		Quaternion_index	H5T_STD_U8LE	354				Data_description	Quaternion index (0-10) corresponds to "Att_time"	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Minimum_valid_value	0	H5T_STD_U8LE	
								Maximum_valid_value	10	H5T_STD_U8LE	
								Dim0	attitude records (1Hz)	H5T_C_S1	
231		Quaternion_number	H5T_STD_U8LE	354				Data_description	Available number of quaternion	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Minimum_valid_value	9	H5T_STD_U8LE	
								Maximum_valid_value	11	H5T_STD_U8LE	
								Dim0	attitude records (1Hz)	H5T_C_S1	
232		AOCS_mode	H5T_STD_U8LE	354				Data_description	AOCS(Attitude and Orbit Control System) control mode	H5T_C_S1	
								Bit00(LSB)-07	Control Mode / Control Sub Mode 01110000 : Normal control / Not execute unloading 01110001 : Normal control / Execute magnetic unloading 01110010 : Normal control / Execute thruster unloading 10000000 : Orbit control / Attitude control thruster Delta-V (pitch and yaw-failure) 10000001 : Orbit control / Orbit control thruster (normal) 10000010 : Orbit control / Orbit control thruster Delta-V (pitch-failure) 10000011 : Orbit control / Orbit control thruster Delta-V (yaw-failure) 10000100 : Orbit control / Attitude control thruster(Three axis stabilized attitude control) 10000101 : Orbit control / Delta-V Idling 10000110 : Orbit control / Yaw around (first half) 10000111 : Orbit control / Yaw around (last half) 10010000 : Calibration Maneuver / Solar calibration or Gain deviation maneuver(First maneuver) 10010001 : Calibration Maneuver / Solar calibration or Gain deviation maneuver(Second maneuver) 10010010 : Calibration Maneuver / Solar calibration or Gain deviation maneuver(Third maneuver) 10010011 : Calibration Maneuver / Lunar calibration maneuver(First maneuver) 10010100 : Calibration Maneuver / Lunar calibration maneuver(Second maneuver) 10010101 : Calibration Maneuver / Lunar calibration maneuver(Third maneuver) Others : Not defined	H5T_C_S1	
								Error_value	255	H5T_C_S1	
								Dim0	Realtime PCD records (1Hz)	H5T_C_S1	
233		Orbit_source	H5T_STD_U8LE	354				Data_description	Source of orbit data(GPS_position_ECR,GPS_velocity_ECR,GPS_position_ECI,GPS_velocity_ECI,Argument_of_latitude) 0 : Realtime PCD 1 : Decision Ephemeris 2 : Prediction Ephemeris	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
234		Attitude_source	H5T_STD_U8LE	354				Data_description	Source of attitude data(Attitude_time,Attitude_error_angle,Attitude_angular_velocity,Attitude_flag,Quaternion,Quaternion_index,Quaternion_number) 0 : Realtime PCD (Quaternion) 1 : Realtime PCD (Eular angle) 2 : Nominal	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
235	Data_quality_flag	Qf_scan	H5T_STD_U8LE	11	7416			Data_description	Quality flag of each scan	H5T_C_S1	
								Dim0	VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10)	H5T_C_S1	
								Dim1	L1B-lines	H5T_C_S1	
								Bit00(LSB)-002	Quality flag 000 : Normal line 001 : Lack line 011 : Lack line (1km/500m->250m or 1km->500m) 100 : Lack line (for calibration) 101 : Lack line (for synchronization between sensors) 010 : Resampling line (250m->1km/500m) 110 : Resampling line (500m->1km) 111 : Mixed line (000,001,011,100,101,010,110)	H5T_C_S1	
236		Qf_data	H5T_STD_U16LE	7416	5000			Data_description	Quality flag of each pixel	H5T_C_S1	
								Bit00(LSB)-Bit10	Stray-light quantity flag 0-10: VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10) 0 : Less than threshold 1 : More than threshold	H5T_C_S1	
								Bit11-Bit14	Altitude effect to stray-light correction VN04,VN06,VN07,VN10 0 : Not affect 1 : Affect	H5T_C_S1	
								Reference_band	VN10->VN11,VN08->VN05,VN07->VN08,VN06->VN05,VN04->VN05->VN03,VN02->VN03->VN01	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
237		Qf_data_stray	H5T_STD_U8LE	7416	5000			Data_description	delta_L: The amount of stray light correction for the representative channel. delta_L = Ltrue - Lobs, where Ltrue is the stray light corrected radiance, Lobs is the observed radiance respectively. Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	20.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	868.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	956.2323	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_uni	W/m^2/um	H5T_C_S1	
								Error_DN	255	H5T_STD_U8LE	
								Maximum_valid_DN	254	H5T_STD_U8LE	
								Minimum_valid_DN	0	H5T_STD_U8LE	
								Saturation_radiance	40.7	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.00271029	H5T_IEEE_F32LE	
								Offset	-3.7	H5T_IEEE_F32LE	
								Channel	VN10	H5T_C_S1	
238		Qf_GPS	H5T_STD_U8LE	354				Data_description	Quality flag of GPS 0 : GPS time standard 1 : DMS time standard 255 : Error value	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
239		Qf_sc_position	H5T_STD_U8LE	354				Data_description	Quality flag of GCOM-C position 0 : Normal 1 : Satellite position value falls outside the normal range(or Error value)	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
240		Qf_sc_velocity	H5T_STD_U8LE	354				Data_description	Quality flag of GCOM-C velocity 0 : Normal 1 : Satellite velocity value falls outside the normal range(or Error value)	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
241		Qf_sc_attitude_quaternion	H5T_STD_U8LE	354				Data_description	Quality flag of GCOM-C quaternion 0 : Normal 1 : Abnormal(or Error value)	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
242		Qf_sc_attitude_eular_angle	H5T_STD_U8LE	354				Data_description	Quality flag of GCOM-C eular angle 0 : Normal 1 : Abnormal(or Error value)	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
243		Qf_sc_status	H5T_STD_U8LE	354				Data_description	Quality flag of GCOM-C status 0 : Normal 1 : Possibly less accurate around maneuver or tilt	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
244		Qf_sun_calibration	H5T_STD_U8LE	6816				Data_description	Quality flag of Sun calibration 0 : Not Sun calibration 1 : Sun calibration 2 : Sun calibration(Solar elevation value falls outside the normal range)	H5T_C_S1	
								Dim0	L1A-lines	H5T_C_S1	
245		Qf_internal_lamp_calibration	H5T_STD_U8LE	6816				Data_description	Quality flag of internal lamp calibration 0 : Not internal lamp calibration 1 : Internal lamp calibration	H5T_C_S1	
								Dim0	L1A-lines	H5T_C_S1	
246		Qf_electric_calibration	H5T_STD_U8LE	6816				Data_description	Quality flag of electrical calibration 0 : Not electrical calibration 1 : Electrical calibration 2 : Indefinite	H5T_C_S1	
								Dim0	L1A-lines	H5T_C_S1	
247		Qf_maneuver	H5T_STD_U8LE	6816				Data_description	Quality flag of maneuver 0 : Not maneuver 1 : Not maneuver(out of range) 11 : Maneuver(Moon,out of range) 12 : Maneuver(Moon,in of range) 13 : Maneuver(Moon,indefinite) 21 : Maneuver(Sun/Gain deviation) 22 : Maneuver(Sun/Gain deviation,indefinite) 31 : Orbit Control Mode(STT/IRU) 32 : Orbit Control Mode(STT/IRU,indefinite) 33 : Orbit Control Mode(not STT/IRU) 34 : Orbit Control Mode(not STT/IRU,indefinite) 255 : AOCS Control Mode Error value(nominal attitude)	H5T_C_S1	
								Dim0	L1A-lines	H5T_C_S1	
248		Qf_shutter_set	H5T_STD_U8LE	6816				Data_description	Quality flag of shutter set 0 : Normal 1 : indefinite	H5T_C_S1	
								Dim0	L1A-lines	H5T_C_S1	
249		Qf_tilt_angle	H5T_STD_U8LE	6816				Data_description	Quality flag of tilt angle 0 : Normal 1 : tilt angle value falls outside the normal range	H5T_C_S1	
								Dim0	L1A-lines	H5T_C_S1	
250		Qf_CCD_temperature_VN	H5T_STD_U8LE	6816				Data_description	Quality flag of CCD temperature (VNR-NP)	H5T_C_S1	
								Bit00(LSB)	temperature1 (Left lens telescope) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit01	temperature2 (Left lens telescope) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit02	temperature1 (Nadir lens telescope) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit03	temperature2 (Nadir lens telescope) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit04	temperature1 (Right lens telescope) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit05	temperature2 (Right lens telescope) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Dim0	L1A-lines	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
251		Qf_CCD_temperature_PL	H5T_STD_U8LE	6816				Data_description	Quality flag of CCD temperature (VNR-PL)	H5T_C_S1	
								Bit00(LSB)	temperature1 (P1) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit01	temperature2 (P1) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit02	temperature1 (P2) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit03	temperature2 (P2) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Dim0	L1A-lines	H5T_C_S1	
252		Qf_LED_temperature	H5T_STD_U8LE	6816				Data_description	Quality flag of LED	H5T_C_S1	
								Bit00(LSB)	temperature (white LED1) 0 : Normal 1 : LED temperature falls outside the normal range	H5T_C_S1	
								Bit01	temperature (white LED2) 0 : Normal 1 : LED temperature falls outside the normal range	H5T_C_S1	
								Bit02	temperature (NIR LED1) 0 : Normal 1 : LED temperature falls outside the normal range	H5T_C_S1	
								Bit03	temperature (NIR LED2) 0 : Normal 1 : LED temperature falls outside the normal range	H5T_C_S1	
								Dim0	L1A-lines	H5T_C_S1	
253		Qf_ASP_temperature	H5T_STD_U8LE	6816				Data_description	Quality flag of ASP temperature	H5T_C_S1	
								Bit00(LSB)	ASP temperature 0 : Normal 1 : ASP temperature falls outside the normal range	H5T_C_S1	
								Dim0	L1A-lines	H5T_C_S1	
254		Qf_sun_monitor_temperature	H5T_STD_U8LE	6816				Data_description	Quality flag of sun monitor temperature	H5T_C_S1	
								Bit00(LSB)-Bit03	monitor1-monitor4 0 : Normal 1 : Sun monitor value falls outside the normal range	H5T_C_S1	
								Dim0	L1A-lines	H5T_C_S1	
255		Qf_diffuser	H5T_STD_U8LE	6816				Data_description	Quality flag of scatter diffuser angle 0 : Normal 1 : Scatter diffuser angle falls outside the normal	H5T_C_S1	
								Dim0	L1A-lines	H5T_C_S1	
256		Qf_offset	H5T_STD_U16LE	3	6816			Data_description	Quality flag of offset	H5T_C_S1	
								Bit00(LSB)-Bit10	0-10: VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10) 0 : Good precision 1 : Bad precision	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
257		Qf_gain	H5T_STD_U16LE	3	6816			Data_description	Quality flag of gain	H5T_C_S1	
								Bit00(LSB)-Bit10	0-10: VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10) 0 : Good precision 1 : Bad precision	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
258		Saturation_num_in_line	H5T_STD_U16LE	11	7416			Data_description	Number of saturation data in line	H5T_C_S1	Check if the spectral radiance of pixels in one line are saturated for each pixel. Count the number of saturated pixels. Possible renge: 0 ～ Image_data/Number_of_pixels Saturation condition: Spectral radiance ≧Lsatu Lsatu: Saturation threshold value of the Spectral radiance Lsatu＝16381.5 * slope + offset slope: Stored value of Image_data/Lt_*/slope offset: Stored value of Image_data/Lt_*/offset
								Dim0	VN01(S06),VN02(S05),VN03(S07),VN04(S04),VN05(S08),VN06(S03),VN07(S02),VN08(S09),VN09(S11),VN10(S01),VN11(S10)	H5T_C_S1	
								Dim1	L1B-lines	H5T_C_S1	
	Geometry_parameter	—	—	—	—	—	—	Geometry_parameter_version	0002	H5T_C_S1	
259		Sensor_position	H5T_IEEE_F64LE	3	3			Data_description	Sensor base position	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	x, y, z	H5T_C_S1	
								Unit	mm	H5T_C_S1	
260		GPSR_position	H5T_IEEE_F64LE	2	3			Data_description	GPSR position	H5T_C_S1	
								Dim0	Antenna-A, Antenna-B	H5T_C_S1	
								Dim1	x, y, z	H5T_C_S1	
								Unit	mm	H5T_C_S1	
261		Sensor_alignment	H5T_IEEE_F64LE	3	3	3		Data_description	Sensor alignment	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	Rows	H5T_C_S1	
								Dim2	Columns	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
262		Primary_change_rate	H5T_IEEE_F64LE	3	3			Data_description	Primary change rate	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	lx, ly, lz	H5T_C_S1	
								Unit	radian/day	H5T_C_S1	
263		Exponential_amplitude	H5T_IEEE_F64LE	3	3			Data_description	Exponential term amplitude	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	Ax, Ay, Az	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
264		Exponential_time_constant	H5T_IEEE_F64LE	3				Data_description	Exponential term time constant	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Unit	day	H5T_C_S1	
265		Long_period	H5T_IEEE_F64LE	3				Data_description	Long round period	H5T_C_S1	
								Epoch_time	20000101	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Unit	day	H5T_C_S1	
266		Long_fourier_coef	H5T_IEEE_F64LE	3	6	8		Data_description	Fourier series coefficient (Long round period)	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	ax, bx, ay, by, az, bz	H5T_C_S1	
								Dim2	degree1-degree8	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
267		Orbit_period	H5T_IEEE_F64LE	3				Data_description	Orbit period	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Unit	min	H5T_C_S1	
268		Orbit_fourier_coef	H5T_IEEE_F64LE	3	6	8		Data_description	Fourier series coefficient (Orbit period)	H5T_C_S1	
								Dim0	Left, Nadir, Right	H5T_C_S1	
								Dim1	ax, bx, ay, by, az, bz	H5T_C_S1	
								Dim2	degree1-degree8	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
269		Geo_opt_L	H5T_IEEE_F64LE	11	2	6		Data_description	CCD sensor vector parameter (Left)	H5T_C_S1	
								Dim0	VN10(S01),VN07(S02),VN06(S03),VN04(S04),VN02(S05),VN01(S06),VN03(S07),VN05(S08),VN08(S09),VN11(S10),VN09(S11)	H5T_C_S1	
								Dim1	theta-x, theta-y	H5T_C_S1	
								Dim2	A0-A5	H5T_C_S1	
								Unit	N/A	H5T_C_S1	

B

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
270		Geo_opt_N	H5T_IEEE_F64LE	11	2	6		Data_description	CCD sensor vector parameter (Nadir)	H5T_C_S1	
								Dim0	VN10(S01),VN07(S02),VN06(S03),VN04(S04),VN02(S05),VN01(S06),VN03(S07),VN05(S08),VN08(S09),VN11(S10),VN09(S11)	H5T_C_S1	
								Dim1	theta-x, theta-y	H5T_C_S1	
								Dim2	A0-A5	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
271		Geo_opt_R	H5T_IEEE_F64LE	11	2	6		Data_description	CCD sensor vector parameter (Right)	H5T_C_S1	
								Dim0	VN10(S01),VN07(S02),VN06(S03),VN04(S04),VN02(S05),VN01(S06),VN03(S07),VN05(S08),VN08(S09),VN11(S10),VN09(S11)	H5T_C_S1	
								Dim1	theta-x, theta-y	H5T_C_S1	
								Dim2	A0-A5	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
272	Earth_rotation_parameter	Polar_motion	H5T_IEEE_F64LE	2				Data_description	Polar motion parameter	H5T_C_S1	
								Dim0	dx, dy	H5T_C_S1	
								Unit	sec of arc	H5T_C_S1	
273		UT1-UTC	H5T_IEEE_F32LE	1				Data_description	UT1-UTC	H5T_C_S1	
								Unit	sec	H5T_C_S1	
274		Precession_nutation	H5T_IEEE_F64LE	2				Data_description	Precession and nutation parameter	H5T_C_S1	
								Dim0	dpsi, deps	H5T_C_S1	
								Unit	msec of arc	H5T_C_S1	
275	Extended_area	Stray_sign_flag_1km	H5T_STD_U16LE	1854	1250			Data_description	Resampled stray sign flag. Set 1 When the line is lack.	H5T_C_S1	
								Bit00(LSB)	VN01 0 : Sign of stray light quantity is positive (or zero) 1 : Sign of stray light quantity is negative	H5T_C_S1	
								Bit01	VN02 0 : Sign of stray light quantity is positive (or zero) 1 : Sign of stray light quantity is negative	H5T_C_S1	
								Bit02	VN03 0 : Sign of stray light quantity is positive (or zero) 1 : Sign of stray light quantity is negative	H5T_C_S1	
								Bit03	VN04 0 : Sign of stray light quantity is positive (or zero) 1 : Sign of stray light quantity is negative	H5T_C_S1	
								Bit04	VN05 0 : Sign of stray light quantity is positive (or zero) 1 : Sign of stray light quantity is negative	H5T_C_S1	
								Bit05	VN06 0 : Sign of stray light quantity is positive (or zero) 1 : Sign of stray light quantity is negative	H5T_C_S1	
								Bit06	VN07 0 : Sign of stray light quantity is positive (or zero) 1 : Sign of stray light quantity is negative	H5T_C_S1	
								Bit07	VN08 0 : Sign of stray light quantity is positive (or zero) 1 : Sign of stray light quantity is negative	H5T_C_S1	
								Bit08	VN09 0 : Sign of stray light quantity is positive (or zero) 1 : Sign of stray light quantity is negative	H5T_C_S1	
								Bit09	VN10 0 : Sign of stray light quantity is positive (or zero) 1 : Sign of stray light quantity is negative	H5T_C_S1	
								Bit10	VN11 0 : Sign of stray light quantity is positive (or zero) 1 : Sign of stray light quantity is negative	H5T_C_S1	
								Dim0	L1B-lines(1km)	H5T_C_S1	
								Dim1	L1B-pixels(1km)	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
	Global_attributes	—	—	—	—	—	—	Product_file_name	GC1SG1_201305201801_12302_1BSG_POLDK_1001.h5	H5T_C_S1	
		—	—	—	—	—	—	Mission_characteristics	Nominal orbit:inclination = 98.6(Sun-Synchronous); node = 10:15-10:45 AM(descending); eccentricity < 0.0012; altitude = 798km; ground speed = 6.6km/sec; revolutions per day =14+9/34	H5T_C_S1	
		—	—	—	—	—	—	Sensor	Second-generation Global Imager (SGLI)	H5T_C_S1	
		—	—	—	—	—	—	Product_version	0002	H5T_C_S1	
		—	—	—	—	—	—	Algorithm_developer	Japan Aerospace Exploration Agency (JAXA)	H5T_C_S1	
		—	—	—	—	—	—	Dataset_description	Top of atmosphere radiance (reflectance) at PL01-PL02	H5T_C_S1	
		—	—	—	—	—	—	Product_name	Top of atmosphere radiance (reflectance)	H5T_C_S1	
		—	—	—	—	—	—	Algorithm_version	0.10	H5T_C_S1	
		—	—	—	—	—	—	Parameter_version	002.00	H5T_C_S1	
		—	—	—	—	—	—	Satellite	Global Change Observation Mission - Climate (GCOM-C)	H5T_C_S1	
		—	—	—	—	—	—	Product_level	Level-1B	H5T_C_S1	
		—	—	—	—	—	—	Scene_start_time	20030320 23:28:39.823	H5T_C_S1	
		—	—	—	—	—	—	Scene_end_time	20030320 23:32:49.287	H5T_C_S1	
		—	—	—	—	—	—	Scene_center_time	20030320 23:30:44.555	H5T_C_S1	
		—	—	—	—	—	—	Scene_start_index	3356	H5T_STD_I32LE	
		—	—	—	—	—	—	Scene_end_index	5211	H5T_STD_I32LE	
		—	—	—	—	—	—	Ascending_node_crossing_time	20030320 23:42:23.000	H5T_C_S1	
		—	—	—	—	—	—	Total_orbit_number	12345	H5T_STD_I32LE	
		—	—	—	—	—	—	RSP_path_number	123	H5T_STD_I32LE	
		—	—	—	—	—	—	Scene_number	2	H5T_STD_I32LE	
		—	—	—	—	—	—	Orbit_direction	Ascending	H5T_C_S1	
		—	—	—	—	—	—	Maneuver_status	Include	H5T_C_S1	
		—	—	—	—	—	—	Start_argument_of_latitude	1	H5T_IEEE_F32LE	
		—	—	—	—	—	—	End_argument_of_latitude	15	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Lines_per_scan	1, 1, 1, 1, 1, 1	H5T_STD_I32LE_[6]	
		—	—	—	—	—	—	Stored_channels	PL01(+60), PL01(0), PL01(-60), PL02(+60), PL02(0), PL02(-60)	H5T_C_S1	
		—	—	—	—	—	—	Missing_lines	0, 0, 0, 0, 0, 0	H5T_STD_I32LE_[6]	
		—	—	—	—	—	—	Missing_lines_rate	0.0, 0.0, 0.0, 0.0, 0.0, 0.0	H5T_IEEE_F32LE_[6]	
		—	—	—	—	—	—	Saturated_pixels_rate	0.0, 0.0, 0.0, 0.0, 0.0, 0.0	H5T_IEEE_F32LE_[6]	Calculation method of the saturation pixel rate is the same as VNR-NP. Saturation threshold value of the Spectral radiance is processing parameter for each band.
		—	—	—	—	—	—	Abnormal_positions_rate	0.0	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Abnormal_velocities_rate	0.0	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Abnormal_attitudes_rate	0.0	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Representative_channel	PL01(-60)	H5T_C_S1	
		—	—	—	—	—	—	Geometric_information_error_rate	0.0, 0.0, 0.0, 0.0, 0.0, 0.0	H5T_IEEE_F32LE_[6]	
		—	—	—	—	—	—	Stray_light_corrected_pixels_rate	0.0, 0.0, 0.0, 0.0, 0.0, 0.0	H5T_IEEE_F32LE_[6]	
		—	—	—	—	—	—	Radiance_error_pixels_rate	0.0, 0.0, 0.0, 0.0, 0.0, 0.0	H5T_IEEE_F32LE_[6]	
		—	—	—	—	—	—	Stripe_correction	1, 1, 1, 1, 1, 1	H5T_STD_U32LE_[6]	Stripe correction 1: Execute 0: Not execute
		—	—	—	—	—	—	L1B_line_sample_interval	dt=147.1734msec (1km)	H5T_C_S1	
		—	—	—	—	—	—	Orbital_period	6057sec	H5T_C_S1	
		—	—	—	—	—	—	Individual_quality_info	GGGGGGGGGGGGGGGGGGG	H5T_C_S1	G : Good P : Poor F : Fair N : NG
		—	—	—	—	—	—	Quality_judge_line	0	H5T_STD_I32LE	
	Processing_attributes	—	—	—	—	—	—	Contact_point	JAXA/GCOM project team	H5T_C_S1	
		—	—	—	—	—	—	Input_files		H5T_C_S1	In the case of the reprocessed product using L1A product as input, L1A product name is stored.
		—	—	—	—	—	—	Processing_UT	20120813 01:30:35	H5T_C_S1	
		—	—	—	—	—	—	Processing_result	Good	H5T_C_S1	
		—	—	—	—	—	—	Processing_result_description	Good, Fair, Poor, NG	H5T_C_S1	
		—	—	—	—	—	—	Processing_organization	JAXA/GCOM-C project	H5T_C_S1	
	Geometry_data	—	—	—	—	—	—	Number_of_lines	27680	H5T_STD_I32LE	
		—	—	—	—	—	—	Number_of_pixels	1000	H5T_STD_I32LE	
		—	—	—	—	—	—	Image_projection	L1B reference grid	H5T_C_S1	
		—	—	—	—	—	—	Grid_interval	1000	H5T_IEEE_F32LE	
		—						Grid_interval_unit	meter	H5T_C_S1	
		—	—	—	—	—	—	Latitude_unit	degree North	H5T_C_S1	
		—	—	—	—	—	—	Longitude_unit	degree East	H5T_C_S1	
		—	—	—	—	—	—	Upper_left_longitude	-54.7393	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Upper_left_latitude	76.5564	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Upper_right_longitude	-98.6684	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Upper_right_latitude	69.316	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Lower_left_longitude	-13.2125	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Lower_left_latitude	-69.8772	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Lower_right_longitude	-61.0351	H5T_IEEE_F32LE	
		—	—	—	—	—	—	Lower_right_latitude	-77.8127	H5T_IEEE_F32LE	

