

SCARAB**L1A**Estimated Size
2.207 Mbfor typical [Number_of_Scans]
[1020]

Science data group associated attributes

ScienceData

Attributes				
Index	Name	Value	Type	Size
#1	Product_Identification	MT1SCASL1A_1.00_9_01 2012_05_09_0000	H5T_C_S1	84
#2	Organization_Name	ISRO	H5T_C_S1	5
#3	Property_of_data	ISRO_and_CNES	H5T_C_S1	15
#4	Satellite_Name	MEGHA-TROPIQUES	H5T_C_S1	16
#5	Payload_Name	SCARAB	H5T_C_S1	12
#6	Product_Name	Level-1A-segment wise	H5T_C_S1	35
#7	Product_Format	NCSA-HDF	H5T_C_S1	9
#8	Product_Format_Version	HDF5-1.6.4	H5T_C_S1	11
#9	Product_Generation_Date	2012MAI09	H5T_C_S1	10
#10	Imaging_Date	2012MAI09	H5T_C_S1	10
#11	Date_Format	YYYYMMDD	H5T_C_S1	10
#12	INS_AuxFile_Version	9_01	H5T_C_S1	5
#13	PRO_AuxFile_Version	9_01	H5T_C_S1	5
#14	RAD_AuxFile_Version	9_01	H5T_C_S1	5
#15	GEO_AuxFile_Version	9_01	H5T_C_S1	5
#16	PCS_AuxFile_Version	9_01	H5T_C_S1	5
#17	GRB_AuxFile_Version	9_01	H5T_C_S1	5
#18	UCS_AuxFile_Version	9_01	H5T_C_S1	5
#19	Number_of_Channels	4	H5T_C_S1	8
#20	Synthetic_LW_Channel	1	H5T_C_S1	2
#21	Channel_Bandwith	[0.5, 0.7] [0.2, 4] [0.2, 200] [10.5, 12.5] micr	H5T_C_S1	53
#22	Orbit_StartNumber	00001	H5T_C_S1	19
#23	Orbit_EndNumber	00001	H5T_C_S1	17
#24	Orbit_Cycle_Number	01	H5T_C_S1	3
#25	SLConf	100001	H5T_C_S1	7
#26	Nskip	0005	H5T_C_S1	5
#27	ProcessorVersion	1.00	H5T_C_S1	5
#28	Pixel_Size_Diagonal_AcrossTrack	[192.152, 168.811, 150.542, 135.896, 123.93]	H5T_C_S1	424
#29	Pixel_Size_Diagonal_ALongTrack	[99.328, 94.144, 89.699, 85.845, 82.473, 79.5]	H5T_C_S1	409
#30	SCARAB_QF_Scan_Definition	16-bits array (=0:good/=1:bad);, #15: scan/r	H5T_C_S1	16x24
#31	SCARAB_QF_Pixel_Definition	16-bits array (=0:good/=1:bad);, #15: Radiar	H5T_C_S1	16x24
#32	Top of atmosphere height	[20] Km	H5T_C_S1	8
#33	Aprime Coefficient	[0.9142]	H5T_C_S1	9
#34	Skip_StartScanNumber	[00000064,00000165,00000266,00000367,00	H5T_C_S1	1*Nskip
#35	Skip_EndScanNumber	[00000066,00000167,00000268,00000370,00	H5T_C_S1	1*Nskip
#36	Flip_StartScanNumber	00000012	H5T_C_S1	9
#37	Flip_EndScanNumber	00000042	H5T_C_S1	9
#38	Maneuver_StartScanNumber	00000011	H5T_C_S1	9

#39	Maneuver_EndScanNumber	00000043	H5T_C_S1	9
#40	FirstScanNumber	00000000	H5T_C_S1	8
#41	Time_Pixel_Interval	62.5	H5T_C_S1	4
#42	Number_of_Scans	00001020	H5T_C_S1	22
#43	Number_of_Pixels	51	H5T_C_S1	8
#44	QF_Product_%Processed_Scans	099	H5T_C_S1	4