B

B

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
1		ECR_position_P1_m60	H5T_IEEE_F64LE	27680	3	3		Data_description	ECR position at sampling column addresses of 50, 500, and 950 with respect to P01 -60	H5T_C_S1	
								Unit	km	H5T_C_S1	
								Resampling_interval	1	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	XYZ	H5T_C_S1	
								Minimum_valid_value	-7200	H5T_IEEE_F64LE	
								Maximum_valid_value	7200	H5T_IEEE_F64LE	
								Error_value	-9999	H5T_IEEE_F64LE	
2		ECR_position_P2_m60	H5T_IEEE_F64LE	27680	3	3		Data_description	ECR position at sampling column addresses of 50, 500, and 950 with respect to P02 -60	H5T_C_S1	
								Unit	km	H5T_C_S1	
								Resampling_interval	1	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	XYZ	H5T_C_S1	
								Minimum_valid_value	-7200	H5T_IEEE_F64LE	
								Maximum_valid_value	7200	H5T_IEEE_F64LE	
								Error_value	-9999	H5T_IEEE_F64LE	
3		ECR_position_P1_0	H5T_IEEE_F64LE	27680	3	3		Data_description	ECR position at sampling column addresses of 50, 500, and 950 with respect to P01 +/-0	H5T_C_S1	
								Unit	km	H5T_C_S1	
								Resampling_interval	1	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	XYZ	H5T_C_S1	
								Minimum_valid_value	-7200	H5T_IEEE_F64LE	
								Maximum_valid_value	7200	H5T_IEEE_F64LE	
								Error_value	-9999	H5T_IEEE_F64LE	
4		ECR_position_P2_0	H5T_IEEE_F64LE	27680	3	3		Data_description	ECR position at sampling column addresses of 50, 500, and 950 with respect to P02 +/-0	H5T_C_S1	
								Unit	km	H5T_C_S1	
								Resampling_interval	1	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	XYZ	H5T_C_S1	
								Minimum_valid_value	-7200	H5T_IEEE_F64LE	
								Maximum_valid_value	7200	H5T_IEEE_F64LE	
								Error_value	-9999	H5T_IEEE_F64LE	
5		ECR_position_P1_p60	H5T_IEEE_F64LE	27680	3	3		Data_description	ECR position at sampling column addresses of 50, 500, and 950 with respect to P01 +60	H5T_C_S1	
								Unit	km	H5T_C_S1	
								Resampling_interval	1	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	XYZ	H5T_C_S1	
								Minimum_valid_value	-7200	H5T_IEEE_F64LE	
								Maximum_valid_value	7200	H5T_IEEE_F64LE	
								Error_value	-9999	H5T_IEEE_F64LE	
6		ECR_position_P2_p60	H5T_IEEE_F64LE	27680	3	3		Data_description	ECR position at sampling column addresses of 50, 500, and 950 with respect to P02 +60	H5T_C_S1	
								Unit	km	H5T_C_S1	
								Resampling_interval	1	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	XYZ	H5T_C_S1	
								Minimum_valid_value	-7200	H5T_IEEE_F64LE	
								Maximum_valid_value	7200	H5T_IEEE_F64LE	
								Error_value	-9999	H5T_IEEE_F64LE	
7		Latitude	H5T_IEEE_F32LE	27680	1000			Data_description	Latitude (degree)	H5T_C_S1	
								Unit	degree	H5T_C_S1	
								Slope	1	H5T_IEEE_F32LE	
								Offset	0	H5T_IEEE_F32LE	
								Resampling_interval	1	H5T_STD_I32LE	
								Resampling_interval_unit	pixel	H5T_C_S1	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Pixel grids	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32LE	
								Maximum_valid_value	90	H5T_IEEE_F32LE	
								Error_value	-999	H5T_IEEE_F32LE	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
8		Longitude	H5T_IEEE_F32LE	27680	1000			Data_description	Longitude (degree) Minimum_valid_value < value <= Maximum_valid_value	H5T_C_S1	
								Unit	degree	H5T_C_S1	
								Slope	1	H5T_IEEE_F32LE	
								Offset	0	H5T_IEEE_F32LE	
								Resampling_interval	1	H5T_STD_I32LE	
								Resampling_interval_unit	pixel	H5T_C_S1	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Pixel grids	H5T_C_S1	
								Minimum_valid_value	-180	H5T_IEEE_F32LE	
								Maximum_valid_value	180	H5T_IEEE_F32LE	
								Error_value	-999	H5T_IEEE_F32LE	
9		Matrix_OPT_to_ECR_P1_m60	H5T_IEEE_F64LE	27680	3	9		Data_description	Coordinates transformation matrix from OPT to ECR at sampling column addresses of 50, 500, and 950 with respect to P01 -60	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
								Resampling_interval	1	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Minimum_valid_value	-1	H5T_IEEE_F64LE	
								Maximum_valid_value	1	H5T_IEEE_F64LE	
								Error_value	-999	H5T_IEEE_F64LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	elements of 3x3 matrix (line x column)	H5T_C_S1	
10		Matrix_OPT_to_ECR_P2_m60	H5T_IEEE_F64LE	27680	3	9		Data_description	Coordinates transformation matrix from OPT to ECR at sampling column addresses of 50, 500, and 950 with respect to P02 -60	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
								Resampling_interval	1	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Minimum_valid_value	-1	H5T_IEEE_F64LE	
								Maximum_valid_value	1	H5T_IEEE_F64LE	
								Error_value	-999	H5T_IEEE_F64LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	elements of 3x3 matrix (line x column)	H5T_C_S1	
11		Matrix_OPT_to_ECR_P1_0	H5T_IEEE_F64LE	27680	3	9		Data_description	Coordinates transformation matrix from OPT to ECR at sampling column addresses of 50, 500, and 950 with respect to P01 +/-0	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
								Resampling_interval	1	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Minimum_valid_value	-1	H5T_IEEE_F64LE	
								Maximum_valid_value	1	H5T_IEEE_F64LE	
								Error_value	-999	H5T_IEEE_F64LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	elements of 3x3 matrix (line x column)	H5T_C_S1	
12		Matrix_OPT_to_ECR_P2_0	H5T_IEEE_F64LE	27680	3	9		Data_description	Coordinates transformation matrix from OPT to ECR at sampling column addresses of 50, 500, and 950 with respect to P02 +/-0	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
								Resampling_interval	1	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Minimum_valid_value	-1	H5T_IEEE_F64LE	
								Maximum_valid_value	1	H5T_IEEE_F64LE	
								Error_value	-999	H5T_IEEE_F64LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	elements of 3x3 matrix (line x column)	H5T_C_S1	
13		Matrix_OPT_to_ECR_P1_p60	H5T_IEEE_F64LE	27680	3	9		Data_description	Coordinates transformation matrix from OPT to ECR at sampling column addresses of 50, 500, and 950 with respect to P01 +60	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Resampling_interval	1	H5T_STD_I32LE	
								Minimum_valid_value	-1	H5T_IEEE_F64LE	
								Maximum_valid_value	1	H5T_IEEE_F64LE	
								Error_value	-999	H5T_IEEE_F64LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	elements of 3x3 matrix (line x column)	H5T_C_S1	
14		Matrix_OPT_to_ECR_P2_p60	H5T_IEEE_F64LE	27680	3	9		Data_description	Coordinates transformation matrix from OPT to ECR at sampling column addresses of 50, 500, and 950 with respect to P02 +60	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
								Resampling_interval	1	H5T_STD_I32LE	
								Resampling_interval_unit	pixel(line)	H5T_C_S1	
								Minimum_valid_value	-1	H5T_IEEE_F64LE	
								Maximum_valid_value	1	H5T_IEEE_F64LE	
								Error_value	-999	H5T_IEEE_F64LE	
								Dim0	Line grids	H5T_C_S1	
								Dim1	Sampling column address	H5T_C_S1	
								Dim2	elements of 3x3 matrix (line x column)	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks	
15		Obs_time	H5T_STD_I16LE	27680	1000			Data_description	Observation time (hour)	H5T_C_S1	Elapsed time from the starting date (Observation start date 00:00:00 of Granule ID) in UTC.	
								Unit	hour	H5T_C_S1		
								Slope	0.001	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	1	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
16		Obs_time_P1_m60	H5T_STD_I16LE	27680	1000			Data_description	Observation time of PI01	H5T_C_S1	Elapsed time from the starting date (Observation start date 00:00:00 of Granule ID) in UTC.	
								Unit	hour	H5T_C_S1		
								Slope	0.001	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	1	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
17		Obs_time_P2_m60	H5T_STD_I16LE	27680	1000			Data_description	Observation time of PI02	H5T_C_S1	Elapsed time from the starting date (Observation start date 00:00:00 of Granule ID) in UTC.	
								Unit	hour	H5T_C_S1		
								Slope	0.001	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	1	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
18		Obs_time_P1_0	H5T_STD_I16LE	27680	1000			Data_description	Observation time of PQ01	H5T_C_S1	Elapsed time from the starting date (Observation start date 00:00:00 of Granule ID) in UTC.	
								Unit	hour	H5T_C_S1		
								Slope	0.001	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	1	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
19		Obs_time_P2_0	H5T_STD_I16LE	27680	1000			Data_description	Observation time of PQ02	H5T_C_S1	Elapsed time from the starting date (Observation start date 00:00:00 of Granule ID) in UTC.	
								Unit	hour	H5T_C_S1		
								Slope	0.001	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	1	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
20		Obs_time_P1_p60	H5T_STD_I16LE	27680	1000			Data_description	Observation time of PU01	H5T_C_S1	Elapsed time from the starting date (Observation start date 00:00:00 of Granule ID) in UTC.	
								Unit	hour	H5T_C_S1		
								Slope	0.001	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	1	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks	
21		Obs_time_P2_p60	H5T_STD_I16LE	27680	1000			Data_description	Observation time of PU02	H5T_C_S1	Elapsed time from the starting date (Observation start date 00:00:00 of Granule ID) in UTC.	
								Unit	hour	H5T_C_S1		
								Slope	0.001	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	1	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
22		Sensor_azimuth	H5T_STD_I16LE	27680	1000			Data_description	Sensor azimuth angle (Clockwize from the North)	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	1	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
23		Sensor_azimuth_P1_m60	H5T_STD_I16LE	27680	1000			Data_description	Sensor azimuth angle of PI01	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	1	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
24		Sensor_azimuth_P2_m60	H5T_STD_I16LE	27680	1000			Data_description	Sensor azimuth angle of PI02	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	1	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
25		Sensor_azimuth_P1_0	H5T_STD_I16LE	27680	1000			Data_description	Sensor azimuth angle of PQ01	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	1	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
26		Sensor_azimuth_P2_0	H5T_STD_I16LE	27680	1000			Data_description	Sensor azimuth angle of PQ02	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	1	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
27		Sensor_azimuth_P1_p60	H5T_STD_I16LE	27680	1000			Data_description	Sensor azimuth angle of PU01	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	1	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks	
28		Sensor_azimuth_P2_p60	H5T_STD_I16LE	27680	1000			Data_description	Sensor azimuth angle of PU02	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	1	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
29		Sensor_zenith	H5T_STD_I16LE	27680	1000			Data_description	Sensor zenith angle (from the local zenith)	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	1	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
30		Sensor_zenith_P1_m60	H5T_STD_I16LE	27680	1000			Data_description	Sensor zenith angle of PI01	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	1	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
31		Sensor_zenith_P2_m60	H5T_STD_I16LE	27680	1000			Data_description	Sensor zenith angle of PI02	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	1	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
32		Sensor_zenith_P1_0	H5T_STD_I16LE	27680	1000			Data_description	Sensor zenith angle of PQ01	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	1	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
33		Sensor_zenith_P2_0	H5T_STD_I16LE	27680	1000			Data_description	Sensor zenith angle of PQ02	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	1	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
34		Sensor_zenith_P1_p60	H5T_STD_I16LE	27680	1000			Data_description	Sensor zenith angle of PU01	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	1	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks	
35		Sensor_zenith_P2_p60	H5T_STD_I16LE	27680	1000			Data_description	Sensor zenith angle of PU02	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	1	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
36		Solar_azimuth	H5T_STD_I16LE	27680	1000			Data_description	Solar azimuth angle (Clockwize from the North)	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	1	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
37		Solar_zenith	H5T_STD_I16LE	27680	1000			Data_description	Solar zenith angle (from the local zenith)	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	1	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
38		Tilt_angle	H5T_IEEE_F32LE	27680				Data_description	Tilt angle for each L1B line (degree)	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	1	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Resampling_interval	1	H5T_IEEE_F32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Dim0	Line grids	H5T_C_S1		
								Minimum_valid_value	-90	H5T_IEEE_F32LE		
								Maximum_valid_value	90	H5T_IEEE_F32LE		
								Error_value	-999	H5T_IEEE_F32LE		
	Image_data	—	—	—	—	—	—	Number_of_lines	27680	H5T_STD_I32LE		
		—	—	—	—	—	—	Number_of_pixels	1000	H5T_STD_I32LE		
		—	—	—	—	—	—	Image_projection	L1B reference grid	H5T_C_S1		
		—	—	—	—	—	—	Grid_interval	1000	H5T_IEEE_F32LE		
		—	—	—	—	—	—	Grid_interval_unit	meter	H5T_C_S1		
39		Line_msec	H5T_STD_I32LE	27680				Data_description	Day millisecond at each line (UTC)	H5T_C_S1	Elapsed time from the starting date (Observation start date 00:00:00 of Granule ID) in UTC.	
								Unit	millisecond	H5T_C_S1		
								Slope	1	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Dim0	L1B-lines	H5T_C_S1		
								Minimum_valid_DN	-2147483647	H5T_STD_I32LE		
								Maximum_valid_DN	2147483647	H5T_STD_I32LE		
								Error_DN	2147483648	H5T_STD_I32LE		B
40		Line_tai93	H5T_IEEE_F64LE	27680				Data_description	TAI93 at each line	H5T_C_S1		
								Dim0	L1B-lines	H5T_C_S1		
								Error_value	-1.0	H5T_IEEE_F64LE		
								Maximum_valid_value	9.99999999E8	H5T_IEEE_F64LE		
								Minimum_valid_value	0.0	H5T_IEEE_F64LE		
								Unit	second	H5T_C_S1		

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
41		Lt_PI01	H5T_STD_U16LE	27680	1000			Data_description	TOA radiance of P01 I component: Lt[W/m^2/sr/um]=(DN&Mask)*Slope+Offset; TOA reflectance of P01 I component: rt[Lt*pi/(F0/d^2)]=(DN&Mask)*Slope_reflectance+Offset_reflectance Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Mask	65535	H5T_STD_U16LE	
								Bit00(LSB)-15	Digital Number 65535 : Missing value 65534 : Saturation value	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.00661397	H5T_IEEE_F32LE	
								Offset	-66.22	H5T_IEEE_F32LE	
								Spatial_resolution	1000	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65534	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	673.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	367.22	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1503.605	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Slope_reflectance	1.81121E-05	H5T_IEEE_F32LE	
								Offset_reflectance	0	H5T_IEEE_F32LE	
42		Lt_PI02	H5T_STD_U16LE	27680	1000			Data_description	TOA radiance of P02 I component: Lt[W/m^2/sr/um]=(DN&Mask)*Slope+Offset; TOA reflectance of P02 I component: rt[Lt*pi/(F0/d^2)]=(DN&Mask)*Slope_reflectance+Offset_reflectance Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Mask	65535	H5T_STD_U16LE	
								Bit00(LSB)-15	Digital Number 65535 : Missing value 65534 : Saturation value	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.00893582	H5T_IEEE_F32LE	
								Offset	-89.46667	H5T_IEEE_F32LE	
								Spatial_resolution	1000	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65534	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	868.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	300.72	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	956.8333	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Slope_reflectance	0.000034128	H5T_IEEE_F32LE	
								Offset_reflectance	0	H5T_IEEE_F32LE	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
43		Lt_PQ01	H5T_STD_U16LE	27680	1000			Data_description	TOA radiance of P01 Q component: Lt[W/m^2/sr/um]=(DN&Mask)*Slope+Offset; TOA reflectance of P01 Q component: rt[Lt*pi/(F0/d^2)]=(DN&Mask)*Slope_reflectance+Offset_reflectance Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Mask	65535	H5T_STD_U16LE	
								Bit00(LSB)-15	Digital Number 65535 : Missing value 65534 : Saturation value	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.00917753	H5T_IEEE_F32LE	
								Offset	-300.72	H5T_IEEE_F32LE	
								Spatial_resolution	1000	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65534	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	673.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	300.72	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1503.605	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Slope_reflectance	9.05605E-06	H5T_IEEE_F32LE	
								Offset_reflectance	0	H5T_IEEE_F32LE	
44		Lt_PQ02	H5T_STD_U16LE	27680	1000			Data_description	TOA radiance of P02 Q component: Lt[W/m^2/sr/um]=(DN&Mask)*Slope+Offset; TOA reflectance of P02 Q component: rt[Lt*pi/(F0/d^2)]=(DN&Mask)*Slope_reflectance+Offset_reflectance Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Mask	65535	H5T_STD_U16LE	
								Bit00(LSB)-15	Digital Number 65535 : Missing value 65534 : Saturation value	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.01235878	H5T_IEEE_F32LE	
								Offset	-404.96	H5T_IEEE_F32LE	
								Spatial_resolution	1000	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65534	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	868.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	496.1333333	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	956.8333	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Slope_reflectance	1.68951E-05	H5T_IEEE_F32LE	
								Offset_reflectance	0	H5T_IEEE_F32LE	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
45		Lt_PU01	H5T_STD_U16LE	27680	1000			Data_description	TOA radiance of P01 U component: Lt[W/m^2/sr/um]=(DN&Mask)*Slope+Offset; TOA reflectance of P01 U component: rt[Lt*pi/(F0/d^2)]=(DN&Mask)*Slope_reflectance+Offset_reflectance Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Mask	65535	H5T_STD_U16LE	
								Bit00(LSB)-15	Digital Number 65535 : Missing value 65534 : Saturation value	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.00917753	H5T_IEEE_F32LE	
								Offset	-300.72	H5T_IEEE_F32LE	
								Spatial_resolution	1000	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65534	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	673.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	404.96	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1503.605	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Slope_reflectance	9.05605E-06	H5T_IEEE_F32LE	
								Offset_reflectance	0	H5T_IEEE_F32LE	
46		Lt_PU02	H5T_STD_U16LE	27680	1000			Data_description	TOA radiance of P02 U component: Lt[W/m^2/sr/um]=(DN&Mask)*Slope+Offset; TOA reflectance of P02 U component: rt[Lt*pi/(F0/d^2)]=(DN&Mask)*Slope_reflectance+Offset_reflectance Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Mask	65535	H5T_STD_U16LE	
								Bit00(LSB)-15	Digital Number 65535 : Missing value 65534 : Saturation value	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.01235878	H5T_IEEE_F32LE	
								Offset	-404.96	H5T_IEEE_F32LE	
								Spatial_resolution	1000	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65534	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Saturation_radiance	404.96	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	956.8333	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Slope_reflectance	1.68951E-05	H5T_IEEE_F32LE	
								Offset_reflectance	0	H5T_IEEE_F32LE	
47		QA_flag	H5T_STD_U16LE	27680	1000			Data_description	Quality flag of each pixels	H5T_C_S1	
								Bit00(LSB)	channel integrity 0 : Not integrity 1 : Integrity	H5T_C_S1	
								Bit01	vnr-pol tilt-driving 0 : Not tilt-driving 1 : Tilt-driving	H5T_C_S1	
								Unit	NA	H5T_C_S1	
								Slope	1	H5T_IEEE_F32LE	
								Offset	0	H5T_IEEE_F32LE	
								Spatial_resolution	1000	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65534	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
48		Land_water_flag	H5T_STD_U8LE	27680	1000			Data_description	Rate of land at each pixel (With elevation correction) 0 : water 100 : land	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Minimum_valid_value	0	H5T_STD_U8LE	
								Maximum_valid_value	100	H5T_STD_U8LE	
								Error_value	255	H5T_STD_U8LE	
								Altitude_correction	yes	H5T_C_S1	
49		Lt_P1_m60	H5T_STD_U16LE	27680	1000			Band_weighted_TOA_solar_irradiance	1503.605	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	673.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Data_description	TOA radiance of P01 -60degree: Lt[W/m^2/sr/um]=(DN&Mask)*Slope+Offset; TOA reflectance of P01 -60degree: rt[Lt*pi/(F0/d^2)]=(DN&Mask)*Slope_reflectance+Offset_reflectance Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Mask	16383	H5T_STD_U16LE	
								Bit00(LSB)-13	Digital Number 16383 : Missing value 16382 : Saturation value	H5T_C_S1	
								Bit14	Stray light correction sign flag (delta_L = Ltrue - Lobs) 0:Sign of the amount of stray light correction is positive (or zero) 1:Sign of the amount of stray light correction is negative	H5T_C_S1	
								Bit15(MSB)	Stray light correction flag 0 : Stray light is uncorrected 1 : Stray light is corrected	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Error_DN	65535	H5T_STD_U16LE	
								Maximum_valid_DN	65533	H5T_STD_I32LE	
								Minimum_valid_DN	0	H5T_STD_I32LE	
								Offset	-29.5	H5T_IEEE_F32LE	
								Offset_reflectance	0.0	H5T_IEEE_F32LE	
								Saturation_radiance	324.5	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.02160908	H5T_IEEE_F32LE	
								Slope_reflectance	0.0	H5T_IEEE_F32LE	
								Spatial_resolution	1000.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
50		Lt_P1_0	H5T_STD_U16LE	27680	1000			Band_weighted_TOA_solar_irradiance	1503.605	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	673.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Data_description	TOA radiance of P01 0degree: Lt[W/m^2/sr/um]=(DN&Mask)*Slope+Offset; TOA reflectance of P01 0degree: rt[Lt*pi/(F0/d^2)]=(DN&Mask)*Slope_reflectance+Offset_reflectance Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Mask	16383	H5T_STD_U16LE	
								Bit00(LSB)-13	Digital Number 16383 : Missing value 16382 : Saturation value	H5T_C_S1	
								Bit14	Stray light correction sign flag (delta_L = Ltrue - Lobs) 0:Sign of the amount of stray light correction is positive (or zero) 1:Sign of the amount of stray light correction is negative	H5T_C_S1	
								Bit15(MSB)	Stray light correction flag 0 : Stray light is uncorrected 1 : Stray light is corrected	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Error_DN	65535	H5T_STD_U16LE	
								Maximum_valid_DN	65533	H5T_STD_I32LE	
								Minimum_valid_DN	0	H5T_STD_I32LE	
								Offset	-31.5	H5T_IEEE_F32LE	
								Offset_reflectance	0.0	H5T_IEEE_F32LE	
								Saturation_radiance	346.5	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.02307411	H5T_IEEE_F32LE	
								Slope_reflectance	0.0	H5T_IEEE_F32LE	
								Spatial_resolution	1000.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
51		Lt_P1_p60	H5T_STD_U16LE	27680	1000			Band_weighted_TOA_solar_irradiance	1503.605	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	673.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Data_description	TOA radiance of P01 60degree: Lt[W/m^2/sr/um]=(DN&Mask)*Slope+Offset; TOA reflectance of P01 60degree: rt[Lt*pi/(F0/d^2)]=(DN&Mask)*Slope_reflectance+Offset_reflectance Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Mask	16383	H5T_STD_U16LE	
								Bit00(LSB)-13	Digital Number 16383 : Missing value 16382 : Saturation value	H5T_C_S1	
								Bit14	Stray light correction sign flag (delta_L = Ltrue - Lobs) 0:Sign of the amount of stray light correction is positive (or zero) 1:Sign of the amount of stray light correction is negative	H5T_C_S1	
								Bit15(MSB)	Stray light correction flag 0 : Stray light is uncorrected 1 : Stray light is corrected	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Error_DN	65535	H5T_STD_U16LE	
								Maximum_valid_DN	65533	H5T_STD_I32LE	
								Minimum_valid_DN	0	H5T_STD_I32LE	
								Offset	-29.3	H5T_IEEE_F32LE	
								Offset_reflectance	0.0	H5T_IEEE_F32LE	
								Saturation_radiance	322.3	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.02146258	H5T_IEEE_F32LE	
								Slope_reflectance	0.0	H5T_IEEE_F32LE	
								Spatial_resolution	1000.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
52		Lt_P2_m60	H5T_STD_U16LE	27680	1000			Band_weighted_TOA_solar_irradiance	956.8333	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	868.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Data_description	TOA radiance of P02 -60degree: Lt[W/m^2/sr/um]=(DN&Mask)*Slope+Offset; TOA reflectance of P02 -60degree: rt[Lt*pi/(F0/d^2)]=(DN&Mask)*Slope_reflectance+Offset_reflectance Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Mask	16383	H5T_STD_U16LE	
								Bit00(LSB)-13	Digital Number 16383 : Missing value 16382 : Saturation value	H5T_C_S1	
								Bit14	Stray light correction sign flag (delta_L = Ltrue - Lobs) 0:Sign of the amount of stray light correction is positive (or zero) 1:Sign of the amount of stray light correction is negative	H5T_C_S1	
								Bit15(MSB)	Stray light correction flag 0 : Stray light is uncorrected 1 : Stray light is corrected	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Error_DN	65535	H5T_STD_U16LE	
								Maximum_valid_DN	65533	H5T_STD_I32LE	
								Minimum_valid_DN	0	H5T_STD_I32LE	
								Offset	-39.6	H5T_IEEE_F32LE	
								Offset_reflectance	0.0	H5T_IEEE_F32LE	
								Saturation_radiance	435.6	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.02900745	H5T_IEEE_F32LE	
								Slope_reflectance	0.0	H5T_IEEE_F32LE	
								Spatial_resolution	1000.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
53		Lt_P2_0	H5T_STD_U16LE	27680	1000			Band_weighted_TOA_solar_irradiance	956.8333	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	868.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Data_description	TOA radiance of P02 0degree: Lt[W/m^2/sr/um]=(DN&Mask)*Slope+Offset; TOA reflectance of P02 0degree: rt[Lt*pi/(F0/d^2)]=(DN&Mask)*Slope_reflectance+Offset_reflectance Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Mask	16383	H5T_STD_U16LE	
								Bit00(LSB)-13	Digital Number 16383 : Missing value 16382 : Saturation value	H5T_C_S1	
								Bit14	Stray light correction sign flag (delta_L = Ltrue - Lobs) 0:Sign of the amount of stray light correction is positive (or zero) 1:Sign of the amount of stray light correction is negative	H5T_C_S1	
								Bit15(MSB)	Stray light correction flag 0 : Stray light is uncorrected 1 : Stray light is corrected	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Error_DN	65535	H5T_STD_U16LE	
								Maximum_valid_DN	65533	H5T_STD_I32LE	
								Minimum_valid_DN	0	H5T_STD_I32LE	
								Offset	-42.4	H5T_IEEE_F32LE	
								Offset_reflectance	0.0	H5T_IEEE_F32LE	
								Saturation_radiance	466.4	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.03105848	H5T_IEEE_F32LE	
								Slope_reflectance	0.0	H5T_IEEE_F32LE	
								Spatial_resolution	1000.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
54		Lt_P2_p60	H5T_STD_U16LE	27680	1000			Band_weighted_TOA_solar_irradiance	956.8333	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	868.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Data_description	TOA radiance of P02 -60degree: Lt[W/m^2/sr/um]=(DN&Mask)*Slope+Offset; TOA reflectance of P02 -60degree: rt[Lt*pi/(F0/d^2)]=(DN&Mask)*Slope_reflectance+Offset_reflectance Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Mask	16383	H5T_STD_U16LE	
								Bit00(LSB)-13	Digital Number 16383 : Missing value 16382 : Saturation value	H5T_C_S1	
								Bit14	Stray light correction sign flag (delta_L = Ltrue - Lobs) 0:Sign of the amount of stray light correction is positive (or zero) 1:Sign of the amount of stray light correction is negative	H5T_C_S1	
								Bit15(MSB)	Stray light correction flag 0 : Stray light is uncorrected 1 : Stray light is corrected	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Error_DN	65535	H5T_STD_U16LE	
								Maximum_valid_DN	65533	H5T_STD_I32LE	
								Minimum_valid_DN	0	H5T_STD_I32LE	
								Offset	-40.0	H5T_IEEE_F32LE	
								Offset_reflectance	0.0	H5T_IEEE_F32LE	
								Saturation_radiance	440	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.02930045	H5T_IEEE_F32LE	
								Slope_reflectance	0.0	H5T_IEEE_F32LE	
								Spatial_resolution	1000.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
	Level_1_attributes	—	—	—	—	—	—	Operation_mode	OBD	H5T_C_S1	
		—	—	—	—	—	—	Radiometric_calibration	Original	H5T_C_S1	
		—	—	—	—	—	—	Geometric_calibration	Original	H5T_C_S1	
		—	—	—	—	—	—	Number_of_pixels_L1A	857	H5T_STD_I32LE	
		—	—	—	—	—	—	Number_of_lines_L1A	27167	H5T_STD_I32LE	
55		Polynomial_to_L1A_P1_m60_coe	H5T_IEEE_F64LE	2	27680	8		Dim0	to-L1A-pixel, to-L1A-line	H5T_C_S1	
								Dim1	L1B-lines	H5T_C_S1	
								Dim2	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer L1B image coordinates into L1A image coordinates for PI01. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
56		Polynomial_to_L1A_P2_m60_coe	H5T_IEEE_F64LE	2	27680	8		Dim0	to-L1A-pixel, to-L1A-line	H5T_C_S1	
								Dim1	L1B-lines	H5T_C_S1	
								Dim2	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer L1B image coordinates into L1A image coordinates for PI02. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
57		Polynomial_to_L1A_P1_0_coef	H5T_IEEE_F64LE	2	27680	8		Dim0	to-L1A-pixel, to-L1A-line	H5T_C_S1	
								Dim1	L1B-lines	H5T_C_S1	
								Dim2	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer L1B image coordinates into L1A image coordinates for PQ01. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
58		Polynomial_to_L1A_P2_0_coef	H5T_IEEE_F64LE	2	27680	8		Dim0	to-L1A-pixel, to-L1A-line	H5T_C_S1	
								Dim1	L1B-lines	H5T_C_S1	
								Dim2	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer L1B image coordinates into L1A image coordinates for PQ02. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
59		Polynomial_to_L1A_P1_p60_coe	H5T_IEEE_F64LE	2	27680	8		Dim0	to-L1A-pixel, to-L1A-line	H5T_C_S1	
								Dim1	L1B-lines	H5T_C_S1	
								Dim2	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer L1B image coordinates into L1A image coordinates for PU01. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
60		Polynomial_to_L1A_P2_p60_coe	H5T_IEEE_F64LE	2	27680	8		Dim0	to-L1A-pixel, to-L1A-line	H5T_C_S1	
								Dim1	L1B-lines	H5T_C_S1	
								Dim2	coefficients	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer L1B image coordinates into L1A image coordinates for PU02. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
61		Polynomial_to_L1B_P1_m60_coe	H5T_IEEE_F64LE	2	27167	8		Dim0	to-L1B-pixel, to-L1B-line	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer L1B image coordinates into L1A image coordinates for PI01. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
62		Polynomial_to_L1B_P2_m60_coe	H5T_IEEE_F64LE	2	27167	8		Dim0	to-L1B-pixel, to-L1B-line	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer L1B image coordinates into L1A image coordinates for PI02. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
63		Polynomial_to_L1B_P1_0_coef	H5T_IEEE_F64LE	2	27167	8		Dim0	to-L1B-pixel, to-L1B-line	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer L1B image coordinates into L1A image coordinates for PQ01. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
64		Polynomial_to_L1B_P2_0_coef	H5T_IEEE_F64LE	2	27167	8		Dim0	to-L1B-pixel, to-L1B-line	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer L1B image coordinates into L1A image coordinates for PQ02. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
65		Polynomial_to_L1B_P1_p60_coe	H5T_IEEE_F64LE	2	27167	8		Dim0	to-L1B-pixel, to-L1B-line	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer L1B image coordinates into L1A image coordinates for PU01. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
66		Polynomial_to_L1B_P2_p60_coe	H5T_IEEE_F64LE	2	27167	8		Dim0	to-L1B-pixel, to-L1B-line	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer L1B image coordinates into L1A image coordinates for PU02. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
67		Polynomial_to_VNP_coef	H5T_IEEE_F64LE	2	27680	8		Dim0	to-VNP-pixel, to-VNP-time	H5T_C_S1	
								Dim1	L1B-lines	H5T_C_S1	
								Dim2	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1B VPL image coordinates into L1B VNP image pixel and observation time. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Unit	pixel/second	H5T_C_S1	
68	Level_1_attributes	Quaternion_ECR	H5T_IEEE_F32LE	41391	4			Dim0	quaternion records (10Hz)	H5T_C_S1	
								Dim1	x, y, z, w(scalar)	H5T_C_S1	
								Data_description	Quaternion (STT->ECR) in x	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
69		Quaternion_time	H5T_IEEE_F64LE	41391				Data_description	Attitude determination time in TAI93	H5T_C_S1	
								Dim0	quaternion records (10Hz)	H5T_C_S1	
								Unit	second	H5T_C_S1	
70		Sampling_time_L1A	H5T_IEEE_F64LE	27167				Data_description	Sampling time of L1A in TAI93	H5T_C_S1	
								Dim0	L1A-lines	H5T_C_S1	
								Unit	Total seconds from 1993/01/01(TAI) epoch	H5T_C_S1	
71		Satellite_eclipse_time	H5T_IEEE_F64LE	1				Data_description	Satellite eclipse time in TAI93	H5T_C_S1	
								Unit	second	H5T_C_S1	
72		Tilt_angle_L1A	H5T_IEEE_F32LE	27167				Data_description	Tilt angle for each line	H5T_C_S1	
								Dim0	L1A-lines	H5T_C_S1	
								Unit	degree	H5T_C_S1	
73		StripeCorrection_slope_P1_m6	H5T_IEEE_F32LE	857				Dim0	L1A-pixels	H5T_C_S1	Stripe correction OFF: 0.0
								Error_value	-999	H5T_IEEE_F32LE	
74		StripeCorrection_slope_P1_0	H5T_IEEE_F32LE	857				Dim0	L1A-pixels	H5T_C_S1	Stripe correction OFF: 0.0
								Error_value	-999	H5T_IEEE_F32LE	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
75		StripeCorrection_slope_P1_p6	H5T_IEEE_F32LE	857				Dim0	L1A-pixels	H5T_C_S1	Stripe correction OFF: 0.0
								Error_value	-999	H5T_IEEE_F32LE	
76		StripeCorrection_slope_P2_m6	H5T_IEEE_F32LE	857				Dim0	L1A-pixels	H5T_C_S1	Stripe correction OFF: 0.0
								Error_value	-999	H5T_IEEE_F32LE	
77		StripeCorrection_slope_P2_0	H5T_IEEE_F32LE	857				Dim0	L1A-pixels	H5T_C_S1	Stripe correction OFF: 0.0
								Error_value	-999	H5T_IEEE_F32LE	
78		StripeCorrection_slope_P2_p6	H5T_IEEE_F32LE	857				Dim0	L1A-pixels	H5T_C_S1	Stripe correction OFF: 0.0
								Error_value	-999	H5T_IEEE_F32LE	
79		StripeCorrection_offset_P1_m	H5T_IEEE_F32LE	857				Dim0	L1A-pixels	H5T_C_S1	Stripe correction OFF: 0.0
								Error_value	-999	H5T_IEEE_F32LE	
80		StripeCorrection_offset_P1_0	H5T_IEEE_F32LE	857				Dim0	L1A-pixels	H5T_C_S1	Stripe correction OFF: 0.0
								Error_value	-999	H5T_IEEE_F32LE	
81		StripeCorrection_offset_P1_p	H5T_IEEE_F32LE	857				Dim0	L1A-pixels	H5T_C_S1	Stripe correction OFF: 0.0
								Error_value	-999	H5T_IEEE_F32LE	
82		StripeCorrection_offset_P2_m	H5T_IEEE_F32LE	857				Dim0	L1A-pixels	H5T_C_S1	Stripe correction OFF: 0.0
								Error_value	-999	H5T_IEEE_F32LE	
83		StripeCorrection_offset_P2_0	H5T_IEEE_F32LE	857				Dim0	L1A-pixels	H5T_C_S1	Stripe correction OFF: 0.0
								Error_value	-999	H5T_IEEE_F32LE	
84		StripeCorrection_offset_P2_p6	H5T_IEEE_F32LE	857				Dim0	L1A-pixels	H5T_C_S1	Stripe correction OFF: 0.0
								Error_value	-999	H5T_IEEE_F32LE	
	Ancillary_data	—	—	—	—	—	—	Data_description	Don't use the record when lack line. (Refer to Data_quality_flag/Qf_Scan of L1A-product)	H5T_C_S1	
85	Ancillary_data/TC_FPGA	Mode_register	H5T_STD_U8LE	2	27167			Data_description	Mode register	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
86		Bord_address_register	H5T_STD_U8LE	2	27167			Data_description	Board address	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
87		SD4_PL_ASP_A_B_status	H5T_STD_U8LE	2	27167			Data_description	SD4 PL-ASP A/B status 0 : A 1 : B	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
88		SD3_NP_ASP_A_B_status	H5T_STD_U8LE	2	27167			Data_description	SD3 NP-ASP A/B status 0 : A 1 : B	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
89		SD2_MTR_A_B_status	H5T_STD_U8LE	2	27167			Data_description	SD2 MTR A/B status 0 : A 1 : B	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
90		SD1_HCE_A_B_status	H5T_STD_U8LE	2	27167			Data_description	SD1 HCE A/B status 0 : A 1 : B	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
91		Double_buffer_output_status	H5T_STD_U8LE	2	27167			Data_description	Double buffer output status 0 : A 1 : B	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
92		TC_FPGA_ENA_DIS	H5T_STD_U8LE	2	27167			Data_description	TC-FPGA ENA/DIS 0 : DISABLE 1 : ENABLE	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
93	Ancillary_data/PL_DSP_FPGA	Raw_mode_DSP	H5T_STD_U8LE	2	27167			Data_description	DSP status in raw data mode or observation mode 0 : Observation 1 : Raw	H5T_C_S1	
								TLM_info_tlmID	VN0075, VN0085	H5T_C_S1	
								TLM_info_name	VNR PL-1 RAW DAT MODE, VNR PL-2 RAW DAT MODE	H5T_C_S1	
								TLM_info_short_name	V PL-1 RAW MODE SEL, V PL-2 RAW MODE SEL	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
94		DAT_ena_dis_status	H5T_STD_U8LE	2	27167			Data_description	Observation data enable or disable status 0 : Disable 1 : Enable	H5T_C_S1	
								TLM_info_tlmID	VN0076, VN0086	H5T_C_S1	
								TLM_info_name	VNR PL-1 DAT ENA/DIS, VNR PL-2 DAT ENA/DIS	H5T_C_S1	
								TLM_info_short_name	V PL-1 DAT ENA/DIS, V PL-2 DAT ENA/DIS	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
95	Ancillary_data/PL_ASP_telemetr	Line_rate	H5T_STD_U8LE	2	27167	3		Data_description	Selected line rate status	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	+60, 0, -60	H5T_C_S1	
96		Shutter_set_band	H5T_STD_U8LE	2	27167	3		Data_description	Selected band number in integration time 9 : BAND1(+60) 10 : BAND2(0) 11 : BAND3(-60)	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	+60, 0, -60	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
97		Integration_time	H5T_STD_U8LE	2	27167	3		Data_description	Selected Integration time	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	+60, 0, -60	H5T_C_S1	
98		t3	H5T_IEEE_F64LE	2	27167	3		Data_description	Integration time t3(usec)	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	lines	H5T_C_S1	
								Dim2	+60, 0, -60	H5T_C_S1	
99	Ancillary_data/PL_ASP_SD	PL_ASP_select	H5T_STD_U8LE	2	27167			Data_description	Selected lens telescope name in command 1 : P1 2 : P2 5 : Internal lamp (PD monitor gain) 6 : Internal lamp (LED white on/off) 7 : Internal lamp (LED NIR on/off)	H5T_C_S1	
								TLM_info_tlmID	VN0562	H5T_C_S1	
								TLM_info_name	VNR PL TYPE	H5T_C_S1	
								TLM_info_short_name	V PL SEL	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
100		PL_ASP_mode_status(PL1)	H5T_STD_U8LE	2	27167			Data_description	Selected mode of each lens telescope 1 : Wait mode 3 : Observation mode (observation data input) 5 : Observation mode (electrical calibration input)	H5T_C_S1	
								TLM_info_tlmID	VN0563	H5T_C_S1	
								TLM_info_name	VNR PL-1 MODE	H5T_C_S1	
								TLM_info_short_name	V PL-1 MODE	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
101		PL_ASP_mode_status(PL2)	H5T_STD_U8LE	2	27167			Data_description	Selected mode of each lens telescope 1 : Wait mode 3 : Observation mode (observation data input) 5 : Observation mode (electrical calibration input)	H5T_C_S1	
								TLM_info_tlmID	VN0564	H5T_C_S1	
								TLM_info_name	VNR PL-2 MODE	H5T_C_S1	
								TLM_info_short_name	V PL-2 MODE	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
102		DET_drive_status(PL1)	H5T_STD_U8LE	2	27167			Data_description	Detector CCD drive status 0 : OFF 1 : ON	H5T_C_S1	
								TLM_info_tlmID	VN0565	H5T_C_S1	
								TLM_info_name	VNR PL-1 DET ON/OFF	H5T_C_S1	
								TLM_info_short_name	V PL-1 DET ONOFF	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
103		DET_drive_status(PL2)	H5T_STD_U8LE	2	27167			Data_description	Detector CCD drive status 0 : OFF 1 : ON	H5T_C_S1	
								TLM_info_tlmID	VN0566	H5T_C_S1	
								TLM_info_name	VNR PL-2 DET ON/OFF	H5T_C_S1	
								TLM_info_short_name	V PL-2 DET ONOFF	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
104		Electric_cal_level(PL1)	H5T_STD_U8LE	2	27167			Data_description	Electrical calibration signal level status 1 : Level 1 2 : Level 2 3 : Level 3 4 : Level 4 5 : Level 5 6 : Level 6	H5T_C_S1	
								TLM_info_tlmID	VN0569	H5T_C_S1	
								TLM_info_name	VNR PL-1 ELEC CAL LEVEL	H5T_C_S1	
								TLM_info_short_name	V PL-1 ELEC CAL	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
105		Electric_cal_level(PL2)	H5T_STD_U8LE	2	27167			Data_description	Electrical calibration signal level status 1 : Level 1 2 : Level 2 3 : Level 3 4 : Level 4 5 : Level 5 6 : Level 6	H5T_C_S1	
								TLM_info_tlmID	VN0570	H5T_C_S1	
								TLM_info_name	VNR PL-2 ELEC CAL LEVEL	H5T_C_S1	
								TLM_info_short_name	V PL-2 ELEC CAL	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
106		PD_monitor_gain	H5T_STD_U8LE	2	27167			Data_description	Sun monitor gain 0 : HI gain 1 : LO gain	H5T_C_S1	
								TLM_info_tlmID	VN0573	H5T_C_S1	
								TLM_info_name	VNR PD GAIN HI/LO	H5T_C_S1	
								TLM_info_short_name	V PD GAIN	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
107		LED_white_on_off	H5T_STD_U8LE	2	27167			Data_description	White LED ON/OFF status 0 : LED1 OFF / LED2 OFF 1 : LED1 OFF / LED2 ON 2 : LED1 ON / LED2 OFF 3 : LED1 ON / LED2 ON	H5T_C_S1	
								TLM_info_tlmID	VN0574	H5T_C_S1	
								TLM_info_name	VNR VIS-LED ON/OFF	H5T_C_S1	
								TLM_info_short_name	V VIS-LED ONOFF	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
108		LED_NIR_on_off	H5T_STD_U8LE	2	27167			Data_description	LED NIR status 0 : LED1 OFF / LED2 OFF 1 : LED1 OFF / LED2 ON 2 : LED1 ON / LED2 OFF 3 : LED1 ON / LED2 ON	H5T_C_S1	
								TLM_info_tlmID	VN0575	H5T_C_S1	
								TLM_info_name	VNR NIR-LED ON/OFF	H5T_C_S1	
								TLM_info_short_name	V NIR-LED ONOFF	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
109		PD_monitor	H5T_IEEE_F32LE	2	27167	4		Data_description	Sun monitor	H5T_C_S1	
								TLM_info_tlmID	VN0576, VN0577, VN0578, VN0579	H5T_C_S1	
								TLM_info_name	VNR PD MON1, VNR PD MON2, VNR PD MON3, VNR PD MON4	H5T_C_S1	
								TLM_info_short_name	V PD LEV1, V PD LEV2, V PD LEV3, V PD LEV4	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	-999	H5T_IEEE_F32LE	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	monitor1-monitor4	H5T_C_S1	
								Unit	nA	H5T_C_S1	
110		LED_white_current	H5T_IEEE_F32LE	2	27167	2	4	Data_description	LED white current	H5T_C_S1	
								TLM_info_tlmID	VN0580, VN0581, VN0582, VN0583, VN0584, VN0585, VN0586,	H5T_C_S1	
								TLM_info_name	VNR VIS-LED1-1 CUR, VNR VIS-LED1-2 CUR, VNR VIS-LED1-3 CUR, VNR VIS-LED1-4 CUR, VNR VIS-LED2-1 CUR, VNR VIS-LED2-2 CUR, VNR VIS-LED2-3 CUR, VNR VIS-LED2-4 CUR	H5T_C_S1	
								TLM_info_short_name	V VIS-LED1-1 CUR, V VIS-LED1-2 CUR, V VIS-LED1-3 CUR, V VIS-LED1-4 CUR, V VIS-LED2-1 CUR, V VIS-LED2-2 CUR, V VIS-LED2-3 CUR, V VIS-LED2-4 CUR	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	80	H5T_IEEE_F32LE	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	white LED1, white LED2	H5T_C_S1	
								Dim3	cur1-cur4	H5T_C_S1	
								Unit	mA	H5T_C_S1	
111		LED_NIR_current	H5T_IEEE_F32LE	2	27167	2		Data_description	LED NIR current	H5T_C_S1	
								TLM_info_tlmID	VN0588, VN0589	H5T_C_S1	
								TLM_info_name	VNR NIR-LED1 CUR, VNR NIR-LED2 CUR	H5T_C_S1	
								TLM_info_short_name	V NIR-LED1 CUR, V NIR-LED2 CUR	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	120	H5T_IEEE_F32LE	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	NIR LED1 NIR LED2	H5T_C_S1	
								Unit	mA	H5T_C_S1	
112		LED_white_temperature	H5T_IEEE_F32LE	2	27167	2		Data_description	LED white temperature	H5T_C_S1	
								TLM_info_tlmID	VN0590, VN0591	H5T_C_S1	
								TLM_info_name	VNR VIS-LED TMP1, VNR VIS-LED TMP2	H5T_C_S1	
								TLM_info_short_name	V VIS-LED TMP1, V VIS-LED TMP2	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	60	H5T_IEEE_F32LE	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	LED1 monitor, LED2 monitor	H5T_C_S1	
								Unit	degree C	H5T_C_S1	
113		LED_NIR_temperature	H5T_IEEE_F32LE	2	27167	2		Data_description	LED NIR temperature	H5T_C_S1	
								TLM_info_tlmID	VN0592, VN0593	H5T_C_S1	
								TLM_info_name	VNR NIR-LED TMP1, VNR NIR-LED TMP2	H5T_C_S1	
								TLM_info_short_name	V NIR-LED TMP1, V NIR-LED TMP2	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	60	H5T_IEEE_F32LE	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	LED1 monitor, LED2 monitor	H5T_C_S1	
								Unit	degree C	H5T_C_S1	
114		PD_monitor_temperature	H5T_IEEE_F32LE	2	27167			Data_description	Sun monitor temperature	H5T_C_S1	
								TLM_info_tlmID	VN0594	H5T_C_S1	
								TLM_info_name	VNR PD TMP	H5T_C_S1	
								TLM_info_short_name	V PD TMP	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	60	H5T_IEEE_F32LE	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Unit	degree C	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
115		CCD_temperature(PL1)	H5T_IEEE_F32LE	2	27167	2		Data_description	CCD temperature	H5T_C_S1	
								TLM_info_tlmID	VN0595, VN0596	H5T_C_S1	
								TLM_info_name	VNR PL CCD TMP1, VNR PL CCD TMP2	H5T_C_S1	
								TLM_info_short_name	V PL CCD TMP1, V PL CCD TMP2	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	60	H5T_IEEE_F32LE	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	temp1, temp2	H5T_C_S1	
								Unit	degree C	H5T_C_S1	
116		CCD_temperature(PL2)	H5T_IEEE_F32LE	2	27167	2		Data_description	CCD temperature	H5T_C_S1	
								TLM_info_tlmID	VN0597, VN0598	H5T_C_S1	
								TLM_info_name	VNR PL CCD TMP3, VNR PL CCD TMP4	H5T_C_S1	
								TLM_info_short_name	V PL CCD TMP3, V PL CCD TMP4	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	60	H5T_IEEE_F32LE	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	temp3, temp4	H5T_C_S1	
								Unit	degree C	H5T_C_S1	
117	Ancillary_data/MTR_SD	Diffuser_pulse_count	H5T_IEEE_F32LE	2	27167			Data_description	Steer angle of scatter diffuser	H5T_C_S1	
								TLM_info_tlmID	VN0668	H5T_C_S1	
								TLM_info_name	VNR DIF PLS(ANG)	H5T_C_S1	
								TLM_info_short_name	V DIF PLS CNT(ANG)	H5T_C_S1	
								Minimum_valid_value	-175	H5T_IEEE_F32LE	
								Maximum_valid_value	45	H5T_IEEE_F32LE	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Unit	degree	H5T_C_S1	
118		Diffuser_status	H5T_STD_U8LE	2	27167			Data_description	Status of scatter diffuser 0 : Stop 1 : Drive	H5T_C_S1	
								TLM_info_tlmID	VN0603	H5T_C_S1	
								TLM_info_name	VNR DIF MOVE ST	H5T_C_S1	
								TLM_info_short_name	V DIF MOVE ST	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
119		Tilt_status	H5T_STD_U8LE	2	27167			Data_description	Status of tilt 0 : Stop 1 : Drive	H5T_C_S1	
								TLM_info_tlmID	VN0628	H5T_C_S1	
								TLM_info_name	VNR TLT MOVE ST	H5T_C_S1	
								TLM_info_short_name	V TILT MOVE ST	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
120		Tilt_angle	H5T_IEEE_F32LE	2	27167			Data_description	Tilt angle of VNR-PL lens telescope	H5T_C_S1	
								TLM_info_tlmID	VN0669	H5T_C_S1	
								TLM_info_name	VNR TLT PLS(ANG)	H5T_C_S1	
								TLM_info_short_name	V TLT PLS CNT(ANG)	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32LE	
								Maximum_valid_value	90	H5T_IEEE_F32LE	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Unit	degree	H5T_C_S1	
121		Tilt_angle_resolver	H5T_IEEE_F32LE	2	27167			Data_description	Tilt angle from resolver count of VNR-PL lens telescope	H5T_C_S1	
								TLM_info_tlmID	VN0638	H5T_C_S1	
								TLM_info_name	VNR TLT RESE DAT	H5T_C_S1	
								TLM_info_short_name	V TLT RESE DAT	H5T_C_S1	
								Minimum_valid_value	-90	H5T_IEEE_F32LE	
								Maximum_valid_value	90	H5T_IEEE_F32LE	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Unit	degree	H5T_C_S1	
122	Ancillary_data/HCE_SD	HCE_temperature	H5T_IEEE_F64LE	2	27167	64		Data_description	HCE sensor temperature	H5T_C_S1	
								TLM_info_tlmID	VN0345-VN0408	H5T_C_S1	
								TLM_info_name	VNR HCE CH1 TMP-VNR HCE CH1 TMP	H5T_C_S1	
								TLM_info_short_name	V HCE TMP NUM1-V HCE TMP NUM64	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64LE	
								Maximum_valid_value	-999	H5T_IEEE_F64LE	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	temp1-temp64	H5T_C_S1	
								Unit	degree C	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
	Converted_PCD	—	—	—	—	—	—	Worst_orbit_source	0	H5T_STD_U8LE	
		—	—	—	—	—	—	Worst_orbit_source_data_description	Source of orbit data(GPS_position_ECR,GPS_velocity_ECR,GPS_position_ECI,GPS_velocity_ECI,Argument_of_latitude) 0 : Realtime PCD 1 : Decision Ephemeris 2 : Prediction Ephemeris	H5T_C_S1	
		—	—	—	—	—	—	Worst_attitude_source	0	H5T_STD_U8LE	
		—	—	—	—	—	—	Worst_attitude_source_data_description	Source of attitude data(Attitude_time,Attitude_error_angle,Attitude_angular_velocity,Attitude_flag,Quaternion,Quaternion_index,Quaternion_number) 0 : Realtime PCD (Quaternion) 1 : Realtime PCD (Eular angle)	H5T_C_S1	
123		Navigation_time	H5T_IEEE_F64LE	4139				Data_description	GPS navigation time	H5T_C_S1	
								Epoch_time	19800106 00:00:00	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Unit	sec	H5T_C_S1	
124		GPS_position_ECR	H5T_IEEE_F32LE	4139	3			Data_description	GCOM-C position calculated by GPS	H5T_C_S1	
								Coordinate_system	WGS84	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Dim1	x,y,z	H5T_C_S1	
								Unit	km	H5T_C_S1	
125		GPS_velocity_ECR	H5T_IEEE_F32LE	4139	3			Data_description	GCOM-C velocity calculated by GPS	H5T_C_S1	
								Coordinate_system	WGS84	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Dim1	Vx,Vy,Vz	H5T_C_S1	
								Unit	km/s	H5T_C_S1	
126		GPS_position_ECI	H5T_IEEE_F32LE	4139	3			Data_description	GCOM-C position calculated by GPS	H5T_C_S1	
								Coordinate_system	J2000	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Dim1	x,y,z	H5T_C_S1	
								Unit	km	H5T_C_S1	
127		GPS_velocity_ECI	H5T_IEEE_F32LE	4139	3			Data_description	GCOM-C velocity calculated by GPS	H5T_C_S1	
								Coordinate_system	J2000	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Dim1	Vx,Vy,Vz	H5T_C_S1	
								Unit	km/s	H5T_C_S1	
128		Argument_of_latitude	H5T_IEEE_F32LE	4139				Data_description	Argument of latitude (true anomaly)	H5T_C_S1	
								Coordinate_system	WGS84	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Unit	degree	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
129		Navigation_status	H5T_STD_U32LE	4139				Data_description	Navigation status	H5T_C_S1	
								Bit00(LSB)-01	navigation status 00 : Stop 01 : AG filter 10 : Kalman filter 11 : Kalman filter(Convergence)	H5T_C_S1	
								Bit02-07	spare	H5T_C_S1	
								Bit08-09	antenna (CH1) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit10-11	antenna (CH2) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit12-13	antenna (CH3) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit14-15	antenna (CH4) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit16-17	antenna (CH5) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit18-19	antenna (CH6) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit20-21	antenna (CH7) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit22-23	antenna (CH8) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit24-31(MSB)	spare	H5T_C_S1	
								Dim0	Realtime PCD records (1Hz)	H5T_C_S1	
130		Attitude_time	H5T_IEEE_F64LE	4139				Data_description	Time when attitude determined	H5T_C_S1	
								Epoch_time	19800106 00:00:00	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Unit	sec	H5T_C_S1	
131		Attitude_error_angle	H5T_IEEE_F32LE	4139	3			Data_description	Attitude error	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Dim1	Roll, Pitch, Yaw	H5T_C_S1	
								Unit	degree	H5T_C_S1	
132		Attitude_angular_velocity	H5T_IEEE_F32LE	4139	3			Data_description	Attitude angular velocity	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Dim1	Roll, Pitch, Yaw	H5T_C_S1	
								Unit	degree/sec	H5T_C_S1	
133		Attitude_flag	H5T_STD_U8LE	4139				Data_description	Quaternion usable / unusable flag 0 : ESA/IRU (quaternion unusable) 1 : STT/IRU (quaternion usable) 255 : Error value	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
134		Quaternion	H5T_IEEE_F32LE	4139	11	4		Data_description	Quaternion(9-11 data per sec)	H5T_C_S1	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Dim1	Maximum number of quaternions (unusable area is stored with indefinite value)	H5T_C_S1	
								Dim2	q1, q2, q3, q4(scalar)	H5T_C_S1	
135		Quaternion_index	H5T_STD_U8LE	4139				Data_description	Quaternion index (0-10) corresponds to "Att_time"	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Minimum_valid_value	0	H5T_STD_U8LE	
								Maximum_valid_value	10	H5T_STD_U8LE	
136		Quaternion_number	H5T_STD_U8LE	4139				Data_description	Available number of quaternion	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Minimum_valid_value	9	H5T_STD_U8LE	
								Maximum_valid_value	11	H5T_STD_U8LE	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
137		AOCS_mode	H5T_STD_U8LE	4139				Data_description	AOCS(Attitude and Orbit Control System) control mode	H5T_C_S1	
								Bit00(LSB)-07	Control Mode / Control Sub Mode 01110000 : Normal control / Not execute unloading 01110001 : Normal control / Execute magnetic unloading 01110010 : Normal control / Execute thruster unloading 10000000 : Orbit control / Attitude control thruster Delta-V (pitch and yaw-failure) 10000001 : Orbit control / Orbit control thruster (normal) 10000010 : Orbit control / Orbit control thruster Delta-V (pitch-failure) 10000011 : Orbit control / Orbit control thruster Delta-V (yaw-failure) 10000100 : Orbit control / Attitude control thruster(Three axis stabilized attitude control) 10000101 : Orbit control / Delta-V Idling 10000110 : Orbit control / Yaw around (first half) 10000111 : Orbit control / Yaw around (last half) 10010000 : Calibration Maneuver / Solar calibration or Gain deviation maneuver(First maneuver) 10010001 : Calibration Maneuver / Solar calibration or Gain deviation maneuver(Second maneuver) 10010010 : Calibration Maneuver / Solar calibration or Gain deviation maneuver(Third maneuver) 10010011 : Calibration Maneuver / Lunar calibration maneuver(First maneuver) 10010100 : Calibration Maneuver / Lunar calibration maneuver(Second maneuver) 10010101 : Calibration Maneuver / Lunar calibration maneuver(Third maneuver) Others : Not defined	H5T_C_S1	
								Error_value	255	H5T_C_S1	
								Dim0	Realtime PCD records (1Hz)	H5T_C_S1	
138		Orbit_source	H5T_STD_U8LE	4139				Data_description	Source of orbit data(GPS_position_ECR,GPS_velocity_ECR,GPS_position_ECI,GPS_velocity_ECI,Argument_of_latitude) 0 : Realtime PCD 1 : Decision Ephemeris 2 : Prediction Ephemeris	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
139		Attitude_source	H5T_STD_U8LE	4139				Data_description	Source of attitude data(Attitude_time,Attitude_error_angle,Attitude_angular_velocity,Attitude_flag,Quaternion,Quaternion_index,Quaternion_number) 0 : Realtime PCD (Quaternion) 1 : Realtime PCD (Eular angle)	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
140	Data_quality_flag	Qf_scan	H5T_STD_U8LE	6	27680			Data_description	Quality flag of each scan	H5T_C_S1	
								Dim0	P1:+60, 0, -60, P2:+60, 0, -60	H5T_C_S1	
								Dim1	L1B-lines	H5T_C_S1	
								Bit00(LSB)-002	Quality flag 000 : Normal line 001 : Lack line 011 : Lack line (1km/500m->250m or 1km->500m) 100 : Lack line (for calibration) 101 : Lack line (for synchronization between sensors) 010 : Resampling line (250m->1km/500m) 110 : Resampling line (500m->1km) 111 : Mixed line (000,001,011,100,101,010,110)	H5T_C_S1	
141		Qf_data	H5T_STD_U16LE	27680	1000			Data_description	Quality flag of each pixel	H5T_C_S1	
								Bit00(LSB)-Bit05	Stray-light quantity flag P1_m60 P1_0 P1_p60 P2_m60 P2_0 P2_p60 0 : Less than threshold 1 : More than threshold	H5T_C_S1	
								Bit06-Bit11	joint surface on polarization filter effect to stray-light correction P1_m60 P1_0 P1_p60 P2_m60 P2_0 P2_p60 0 : Not affect 1 : Affect	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
142		Qf_data_filter	H5T_STD_U8LE	27680	1000			Data_description	Data invalid flag of joint surface on polarization filter	H5T_C_S1	
								Bit00(LSB)-Bit05	P1_m60 P1_0 P1_p60 P2_m60 P2_0 P2_p60 0 : Not joint surface 1 : Joint surface	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
143		Qf_data_stray	H5T_STD_U8LE	27680	1000			Data_description	delta_L: The amount of stray light correction for the representative channel. delta_L = Ltrue - Lobs, where Ltrue is the stray light corrected radiance, Lobs is the observed radiance respectively. Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	20.0	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	673.5	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	1503.605	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Error_DN	255	H5T_STD_U8LE	
								Maximum_valid_DN	254	H5T_STD_U8LE	
								Minimum_valid_DN	0	H5T_STD_U8LE	
								Saturation_radiance	322.3	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	1000.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.02146258	H5T_IEEE_F32LE	
								Offset	-29.3	H5T_IEEE_F32LE	
								Channel	P1_p60	H5T_C_S1	
144		Qf_GPS	H5T_STD_U8LE	4139				Data_description	Quality flag of GPS 0 : GPS time standard 1 : DMS time standard 255 : Error value	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
145		Qf_sc_position	H5T_STD_U8LE	4139				Data_description	Quality flag of GCOM-C position 0 : Normal 1 : Satellite position value falls outside the normal range(or Error value)	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
146		Qf_sc_velocity	H5T_STD_U8LE	4139				Data_description	Quality flag of GCOM-C velocity 0 : Normal 1 : Satellite velocity value falls outside the normal range(or Error value)	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
147		Qf_sc_attitude_quaternion	H5T_STD_U8LE	4139				Data_description	Quality flag of GCOM-C quaternion 0 : Normal 1 : Abnormal(or Error value)	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
148		Qf_sc_attitude_eular_angle	H5T_STD_U8LE	4139				Data_description	Quality flag of GCOM-C eular angle 0 : Normal 1 : Abnormal(or Error value)	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
149		Qf_sc_status	H5T_STD_U8LE	4139				Data_description	Quality flag of GCOM-C status 0 : Normal 1 : Possibly less accurate around maneuver or tilt	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
150		Qf_sun_calibration	H5T_STD_U8LE	27167				Data_description	Quality flag of Sun calibration 0 : Not Sun calibration 1 : Sun calibration 2 : Sun calibration(Solar elevation value falls outside the normal range)	H5T_C_S1	
								Dim0	L1A-lines	H5T_C_S1	
151		Qf_internal_lamp_calibration	H5T_STD_U8LE	27167				Data_description	Quality flag of internal lamp calibration 0 : Not internal lamp calibration 1 : Internal lamp calibration	H5T_C_S1	
								Dim0	L1A-lines	H5T_C_S1	
152		Qf_electric_calibration	H5T_STD_U8LE	27167				Data_description	Quality flag of electrical calibration 0 : Not electrical calibration 1 : Electrical calibration 2 : Indefinite	H5T_C_S1	
								Dim0	L1A-lines	H5T_C_S1	
153		Qf_maneuver	H5T_STD_U8LE	27167				Data_description	Quality flag of maneuver 0 : Not maneuver 1 : Not maneuver(out of range) 11 : Maneuver(Moon,out of range) 12 : Maneuver(Moon,in of range) 13 : Maneuver(Moon,indefinite) 21 : Maneuver(Sun/Gain deviation) 22 : Maneuver(Sun/Gain deviation,indefinite) 31 : Orbit Control Mode(STT/IRU) 32 : Orbit Control Mode(STT/IRU,indefinite) 33 : Orbit Control Mode(not STT/IRU) 34 : Orbit Control Mode(not STT/IRU,indefinite) 255 : AOCS Control Mode Error value(nominal attitude)	H5T_C_S1	
								Dim0	L1A-lines	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
154		Qf_shutter_set	H5T_STD_U8LE	27167				Data_description	Quality flag of shutter set 0 : Normal 1 : indefinite	H5T_C_S1	
								Dim0	L1A-lines	H5T_C_S1	
155		Qf_tilt_angle	H5T_STD_U8LE	27167				Data_description	Quality flag of tilt angle 0 : Normal 1 : tilt angle value falls outside the normal range	H5T_C_S1	
								Dim0	L1A-lines	H5T_C_S1	
156		Qf_CCD_temperature_VN	H5T_STD_U8LE	27167				Data_description	Quality flag of CCD temperature (VNR-NP)	H5T_C_S1	
								Bit00(LSB)	temperature1 (Left lens telescope) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit01	temperature2 (Left lens telescope) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit02	temperature1 (Nadir lens telescope) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit03	temperature2 (Nadir lens telescope) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit04	temperature1 (Right lens telescope) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit05	temperature2 (Right lens telescope) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Dim0	L1A-lines	H5T_C_S1	
157		Qf_CCD_temperature_PL	H5T_STD_U8LE	27167				Data_description	Quality flag of CCD temperature (VNR-PL)	H5T_C_S1	
								Bit00(LSB)	temperature1 (P1) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit01	temperature2 (P1) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit02	temperature1 (P2) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Bit03	temperature2 (P2) 0 : Normal 1 : CCD temperature falls outside the normal range	H5T_C_S1	
								Dim0	L1A-lines	H5T_C_S1	
158		Qf_LED_temperature	H5T_STD_U8LE	27167				Data_description	Quality flag of LED	H5T_C_S1	
								Bit00(LSB)	temperature (white LED1) 0 : Normal 1 : LED temperature falls outside the normal range	H5T_C_S1	
								Bit01	temperature (white LED2) 0 : Normal 1 : LED temperature falls outside the normal range	H5T_C_S1	
								Bit02	temperature (NIR LED1) 0 : Normal 1 : LED temperature falls outside the normal range	H5T_C_S1	
								Bit03	temperature (NIR LED2) 0 : Normal 1 : LED temperature falls outside the normal range	H5T_C_S1	
								Dim0	L1A-lines	H5T_C_S1	
159		Qf_ASP_temperature	H5T_STD_U8LE	27167				Data_description	Quality flag of ASP temperature	H5T_C_S1	
								Bit00(LSB)	ASP temperature 0 : Normal 1 : ASP temperature falls outside the normal range	H5T_C_S1	
								Dim0	L1A-lines	H5T_C_S1	
160		Qf_sun_monitor_temperature	H5T_STD_U8LE	27167				Data_description	Quality flag of sun monitor temperature	H5T_C_S1	
								Bit00(LSB)-Bit03	monitor1-monitor4 0 : Normal 1 : Sun monitor value falls outside the normal range	H5T_C_S1	
								Dim0	L1A-lines	H5T_C_S1	
161		Qf_diffuser	H5T_STD_U8LE	27167				Data_description	Quality flag of scatter diffuser angle 0 : Normal 1 : Scatter diffuser angle falls outside the normal range	H5T_C_S1	
			H5T_STD_U8LE					Dim0	L1A-lines	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks	
162		Qf_offset	H5T_STD_U16LE	27167				Data_description	Quality flag of offset	H5T_C_S1		
								Bit00(LSB)	P1 +60degree 0 : Good precision 1 : Bad precision	H5T_C_S1		
								Bit01	P1 0degree 0 : Good precision 1 : Bad precision	H5T_C_S1		
								Bit02	P1 -60degree 0 : Good precision 1 : Bad precision	H5T_C_S1		
								Bit03	P2 +60degree 0 : Good precision 1 : Bad precision	H5T_C_S1		
								Bit04	P2 0degree 0 : Good precision 1 : Bad precision	H5T_C_S1		
								Bit05	P2 -60degree 0 : Good precision 1 : Bad precision	H5T_C_S1		
								Dim0	L1A-lines	H5T_C_S1		
163		Qf_gain	H5T_STD_U16LE	27167				Data_description	Quality flag of gain	H5T_C_S1		
								Bit00(LSB)	P1 +60degree 0 : Good precision 1 : Bad precision	H5T_C_S1		
								Bit01	P1 0degree 0 : Good precision 1 : Bad precision	H5T_C_S1		
								Bit02	P1 -60degree 0 : Good precision 1 : Bad precision	H5T_C_S1		
								Bit03	P2 +60degree 0 : Good precision 1 : Bad precision	H5T_C_S1		
								Bit04	P2 0degree 0 : Good precision 1 : Bad precision	H5T_C_S1		
								Bit05	P2 -60degree 0 : Good precision 1 : Bad precision	H5T_C_S1		
								Dim0	L1A-lines	H5T_C_S1		
164		Saturation_num_in_line	H5T_STD_U16LE	6	27680			Data_description	Number of saturation data in line	H5T_C_S1	Calculation method of the saturation pixel rate and saturation condition are the same as VNR-NP. Saturation threshold value of the Spectral radiance is processing parameter for each band.	B
								Dim0	PL01(-60),PL01(0),PL01(+60),PL02(-60),PL02(0),PL02(+60)	H5T_C_S1		
								Dim1	L1B-lines	H5T_C_S1		
	Geometry_parameter	—	—	—	—	—	—	Geometry_parameter_version	0002	H5T_C_S1		B
165		Sensor_position	H5T_IEEE_F64LE	2	3			Data_description	Sensor base position	H5T_C_S1		
								Dim0	P1, P2	H5T_C_S1		
								Dim1	x, y, z	H5T_C_S1		
								Unit	mm	H5T_C_S1		
166		GPSR_position	H5T_IEEE_F64LE	2	3			Data_description	GPSR position	H5T_C_S1		
								Dim0	Antenna-A, Antenna-B	H5T_C_S1		
								Dim1	x, y, z	H5T_C_S1		
								Unit	mm	H5T_C_S1		
167		Sensor_alignment	H5T_IEEE_F64LE	2	3	3		Data_description	Sensor alignment	H5T_C_S1		
								Dim0	P1, P2	H5T_C_S1		
								Dim1	Rows	H5T_C_S1		
								Dim2	Columns	H5T_C_S1		
								Unit	N/A	H5T_C_S1		
168		Primary_change_rate	H5T_IEEE_F64LE	2	3			Data_description	Primary change rate	H5T_C_S1		
								Dim0	P1, P2	H5T_C_S1		
								Dim1	lx, ly, lz	H5T_C_S1		
								Unit	radian/day	H5T_C_S1		
169		Exponential_amplitude	H5T_IEEE_F64LE	2	3			Data_description	Exponential term amplitude	H5T_C_S1		
								Dim0	P1, P2	H5T_C_S1		
								Dim1	Ax, Ay, Az	H5T_C_S1		
								Unit	N/A	H5T_C_S1		
170		Exponential_time_constant	H5T_IEEE_F64LE	2				Data_description	Exponential term time constant	H5T_C_S1		
								Dim0	P1, P2	H5T_C_S1		
								Unit	day	H5T_C_S1		
171		Long_period	H5T_IEEE_F64LE	2				Data_description	Long round period	H5T_C_S1		
								Epoch_time	20000101	H5T_C_S1		
								Dim0	P1, P2	H5T_C_S1		
								Unit	day	H5T_C_S1		
172		Long_fourier_coef	H5T_IEEE_F64LE	2	6	8		Data_description	Fourier series coefficient (Long round period)	H5T_C_S1		
								Dim0	P1, P2	H5T_C_S1		
								Dim1	ax, bx, ay, by, az, bz	H5T_C_S1		
								Dim2	degree1-degree8	H5T_C_S1		
								Unit	N/A	H5T_C_S1		
173		Orbit_period	H5T_IEEE_F64LE	2				Data_description	Orbit period	H5T_C_S1		
								Dim0	P1, P2	H5T_C_S1		
								Unit	min	H5T_C_S1		