Science data group elements

Estimated size of dataset [Mb]	Index	Name	Type	Typical Value	
0.002	#1	SCARAB_QF_scan	H5T_STD_U16LE	Number_of_Scans	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		<i>long_name</i>	Quality flag applicable to the scan line	H5T_C_S1	41
		<i>comment</i>	16-bits array (=0:good/=1:bad);, #15: scan/row quality flag validity, #14: pass type, #13: Scanning type, #12: Scan/Row error, #11: datation error, #10-8: Blank, #7 CRC Status, #6: Blank, #5-3: Payload Mode, #2-0: Satellite Mode	H5T_C_S1	232
		<i>dimension_label</i>	Number_of_Scans	H5T_C_S1	16
		<i>geolocation_label</i>	Scan_FirstPixelAcqTime	H5T_C_S1	35
0.002	#2	Scan_Number	H5T_STD_U16LE	Number_of_Scans	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		<i>long_name</i>	Scan Number	H5T_C_S1	12
		<i>valid_range</i>	[0,65535]	H5T_C_S1	10
		<i>min_max</i>	[0,65535]	H5T_C_S1	10
		<i>FillValue</i>	65535	H5T_C_S1	6
<i>comment</i>	scan number from the first scan of the product	H5T_C_S1	47		
<i>dimension_label</i>	Number_of_Scans	H5T_C_S1	16		
0.002	#3	Colatitude_Nadir	H5T_STD_U16LE	Number_of_Scans	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		<i>long_name</i>	colatitude of subsatellite point	H5T_C_S1	33
		<i>standard_name</i>	colatitude	H5T_C_S1	11
		<i>units</i>	degrees	H5T_C_S1	8
		<i>scale_factor</i>	0.01	H5T_C_S1	5
		<i>add_offset</i>	0	H5T_C_S1	2
		<i>valid_range</i>	[50,130]	H5T_C_S1	9
		<i>min_max</i>	[5000,13000]	H5T_C_S1	13
<i>FillValue</i>	65535	H5T_C_S1	6		
<i>comment</i>	colatitude [0,180]: 0 is north, 90 is equator and 180 is south (accuracy 1km)	H5T_C_S1	78		
<i>dimension_label</i>	Number_of_Scans	H5T_C_S1	16		
0.002	#4	Longitude_Nadir	H5T_STD_U16LE	Number_of_Scans	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		<i>long_name</i>	longitude of subsatellite point	H5T_C_S1	32
<i>standard_name</i>	longitude	H5T_C_S1	10		

			<i>units</i>	degrees	H5T C S1	8
			<i>scale factor</i>	0.01	H5T C S1	5
			<i>add offset</i>	0.0	H5T C S1	4
			<i>valid range</i>	[0.0,360.0]	H5T C S1	12
			<i>min_max</i>	[0,36000]	H5T C S1	10
			<i>FillValue</i>	65535	H5T C S1	6
			<i>comment</i>	Longitude [0,360]: 0 is Greenwich meridian (accuracy 1km)	H5T C S1	59
			<i>dimension label</i>	Number_of_Scans	H5T C S1	16
0.016			Scan_Gain	H5T_IEEE_F32LE	Number_of_Scans	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	Estimated gain	H5T C S1	15
			<i>units</i>	count/W.m-2.sr -1	H5T C S1	19
			<i>scale factor</i>	1.0	H5T C S1	4
			<i>add offset</i>	0.0	H5T C S1	4
			<i>valid range</i>	[-300,0]	H5T C S1	21
			<i>min_max</i>	[-300,0]	H5T C S1	21
			<i>FillValue</i>	3.4E38	H5T C S1	7
			<i>comment</i>	Estimated gain value applied to radiance calculation for each channels in the following sequence: Visible, Solar, Total, Infrared	H5T C S1	124
			<i>dimension label</i>	Number_of_Scans, Number_of_Channels	H5T C S1	36
0.001			Scan_FirstPixelAcqTime	H5T_C_S1	Number_of_Scans	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	date of the first pixel	H5T C S1	45
			<i>standard_name</i>	time	H5T C S1	5
			<i>units</i>	UTC Time in microseconds	H5T C S1	25
			<i>FillValue</i>	yyyymmdd hhmmssuuuuuu	H5T_C_S1	22
			<i>comment</i>	format: yyyymmdd hhmmssuuuuuu	H5T C S1	30
			<i>dimension label</i>	Number_of_Scans	H5T C S1	16
0.099			Colatitude_surface_Pixels	H5T_STD_U16LE	Number_of_Scans	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	colatitude of pixels at surface	H5T C S1	79
			<i>standard_name</i>	colatitude	H5T C S1	11
			<i>units</i>	degrees	H5T C S1	8
			<i>scale factor</i>	0.01	H5T C S1	5
			<i>add offset</i>	0	H5T C S1	2
			<i>valid range</i>	[50,130]	H5T C S1	9
			<i>FillValue</i>	65535	H5T C S1	6
			<i>comment</i>	colatitude [0,180]: 0 is north, 90 is equator and 180 is south (accuracy 1km)	H5T C S1	78
			<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
			<i>CLASS</i>	IMAGE	H5T_C_S1	6
			<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T_C_S1	16
			<i>IMAGE_MINMAXRANGE</i>	[5000,13000]	H5T_STD_U16LE	4
0.099			Colatitude_TOA_Pixels	H5T_STD_U16LE	Number_of_Scans	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	colatitude of pixels at TOA	H5T C S1	79
			<i>standard_name</i>	colatitude	H5T_C_S1	11