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
174		Orbit_fourier_coef	H5T_IEEE_F64LE	2	6	8		Data_description	Fourier series coefficient (Orbit period)	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	ax, bx, ay, by, az, bz	H5T_C_S1	
								Dim2	degree1-degree8	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
175		Tilt_axis	H5T_IEEE_F64LE	3				Data_description	PL telescope tilt drive axis	H5T_C_S1	
								Dim0	alpha, beta, gamma	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
176		Tilt_error_coef	H5T_IEEE_F64LE	5				Data_description	Tilt angle error correct coefficient	H5T_C_S1	
								Dim0	A0-A4	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
177		Tilt_coef	H5T_IEEE_F64LE	2	3	8		Data_description	Tilt coefficient	H5T_C_S1	
								Dim0	P1, P2	H5T_C_S1	
								Dim1	Mx, My, Mz	H5T_C_S1	
								Dim2	degree1-degree8	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
178		Geo_opt_P1	H5T_IEEE_F64LE	3	2	6		Data_description	CCD sensor vector parameter (P1)	H5T_C_S1	
								Dim0	+60, 0, -60	H5T_C_S1	
								Dim1	theta-x, theta-y	H5T_C_S1	
								Dim2	A0-A5	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
179		Geo_opt_P2	H5T_IEEE_F64LE	3	2	6		Data_description	CCD sensor vector parameter (P2)	H5T_C_S1	
								Dim0	+60, 0, -60	H5T_C_S1	
								Dim1	theta-x, theta-y	H5T_C_S1	
								Dim2	A0-A5	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
180	Earth_rotation_parameter	Polar_motion	H5T_IEEE_F64LE	2				Data_description	Polar motion parameter	H5T_C_S1	
								Dim0	dx, dy	H5T_C_S1	
								Unit	sec of arc	H5T_C_S1	
181		UT1-UTC	H5T_IEEE_F32LE	1				Data_description	UT1-UTC	H5T_C_S1	
								Unit	sec	H5T_C_S1	
182		Precession_nutation	H5T_IEEE_F64LE	2				Data_description	Precession and nutation parameter	H5T_C_S1	
								Dim0	dpsi, deps	H5T_C_S1	
								Unit	msec of arc	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks	
	Global_attributes	—	—	—	—	—	—	Product_file_name	GC1SG1_201305201801_12302_1BSG_IRSDM_1001.h5	H5T_C_S1		
		—	—	—	—	—	—	Mission_characteristics	Nominal orbit:inclination = 98.6(Sun-Synchronous); node = 10:15-10:45 AM(descending); eccentricity < 0.0012; altitude = 798km; ground speed = 6.6km/sec; revolutions per day =14+9/34	H5T_C_S1		
		—	—	—	—	—	—	Sensor	Second-generation Global Imager (SGLI)	H5T_C_S1		
		—	—	—	—	—	—	Product_version	0002	H5T_C_S1		
		—	—	—	—	—	—	Algorithm_developer	Japan Aerospace Exploration Agency (JAXA)	H5T_C_S1		
		—	—	—	—	—	—	Dataset_description	Top of atmosphere radiance (reflectance) at SW1-SW4, TI1-TI2	H5T_C_S1		
		—	—	—	—	—	—	Product_name	Top of atmosphere radiance (reflectance)	H5T_C_S1		
		—	—	—	—	—	—	Algorithm_version	0.10	H5T_C_S1		
		—	—	—	—	—	—	Parameter_version	002.00	H5T_C_S1		
		—	—	—	—	—	—	Satellite	Global Change Observation Mission - Climate	H5T_C_S1		
		—	—	—	—	—	—	Product_level	Level-1B	H5T_C_S1		
		—	—	—	—	—	—	Scene_start_time	20030320 23:28:39.823	H5T_C_S1		
		—	—	—	—	—	—	Scene_end_time	20030320 23:32:49.287	H5T_C_S1		
		—	—	—	—	—	—	Scene_center_time	20030320 23:30:44.555	H5T_C_S1		
		—	—	—	—	—	—	Scene_start_index	3356	H5T_STD_I32LE		
		—	—	—	—	—	—	Scene_end_index	5211	H5T_STD_I32LE		
		—	—	—	—	—	—	Ascending_node_crossing_time	20030320 23:42:23.000	H5T_C_S1		
		—	—	—	—	—	—	Total_orbit_number	12345	H5T_STD_I32LE		
		—	—	—	—	—	—	RSP_path_number	123	H5T_STD_I32LE		
		—	—	—	—	—	—	Scene_number	2	H5T_STD_I32LE		
		—	—	—	—	—	—	Orbit_direction	Ascending	H5T_C_S1		
		—	—	—	—	—	—	Maneuver_status	Include	H5T_C_S1		
		—	—	—	—	—	—	Start_argument_of_latitude	1	H5T_IEEE_F32LE		
		—	—	—	—	—	—	End_argument_of_latitude	15	H5T_IEEE_F32LE		
		—	—	—	—	—	—	Lines_per_scan	5, 5, 20, 5, 10, 10	H5T_STD_I32LE_[6]		
		—	—	—	—	—	—	Stored_channels	SW1, SW2, SW3, SW4, TI1, TI2	H5T_C_S1		
		—	—	—	—	—	—	Missing_lines	0, 0, 0, 0, 0, 0	H5T_STD_U32LE_[6]		
		—	—	—	—	—	—	Missing_lines_rate	0.0, 0.0, 0.0, 0.0, 0.0, 0.0	H5T_IEEE_F32LE_[6]		
		—	—	—	—	—	—	Saturated_pixels_rate	0.0, 0.0, 0.0, 0.0, 0.0, 0.0	H5T_IEEE_F32LE_[6]	Calculation method of the saturation pixel rate is the same as VNR-NP. Saturation threshold value of the Spectral radiance is the processing parameter for each band and resolution.	B
		—	—	—	—	—	—	Abnormal_positions_rate	0.0	H5T_IEEE_F32LE		
		—	—	—	—	—	—	Abnormal_velocities_rate	0.0	H5T_IEEE_F32LE		
		—	—	—	—	—	—	Abnormal_attitudes_rate	0.0	H5T_IEEE_F32LE		
		—	—	—	—	—	—	Geometric_information_error_rate	0.0, 0.0, 0.0, 0.0, 0.0, 0.0	H5T_IEEE_F32LE_[6]		
		—	—	—	—	—	—	Stray_light_corrected_pixels_rate	0.0, 0.0, 0.0, 0.0, 0.0, 0.0	H5T_IEEE_F32LE_[6]		
		—	—	—	—	—	—	Radiance_error_pixels_rate	0.0, 0.0, 0.0, 0.0, 0.0, 0.0	H5T_IEEE_F32LE_[6]		
		—	—	—	—	—	—	Stripe_correction	1, 1, 1, 1, 1, 1	H5T_STD_U32LE_[6]	Stripe correction 1: Execute 0: Not execute	
		—	—	—	—	—	—	Representative_channel	SW3	H5T_C_S1		
		—	—	—	—	—	—	L1B_line_sample_interval	dt=147.1734msec (1km)	H5T_C_S1		
		—	—	—	—	—	—	Orbital_period	6057sec	H5T_C_S1		
		—	—	—	—	—	—	Individual_quality_info	GGGGGGGGGGGGGGGGGGGG	H5T_C_S1	G : Good P : Poor F : Fair N : NG	B
		—	—	—	—	—	—	Quality_judge_line	0,0	H5T_STD_I32LE	SWI,TIR	
	Processing_attributes	—	—	—	—	—	—	Contact_point	JAXA/GCOM project team	H5T_C_S1		
		—	—	—	—	—	—	Input_files		H5T_C_S1	In the case of the reprocessed product using L1A product as input, L1A product name is stored.	
		—	—	—	—	—	—	Processing_UT	20120813 01:30:35	H5T_C_S1		
		—	—	—	—	—	—	Processing_result	Good	H5T_C_S1		
		—	—	—	—	—	—	Processing_result_description	Good, Fair, Poor, NG	H5T_C_S1		
		—	—	—	—	—	—	Processing_organization	JAXA/GCOM-C project	H5T_C_S1		