		<i>units</i>	degrees	H5T C S1	8
		<i>scale_factor</i>	0.01	H5T C S1	5
		<i>add_offset</i>	0	H5T C S1	2
		<i>valid_range</i>	[50,130]	H5T C S1	9
		<i>FillValue</i>	65535	H5T_C_S1	6
		<i>comment</i>	colatitude [0,180]: 0 is north, 90 is equator and 180 is south (accuracy 1km)	H5T C S1	78
		<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
		<i>CLASS</i>	IMAGE	H5T C S1	6
		<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
		<i>IMAGE_MINMAXRANGE</i>	[5000,13000]	H5T_STD_U16LE	4
0.099		Latitude_Pixels	H5T_STD_U16LE	Number_of_Scans	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		<i>long_name</i>	latitude of pixels # {(level_long_name)} #	H5T C S1	77
		<i>standard_name</i>	latitude	H5T C S1	9
		<i>units</i>	degrees	H5T C S1	8
		<i>scale_factor</i>	0.01	H5T C S1	5
		<i>add_offset</i>	-40.0	H5T C S1	6
		<i>valid_range</i>	[-40.0,40.0]	H5T C S1	13
		<i>FillValue</i>	65535	H5T C S1	6
		<i>comment</i>	accuracy 1km	H5T C S1	13
		<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	59
		<i>CLASS</i>	IMAGE	H5T C S1	6
		<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
		<i>IMAGE_MINMAXRANGE</i>	[0,8000]	H5T_STD_U16LE	4
0.099		Longitude_surface_Pixels	H5T_STD_U16LE	Number_of_Scans	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		<i>long_name</i>	longitude of pixels at surface	H5T C S1	78
		<i>standard_name</i>	longitude	H5T C S1	10
		<i>units</i>	degrees	H5T C S1	8
		<i>scale_factor</i>	0.01	H5T C S1	5
		<i>add_offset</i>	0	H5T C S1	2
		<i>valid_range</i>	[0,360]	H5T C S1	8
		<i>FillValue</i>	65535	H5T C S1	6
		<i>comment</i>	Longitude [0,360]: 0 is Greenwich meridian (accuracy 1km)	H5T C S1	59
		<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
		<i>CLASS</i>	IMAGE	H5T C S1	6
		<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
		<i>IMAGE_MINMAXRANGE</i>	[0,36000]	H5T_STD_U16LE	4
0.099		Longitude_TOA_Pixels	H5T_STD_U16LE	Number_of_Scans	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		<i>long_name</i>	longitude of pixels at TOA	H5T C S1	78
		<i>standard_name</i>	longitude	H5T C S1	10
		<i>units</i>	degrees	H5T C S1	8
		<i>scale_factor</i>	0.01	H5T C S1	5
		<i>add_offset</i>	0	H5T C S1	2
		<i>valid_range</i>	[0,360]	H5T C S1	8
		<i>FillValue</i>	65535	H5T C S1	6