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks	
	Geometry_data	—	—	—	—	—	—	Number_of_lines	743	H5T_STD_I32LE		
		—	—	—	—	—	—	Number_of_pixels	501	H5T_STD_I32LE		
		—	—	—	—	—	—	Image_projection	L1B reference grid	H5T_C_S1		
		—	—	—	—	—	—	Grid_interval	2500	H5T_IEEE_F32LE		
		—	—	—	—	—	—	Grid_interval_unit	meter	H5T_C_S1		
		—	—	—	—	—	—	Latitude_unit	degree North	H5T_C_S1		
		—	—	—	—	—	—	Longitude_unit	degree East	H5T_C_S1		
		—	—	—	—	—	—	Upper_left_longitude	124.127	H5T_IEEE_F32LE		
		—	—	—	—	—	—	Upper_left_latitude	46.2602	H5T_IEEE_F32LE		
		—	—	—	—	—	—	Upper_right_longitude	143.978	H5T_IEEE_F32LE		
		—	—	—	—	—	—	Upper_right_latitude	43.2426	H5T_IEEE_F32LE		
		—	—	—	—	—	—	Lower_left_longitude	120.908	H5T_IEEE_F32LE		
		—	—	—	—	—	—	Lower_left_latitude	29.0959	H5T_IEEE_F32LE		
		—	—	—	—	—	—	Lower_right_longitude	136.931	H5T_IEEE_F32LE		
		—	—	—	—	—	—	Lower_right_latitude	26.6657	H5T_IEEE_F32LE		
1		Latitude	H5T_IEEE_F32LE	743	501			Data_description	Latitude (degree)	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	1	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Minimum_valid_value	-90	H5T_IEEE_F32LE		
								Maximum_valid_value	90	H5T_IEEE_F32LE		
								Error_value	-999	H5T_IEEE_F32LE		
2		Longitude	H5T_IEEE_F32LE	743	501			Data_description	Longitude (degree) Minimum_valid_value < value <= Maximum_valid_value	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	1	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Minimum_valid_value	-180	H5T_IEEE_F32LE		
								Maximum_valid_value	180	H5T_IEEE_F32LE		
								Error_value	-999	H5T_IEEE_F32LE		
3		Obs_time	H5T_STD_I16LE	743	501			Data_description	Observation time (hour)	H5T_C_S1	Elapsed time from the starting date (Observation start date 00:00:00 of Granule ID) in UTC.	
								Unit	hour	H5T_C_S1		
								Slope	0.001	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
4		Obs_time_SW01	H5T_STD_I16LE	187	126			Data_description	Observation time of SW01	H5T_C_S1	Elapsed time from the starting date (Observation start date 00:00:00 of Granule ID) in UTC.	
								Unit	hour	H5T_C_S1		
								Slope	0.001	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks	
5		Obs_time_SW02	H5T_STD_I16LE	187	126			Data_description	Observation time of SW02	H5T_C_S1	Elapsed time from the starting date (Observation start date 00:00:00 of Granule ID) in UTC.	
								Unit	hour	H5T_C_S1		
								Slope	0.001	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
6		Obs_time_SW03	H5T_STD_I16LE	743	501			Data_description	Observation time of SW03	H5T_C_S1	Elapsed time from the starting date (Observation start date 00:00:00 of Granule ID) in UTC.	
								Unit	hour	H5T_C_S1		
								Slope	0.001	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
7		Obs_time_SW04	H5T_STD_I16LE	187	126			Data_description	Observation time of SW04	H5T_C_S1	Elapsed time from the starting date (Observation start date 00:00:00 of Granule ID) in UTC.	
								Unit	hour	H5T_C_S1		
								Slope	0.001	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
8		Obs_time_TI01	H5T_STD_I16LE	372	251			Data_description	Observation time of TI01	H5T_C_S1	Elapsed time from the starting date (Observation start date 00:00:00 of Granule ID) in UTC.	
								Unit	hour	H5T_C_S1		
								Slope	0.001	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
9		Obs_time_TI02	H5T_STD_I16LE	372	251			Data_description	Observation time of TI02	H5T_C_S1	Elapsed time from the starting date (Observation start date 00:00:00 of Granule ID) in UTC.	
								Unit	hour	H5T_C_S1		
								Slope	0.001	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks	
10		Sensor_azimuth	H5T_STD_I16LE	743	501			Data_description	Sensor azimuth angle (Clockwize from the North)	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
11		Sensor_azimuth_SW01	H5T_STD_I16LE	187	126			Data_description	Sensor azimuth angle of SW01	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
12		Sensor_azimuth_SW02	H5T_STD_I16LE	187	126			Data_description	Sensor azimuth angle of SW02	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
13		Sensor_azimuth_SW03	H5T_STD_I16LE	743	501			Data_description	Sensor azimuth angle of SW03	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
14		Sensor_azimuth_SW04	H5T_STD_I16LE	187	126			Data_description	Sensor azimuth angle of SW04	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
15		Sensor_azimuth_TI01	H5T_STD_I16LE	372	251			Data_description	Sensor azimuth angle of TI01	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks	
16		Sensor_azimuth_TI02	H5T_STD_I16LE	372	251			Data_description	Sensor azimuth angle of TI02	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
17		Sensor_zenith	H5T_STD_I16LE	743	501			Data_description	Sensor zenith angle (from the local zenith)	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
18		Sensor_zenith_SW01	H5T_STD_I16LE	187	126			Data_description	Sensor zenith angle of SW01	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
19		Sensor_zenith_SW02	H5T_STD_I16LE	187	126			Data_description	Sensor zenith angle of SW02	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
20		Sensor_zenith_SW03	H5T_STD_I16LE	743	501			Data_description	Sensor zenith angle of SW03	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
21		Sensor_zenith_SW04	H5T_STD_I16LE	187	126			Data_description	Sensor zenith angle of SW04	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks	
22		Sensor_zenith_TI01	H5T_STD_I16LE	372	251			Data_description	Sensor zenith angle of TI01	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
23		Sensor_zenith_TI02	H5T_STD_I16LE	372	251			Data_description	Sensor zenith angle of TI02	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
24		Solar_azimuth	H5T_STD_I16LE	743	501			Data_description	Solar azimuth angle (Clockwize from the North)	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
25		Solar_zenith	H5T_STD_I16LE	743	501			Data_description	Solar zenith angle (from the local zenith)	H5T_C_S1		
								Unit	degree	H5T_C_S1		
								Slope	0.01	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Dim0	Line grids	H5T_C_S1		
								Dim1	Pixel grids	H5T_C_S1		
								Resampling_interval	10	H5T_STD_I32LE		
								Resampling_interval_unit	pixel	H5T_C_S1		
								Minimum_valid_DN	-32767	H5T_STD_I16LE		
								Maximum_valid_DN	32767	H5T_STD_I16LE		
								Error_DN	-32768	H5T_STD_I16LE		B
	Image_data	—	—	—	—	—	—	Number_of_lines	7416	H5T_STD_I32LE		
		—	—	—	—	—	—	Number_of_pixels	5000	H5T_STD_I32LE		
		—	—	—	—	—	—	Image_projection	L1B reference grid	H5T_C_S1		
		—	—	—	—	—	—	Grid_interval	250	H5T_IEEE_F32LE		
		—	—	—	—	—	—	Grid_interval_unit	meter	H5T_C_S1		
26		Line_msec	H5T_STD_I32LE	7416				Unit	millisecond	H5T_C_S1	Elapsed time from the starting date (Observation start date 00:00:00 of Granule ID) in UTC.	
								Slope	1	H5T_IEEE_F32LE		
								Offset	0	H5T_IEEE_F32LE		
								Dim0	L1B-lines	H5T_C_S1		
								Minimum_valid_DN	-2147483647	H5T_STD_I32LE		
								Maximum_valid_DN	2147483647	H5T_STD_I32LE		
								Error_DN	-2147483648	H5T_STD_I32LE		B
								Data_description	Day millisecond at each line (UTC)	H5T_C_S1		
27		Line_tai93	H5T_IEEE_F64LE	7416				Data_description	TAI93 at each line	H5T_C_S1		
								Dim0	L1B-lines	H5T_C_S1		
								Error_value	-1.0	H5T_IEEE_F64LE		
								Maximum_valid_value	9.99999999E8	H5T_IEEE_F64LE		
								Minimum_valid_value	0.0	H5T_IEEE_F64LE		
								Unit	second	H5T_C_S1		

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
28		Lt_SW01	H5T_STD_U16LE	1854	1250			Data_description	TOA radiance of SW01: Lt[W/m^2/sr/um]=(DN&Mask)*Slope+Offset; TOA reflectance of SW01: rt[Lt*pi/(F0/d^2)]=(DN&Mask)*Slope_reflectance+Offset_reflectance Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Mask	16383	H5T_STD_U16LE	
								Bit00(LSB)-13	Digital Number 16383 : Missing value 16382 : Saturation value	H5T_C_S1	
								Bit14	Stray light correction sign flag (delta_L = Ltrue - Lobs) 0:Sign of the amount of stray light correction is positive (or zero) 1:Sign of the amount of stray light correction is negative	H5T_C_S1	
								Bit15(MSB)	Stray light correction flag 0 : Stray light is uncorrected 1 : Stray light is corrected	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.01897204	H5T_IEEE_F32LE	
								Offset	-25.9	H5T_IEEE_F32LE	
								Spatial_resolution	1000	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65533	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	1050	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	284.9	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m 2/um/sr	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	646.5213	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m 2/um	H5T_C_S1	
								Slope_reflectance	4.10496E-05	H5T_IEEE_F32LE	
								Offset_reflectance	0	H5T_IEEE_F32LE	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
29		Lt_SW02	H5T_STD_U16LE	1854	1250			Data_description	TOA radiance of SW02: Lt[W/m^2/sr/um]=(DN&Mask)*Slope+Offset; TOA reflectance of SW02: rt[Lt*pi/(F0/d^2)]=(DN&Mask)*Slope_reflectance+Offset_reflectance Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Mask	16383	H5T_STD_U16LE	
								Bit00(LSB)-13	Digital Number 16383 : Missing value 16382 : Saturation value	H5T_C_S1	
								Bit14	Stray light correction sign flag (delta_L = Ltrue - Lobs) 0:Sign of the amount of stray light correction is positive (or zero) 1:Sign of the amount of stray light correction is negative	H5T_C_S1	
								Bit15(MSB)	Stray light correction flag 0 : Stray light is uncorrected 1 : Stray light is corrected	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.00788915	H5T_IEEE_F32LE	
								Offset	-10.77	H5T_IEEE_F32LE	
								Spatial_resolution	1000	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65533	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	1380	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	20	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	118.47	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m 2/um/sr	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	361.225	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m 2/um	H5T_C_S1	
								Slope_reflectance	3.10887E-05	H5T_IEEE_F32LE	
								Offset_reflectance	0	H5T_IEEE_F32LE	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
30		Lt_SW03	H5T_STD_U16LE	7416	5000			Data_description	TOA radiance of SW03: Lt[W/m^2/sr/um]=(DN&Mask)*Slope+Offset; TOA reflectance of SW03: rt[Lt*pi/(F0/d^2)]=(DN&Mask)*Slope_reflectance+Offset_reflectance Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Mask	16383	H5T_STD_U16LE	
								Bit00(LSB)-13	Digital Number 16383 : Missing value 16382 : Saturation value	H5T_C_S1	
								Bit14	Stray light correction sign flag (delta_L = Ltrue - Lobs) 0:Sign of the amount of stray light correction is positive (or zero) 1:Sign of the amount of stray light correction is negative	H5T_C_S1	
								Bit15(MSB)	Stray light correction flag 0 : Stray light is uncorrected 1 : Stray light is corrected	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.00367721	H5T_IEEE_F32LE	
								Offset	-5.02	H5T_IEEE_F32LE	
								Spatial_resolution	250	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65533	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	1630	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	200	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	55.22	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m 2/um/sr	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	237.5784	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m 2/um	H5T_C_S1	
								Slope_reflectance	2.29307E-05	H5T_IEEE_F32LE	
								Offset_reflectance	0	H5T_IEEE_F32LE	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
31		Lt_SW04	H5T_STD_U16LE	1854	1250			Data_description	TOA radiance of SW04: Lt[W/m^2/sr/um]=(DN&Mask)*Slope+Offset; TOA reflectance of SW04: rt[Lt*pi/(F0/d^2)]=(DN&Mask)*Slope_reflectance+Offset_reflectance Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Mask	16383	H5T_STD_U16LE	
								Bit00(LSB)-13	Digital Number 16383 : Missing value 16382 : Saturation value	H5T_C_S1	
								Bit14	Stray light correction sign flag (delta_L = Ltrue - Lobs) 0:Sign of the amount of stray light correction is positive (or zero) 1:Sign of the amount of stray light correction is negative	H5T_C_S1	
								Bit15(MSB)	Stray light correction flag 0 : Stray light is uncorrected 1 : Stray light is corrected	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.001479673	H5T_IEEE_F32LE	
								Offset	-2.02	H5T_IEEE_F32LE	
								Spatial_resolution	1000	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65533	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	2210	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	50	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	22.22	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	84.2413	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Slope_reflectance	2.69195E-05	H5T_IEEE_F32LE	
								Offset_reflectance	0	H5T_IEEE_F32LE	
32		Lt_TI01	H5T_STD_U16LE	3708	2500			Data_description	TOA radiance of TI01: Lt[W/m^2/sr/um]=(DN&Mask)*Slope+Offset	H5T_C_S1	
								Mask	16383	H5T_STD_U16LE	
								Bit00(LSB)-13	Digital Number 16383 : Missing value 16382 : Saturation value	H5T_C_S1	
								Bit14	Stray light correction sign flag (delta_L = Ltrue - Lobs) 0:Sign of the amount of stray light correction is positive (or zero) 1:Sign of the amount of stray light correction is negative	H5T_C_S1	
								Bit15(MSB)	Stray light correction flag 0 : Stray light is uncorrected 1 : Stray light is corrected	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.001208644	H5T_IEEE_F32LE	
								Offset	-1.65	H5T_IEEE_F32LE	
								Spatial_resolution	500	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65533	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	11000	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	700	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	18.15	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
33		Lt_TI02	H5T_STD_U16LE	3708	2500			Data_description	TOA radiance of TI02: Lt[W/m^2/sr/um]=(DN&Mask)*Slope+Offset	H5T_C_S1	
								Mask	16383	H5T_STD_U16LE	
								Bit00(LSB)-13	Digital Number 16383 : Missing value 16382 : Saturation value	H5T_C_S1	
								Bit14	Stray light correction sign flag (delta_L = Ltrue - Lobs) 0:Sign of the amount of stray light correction is positive (or zero) 1:Sign of the amount of stray light correction is negative	H5T_C_S1	
								Bit15(MSB)	Stray light correction flag 0 : Stray light is uncorrected 1 : Stray light is corrected	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.001069466	H5T_IEEE_F32LE	
								Offset	-1.46	H5T_IEEE_F32LE	
								Spatial_resolution	500	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65533	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Center_wavelength	12000	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_width	700	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Saturation_radiance	16.06	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
34		QA_flag	H5T_STD_U16LE	7416	5000			Data_description	Quality flag of each pixels	H5T_C_S1	
								Bit00(LSB)	channel integrity0 : Not integrity1 : Integrity	H5T_C_S1	
								Bit01	vnr-pol tilt-driving 0 : Not tilt-driving 1 : Tilt-driving	H5T_C_S1	
								Unit	NA	H5T_C_S1	
								Slope	1	H5T_IEEE_F32LE	
								Offset	0	H5T_IEEE_F32LE	
								Spatial_resolution	250	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65534	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
35		Land_water_flag	H5T_STD_U8LE	7416	5000			Data_description	Rate of land at each pixel (With elevation correction) 0 : water 100 : land	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Minimum_valid_value	0	H5T_STD_U8LE	
								Maximum_valid_value	100	H5T_STD_U8LE	
								Error_value	255	H5T_STD_U8LE	
								Altitude_correction	yes	H5T_C_S1	
	Level_1_attributes	—	—	—	—	—	—	Operation_mode	OBD	H5T_C_S1	
		—	—	—	—	—	—	Radiometric_calibration	Original	H5T_C_S1	
		—	—	—	—	—	—	Geometric_calibration	Original	H5T_C_S1	
		—	—	—	—	—	—	Number_of_pixels_250m_L1A	4584	H5T_STD_I32LE	
		—	—	—	—	—	—	Number_of_pixels_500m_L1A	2292	H5T_STD_I32LE	
		—	—	—	—	—	—	Number_of_pixels_1km_L1A	1146	H5T_STD_I32LE	
		—	—	—	—	—	—	Number_of_scans_L1A	343	H5T_STD_I32LE	
36		Polynomial_to_L1A_SW01_coef	H5T_IEEE_F64LE	5	2	1854	7	Dim0	polynomials	H5T_C_S1	
								Dim1	to-L1A-pixel, to-L1A-line	H5T_C_S1	
								Dim2	L1B-lines	H5T_C_S1	
								Dim3	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1B image coordinates into L1A image coordinates for SW01. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	6	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
37		Polynomial_to_L1A_SW01_num	H5T_STD_U8LE	1854				Unit	polynomial	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Data_description	Polynomial number to transfer each line of L1B image coordinates into L1A image coordinates for SW01	H5T_C_S1	
38		Polynomial_to_L1A_SW01_range	H5T_STD_U16LE	5	1854	2		Dim0	polynomials	H5T_C_S1	
								Dim1	L1B-lines	H5T_C_S1	
								Dim2	start, end	H5T_C_S1	
								Data_description	Applicable range of pixel address which corresponds to each polynomial for SW01. The pixel address starts from 1.	H5T_C_S1	
								Unit	pixel	H5T_C_S1	
39		Polynomial_to_L1A_SW02_coe	H5T_IEEE_F64LE	5	2	1854	7	Dim0	polynomials	H5T_C_S1	
								Dim1	to-L1A-pixel, to-L1A-line	H5T_C_S1	
								Dim2	L1B-lines	H5T_C_S1	
								Dim3	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1B image coordinates into L1A image coordinates for SW02. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	6	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
40		Polynomial_to_L1A_SW02_num	H5T_STD_U8LE	1854				Unit	polynomial	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Data_description	Polynomial number to transfer each line of L1B image coordinates into L1A image coordinates for SW02	H5T_C_S1	
41		Polynomial_to_L1A_SW02_range	H5T_STD_U16LE	5	1854	2		Dim0	polynomials	H5T_C_S1	
								Dim1	L1B-lines	H5T_C_S1	
								Dim2	start, end	H5T_C_S1	
								Data_description	Applicable range of pixel address which corresponds to each polynomial for SW02. The pixel address starts from 1.	H5T_C_S1	
								Unit	pixel	H5T_C_S1	
42		Polynomial_to_L1A_SW03_coe	H5T_IEEE_F64LE	5	2	7416	7	Dim0	polynomials	H5T_C_S1	
								Dim1	to-L1A-pixel, to-L1A-line	H5T_C_S1	
								Dim2	L1B-lines	H5T_C_S1	
								Dim3	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1B image coordinates into L1A image coordinates for SW03. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	6	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
43		Polynomial_to_L1A_SW03_num	H5T_STD_U8LE	7416				Unit	polynomial	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Data_description	Polynomial number to transfer each line of L1B image coordinates into L1A image coordinates for SW03	H5T_C_S1	
44		Polynomial_to_L1A_SW03_range	H5T_STD_U16LE	5	7416	2		Dim0	polynomials	H5T_C_S1	
								Dim1	L1B-lines	H5T_C_S1	
								Dim2	start, end	H5T_C_S1	
								Data_description	Applicable range of pixel address which corresponds to each polynomial for SW03. The pixel address starts from 1.	H5T_C_S1	
								Unit	pixel	H5T_C_S1	
45		Polynomial_to_L1A_SW04_coe	H5T_IEEE_F64LE	5	2	1854	7	Dim0	polynomials	H5T_C_S1	
								Dim1	to-L1A-pixel, to-L1A-line	H5T_C_S1	
								Dim2	L1B-lines	H5T_C_S1	
								Dim3	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1B image coordinates into L1A image coordinates for SW04. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	6	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
46		Polynomial_to_L1A_SW04_num	H5T_STD_U8LE	1854				Unit	polynomial	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Data_description	Polynomial number to transfer each line of L1B image coordinates into L1A image coordinates for SW04	H5T_C_S1	
47		Polynomial_to_L1A_SW04_range	H5T_STD_U16LE	5	1854	2		Dim0	polynomials	H5T_C_S1	
								Dim1	L1B-lines	H5T_C_S1	
								Dim2	start, end	H5T_C_S1	
								Data_description	Applicable range of pixel address which corresponds to each polynomial for SW04. The pixel address starts from 1.	H5T_C_S1	
								Unit	pixel	H5T_C_S1	
48		Polynomial_to_L1A_TI01_coe	H5T_IEEE_F64LE	5	2	3708	7	Dim0	polynomials	H5T_C_S1	
								Dim1	to-L1A-pixel, to-L1A-line	H5T_C_S1	
								Dim2	L1B-lines	H5T_C_S1	
								Dim3	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1B image coordinates into L1A image coordinates for TI01. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	6	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
49		Polynomial_to_L1A_TI01_num	H5T_STD_U8LE	3708				Dim0	L1B-lines	H5T_C_S1	
								Data_description	Polynomial number to transfer each line of L1B image coordinates into L1A image coordinates for TI01	H5T_C_S1	
								Unit	polynomial	H5T_C_S1	
50		Polynomial_to_L1A_TI01_range	H5T_STD_U16LE	5	3708	2		Dim0	polynomials	H5T_C_S1	
								Dim1	L1B-lines	H5T_C_S1	
								Dim2	start, end	H5T_C_S1	
								Data_description	Applicable range of pixel address which corresponds to each polynomial for TI01. The pixel address starts from 1.	H5T_C_S1	
								Unit	pixel	H5T_C_S1	
51		Polynomial_to_L1A_TI02_coe	H5T_IEEE_F64LE	5	2	3708	7	Dim0	polynomials	H5T_C_S1	
								Dim1	to-L1A-pixel, to-L1A-line	H5T_C_S1	
								Dim2	L1B-lines	H5T_C_S1	
								Dim3	coefficients	H5T_C_S1	
								Polynomial_degree	6	H5T_STD_I32LE	
								Data_description	Polynomial coefficients to transfer each line of L1B image coordinates into L1A image coordinates for TI02. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Unit	pixel	H5T_C_S1	
52		Polynomial_to_L1A_TI02_num	H5T_STD_U8LE	3708				Unit	polynomial	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Data_description	Polynomial number to transfer each line of L1B image coordinates into L1A image coordinates for TI02	H5T_C_S1	
53		Polynomial_to_L1A_TI02_range	H5T_STD_U16LE	5	3708	2		Dim0	polynomials	H5T_C_S1	
								Dim1	L1B-lines	H5T_C_S1	
								Dim2	start, end	H5T_C_S1	
								Data_description	Applicable range of pixel address which corresponds to each polynomial for TI02. The pixel address starts from 1.	H5T_C_S1	
								Unit	pixel	H5T_C_S1	
54		Polynomial_to_L1B_SW01_coef	H5T_IEEE_F64LE	2	1715	8		Dim0	to-L1B-pixel, to-L1B-line	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	coefficients	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Data_description	Polynomial coefficients to transfer each line of L1A image coordinates into L1B image coordinates for SW01. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Unit	pixel	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
55		Polynomial_to_L1B_SW02_coef	H5T_IEEE_F64LE	2	1715	8		Dim0	to-L1B-pixel, to-L1B-line	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1A image coordinates into L1B image coordinates for SW02. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
56		Polynomial_to_L1B_SW03_coef	H5T_IEEE_F64LE	2	6860	8		Dim0	to-L1B-pixel, to-L1B-line	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1A image coordinates into L1B image coordinates for SW03. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
57		Polynomial_to_L1B_SW04_coef	H5T_IEEE_F64LE	2	1715	8		Dim0	to-L1B-pixel, to-L1B-line	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1A image coordinates into L1B image coordinates for SW04. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
58		Polynomial_to_L1B_TI01_coef	H5T_IEEE_F64LE	2	3430	8		Dim0	to-L1B-pixel, to-L1B-line	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1A image coordinates into L1B image coordinates for TI01. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
59		Polynomial_to_L1B_TI02_coef	H5T_IEEE_F64LE	2	3430	8		Dim0	to-L1B-pixel, to-L1B-line	H5T_C_S1	
								Dim1	L1A-lines	H5T_C_S1	
								Dim2	coefficients	H5T_C_S1	
								Data_description	Polynomial coefficients to transfer each line of L1A image coordinates into L1B image coordinates for TI02. The center of upper-left pixel is defined as [1,1] in the image coordinates	H5T_C_S1	
								Polynomial_degree	7	H5T_STD_I32LE	
								Unit	pixel	H5T_C_S1	
60		Quaternion_ECR	H5T_IEEE_F32LE	3541	4			Dim0	quaternion records (10Hz)	H5T_C_S1	
								Dim1	x, y, z, w(scalar)	H5T_C_S1	
								Data_description	Quaternion (STT->ECR) in x	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
61		Quaternion_time	H5T_IEEE_F64LE	3541				Data_description	Attitude determination time in TAI93	H5T_C_S1	
								Dim0	quaternion records (10Hz)	H5T_C_S1	
								Unit	second	H5T_C_S1	
62		Satellite_eclipse_time	H5T_IEEE_F64LE	1				Data_description	Satellite eclipse time in TAI93	H5T_C_S1	
								Unit	second	H5T_C_S1	
63		Scan_profile	H5T_IEEE_F64LE	2	10			Dim0	forward, backward	H5T_C_S1	
								Dim1	coefficients	H5T_C_S1	
								Data_description	Fourier series of IRS scan profile for Forward/Backward projection; Order: d1 sin1 sin2 sin6 sin16 d0 cos1 cos2 cos6 cos16	H5T_C_S1	
								Unit	radian	H5T_C_S1	
64		Scanstart_time_L1A	H5T_IEEE_F64LE	343				Data_description	Scan start time of L1A in TAI93	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
								Unit	Total seconds from 1993/01/01(TAI) epoch	H5T_C_S1	
65		StripeCorrection_slope_SW0	H5T_IEEE_F32LE	5				Dim0	L1A-lines/scan	H5T_C_S1	Stripe correction OFF: 0.0
								Error_value	-999	H5T_IEEE_F32LE	
66		StripeCorrection_slope_SW0	H5T_IEEE_F32LE	5				Dim0	L1A-lines/scan	H5T_C_S1	Stripe correction OFF: 0.0
								Error_value	-999	H5T_IEEE_F32LE	
67		StripeCorrection_slope_SW0	H5T_IEEE_F32LE	20				Dim0	L1A-lines/scan	H5T_C_S1	Stripe correction OFF: 0.0
								Error_value	-999	H5T_IEEE_F32LE	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
68		StripeCorrection_slope_SW0	H5T_IEEE_F32LE	5				Dim0	L1A-lines/scan	H5T_C_S1	Stripe correction OFF: 0.0
								Error_value	-999	H5T_IEEE_F32LE	
69		StripeCorrection_slope_TI0	H5T_IEEE_F32LE	10				Dim0	L1A-lines/scan	H5T_C_S1	Stripe correction OFF: 0.0
								Error_value	-999	H5T_IEEE_F32LE	
70		StripeCorrection_slope_TI0	H5T_IEEE_F32LE	10				Dim0	L1A-lines/scan	H5T_C_S1	Stripe correction OFF: 0.0
								Error_value	-999	H5T_IEEE_F32LE	
71		StripeCorrection_offset_SW	H5T_IEEE_F32LE	5				Dim0	L1A-lines/scan	H5T_C_S1	Stripe correction OFF: 0.0
								Error_value	-999	H5T_IEEE_F32LE	
72		StripeCorrection_offset_SW	H5T_IEEE_F32LE	5				Dim0	L1A-lines/scan	H5T_C_S1	Stripe correction OFF: 0.0
								Error_value	-999	H5T_IEEE_F32LE	
73		StripeCorrection_offset_SW	H5T_IEEE_F32LE	20				Dim0	L1A-lines/scan	H5T_C_S1	Stripe correction OFF: 0.0
								Error_value	-999	H5T_IEEE_F32LE	
74		StripeCorrection_offset_SW	H5T_IEEE_F32LE	5				Dim0	L1A-lines/scan	H5T_C_S1	Stripe correction OFF: 0.0
								Error_value	-999	H5T_IEEE_F32LE	
75		StripeCorrection_offset_TI	H5T_IEEE_F32LE	10				Dim0	L1A-lines/scan	H5T_C_S1	Stripe correction OFF: 0.0
								Error_value	-999	H5T_IEEE_F32LE	
76		StripeCorrection_offset_TI	H5T_IEEE_F32LE	10				Dim0	L1A-lines/scan	H5T_C_S1	Stripe correction OFF: 0.0
								Error_value	-999	H5T_IEEE_F32LE	
	Ancillary_data	—	—	—	—	—	—	Data_description	Don't use the record when lack line. (Refer to Data_quality_flag/Qf_Scan of L1A-product)	H5T_C_S1	
77	Ancillary_data/IRS_DSP_AB	Halogen_on_off	H5T_STD_U8LE	2	343	2		Data_description	Halogen lamp ON/OFF status	H5T_C_S1	
								TLM_info_tlmID	IR0046	H5T_C_S1	
								TLM_info_name	IRS HAL ON/OFF	H5T_C_S1	
								TLM_info_short_name	I HAL PWR ONOFF	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	packet#1, packet#2	H5T_C_S1	
78	Ancillary_data/TC_FPGA	Mode_register	H5T_STD_U8LE	2	343	2		Data_description	Mode register	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	packet#1, packet#2	H5T_C_S1	
79		Board_address	H5T_STD_U8LE	2	343	2		Data_description	Board address	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	packet#1, packet#2	H5T_C_S1	
80		SD5_SMCU_TLM_word_status	H5T_STD_U8LE	2	343	2		Data_description	SD5 SMCU TLM word status 0 : 32 words 1 : 97 words	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	packet#1, packet#2	H5T_C_S1	
81		SD5_SMCU_CMD_word_status	H5T_STD_U8LE	2	343	2		Data_description	SD5 SMCU CMD word status 0 : 32 words 1 : 97 words	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	packet#1, packet#2	H5T_C_S1	
82		SD5_SMCU_ANGLE_A_B_status	H5T_STD_U8LE	2	343	2		Data_description	SD5 SMCU ANGLE A/B status 0 : A 1 : B	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	packet#1, packet#2	H5T_C_S1	
83		SD4_CCE_A_B_status	H5T_STD_U8LE	2	343	2		Data_description	SD4 CCE A/B status 0 : A 1 : B	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	packet#1, packet#2	H5T_C_S1	
84		SD3_TEC_A_B_status	H5T_STD_U8LE	2	343	2		Data_description	SD3 TEC A/B status 0 : A 1 : B	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	packet#1, packet#2	H5T_C_S1	
85		SD2_I_ASP_A_B_status	H5T_STD_U8LE	2	343	2		Data_description	SD2 I-ASP A/B status 0 : A 1 : B	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	packet#1, packet#2	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
86		SD1_HCE_A_B_status	H5T_STD_U8LE	2	343	2		Data_description	SD1 HCE A/B status 0 : A 1 : B	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	packet#1, packet#2	H5T_C_S1	
87		Double_buffer_output_status	H5T_STD_U8LE	2	343	2		Data_description	Double buffer output status 0 : A 1 : B	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	packet#1, packet#2	H5T_C_S1	
88		TC_FPGA_ENA_DIS	H5T_STD_U8LE	2	343	2		Data_description	TC-FPGA ENA/DIS 0 : DISABLE 1 : ENABLE	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	packet#1, packet#2	H5T_C_S1	
89	Ancillary_data/SWI_DSP_FPGA	DSP_AB_select	H5T_STD_U8LE	343	2			Data_description	Selected LVDS input status of SWI observation data (A or B) 0 : A 1 : Non-selected 2 : B	H5T_C_S1	
								TLM_info_tlmID	IR0069	H5T_C_S1	
								TLM_info_name	IRS DSP SWI A/B SEL	H5T_C_S1	
								TLM_info_short_name	I DSP SWI AB SEL	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	
90		Resolution_status	H5T_STD_U8LE	343	2			Data_description	Resolution status(SWI) 1 : 250m 3 : 1km	H5T_C_S1	
								TLM_info_tlmID	IR0070	H5T_C_S1	
								TLM_info_name	IRS SWI RESO STS	H5T_C_S1	
								TLM_info_short_name	I SWI RES SEL	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	
91		All_round_mode_status	H5T_STD_U8LE	343	2			Data_description	Observation/Round scan mode switch(SWI) 0 : Observation 1 : Round scan	H5T_C_S1	
								TLM_info_tlmID	IR0071	H5T_C_S1	
								TLM_info_name	IRS SWI ALL DAT MODE	H5T_C_S1	
								TLM_info_short_name	I SWI ALL MODE SEL	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	
92		DAT_ena_dis_status	H5T_STD_U8LE	343	2			Data_description	Observation data enable or disable status 0 : Disable 1 : Enable	H5T_C_S1	
								TLM_info_tlmID	IR0072	H5T_C_S1	
								TLM_info_name	IRS SWI DAT ENA/DIS	H5T_C_S1	
								TLM_info_short_name	I SWI DAT ENA/DIS	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	
93	Ancillary_data/TIR_DSP_FPGA	DSP_AB_select	H5T_STD_U8LE	343	2			Data_description	Selected LVDS input status of TIR observation data (A or B) 0 : A 1 : Non-selected 2 : B	H5T_C_S1	
								TLM_info_tlmID	IR0068	H5T_C_S1	
								TLM_info_name	IRS DSP TIR A/B SEL	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	
94		TIR_TDI_status	H5T_STD_U8LE	343	2	2		Data_description	Fixed data status 0 : TDI (A/B) 1 : No TDI (B) 2 : No TDI (A)	H5T_C_S1	
								TLM_info_tlmID	IR0074, IR0073	H5T_C_S1	
								TLM_info_name	IRS TIR1 TDI STS, IRS TIR TDI STS	H5T_C_S1	
								TLM_info_short_name	I TIR1 TDI ST, I TIR2 TDI ST	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	
								Dim2	TI1, TI2	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
95		Resolution_status	H5T_STD_U8LE	343	2			Data_description	Resolution status(TIR) 1 : 250m 2 : 500m 3 : 1km	H5T_C_S1	
								TLM_info_tlmID	IR0075	H5T_C_S1	
								TLM_info_name	IRS TIR RESO STS	H5T_C_S1	
								TLM_info_short_name	I TIR RES SEL	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	
96		All_round_mode_status	H5T_STD_U8LE	343	2			Data_description	Observation/Round scan mode switch(TIR) 0 : Observation 1 : Round scan	H5T_C_S1	
								TLM_info_tlmID	IR0076	H5T_C_S1	
								TLM_info_name	IRS TIR ALL DAT MODE	H5T_C_S1	
								TLM_info_short_name	I TIR ALL MODE SEL	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	
97		DAT_ena_dis_status	H5T_STD_U8LE	343	2			Data_description	Observation data enable or disable status 0 : Disable 1 : Enable	H5T_C_S1	
								TLM_info_tlmID	IR0077	H5T_C_S1	
								TLM_info_name	IRS TIR DAT ENA/DIS	H5T_C_S1	
								TLM_info_short_name	I TIR DAT ENA/DIS	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
								Dim1	packet#1, packet#2	H5T_C_S1	
98	Ancillary_data/IRS_ASP_SD	SWI_ASP_mode_status	H5T_STD_U8LE	2	343	2		Data_description	Selected mode of SWI 1 : Wait mode 3 : Observation mode (observation data input) 4 : Round scan mode 5 : Observation mode (electrical calibration	H5T_C_S1	
								TLM_info_tlmID	IR0527, IR0528	H5T_C_S1	
								TLM_info_name	IRS SWI 1-3 MODE, IRS SWI 4 MODE	H5T_C_S1	
								TLM_info_short_name	I SWI MODE, I SWI4 MODE	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	SW1/2/3, SW4	H5T_C_S1	
99		SWI_electric_cal_level	H5T_STD_U8LE	2	343	2		Data_description	Electrical calibration signal level status 1 : Level1 2 : Level2 3 : Level3 4 : Level4 5 : Level5 6 : Level6	H5T_C_S1	
								TLM_info_tlmID	IR0529, IR0530	H5T_C_S1	
								TLM_info_name	IRS SWI 1-3 ELEC CAL LVL, IRS SWI 4 ELEC CAL LVL	H5T_C_S1	
								TLM_info_short_name	I SWI1-3 ELEC CAL, I SWI4 ELEC CAL	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	SW1/2/3, SW4	H5T_C_S1	
100		SWI_clamp_level	H5T_STD_U8LE	2	343	8		Data_description	Offset voltage level setting 0-255 : Level1-Level256	H5T_C_S1	
								TLM_info_tlmID	IR0531, IR0656, IR0657, IR0533, IR0534, IR0535, IR0536, IR0537	H5T_C_S1	
								TLM_info_name	IRS SWI 1-2 OFFSET, IRS SWI3-1 OFFSET, IRS SWI3-2 OFFSET, IRS SWI4-1 OFFSET, IRS SWI4-2 OFFSET, IRS SWI4-3 OFFSET, IRS SWI4-4 OFFSET, IRS SWI4-5 OFFSET	H5T_C_S1	
								TLM_info_short_name	I SWI1-2 OFFSET, I SWI3 OFFSET1, I SWI3 OFFSET2, I SWI4 OFFSET1, I SWI4 OFFSET2, I SWI4 OFFSET3, I SWI4 OFFSET4, I SWI4 OFFSET5	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	SW1/2/3 ,SW4 ,SW4-1ch ,SW4-2ch ,SW4-3ch ,SW4-4ch ,SW4-5ch	H5T_C_S1	SW1/2 ,SW3-1 ,SW3-2 ,SW4-1ch ,SW4-2ch ,SW4-3ch ,SW4-4ch ,SW4-5ch

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
101		TIR_ASP_mode_status	H5T_STD_U8LE	2	343	2		Data_description	Selected mode of TIR 1 : Wait modex 3 : Observation mode (observation data input) 4 : All scan data output mode 5 : Observation mode (electrical calibration input)	H5T_C_S1	
								TLM_info_tlmID	IR0539, IR0546	H5T_C_S1	
								TLM_info_name	IRS TIR1-A MODE, IRS TIR2-A MODE	H5T_C_S1	
								TLM_info_short_name	I TIR1A MODE, I TIR2A MODE	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	TI1-A ,TI2-A	H5T_C_S1	
102		TIR_long_short_status	H5T_STD_U8LE	2	343	2		Data_description	LONG/SHORT command status 0 : Short 1 : Long	H5T_C_S1	
								TLM_info_tlmID	IR0659, IR0660	H5T_C_S1	
								TLM_info_name	IRS TIR1 LG/ST CMD STS, IRS TIR2 LG/ST CMD STS	H5T_C_S1	
								TLM_info_short_name	I TIR1 LGST ST, I TIR2 LGST ST	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	TI1, TI2	H5T_C_S1	
103		TIR_long_short_counter	H5T_STD_U8LE	2	343	2		Data_description	LONG/SHORT command counter (change state 0->1->2->3 with every command)	H5T_C_S1	
								TLM_info_tlmID	IR0658, IR0655	H5T_C_S1	
								TLM_info_name	IRS TIR1 LG/ST CMD CNT, IRS TIR2 LG/ST CMD CNT	H5T_C_S1	
								TLM_info_short_name	I TIR1 LGST CNT, I TIR2 LGST CNT	H5T_C_S1	
								Minimum_valid_value	0	H5T_STD_U8LE	
								Maximum_valid_value	3	H5T_STD_U8LE	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	TI1, TI2	H5T_C_S1	
104		TIR_integration_time	H5T_STD_U8LE	2	343	2		Data_description	TIR integral time INT setting 1-8 selected(max:0, min:7)	H5T_C_S1	
								TLM_info_tlmID	IR0540, IR0547	H5T_C_S1	
								TLM_info_name	IRS TIR-A INTG SEL, IRS TIR-B INTG SEL	H5T_C_S1	
								TLM_info_short_name	I TIR-A INTG SEL, I TIR-B INTG SEL	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	A, B	H5T_C_S1	
105		TIR_electric_cal_level	H5T_STD_U8LE	2	343	2		Data_description	Electrical calibration signal level status 1 : Level1 2 : Level2 3 : Level3 4 : Level4 5 : Level5 6 : Level6	H5T_C_S1	
								TLM_info_tlmID	IR0541, IR0548	H5T_C_S1	
								TLM_info_name	IRS TIR1-A ELEC CAL LVL, IRS TIR2-A ELEC CAL LVL	H5T_C_S1	
								TLM_info_short_name	I TIR1A ELEC CAL, I TIR2A ELEC CAL	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	TIR-A, TIR-B	H5T_C_S1	
106		TIR_clamp_level	H5T_STD_U8LE	2	343	2	2	Data_description	TIR clamp(offset) 0-255 : level1-level256	H5T_C_S1	
								TLM_info_tlmID	IR0544, IR0545, IR0551, IR0552	H5T_C_S1	
								TLM_info_name	IRS TIR1-A OFFSET, IRS TIR1-B OFFSET, IRS TIR2-A OFFSET, IRS TIR2-B OFFSET	H5T_C_S1	
								TLM_info_short_name	I TIR1A OFFSET, I TIR1B OFFSET, I TIR2A OFFSET, I TIR2B OFFSET	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	TI1 ,TI2	H5T_C_S1	
								Dim3	A, B	H5T_C_S1	
107		LED_on_off	H5T_STD_U8LE	2	343			Data_description	LED ON/OFF status 0 : LED1-3 OFF / LED4-6 OFF 1 : LED1-3 OFF / LED4-6 ON 2 : LED1-3 ON / LED4-6 OFF 3 : LED1-3 ON / LED4-6 ON	H5T_C_S1	
								TLM_info_tlmID	IR0553	H5T_C_S1	
								TLM_info_name	IRS LED ON/OFF MODE	H5T_C_S1	
								TLM_info_short_name	I LED ONOFF	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
108		LED_PD_monitor	H5T_IEEE_F64LE	2	343			Data_description	LED monitor	H5T_C_S1	
								TLM_info_tlmID	IR0554	H5T_C_S1	
								TLM_info_name	IRS LED PD MON	H5T_C_S1	
								TLM_info_short_name	I LED ONOFF	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64LE	
								Maximum_valid_value	999999	H5T_IEEE_F64LE	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Unit	uA	H5T_C_S1	
109		Sun_PD_monitor	H5T_IEEE_F64LE	2	343	2		Data_description	Sun monitor	H5T_C_S1	
								TLM_info_tlmID	IR0555, IR0556	H5T_C_S1	
								TLM_info_name	IRS SUN PD MON1, IRS SUN PD MON2	H5T_C_S1	
								TLM_info_short_name	I SUN PD MON1, I SUN PD MON2	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64LE	
								Maximum_valid_value	-999	H5T_IEEE_F64LE	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	monitor1, monitor2	H5T_C_S1	
								Unit	nA	H5T_C_S1	
110		LED_current	H5T_IEEE_F32LE	2	343	6		Data_description	LED current	H5T_C_S1	
								TLM_info_tlmID	IR0557, IR0558, IR0559, IR0560, IR0561, IR0562	H5T_C_S1	
								TLM_info_name	IRS VIS-LED1 CUR, IRS VIS-LED2 CUR, IRS VIS-LED3 CUR, IRS VIS-LED4 CUR, IRS VIS-LED5 CUR, IRS VIS-LED6 CUR	H5T_C_S1	
								TLM_info_short_name	I CUR LED1, I CUR LED2, I CUR LED3, I CUR LED4, I CUR LED5, I CUR LED6	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	LED1-LED6	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F32LE	
								Maximum_valid_value	70	H5T_IEEE_F32LE	
								Unit	mA	H5T_C_S1	
111		Halogen_voltage	H5T_IEEE_F64LE	2	343			Data_description	Halogen voltage	H5T_C_S1	
								TLM_info_tlmID	IR0563	H5T_C_S1	
								TLM_info_name	IRS HAL VLT	H5T_C_S1	
								TLM_info_short_name	I HAL VLT MON	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64LE	
								Maximum_valid_value	12	H5T_IEEE_F64LE	
								Unit	V	H5T_C_S1	
112		Halogen_current	H5T_IEEE_F64LE	2	343			Data_description	Halogen current	H5T_C_S1	
								TLM_info_tlmID	IR0564	H5T_C_S1	
								TLM_info_name	IRS HAL CUR	H5T_C_S1	
								TLM_info_short_name	I HAL CUR MON	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64LE	
								Maximum_valid_value	2.5	H5T_IEEE_F64LE	
								Unit	A	H5T_C_S1	
113		TIR_temperature	H5T_IEEE_F64LE	2	343	2		Data_description	TIR temperature monitor	H5T_C_S1	
								TLM_info_tlmID	IR0565, IR0566	H5T_C_S1	
								TLM_info_name	IRS LWIRD TMP1, IRS LWIRD TMP2	H5T_C_S1	
								TLM_info_short_name	I LWID MON TMP1, I LWID MON TMP2	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	temp1(narrow), temp2(wide)	H5T_C_S1	
								Minimum_valid_value(narrow)	50	H5T_IEEE_F64LE	
								Maximum_valid_value(narrow)	60	H5T_IEEE_F64LE	
								Minimum_valid_value(wide)	47	H5T_IEEE_F64LE	
								Maximum_valid_value(wide)	170	H5T_IEEE_F64LE	
								Unit	K	H5T_C_S1	
114		LED_temperature	H5T_IEEE_F64LE	2	343	2		Data_description	LED temperature monitor	H5T_C_S1	
								TLM_info_tlmID	IR0567, IR0568	H5T_C_S1	
								TLM_info_name	IRS LED TMP1, IRS LED TMP2	H5T_C_S1	
								TLM_info_short_name	I LED MON TMP1, I LED MON TMP2	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	temp1, temp2	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64LE	
								Maximum_valid_value	50	H5T_IEEE_F64LE	
								Unit	degree C	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
115		PD_temperature	H5T_IEEE_F64LE	2	343			Data_description	PD temperature monitor	H5T_C_S1	
								TLM_info_tlmID	IR0569	H5T_C_S1	
								TLM_info_name	IRS PD TMP	H5T_C_S1	
								TLM_info_short_name	I PD MON TMP	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64LE	
								Maximum_valid_value	50	H5T_IEEE_F64LE	
								Unit	degree C	H5T_C_S1	
116		Halogen_temperature	H5T_IEEE_F64LE	2	343			Data_description	Halogen temperature monitor	H5T_C_S1	
								TLM_info_tlmID	IR0570	H5T_C_S1	
								TLM_info_name	IRS HAL TMP	H5T_C_S1	
								TLM_info_short_name	I HAL MON TMP	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64LE	
								Maximum_valid_value	50	H5T_IEEE_F64LE	
								Unit	degree C	H5T_C_S1	
117		Blackbody_temperature	H5T_IEEE_F64LE	2	343	5		Data_description	Black body temperature monitor	H5T_C_S1	
								TLM_info_tlmID	IR0571, IR0572, IR0573, IR0574, IR0575	H5T_C_S1	
								TLM_info_name	IRS BLACK BODY TMP1, IRS BLACK BODY TMP2, IRS BLACK BODY TMP3, IRS BLACK BODY TMP4, IRS BLACK BODY TMP5	H5T_C_S1	
								TLM_info_short_name	I BB MON TMP1, I BB MON TMP2, I BB MON TMP3, I BB MON TMP4, I BB MON TMP5	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	temp1-temp5	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64LE	
								Maximum_valid_value	50	H5T_IEEE_F64LE	
								Unit	degree C	H5T_C_S1	
118	Ancillary_data/HCE_SD	HCE_temperature	H5T_IEEE_F64LE	2	343	64		Data_description	HCE temperature monitor	H5T_C_S1	
								TLM_info_tlmID	IR0334-IR0397	H5T_C_S1	
								TLM_info_name	IRS HCE CH1 TMP-IRS HCE CH64 TMP	H5T_C_S1	
								TLM_info_short_name	I HCE TMP NUM1-I HCE TMP NUM64	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64LE	
								Maximum_valid_value	-999	H5T_IEEE_F64LE	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	temp1-temp64	H5T_C_S1	
								Unit	degree C	H5T_C_S1	
119	Ancillary_data/TEC_SD	TEC_drv_status	H5T_STD_U8LE	2	343			Data_description	TEC drive ON/OFF status 0 : OFF 1 : ON	H5T_C_S1	
								TLM_info_tlmID	IR0576	H5T_C_S1	
								TLM_info_name	IRS TEC DRV ON/OFF	H5T_C_S1	
								TLM_info_short_name	I TEC ONOFF	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
120		TEC_mode	H5T_STD_U8LE	2	343			Data_description	TEC mode switch status 0 : Constant current control 1 : PI control	H5T_C_S1	
								TLM_info_tlmID	IR0577	H5T_C_S1	
								TLM_info_name	IRS TEC CNTL MODE	H5T_C_S1	
								TLM_info_short_name	I TEC CTRL ST	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
121		TEC_temperature	H5T_STD_U8LE	2	343			Data_description	TEC temperature control setting value status 0 : Control temperature -32 degree C 1 : Control temperature -30 degree C	H5T_C_S1	
								TLM_info_tlmID	IR0578	H5T_C_S1	
								TLM_info_name	IRS TEC TMP STS	H5T_C_S1	
								TLM_info_short_name	I TEC TMP	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
122		TEC_current	H5T_IEEE_F64LE	2	343			Data_description	TEC control current	H5T_C_S1	
								TLM_info_tlmID	IR0579	H5T_C_S1	
								TLM_info_name	IRS TEC CUR	H5T_C_S1	
								TLM_info_short_name	I TEC CUR	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64LE	
								Maximum_valid_value	2	H5T_IEEE_F64LE	
								Unit	A	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
123		TEC_voltage	H5T_IEEE_F64LE	2	343			Data_description	TEC control voltage	H5T_C_S1	
								TLM_info_tlmID	IR0580	H5T_C_S1	
								TLM_info_name	IRS TEC VLT	H5T_C_S1	
								TLM_info_short_name	I TEC VLT	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64LE	
								Maximum_valid_value	2	H5T_IEEE_F64LE	
								Unit	V	H5T_C_S1	
124		SWI_temperature	H5T_IEEE_F64LE	2	343	2		Data_description	SWI temperature monitor	H5T_C_S1	
								TLM_info_tlmID	IR0581, IR0582	H5T_C_S1	
								TLM_info_name	IRS TEC SWIR TMP1, IRS TEC SWIR TMP2	H5T_C_S1	
								TLM_info_short_name	I TEC TMP MON1, I TEC TMP MON2	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	temp1(narrow), temp2(wide)	H5T_C_S1	
								Minimum_valid_value(narrow)	-35	H5T_IEEE_F64LE	
								Maximum_valid_value(narrow)	-25	H5T_IEEE_F64LE	
								Minimum_valid_value(wide)	-35	H5T_IEEE_F64LE	
								Maximum_valid_value(wide)	-25	H5T_IEEE_F64LE	
								Unit	degree C	H5T_C_S1	
125	Ancillary_data/CCE_SD	STC_voltage_set_monitor	H5T_IEEE_F64LE	2	343			Data_description	STC_voltage_set_monitor	H5T_C_S1	
								TLM_info_tlmID	IR0583	H5T_C_S1	
								TLM_info_name	IRS CCE STC SET VLT	H5T_C_S1	
								TLM_info_short_name	I CCE STC VLT SET MON	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64LE	
								Maximum_valid_value	22.721	H5T_IEEE_F64LE	
								Unit	Vrms	H5T_C_S1	
126		STB_voltage_set_monitor	H5T_IEEE_F64LE	2	343			Data_description	STB_voltage_set_monitor	H5T_C_S1	
								TLM_info_tlmID	IR0584	H5T_C_S1	
								TLM_info_name	IRS CCE STB SET VLT	H5T_C_S1	
								TLM_info_short_name	I CCE STB VLT SET MON	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64LE	
								Maximum_valid_value	2.754	H5T_IEEE_F64LE	
								Unit	Vrms	H5T_C_S1	
127		STB_power_set_monitor	H5T_IEEE_F64LE	2	343			Data_description	STB_power_set_monitor	H5T_C_S1	
								TLM_info_tlmID	IR0585	H5T_C_S1	
								TLM_info_name	IRS CCE STB SET PHASE	H5T_C_S1	
								TLM_info_short_name	I CCE STB PWR SET MON	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	271.2	H5T_IEEE_F64LE	
								Maximum_valid_value	327.9	H5T_IEEE_F64LE	
								Unit	degree	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
128		CCE_status_monitor	H5T_STD_U8LE	2	343			Data_description	CCE status monitor	H5T_C_S1	
								TLM_info_tlmID	IR0598	H5T_C_S1	
								TLM_info_name	IRS CCE STS	H5T_C_S1	
								TLM_info_short_name	I CCE ST MON	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Bit00(LSB)	STC OVI 0 : Normal 1 : OVI	H5T_C_S1	
								Bit01	STB OVI 0 : Normal 1 : OVI	H5T_C_S1	
								Bit02	TLM REQ RETRY 0 : No retry 1 : Retry	H5T_C_S1	
								Bit03	CMD RETRY 0 : No retry 1 : Retry	H5T_C_S1	
								Bit04	DRIVE TLM 0 : Update 1 : No update	H5T_C_S1	
								Bit05	CTRL TLM 0 : Update 1 : No update	H5T_C_S1	
								Bit06	COMN 0 : A 1 : B	H5T_C_S1	
								Bit07	IRS CCE temperature sensor 0 : TMP1 1 : TMP2	H5T_C_S1	
129		STC_voltage	H5T_IEEE_F64LE	2	343			Data_description	STC voltage monitor	H5T_C_S1	
								TLM_info_tlmID	IR0587	H5T_C_S1	
								TLM_info_name	IRS CCE STC VLT	H5T_C_S1	
								TLM_info_short_name	I CCE STC VLT MON	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64LE	
								Maximum_valid_value	23.435	H5T_IEEE_F64LE	
								Unit	Vrms	H5T_C_S1	
130		STC_current	H5T_IEEE_F64LE	2	343			Data_description	STC current monitor	H5T_C_S1	
								TLM_info_tlmID	IR0588	H5T_C_S1	
								TLM_info_name	IRS CCE STC CUR	H5T_C_S1	
								TLM_info_short_name	I CCE STC CUR MON	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64LE	
								Maximum_valid_value	4.333	H5T_IEEE_F64LE	
								Unit	Arms	H5T_C_S1	
131		STC_power	H5T_IEEE_F64LE	2	343			Data_description	STC power monitor	H5T_C_S1	
								TLM_info_tlmID	IR0589	H5T_C_S1	
								TLM_info_name	IRS CCE STC PWR MON	H5T_C_S1	
								TLM_info_short_name	I CCE STC PWR MON	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64LE	
								Maximum_valid_value	65.357	H5T_IEEE_F64LE	
								Unit	W	H5T_C_S1	
132		STB_voltage	H5T_IEEE_F64LE	2	343			Data_description	STB voltage monitor	H5T_C_S1	
								TLM_info_tlmID	IR0590	H5T_C_S1	
								TLM_info_name	IRS CCE STB VLT	H5T_C_S1	
								TLM_info_short_name	I CCE STB VLT MON	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64LE	
								Maximum_valid_value	2.55	H5T_IEEE_F64LE	
								Unit	Vrms	H5T_C_S1	
133		STB_current	H5T_IEEE_F64LE	2	343			Data_description	STB current monitor	H5T_C_S1	
								TLM_info_tlmID	IR0591	H5T_C_S1	
								TLM_info_name	IRS CCE STB CUR	H5T_C_S1	
								TLM_info_short_name	I CCE STB CUR MON	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64LE	
								Maximum_valid_value	1.173	H5T_IEEE_F64LE	
								Unit	Arms	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
134		STB_power	H5T_IEEE_F64LE	2	343			Data_description	STB power monitor	H5T_C_S1	
								TLM_info_tlmID	IR0592	H5T_C_S1	
								TLM_info_name	IRS CCE STB PWR MON	H5T_C_S1	
								TLM_info_short_name	I CCE STB PWR MON	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64LE	
								Maximum_valid_value	1.658	H5T_IEEE_F64LE	
								Unit	W	H5T_C_S1	
135		Cold_stage_heater_voltage	H5T_IEEE_F64LE	2	343			Data_description	Heat voltage monitor	H5T_C_S1	
								TLM_info_tlmID	IR0595	H5T_C_S1	
								TLM_info_name	IRS CCE HTR VLT	H5T_C_S1	
								TLM_info_short_name	I CCE HTR VLT MON	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64LE	
								Maximum_valid_value	9.96	H5T_IEEE_F64LE	
								Unit	V	H5T_C_S1	
136		Cold_stage_heater_current	H5T_IEEE_F64LE	2	343			Data_description	Heat current monitor	H5T_C_S1	
								TLM_info_tlmID	IR0596	H5T_C_S1	
								TLM_info_name	IRS CCE HTR CUR	H5T_C_S1	
								TLM_info_short_name	I CCE HTR CUR MON	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64LE	
								Maximum_valid_value	99.6	H5T_IEEE_F64LE	
								Unit	mA	H5T_C_S1	
137		Cold_stage_heater_power	H5T_IEEE_F64LE	2	343			Data_description	Heat power monitor	H5T_C_S1	
								TLM_info_tlmID	IR0597	H5T_C_S1	
								TLM_info_name	IRS CCE HTR PWR MON	H5T_C_S1	
								TLM_info_short_name	I CCE HTR PWR MON	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64LE	
								Maximum_valid_value	996	H5T_IEEE_F64LE	
								Unit	mW	H5T_C_S1	
138	Ancillary_data/SMCU	Scan_rate	H5T_IEEE_F64LE	2	343			Data_description	Scan rotation rate	H5T_C_S1	
								TLM_info_tlmID	IR0611	H5T_C_S1	
								TLM_info_name	IRS SMCU SCAN RATE	H5T_C_S1	
								TLM_info_short_name	I SM SCAN RATE	H5T_C_S1	
								Minimum_valid_value	0	H5T_IEEE_F64LE	
								Maximum_valid_value	127.5	H5T_IEEE_F64LE	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Unit	rpm	H5T_C_S1	
139	Ancillary_data/Scan_angle	Scan_angle_ENG	H5T_IEEE_F64LE	2	343	1000		Data_description	Scan angle data	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
								Dim2	1/1000 Revolution	H5T_C_S1	
	Converted_PCD	—	—	—	—	—	—	Worst_orbit_source	0	H5T_STD_U8LE	
		—	—	—	—	—	—	Worst_orbit_source_data_description	Source of orbit data(GPS_position_ECR,GPS_velocity_ECR,GPS_position_ECI,GPS_velocity_ECI,Argument_of_latitude) 0 : Realtime PCD 1 : Decision Ephemeris 2 : Prediction Ephemeris	H5T_C_S1	
		—	—	—	—	—	—	Worst_attitude_source	0	H5T_STD_U8LE	
		—	—	—	—	—	—	Worst_attitude_source_data_description	Source of attitude data(Attitude_time,Attitude_error_angle,Attitude_angular_velocity,Attitude_flag,Quaternion,Quaternion_index,Quaternion_number) 0 : Realtime PCD (Quaternion) 1 : Realtime PCD (Eular angle) 2 : Nominal	H5T_C_S1	
140		Navigation_time	H5T_IEEE_F64LE	354				Data_description	GPS navigation time	H5T_C_S1	
								Epoch_time	19800106 00:00:00	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Unit	sec	H5T_C_S1	
141		GPS_position_ECR	H5T_IEEE_F32LE	354	3			Data_description	GCOM-C position calculated by GPS	H5T_C_S1	
								Coordinate_system	WGS84	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Dim1	x,y,z	H5T_C_S1	
								Unit	km	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
142		GPS_velocity_ECR	H5T_IEEE_F32LE	354	3			Data_description	GCOM-C velocity calculated by GPS	H5T_C_S1	
								Coordinate_system	WGS84	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Dim1	Vx,Vy,Vz	H5T_C_S1	
								Unit	km/s	H5T_C_S1	
143		GPS_position_ECI	H5T_IEEE_F32LE	354	3			Data_description	GCOM-C position calculated by GPS	H5T_C_S1	
								Coordinate_system	J2000	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Dim1	x,y,z	H5T_C_S1	
								Unit	km	H5T_C_S1	
144		GPS_velocity_ECI	H5T_IEEE_F32LE	354	3			Data_description	GCOM-C velocity calculated by GPS	H5T_C_S1	
								Coordinate_system	J2000	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Dim1	Vx,Vy,Vz	H5T_C_S1	
								Unit	km/s	H5T_C_S1	
145		Argument_of_latitude	H5T_IEEE_F32LE	354				Data_description	Argument of latitude (true anomaly)	H5T_C_S1	
								Coordinate_system	WGS84	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
								Unit	degree	H5T_C_S1	
146		Navigation_status	H5T_STD_U32LE	354				Data_description	Navigation status	H5T_C_S1	
								Bit00(LSB)-01	navigation status 00 : Stop 01 : AG filter 10 : Kalman filter 11 : Kalman filter(Convergence)	H5T_C_S1	
								Bit02-07	spare	H5T_C_S1	
								Bit08-09	antenna (CH1) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit10-11	antenna (CH2) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit12-13	antenna (CH3) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit14-15	antenna (CH4) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit16-17	antenna (CH5) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit18-19	antenna (CH6) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit20-21	antenna (CH7) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit22-23	antenna (CH8) 00 : Not use 01 : GPSR-A 10 : GPSR-B 11 : N/A	H5T_C_S1	
								Bit24-31(MSB)	spare	H5T_C_S1	
								Dim0	Realtime PCD records (1Hz)	H5T_C_S1	
147		Attitude_time	H5T_IEEE_F64LE	354				Data_description	Time when attitude determined	H5T_C_S1	
								Epoch_time	19800106 00:00:00	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Unit	sec	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
148		Attitude_error_angle	H5T_IEEE_F32LE	354	3			Data_description	Attitude error	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Dim1	Roll, Pitch, Yaw	H5T_C_S1	
								Unit	degree	H5T_C_S1	
149		Attitude_angular_velocity	H5T_IEEE_F32LE	354	3			Data_description	Attitude angular velocity	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Dim1	Roll, Pitch, Yaw	H5T_C_S1	
								Unit	degree/sec	H5T_C_S1	
150		Attitude_flag	H5T_STD_U8LE	354				Data_description	Quaternion usable / unusable flag 0 : ESA/IRU (quaternion unusable) 1 : STT/IRU (quaternion usable) 255 : Error value	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
151		Quaternion	H5T_IEEE_F32LE	354	11	4		Data_description	Quaternion(9-11 data per sec)	H5T_C_S1	
								Error_value	-999.99	H5T_IEEE_F32LE	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Dim1	Maximum number of quaternions (unusable area is stored with indefinite value)	H5T_C_S1	
								Dim2	q1, q2, q3, q4(scalar)	H5T_C_S1	
152		Quaternion_index	H5T_STD_U8LE	354				Data_description	Quaternion index (0-10) corresponds to	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Minimum_valid_value	0	H5T_STD_U8LE	
								Maximum_valid_value	10	H5T_STD_U8LE	
153		Quaternion_number	H5T_STD_U8LE	354				Data_description	Available number of quaternion	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
								Error_value	255	H5T_STD_U8LE	
								Minimum_valid_value	9	H5T_STD_U8LE	
								Maximum_valid_value	11	H5T_STD_U8LE	
154		AOCS_mode	H5T_STD_U8LE	354				Data_description	AOCS(attitude and Orbit Control System) control mode	H5T_C_S1	
								Bit00(LSB)-07	Control Mode / Control Sub Mode 01110000 : Normal control / Not execute unloading 01110001 : Normal control / Execute magnetic unloading 01110010 : Normal control / Execute thruster unloading 10000000 : Orbit control / Attitude control thruster Delta-V (pitch and yaw-failure) 10000001 : Orbit control / Orbit control thruster (normal) 10000010 : Orbit control / Orbit control thruster Delta-V (pitch-failure) 10000011 : Orbit control / Orbit control thruster Delta-V (yaw-failure) 10000100 : Orbit control / Attitude control thruster(Three axis stabilized attitude control) 10000101 : Orbit control / Delta-V Idling 10000110 : Orbit control / Yaw around (first half) 10000111 : Orbit control / Yaw around (last half) 10010000 : Calibration Maneuver / Solar calibration or Gain deviation maneuver(First maneuver) 10010001 : Calibration Maneuver / Solar calibration or Gain deviation maneuver(Second maneuver) 10010010 : Calibration Maneuver / Solar calibration or Gain deviation maneuver(Third maneuver) 10010011 : Calibration Maneuver / Lunar calibration maneuver(First maneuver) 10010100 : Calibration Maneuver / Lunar calibration maneuver(Second maneuver) 10010101 : Calibration Maneuver / Lunar calibration maneuver(Third maneuver) Others : Not defined	H5T_C_S1	
								Error_value	255	H5T_C_S1	
								Dim0	Realtime PCD records (1Hz)	H5T_C_S1	
155		Orbit_source	H5T_STD_U8LE	354				Data_description	Source of orbit data(GPS_position_ECR,GPS_velocity_ECR,GPS_position_ECI,GPS_velocity_ECI,Argument_of_latitude) 0 : Realtime PCD 1 : Decision Ephemeris 2 : Prediction Ephemeris	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
156		Attitude_source	H5T_STD_U8LE	354				Data_description	Source of attitude data(Attitude_time,Attitude_error_angle,Attitude_angular_velocity,Attitude_flag,Quaternion,Quaternion_index,Quaternion_number) 0 : Realtime PCD (Quaternion) 1 : Realtime PCD (Eular angle) 2 : Nominal	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
157	Data_quality_flag	Qf_scan_SWI	H5T_STD_U8LE	3	1854			Data_description	Quality flag of each scan	H5T_C_S1	
								Dim0	SW1, SW2, SW4	H5T_C_S1	
								Dim1	L1B-lines	H5T_C_S1	
								Bit00(LSB)-002	Quality flag 000 : Normal line 001 : Lack line 011 : Lack line (1km/500m->250m or 1km->500m) 100 : Lack line (for calibration) 101 : Lack line (for synchronization between sensors) 010 : Resampling line (250m->1km/500m) 110 : Resampling line (500m->1km) 111 : Mixed line (000,001,011,100,101,010,110)	H5T_C_S1	
158		Qf_scan_SW3	H5T_STD_U8LE	7416				Data_description	Quality flag of each scan	H5T_C_S1	
								Bit00(LSB)-002	Quality flag 000 : Normal line 001 : Lack line 011 : Lack line (1km/500m->250m or 1km->500m) 100 : Lack line (for calibration) 101 : Lack line (for synchronization between sensors) 010 : Resampling line (250m->1km/500m) 110 : Resampling line (500m->1km) 111 : Mixed line (000,001,011,100,101,010,110)	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
159		Qf_scan_TIR	H5T_STD_U8LE	2	3708			Data_description	Quality flag of each scan	H5T_C_S1	
								Dim0	TIR1, TIR2	H5T_C_S1	
								Dim1	L1B-lines	H5T_C_S1	
								Bit00(LSB)-002	Quality flag 000 : Normal line 001 : Lack line 011 : Lack line (1km/500m->250m or 1km->500m) 100 : Lack line (for calibration) 101 : Lack line (for synchronization between sensors) 010 : Resampling line (250m->1km/500m) 110 : Resampling line (500m->1km) 111 : Mixed line (000,001,011,100,101,010,110)	H5T_C_S1	
160		Qf_data_SWI	H5T_STD_U16LE	1854	1250			Data_description	Quality flag of each pixel	H5T_C_S1	
								Bit00(LSB)-Bit02	Stray-light quantity flag SW1 SW2 SW4 0 : Less than threshold 1 : More than threshold	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
161		Qf_data_SW3	H5T_STD_U16LE	7416	5000			Data_description	Quality flag of each pixel	H5T_C_S1	
								Bit00(LSB)	Stray-light quantity flag SW3 0 : Less than threshold 1 : More than threshold	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
162		Qf_data_TIR	H5T_STD_U16LE	3708	2500			Data_description	Quality flag of each pixel	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
163		Qf_data_stray	H5T_STD_U8LE	7416	5000			Data_description	delta_L: The amount of stray light correction for the representative channel. delta_L = Ltrue - Lobs, where Ltrue is the stray light corrected radiance, Lobs is the observed radiance respectively. Band_weighted_TOA_solar_irradiance, F0/D^2; F0: Band weighted TOA solar irradiance at 1 AU (Thuiller 2003), D: Sun-Earth distance (unit: AU)	H5T_C_S1	
								Band_width	200	H5T_IEEE_F32LE	
								Band_width_unit	nm	H5T_C_S1	
								Center_wavelength	1630	H5T_IEEE_F32LE	
								Center_wavelength_unit	nm	H5T_C_S1	
								Band_weighted_TOA_solar_irradiance	237.5784	H5T_IEEE_F32LE	
								Band_weighted_TOA_solar_irradiance_unit	W/m^2/um	H5T_C_S1	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
								Error_DN	255	H5T_STD_U8LE	
								Maximum_valid_DN	254	H5T_STD_U8LE	
								Minimum_valid_DN	0	H5T_STD_U8LE	
								Saturation_radiance	55.22	H5T_IEEE_F32LE	
								Saturation_radiance_unit	W/m^2/um/sr	H5T_C_S1	
								Spatial_resolution	250.0	H5T_IEEE_F32LE	
								Spatial_resolution_unit	meter	H5T_C_S1	
								Unit	W/m^2/um/sr	H5T_C_S1	
								Slope	0.00367721	H5T_IEEE_F32LE	
								Offset	-5.02	H5T_IEEE_F32LE	
								Channel	SWI3	H5T_C_S1	
164		Qf_GPS	H5T_STD_U8LE	354				Data_description	Quality flag of GPS 0 : GPS time standard 1 : DMS time standard 255 : Error value	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
165		Qf_sc_position	H5T_STD_U8LE	354				Data_description	Quality flag of GCOM-C position 0 : Normal 1 : Satellite position value falls outside the normal range(or Error value)	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
166		Qf_sc_velocity	H5T_STD_U8LE	354				Data_description	Quality flag of GCOM-C velocity 0 : Normal 1 : Satellite velocity value falls outside the normal range(or Error value)	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
167		Qf_sc_attitude_quaternion	H5T_STD_U8LE	354				Data_description	Quality flag of GCOM-C quaternion 0 : Normal 1 : Abnormal(or Error value)	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
168		Qf_sc_attitude_eular_angle	H5T_STD_U8LE	354				Data_description	Quality flag of GCOM-C eular angle 0 : Normal 1 : Abnormal(or Error value)	H5T_C_S1	
								Dim0	attitude records (1Hz)	H5T_C_S1	
169		Qf_sc_status	H5T_STD_U8LE	354				Data_description	Quality flag of GCOM-C status 0 : Normal 1 : Possibly less accurate around maneuver or tilt	H5T_C_S1	
								Dim0	orbit records (1Hz)	H5T_C_S1	
170		Qf_sun_calibration	H5T_STD_U8LE	343				Data_description	Quality flag of Sun calibration (SWI only) 0 : Not Sun calibration(Solar elevation value is within the normal range) 1 : Sun calibration(Solar elevation value falls outside the normal range)	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
171		Qf_Internal_lamp_calibration	H5T_STD_U8LE	343				Data_description	Quality flag of Internal light calibration (SWI only) 0 : Not internal light calibration	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
172		Qf_electric_calibration	H5T_STD_U8LE	2	343			Data_description	Quality flag of electrical calibration 0 : Not electrical calibration 1 : Electrical calibration	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
173		Qf_maneuver	H5T_STD_U8LE	2	343			Data_description	Quality flag of maneuver 0 : Not maneuver 1 : Not maneuver(out of range) 11 : Maneuver(Moon,out of range) 12 : Maneuver(Moon,in of range) 13 : Maneuver(Moon,indefinite) 21 : Maneuver(Sun/Gain deviation) 22 : Maneuver(Sun/Gain deviation,indefinite) 31 : Orbit Control Mode(STT/IRU) 32 : Orbit Control Mode(STT/IRU,indefinite) 33 : Orbit Control Mode(not STT/IRU) 34 : Orbit Control Mode(not STT/IRU,indefinite) 255 : AOCS Control Mode Error value(nominal attitude)	H5T_C_S1	
								Dim0	SWI, TIR	H5T_C_S1	
								Dim1	scans	H5T_C_S1	
174		Qf_LWIR_temperature	H5T_STD_U8LE	343				Data_description	Quality flag of LWIR (TIR) temperature 0 : Normal 1 : LWIR temperature falls outside the normal range	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
175		Qf_SWIR_temperature	H5T_STD_U8LE	343	2			Data_description	Quality flag of SWIR (SWIR) temperature 0 : Normal 1 : SWIR temperature falls outside the normal range	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
								Dim1	temp1(narrow), temp2(wide)	H5T_C_S1	
176		Qf_LED_temperature	H5T_STD_U8LE	343				Data_description	Quality flag of LED temperature 0 : Normal 1 : LED temperature falls outside the normal	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
177		Qf_halogen_temperature	H5T_STD_U8LE	343				Data_description	Quality flag of Halogen temperature 0 : Normal 1 : Halogen temperature falls outside the normal range	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
178		Qf_blackbody_temperature	H5T_STD_U8LE	343				Data_description	Quality flag of Blackbody temperature	H5T_C_S1	
								Bit00(LSB)-Bit04	temperature1 - temperature5 0 : Normal 1 : Blackbody temperature falls outside the normal range	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
179		Qf_ASP_temperature	H5T_STD_U8LE	343				Data_description	Quality flag of ASP temperature	H5T_C_S1	
								Bit00(LSB)	ASP temperature 0 : Normal 1 : ASP temperature falls outside the normal range	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
180		Qf_preamp_temperature	H5T_STD_U8LE	343				Data_description	Quality flag of preamp temperature	H5T_C_S1	
								Bit00(LSB)	Preamp temperature 0 : Normal 1 : Preamp temperature falls outside the normal range	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
181		Qf_around_blackbody_temperature	H5T_STD_U8LE	343				Data_description	Quality flag of temperature around blackbody	H5T_C_S1	
								Bit00(LSB)	temperature around blackbody 0 : Normal 1 : Temperature around Blackbody falls outside the normal range	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
182		Qf_moon_affect	H5T_STD_U16LE	343				Data_description	Flag of moon affect from deep space window	H5T_C_S1	
								Bit00(LSB)-Bit05	SW1-SW4, TI1-TI2 0 : No affect 1 : Affect	H5T_C_S1	
								Dim0	scans	H5T_C_S1	
183		Qf_scan_rate	H5T_STD_U8LE	343				Data_description	Flag of scan rotation rate 0 : No affect 1 : Affect	H5T_C_S1	
								Dim0	scans	H5T_C_S1	