#9

#10

#11

			<i>comment</i>	Longitude [0,360]: 0 is Greenwich meridian (accuracy 1km)	H5T C S1	59
			<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE MINMAXRANGE</i>	[0,36000]	H5T STD U16LE	4
0.099			Viewing_azimuth_angle_Pixels	H5T_STD_U16LE	Number_of_Scans	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	Viewing azimuth angle at pixel centre	H5T C S1	40
			<i>units</i>	degrees	H5T C S1	8
			<i>scale_factor</i>	0.01	H5T C S1	5
			<i>add_offset</i>	-180		
			<i>valid_range</i>	[-180,+180]	H5T C S1	12
			<i>FillValue</i>	65535	H5T C S1	6
			<i>comment</i>	Viewing azimuth angle at pixel centre	H5T C S1	40
			<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
			<i>geolocation_label</i>	Latitude, Longitude	H5T C S1	20
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE MINMAXRANGE</i>	[0,36000]	H5T STD U16LE	4
0.099			Relative_azimuth_angle_Pixels	H5T_STD_U16LE	Number_of_Scans	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	Relative azimuth angle at pixel centre	H5T C S1	41
			<i>units</i>	degrees	H5T C S1	8
			<i>scale_factor</i>	0.01	H5T C S1	5
			<i>add_offset</i>	0	H5T C S1	2
			<i>valid_range</i>	[0,360]	H5T C S1	8
			<i>FillValue</i>	65535	H5T C S1	6
			<i>comment</i>	Relative azimuth angle at pixel centre	H5T C S1	41
			<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
			<i>geolocation_label</i>	Latitude, Longitude	H5T C S1	20
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE MINMAXRANGE</i>	[0,36000]	H5T STD U16LE	4
0.099			Viewing_zenith_angle_Pixels	H5T_STD_U16LE	Number_of_Scans	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	Viewing zenith angle at pixel centre	H5T C S1	42
			<i>units</i>	degrees	H5T C S1	8
			<i>scale_factor</i>	0.01	H5T C S1	5
			<i>add_offset</i>	0	H5T C S1	2
			<i>valid_range</i>	[0,90]	H5T C S1	27
			<i>FillValue</i>	65535	H5T C S1	6
			<i>comment</i>	Viewing zenith angle at pixel centre	H5T C S1	41
			<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
			<i>geolocation_label</i>	Latitude, Longitude	H5T C S1	20
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE MINMAXRANGE</i>	[0,9000]	H5T STD U16LE	4
0.099			Solar_zenith_angle_Pixels	H5T_STD_U16LE	Number_of_Scans	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>

<i>long_name</i>	Solar zenith angle at pixel centre	H5T C S1	42
<i>units</i>	degrees	H5T C S1	8
<i>scale_factor</i>	0.01	H5T C S1	5
<i>add_offset</i>	0	H5T C S1	2
<i>valid_range</i>	[0,180]	H5T C S1	27
<i>FillValue</i>	65535	H5T C S1	6
<i>comment</i>	Solar zenith angle at pixel centre	H5T C S1	41
<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
<i>geolocation_label</i>	Latitude, Longitude	H5T C S1	20
<i>CLASS</i>	IMAGE	H5T C S1	6
<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
<i>IMAGE_MINMAXRANGE</i>	[0,18000]	H5T STD_U16LE	4

0.099

#16

AlongTrack_DiagonalSize	H5T_STD_U16LE	Number_of_Scans	
<i>Attributes</i>			
<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
<i>long_name</i>	along track diagonal size of pixel	H5T C S1	36
<i>units</i>	meters	H5T C S1	7
<i>scale_factor</i>	10	H5T C S1	3
<i>add_offset</i>	0	H5T C S1	2
<i>valid_range</i>	[0, 500]km	H5T C S1	11
<i>FillValue</i>	65535	H5T C S1	6
<i>comment</i>	along track diagonal of pixel	H5T C S1	31
<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
<i>geolocation_label</i>	Latitude, Longitude	H5T C S1	20
<i>CLASS</i>	IMAGE	H5T C S1	6
<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
<i>IMAGE_MINMAXRANGE</i>	[0,50000]	H5T STD_U16LE	4

0.099

#17

AcrossTrack_DiagonalSize	H5T_STD_U16LE	Number_of_Scans	
<i>Attributes</i>			
<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
<i>long_name</i>	across track diagonal of size pixel	H5T C S1	37
<i>units</i>	meters	H5T C S1	8
<i>scale_factor</i>	10	H5T C S1	3
<i>add_offset</i>	0	H5T C S1	2
<i>valid_range</i>	[0,500]Km	H5T C S1	10
<i>FillValue</i>	65535	H5T C S1	6
<i>comment</i>	across track diagonal of pixel	H5T C S1	32
<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
<i>geolocation_label</i>	Latitude, Longitude	H5T C S1	20
<i>CLASS</i>	IMAGE	H5T C S1	6
<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
<i>IMAGE_MINMAXRANGE</i>	[0,50000]	H5T STD_U16LE	4