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks	
184		Qf_gain_SWI	H5T_STD_U16LE	1715				Data_description	Quality flag of gain (SW1,SW2,SW4)	H5T_C_S1		
								Bit00(LSB)-Bit02	SW1,SW2,SW4 0 : Good precision 1 : Bad precision	H5T_C_S1		
								Dim0	L1A-lines	H5T_C_S1		
185		Qf_gain_SW3	H5T_STD_U16LE	6860				Data_description	Quality flag of gain (SW3)	H5T_C_S1		
								Bit00(LSB)	SW3 0 : Good precision 1 : Bad precision	H5T_C_S1		
								Dim0	L1A-lines	H5T_C_S1		
186		Qf_gain_TIR	H5T_STD_U16LE	3430				Data_description	Quality flag of gain (TIR)	H5T_C_S1		
								Bit00(LSB)-Bit01	TI1-TI2 0 : Good precision 1 : Bad precision	H5T_C_S1		
								Dim0	L1A-lines	H5T_C_S1		
187		Qf_offset_SWI	H5T_STD_U16LE	1715				Data_description	Quality flag of offset (SW1,SW2,SW4)	H5T_C_S1		
								Bit00(LSB)-Bit02	SW1,SW2,SW4 0 : Good precision 1 : Bad precision	H5T_C_S1		
								Dim0	L1A-lines	H5T_C_S1		
188		Qf_offset_SW3	H5T_STD_U16LE	6860				Data_description	Quality flag of offset (SW3)	H5T_C_S1		
								Bit00(LSB)	SW3 0 : Good precision 1 : Bad precision	H5T_C_S1		
								Dim0	L1A-lines	H5T_C_S1		
189		Qf_offset_TIR	H5T_STD_U16LE	3430				Data_description	Quality flag of offset	H5T_C_S1		
								Bit00(LSB)-Bit01	TI1-TI2 0 : Good precision 1 : Bad precision	H5T_C_S1		
								Dim0	L1A-lines	H5T_C_S1		
190		Saturation_num_in_line_SWI	H5T_STD_U16LE	3	1854			Data_description	Number of saturation data in line (SWI1,2,4)	H5T_C_S1	Calculation method of the saturation pixel rate and saturation condition are the same as VNR-NP. Saturation threshold value of the Spectral radiance is the processing parameter for each band.	B
								Dim0	SWI1,2,4	H5T_C_S1		
								Dim1	L1B-lines	H5T_C_S1		
191		Saturation_num_in_line_SW3	H5T_STD_U16LE	7416				Data_description	Number of saturation data in line (SWI3)	H5T_C_S1	Calculation method of the saturation pixel rate and saturation condition are the same as VNR-NP. Saturation threshold value of the Spectral radiance is the processing parameter for each resolution.	B
								Dim0	L1B-lines	H5T_C_S1		
192		Saturation_num_in_line_TIR	H5T_STD_U16LE	2	3708			Data_description	Number of saturation data in line (TIR)	H5T_C_S1	Calculation method of the saturation pixel rate and saturation condition are the same as VNR-NP. Saturation threshold value of the Spectral radiance is the processing parameter for each band and resolution.	B
								Dim0	TIR1,2	H5T_C_S1		
								Dim1	L1B-lines	H5T_C_S1		
	Geometry_parameter	—	—	—	—	—	—	Geometry_parameter_version	0002	H5T_C_S1		B
193		Sensor_position	H5T_IEEE_F64LE	3				Data_description	Sensor base position	H5T_C_S1		
								Dim0	x, y, z	H5T_C_S1		
								Unit	mm	H5T_C_S1		
194		GPSR_position	H5T_IEEE_F64LE	2	3			Data_description	GPSR position	H5T_C_S1		
								Dim0	Antenna-A, Antenna-B	H5T_C_S1		
								Dim1	x, y, z	H5T_C_S1		
								Unit	mm	H5T_C_S1		
195		DTC_sensor_alignment	H5T_IEEE_F64LE	3	3			Data_description	Sensor alignment	H5T_C_S1		
								Dim0	Rows	H5T_C_S1		
								Dim1	Columns	H5T_C_S1		
								Unit	N/A	H5T_C_S1		
196		DTC_primary_change_rate	H5T_IEEE_F64LE	3				Data_description	Primary_change_rate	H5T_C_S1		
								Dim0	lx, ly, lz	H5T_C_S1		
								Unit	radian/day	H5T_C_S1		

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
197		DTC_exponential_amplitude	H5T_IEEE_F64LE	3				Data_description	Exponential term amplitude	H5T_C_S1	
								Dim0	Ax, Ay, Az	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
198		DTC_exponential_time_const	H5T_IEEE_F64LE	1				Data_description	Exponential term time constant	H5T_C_S1	
								Unit	day	H5T_C_S1	
199		DTC_long_period	H5T_IEEE_F64LE	1				Data_description	Long round period	H5T_C_S1	
								Epoch_time	20000101	H5T_C_S1	
								Unit	day	H5T_C_S1	
200		DTC_long_fourier_coef	H5T_IEEE_F64LE	6	8			Data_description	Fourier series coefficient (Long round period)	H5T_C_S1	
								Dim0	ax, bx, ay, by, az, bz	H5T_C_S1	
								Dim1	degree1-degree8	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
201		DTC_orbit_period	H5T_IEEE_F64LE	1				Data_description	Orbit period	H5T_C_S1	
								Unit	min	H5T_C_S1	
202		DTC_orbit_fourier_coef	H5T_IEEE_F64LE	6	8			Data_description	Fourier series coefficient (Orbit period)	H5T_C_S1	
								Dim0	ax, bx, ay, by, az, bz	H5T_C_S1	
								Dim1	degree1-degree8	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
203		SCN_sensor_alignment	H5T_IEEE_F64LE	3	3			Data_description	Sensor alignment	H5T_C_S1	
								Dim0	Rows	H5T_C_S1	
								Dim1	Columns	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
204		SCN_primary_change_rate	H5T_IEEE_F64LE	3				Data_description	Primary_change_rate	H5T_C_S1	
								Dim0	lx, ly, lz	H5T_C_S1	
								Unit	radian/day	H5T_C_S1	
205		SCN_exponential_amplitude	H5T_IEEE_F64LE	3				Data_description	Exponential term amplitude	H5T_C_S1	
								Dim0	Ax, Ay, Az	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
206		SCN_exponential_time_const	H5T_IEEE_F64LE	1				Data_description	Exponential term time constant	H5T_C_S1	
								Unit	day	H5T_C_S1	
207		SCN_long_period	H5T_IEEE_F64LE	1				Data_description	Long round period	H5T_C_S1	
								Epoch_time	20000101	H5T_C_S1	
								Unit	day	H5T_C_S1	
208		SCN_long_fourier_coef	H5T_IEEE_F64LE	6	8			Data_description	Fourier series coefficient (Long round period)	H5T_C_S1	
								Dim0	ax, bx, ay, by, az, bz	H5T_C_S1	
								Dim1	degree1-degree8	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
209		SCN_orbit_period	H5T_IEEE_F64LE	1				Data_description	Orbit period	H5T_C_S1	
								Unit	min	H5T_C_S1	
210		SCN_orbit_fourier_coef	H5T_IEEE_F64LE	6	8			Data_description	Fourier series coefficient (Orbit period)	H5T_C_S1	
								Dim0	ax, bx, ay, by, az, bz	H5T_C_S1	
								Dim1	degree1-degree8	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
211		Rotation_angle_ref	H5T_IEEE_F64LE	1				Data_description	Rotation angle_ref	H5T_C_S1	
								Unit	degree	H5T_C_S1	
212		Motor_linearity_coef	H5T_IEEE_F64LE	2	10			Data_description	Motor linearity correction coefficient	H5T_C_S1	
								Dim0	correction function, reverse function	H5T_C_S1	
								Dim1	A0(B0)-A9(B9)	H5T_C_S1	
								Unit	N/A	H5T_C_S1	
213		Geo_opt_SWI	H5T_IEEE_F64LE	3	3	5		Data_description	Detector vector parameter (SWI)	H5T_C_S1	
								Dim0	SW1, SW2, SW4	H5T_C_S1	
								Dim1	d_ct, d_at, f	H5T_C_S1	
								Dim2	pixel01-pixel05	H5T_C_S1	
								Unit	mm	H5T_C_S1	
214		Geo_opt_SW3	H5T_IEEE_F64LE	3	20			Data_description	Detector vector parameter (TIR)	H5T_C_S1	
								Dim0	d_ct, d_at, f	H5T_C_S1	
								Dim1	pixel01-pixel20	H5T_C_S1	
								Unit	mm	H5T_C_S1	
215		Geo_opt_TIR	H5T_IEEE_F64LE	4	3	20		Data_description	Detector vector parameter (TIR)	H5T_C_S1	
								Dim0	TI1-A, TI1-B, TI2-A, TI2-B	H5T_C_S1	
								Dim1	d_ct, d_at, f	H5T_C_S1	
								Dim2	pixel01-pixel20	H5T_C_S1	
								Unit	mm	H5T_C_S1	
216		IRS_sample_start_number	H5T_STD_U16LE	6	3			Data_description	sample start nunmber of IRS scan	H5T_C_S1	
								Dim0	T1-T6	H5T_C_S1	
								Dim1	1km, 500m, 250m	H5T_C_S1	
								Unit	sample (1 origin)	H5T_C_S1	
217		IRS_sample_start_time	H5T_IEEE_F64LE	6				Data_description	sample start time of IRS scan	H5T_C_S1	
								Dim0	T1-T6	H5T_C_S1	
								Unit	msec	H5T_C_S1	
218		IRS_delta_ts	H5T_IEEE_F64LE	3	3			Data_description	sampling interval of IRS scan	H5T_C_S1	
								Dim0	(SW1&SW2&SW4), SW3, TIR	H5T_C_S1	
								Dim1	1km, 500m, 250m	H5T_C_S1	
								Unit	usec	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

No.	Group	Dataset	Type	Dim. 0	Dim. 1	Dim. 2	Dim. 3	Attribute	Attribute Value	Attribute Type	Remarks
219		K_DELAY	H5T_IEEE_F64LE	6	20			Data_description	K_DELAY: relative sample delay	H5T_C_S1	
								Dim0	SW1, SW2, SW3(250m), SW3(1km), SW4, TIR	H5T_C_S1	
								Dim1	pixels	H5T_C_S1	
220	Earth_rotation_parameter	Polar_motion	H5T_IEEE_F64LE	2				Data_description	Polar motion parameter	H5T_C_S1	
								Dim0	dx, dy	H5T_C_S1	
								Unit	sec of arc	H5T_C_S1	
221		UT1-UTC	H5T_IEEE_F32LE	1				Data_description	UT1-UTC	H5T_C_S1	
								Unit	sec	H5T_C_S1	
222		Precession_nutation	H5T_IEEE_F64LE	2				Data_description	Precession and nutation parameter	H5T_C_S1	
								Dim0	dpsi, deps	H5T_C_S1	
								Unit	msec of arc	H5T_C_S1	
223	Extended_area	Stray_sign_flag_1km_SWI	H5T_STD_U8LE	1854	1250			Data_description	Resampled stray sign flag of SWI	H5T_C_S1	
								Bit00(LSB)	SW03 0 : Sign of stray light quantity is positive (or zero) 1 : Sign of stray light quantity is negative	H5T_C_S1	
								Dim0	L1B-lines(1km)	H5T_C_S1	
								Dim1	L1B-pixels(1km)	H5T_C_S1	

L1B' (Low resolution resampling) VNR-NP

*There are no resampled products because the product of VNR-PL only provides 1km resolution.

No.	Group	Dataset	Type	Dim. 1	Dim. 2	Dim. 3	Dim. 4	Compression	Attribute	Attribute Value	Attribute Type	Remarks
	Image_data	Statistic_data	H5T_STD_U16LE	1978	1250			gzip	Data_description	Statistic data of representative channel Value=(DN&Mask)*Slope+Offset	H5T_C_S1	Since the stray light flag is not attached to the high order 2-bit, it is stored as Scaled Integer of 16-bit. Channel to be designated (VN01 to VN11) is specified by parameter.
									Slope	0.000254067	H5T_IEEE_F32LE	
									Offset	0	H5T_IEEE_F32LE	
									Channel	VN10	H5T_C_S1	Channel to be designated
									Statistic_type	variance	H5T_C_S1	"variance" OR "standard deviation"
									Mask	65535	H5T_STD_U16LE	
									Bit00(LSB)-15	Digital Number 65535 : Missing value 65534 : Saturation value	H5T_C_S1	
									Minimum_valid_DN	0	H5T_STD_U16LE	
									Maximum_valid_DN	65534	H5T_STD_U16LE	
									Error_DN	65535	H5T_STD_U16LE	
									Dim0	L1B-lines	H5T_C_S1	
									Dim1	L1B-pixels	H5T_C_S1	

Attached Sheet: L1 Product Format Data Set List L1B

L1B' (Low resolution resampling) IRS

No.	Group	Dataset	Type	Dim. 1	Dim. 2	Dim. 3	Dim. 4	Attribute	Attribute Value	Attribute Type	Remarks
	Image_data	Statistic_data_SWI	H5T_STD_U16LE	1978	1250			Data_description	Statistic data of SW03 Value=(DN&Mask)*Slope+Offset	H5T_C_S1	Since the stray light flag is not attached to the high order 2-bit, it is stored as Scaled Integer of 16-bit. Since SW1, SW2 and SW4 only provide 1km resolution, the channel to be designated is SW3 only.
								Slope	0.00042497	H5T_IEEE_F32LE	
								Offset	0	H5T_IEEE_F32LE	
								Channel	SW03	H5T_C_S1	Channel to be designated
								Statistic_type	variance	H5T_C_S1	"variance" OR "standard deviation"
								Mask	65535	H5T_STD_U16LE	
								Bit00(LSB)-15	Digital Number 65535 : Missing value 65534 : Saturation value	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65534	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	
		Statistic_data_TIR	H5T_STD_U16LE	1978	1250			Data_description	Statistic data of representative channel Value=(DN&Mask)*Slope+Offset	H5T_C_S1	Since the stray light flag is not attached to the high order 2-bit, it is stored as Scaled Integer of 16-bit. Channel to be designated (TI1, TI2) is specified by parameter.
								Slope	0.000185267	H5T_IEEE_F32LE	
								Offset	0	H5T_IEEE_F32LE	
								Channel	TI01	H5T_C_S1	Channel to be designated
								Statistic_type	variance	H5T_C_S1	"variance" OR "standard deviation"
								Mask	65535	H5T_STD_U16LE	
								Bit00(LSB)-15	Digital Number 65535 : Missing value 65534 : Saturation value	H5T_C_S1	
								Minimum_valid_DN	0	H5T_STD_U16LE	
								Maximum_valid_DN	65534	H5T_STD_U16LE	
								Error_DN	65535	H5T_STD_U16LE	
								Dim0	L1B-lines	H5T_C_S1	
								Dim1	L1B-pixels	H5T_C_S1	

No.	Classification	Identification		Definition	L1 (Scene)			L2 (Scene)			L2 (EQA tile)			L3 (EQR)		
		Tag name	Name		○=Store ×=Do not store	Value	Source	○=Store ×=Do not store	Value (Format)	Source	○=Store ×=Do not store	Value (Format)	Source	○=Store ×=Do not store	Value (Format)	Source
1	TIFF Field	Artist	Image creator	Image creator.	○	JAXA/GCOM-C project	HDF5 Processing_attributes Processing_organization	○	JAXA/GCOM-C science project	HDF5 Processing_attributes Processing_organization	○	JAXA/GCOM-C science project	HDF5 Processing_attributes Processing_organization	○	JAXA/GCOM-C science project	HDF5 Processing_attributes Processing_organization
2		BitsPerSample	Bits per sample	Number of bits per component. This field allows a different number of bits per component for each component corresponding to a pixel. For example, RGB color data could use a different number of bits per component for each of the three color planes.Most RGB files will have the same number of Bits Per Sample for each component. Even in this case, all three values must be set.	○	L1A: 16 L1B: 16	Fixed value	○	16	Fixed value	○	16	Fixed value	○	16	Fixed value
3		Compression	Compression method	Image compression method. 1: No compression 2: CCITT Group3 32773: Pack Bits compression	○	1	Fixed value	○	1	Fixed value	○	1	Fixed value	○	1	Fixed value
4		Copyright	Copyright	Copyright.	○	Copyright, JAXA, 2017. All rights reserved.	Fixed value	○	Copyright, JAXA, 2017. All rights reserved.	Fixed value	○	Copyright, JAXA, 2017. All rights reserved.	Fixed value	○	Copyright, JAXA, 2017. All rights reserved.	Fixed value
5		DateTime	Date and time of creation	Date and time of image creation. YYYY: MM: DD HH: MM: SS Expressed in 24-hour notation Insert one space character between the date and the time. The length of the string is 20 bytes including the last NUL of string.	○	Product processing date and time YYYY: MM: DD HH: MM: SS	HDF5 Processing_attributes Processing_UT	○	Product processing date and time YYYY: MM: DD HH: MM: SS	HDF5 Processing_attributes Processing_UT	○	Product processing date and time YYYY: MM: DD HH: MM: SS	HDF5 Processing_attributes Processing_UT	○	Product processing date and time YYYY: MM: DD HH: MM: SS	HDF5 Processing_attributes Processing_UT
6		ImageDescription	Description of the image	Description of the image.	○	Granule ID	(HDF5 file name, extension excluded)	○	Granule ID	(HDF5 file name, extension excluded)	○	Granule ID	(HDF5 file name, extension excluded)	○	Granule ID	(HDF5 file name, extension excluded)
7		ImageLength	Image length	Image length. Height (vertical length) of an image expressed in line units. Number of scan lines in an image.	○	Number of lines	The number of lines in the area projected by EQR.	○	Number of lines	HDF5 Image_data Number_of_lines or Number_of_dimensions	○	Number of lines	HDF5 Image_data Number_of_lines or Number_of_dimensions	○	Number of lines	HDF5 Image_data Number_of_lines or Number_of_dimensions
8		ImageWidth	Image width	Image width. Width (horizontal length) of an image expressed in pixel units. For example, the number of pixels per scan line.	○	Number of pixels	The number of pixels in the area projected by EQR.	○	Number of pixels	HDF5 Image_data Number_of_pixels or Number_of_dimensions	○	Number of pixels	HDF5 Image_data Number_of_pixels or Number_of_dimensions	○	Number of pixels	HDF5 Image_data Number_of_pixels or Number_of_dimensions
9		Make	Manufacturer	Manufacturer. Manufacturer of the scanner, video digitizer, or any other type of equipment used to generate the image. Synthetic images should not use this field.	○	JAXA/GCOM-C project	HDF5 Processing_attributes Processing_organization	○	JAXA/GCOM-C science project	HDF5 Processing_attributes Processing_organization	○	JAXA/GCOM-C science project	HDF5 Processing_attributes Processing_organization	○	JAXA/GCOM-C science project	HDF5 Processing_attributes Processing_organization
10		Model	Model	The scanner model name or number. The model name or number of the scanner, video digitizer, or any other type of equipment used to generate the image.	○	Second-generation Global Imager (SGLI)	HDF5 Global_attributes Sensor	○	Second-generation Global Imager (SGLI)	HDF5 Global_attributes Sensor	○	Second-generation Global Imager (SGLI)	HDF5 Global_attributes Sensor	○	Second-generation Global Imager (SGLI)	HDF5 Global_attributes Sensor
11		Orientation	Scanning orientation	Scanning orientation. Orientation of the image with respect to the rows and columns. Start position of the bit map image data scan. 1: TopLeft (The image is stored as it is shown) 2: TopRight (The image is flipped horizontally and stored) 3: BottomRight (The image is flipped horizontally, turned upside down, and stored) 4: BottomLeft (The image is turned upside down and stored) 5: LeftTop (The image is rotated 90 degrees counterclockwise, flipped horizontally, and stored) 6: RightTop (The image is rotated 90 degrees counterclockwise and stored) 7: RightBottom (The image is rotated 90 degrees clockwise, flipped horizontally, and stored) 8: LeftBottom (The image is rotated 90 degrees clockwise and stored)	○	1	Fixed value	○	1	Fixed value	○	1	Fixed value	○	1	Fixed value
12		PhotometricInterpretation	Photometric type	Code indicating color information of bit map image data. 0: WhiteIsZero (Used for Bilevel or Grayscale) 1: BlackIsZero (Used for Bilevel or Grayscale) 2: RGB direct color 3: Palette color (Define the RGB color with ColorMap and specify the color with that number) 4: Logical mask	○	1	Fixed value	○	1	Fixed value	○	1	Fixed value	○	1	Fixed value

No.	Classification	Identification		Definition	L1 (Scene)			L2 (Scene)			L2 (EQA tile)			L3 (EQR)			
		Tag name	Name		○=Store ×=Do not store	Value	Source	○=Store ×=Do not store	Value (Format)	Source	○=Store ×=Do not store	Value (Format)	Source	○=Store ×=Do not store	Value (Format)	Source	A
13	TIFF Field	PlanarConfiguration	Order of storing image data	Order of storing image data. When the tag SamplePerPixel is 2 or larger, this code indicates if the bitmap image data is stored via the pixel priority mode or plane priority mode. 1: Pixel priority mode (“pixel-by-pixel”) e.g. RGBRGBRGB...... 2: Plane priority mode (“plane-by-plane”) e.g. RRR......GGG......BBB...... PlanarConfiguration 2 is not currently in widespread use and is not recommended for general interchange. If SamplesPerPixel is 1, PlanarConfiguration is irrelevant and does not need to be included.	○	2	Fixed value	○	2	Fixed value	○	2	Fixed value	○	2	Fixed value	
14		SampleFormat	Type of data	Type of pixel data. 1: Unsigned integer data 2: Signed integer data (Two’s complement) 3: Floating point data (IEEE) 4: Undefined data format However, data size is specified with the tag BitsPerSample. In cases such as when an existing image is copied, an “Undefined” field value indicates that the writer did not know how to interpret the data samples.	○	1	Fixed value	○	1	Fixed value	○	1	Fixed value	○	1	Fixed value	A
15		SamplesPerPixel	Number of samples per pixel	Number of samples per pixel. The value that indicates the number of data types included in a pixel. Bilevel、Grayscale、palette-color images: 1 RGB: 3	○	1	Fixed value	○	1	Fixed value	○	1	Fixed value	○	1	Fixed value	
16		Software	Software	Name and version of the software used to create the image.	○	GCOM-C SGLI Processing System ver.X.XX X.XX: Algorithm version	Information aside from version: Fixed value Version: HDF5 Global_attributes Algorithm_version	○	GCOM-C SGLI Processing System ver.X.XX X.XX: Algorithm version	Information aside from version: Fixed value Version: HDF5 Global_attributes Algorithm_version	○	GCOM-C SGLI Processing System ver.X.XX X.XX: Algorithm version	Information aside from version: Fixed value Version: HDF5 Global_attributes Algorithm_version	○	GCOM-C SGLI Processing System ver.X.XX X.XX: Algorithm version	Information aside from version: Fixed value Version: HDF5 Global_attributes Algorithm_version	
17		RowsPerStrip	The number of lines per strip	The number of lines of image data per strip.	○	The number of lines of image data	The number of lines in the area projected by EQR.	○	Number of lines	HDF5 Image_data Number_of_lines or Number_of_dimensions	○	Number of lines	HDF5 Image_data Number_of_lines or Number_of_dimensions	○	Number of lines	HDF5 Image_data Number_of_lines or Number_of_dimensions	A
18		GDAL_NODATA			×			×			×			×			
19		Geo_Metadata			×			×			×			×			
20	GeoKey	GeoKeyDirectoryTag			-	-	-	-	-	-	-	-	-	-	-	-	
21		GeoDoubleParamsTag			-	-	-	-	-	-	-	-	-	-	-	-	
22		GeoAsciiParamsTag			-	-	-	-	-	-	-	-	-	-	-	-	
23		ModelTiepointTag	Tie point	Tie point information.This tag is used to set the tie point (i.e. the point of overlap) between raster image information and geographic coordinate information. (……, I, J, K, X, Y, Z, ……) (I, J, K): Position information in raster space (image information) (X, Y, Z): Vector in model space (geographic coordinate information). In the case of a 2D model, K and Z are 0 (zero).	○	One tie point at the upper left in the area projected by EQR.	Latitude and longitude at the upper left in the area projected by EQR.	○	One tie point at the upper left in the area projected by EQR.	Latitude and longitude at the upper left in the area projected by EQR.	○	Tie point at the four corners of an image	Distance from the origin (latitude 0, longitude 0) calculated from tile number	○	One tie point at the upper left in the area projected by EQR.	Latitude and longitude at the upper left in the area projected by EQR.	A
24		ModelPixelScaleTag	Pixel scale in map linear units per pixel.	This tag is used to specify the size of raster pixel spacing in the model space units, when the raster space can be embedded in the model space coordinate system without rotation. It consists of the following 3 values: ScaleX, ScaleY, ScaleZ. (ScaleZ=0) This tag is not be used if the raster image requires rotation to place it into the standard model space. In such case the transformation shall be defined with ModelTransformationTag.	○	0.0020833 degree (250m resolution) 0.00416667 degree (500m resolution) 0.0083333 degree (1000m resolution)	Fixed value	○	0.0020833 degree (250m resolution) 0.00416667 degree (500m resolution) 0.0083333 degree (1000m resolution)	Fixed value	○	231.65635827m (250m resolution) 463.31271653m (500m resolution) 926.62543306m (1000m resolution)	Fixed value	○	0.0416667 degree (1/24 degree resolution) 0.0833333 degree (1/12 degree resolution)	Fixed value	
26		GTModelTypeGeoKey	Type of geographic coordinate information	Defines the general type of model coordinate system. 1: ModelTypeProjected (Projected coordinate system) 2: ModelTypeGeographic (Latitude-longitude coordinate system) 3: ModelTypeGeocentric (Earth-centered coordinate system (X, Y, Z)) 32767: User-defined coordinate system The user-defined model coordinate system requires the following GeoKey. GTCitationGeoKey	○	2	Fixed value	○	2	Fixed value	○	1	Fixed value	○	2	Fixed value	
27		GTRasterTypeGeoKey	Type of raster	Type of raster (image information) 1: RasterPixelIsArea (One pixel represents an area in the real world) 2: RasterPixelIsPoint(One pixel represents a point in the real world) The user-defined coordinate system is not supported. Due to the difference in image indication parameters (such as pixel aspect ratio), the standard TIFF 6.0 device space tag is used in place of this tag.	○	1	Fixed value	○	1	Fixed value	○	1	Fixed value	○	1	Fixed value	

No.	Classification	Identification		Definition	L1 (Scene)			L2 (Scene)			L2 (EQA tile)			L3 (EQR)			
		Tag name	Name		○=Store ×=Do not store	Value	Source	○=Store ×=Do not store	Value (Format)	Source	○=Store ×=Do not store	Value (Format)	Source	○=Store ×=Do not store	Value (Format)	Source	
28	GeoKey	GTCitationGeoKey	GeoTIFF citation	Citation on the general structure of the GeoTIFF file.	○	Product level_Sensor type_CH number	Product level: HDF5 Global_attributes Product_level Sensor type: HDF5 Granule ID Subsystem [VNR|IRS|POL] CH number: Store CH of processing target [01-11]	○	Product level_Data set name	Product level: Fixed value（L2） Data set name: HDF5 Name of each Image_data data set	○	Product level_Data set name	Product level: Fixed value（L2 or L3） Data set name: HDF5 Name of each Image_data data set	○	Product level_Data set name	Product level: Fixed value（L3） Data set name: HDF5 Name of each Image_data data set	A
29		GeogGeodeticDatumGeoKey	Geodetic coordinate system identification code.	This tag is used to specify the geodetic coordinate system for user-defined geodetic system. (The geodetic coordinate system defines the size, position, and direction of the reference ellipsoid.) Geodetic Datum Codes: 6326: WGS84 6035: DatumE_Sphere 32767: User-defined coordinate system The user-defined geodetic coordinate system requires the following GeoKey. GeogCitationGeokey GeogEllipsoidGeoKey	×			×			○	6035	Fixed value	×			A
30		GeogPrimeMeridianGeoKey	Prime meridian identification code.	This tag is used to set the location of the Prime meridian for user-defined geographic coordinate systems. The default standard is Greenwich, England. Prime Meridian Codes: 8901: Greenwich 32767: User-defined coordinate system	×			×			○	8901	Fixed value	×			
31		GeogAngularUnitsGeoKey	Coordinate unit(angle) identification code.	This tag is used to define the angular unit for user-defined geographic coordinate systems. It is also used when an angle is required by the user definition of the projection method. Angular Units Codes: 9101: Radian 9102: Degree The user-defined unit requires the following GeoKey. GeogCitationGeoKey GeogAngularUnitSizeGeoKey	×			×			○	9102	Fixed value	×			
32		GeographicTypeGeoKey	Type of coordinate system	The geographic coordinate system code used for mapping the latitude-longitude coordinate system to a certain ellipsoid. 4326: WGS84 32767: User-defined coordinate system The user-defined geographic coordinate system requires the following GeoKey. GeogCitationGeoKey GeogGeodeticDatumGeoKey GeogAngularUnitsGeoKey GeogPrimeMeridianGeoKey	○	4326	Fixed value	○	4326	Fixed value	×			○	4326	Fixed value	
33		GeogCitationGeoKey	Geographic coordinate system citation	Citation and reference for coordinate system parameters.	○	WGS84	Fixed value	○	WGS84	Fixed value	×			○	WGS84	Fixed value	
34		ProjectedCSTypeGeoKey	Projected coordinate system	This tag is used to specify the code of projected coordinate system. 326zz: WGS84/UTM (Northern hemisphere) (zz: UTM zone number) 327zz: WGS84/UTM (Southern hemisphere) (zz: UTM zone number) 32767: User-defined coordinate system User-defined coordinate system requires the following GeoKey. PCSCitationGeoKey ProjectionGeoKey	×			×			○	32767	Fixed value	×			
35		PCSCitationGeoKey	Projection citation	Citation and reference for projection	×			×			○	"Sphere_Sinusoidal"	Fixed value	×			

No.	Classification	Identification		Definition	L1 (Scene)			L2 (Scene)			L2 (EQA tile)			L3 (EQR)			
		Tag name	Name		○=Store ×=Do not store	Value	Source	○=Store ×=Do not store	Value (Format)	Source	○=Store ×=Do not store	Value (Format)	Source	○=Store ×=Do not store	Value (Format)	Source	
36	GeoKey	ProjectionGeoKey	Projection method	This tag indicates the coordinate transformation method and projection zone parameters. Definition of GCS or PCS is not included. Note : when associated with an appropriate geographic coordinate system, this forms a projected coordinate system. 160zz: UTM (North) zz: zone code 161zz: UTM (South) zz: zibe cide 32767: User-defined coordinate system The user-defined geographic coordinate system requires the following GeoKey. PCSCitationGeoKey ProjCoordTransGeoKey ProjLinearUnitsGeoKey (Additional parameters dependent on ProjCoordTransGeoKey)	×			×			○	32767	Fixed value	×			A
37		ProjCoordTransGeoKey	Coordinate transformation method	This tag is used to specify the coordinate transformation method. Note: this does not include the definition of the corresponding GCS (geographic coordinate system) to which the PCS (projected coordinate system) is related; only the transformation method is defined here. 1: TransverseMercator 7: Mercator 15: PolarStereographic 32767: User-defined coordinate system The user-defined coordinate transformation method requires the following GeoKey. PCSCitationGeoKey Additional parameters depending on Coord.Trans.	×			×			○	24	Fixed value	×			
38		ProjLinearUnitsGeoKey	Unit of the PCS	Linear units used by projection method. 9001: Meter 9002: Foot 32767: User-defined unit	×			×			○	9001	Fixed value	×			
43		ProjFalseEastingGeoKey	Easting coordinate of the map projection Natural origin.	Easting of the origin in the map projection. Unit: ProjLinearUnit	×			×			○	0.0	Fixed value	×			
44		ProjFalseNorthingGeoKey	Northing coordinate of the map projection Natural origin.	Northing of the origin in the map projection. Unit: ProjLinearUnit	×			×			○	0.0	Fixed value	×			