0.099

#18

Pixel_Orientation	H5T_STD_U16LE	Number_of_Scans	
<i>Attributes</i>			
<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
<i>long_name</i>	Pixel orientation on earth	H5T C S1	28
<i>units</i>	degres	H5T C S1	8
<i>scale_factor</i>	0.01	H5T C S1	5
<i>add_offset</i>	0	H5T C S1	2
<i>valid_range</i>	[0,360]	H5T C S1	9
<i>FillValue</i>	65535	H5T C S1	6
<i>comment</i>	pixel orientation : angle between north and along track diagonal- Positive convention North to Est	H5T C S1	100

			<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
			<i>geolocation label</i>	Latitude, Longitude	H5T C S1	20
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE MINMAXRANGE</i>	[0,36000]	H5T STD_U16LE	4
0.099			FilteredRadiance_Visible	H5T_STD_U16LE	Number_of_Scans	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	filtered radiance for Visible channel	H5T C S1	41
			<i>units</i>	W.m-2.sr -1	H5T C S1	13
			<i>scale_factor</i>	0.01	H5T C S1	21
			<i>add_offset</i>	0	H5T C S1	2
			<i>valid_range</i>	[0,250]	H5T C S1	24
			<i>min_max</i>	[0,25000]	H5T C S1	28
			<i>FillValue</i>	65535	H5T C S1	6
			<i>quality_flag</i>	QF_RD_Visible	H5T C S1	17
			<i>comment</i>	calibrated filtered radiance for Visible channel	H5T C S1	53
			<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
			<i>geolocation label</i>	Latitude, Longitude	H5T C S1	20
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE MINMAXRANGE</i>	[0,25000]	H5T STD_U16LE	4
0.099			FilteredRadiance_Solar	H5T_STD_U16LE	Number_of_Scans	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	filtered radiance for Solar channel	H5T C S1	41
			<i>units</i>	W.m-2.sr -1	H5T C S1	13
			<i>scale_factor</i>	0.02	H5T C S1	21
			<i>add_offset</i>	0	H5T C S1	2
			<i>valid_range</i>	[0,800]	H5T C S1	24
			<i>min_max</i>	[0,40000]	H5T C S1	28
			<i>FillValue</i>	65535	H5T C S1	6
			<i>quality_flag</i>	QF_RD_Solar	H5T C S1	17
			<i>comment</i>	calibrated filtered radiance for Solar channel	H5T C S1	53
			<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
			<i>geolocation label</i>	Latitude, Longitude	H5T C S1	20
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE MINMAXRANGE</i>	[0,40000]	H5T STD_U16LE	4
0.099			FilteredRadiance_Total	H5T_STD_U16LE	Number_of_Scans	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	filtered radiance for Total channel	H5T C S1	41
			<i>units</i>	W.m-2.sr -1	H5T C S1	13
			<i>scale_factor</i>	0.02	H5T C S1	21
			<i>add_offset</i>	0	H5T C S1	2
			<i>valid_range</i>	[0,800]	H5T C S1	24
			<i>min_max</i>	[0,40000]	H5T C S1	28
			<i>FillValue</i>	65535	H5T C S1	6
			<i>quality_flag</i>	QF_RD_Total	H5T C S1	17
			<i>comment</i>	calibrated filtered radiance for Total channel	H5T C S1	53

			<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
			<i>geolocation_label</i>	Latitude, Longitude	H5T C S1	20
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE_MINMAXRANGE</i>	[0,40000]	H5T STD U16LE	4
0.099			FilteredRadiance_Infrared	H5T_STD_U16LE	Number_of_Scans	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	filtered radiance for Infrared channel	H5T C S1	41
			<i>units</i>	W.m-2.sr -1	H5T C S1	13
			<i>scale_factor</i>	0.01	H5T C S1	21
			<i>add_offset</i>	0	H5T C S1	2
			<i>valid_range</i>	[0,40]	H5T C S1	24
			<i>min_max</i>	[0,4000]	H5T C S1	28
			<i>FillValue</i>	65535	H5T C S1	6
			<i>quality_flag</i>	QF_RD Infrared	H5T C S1	17
			<i>comment</i>	calibrated filtered radiance for Infrared channel	H5T C S1	53
			<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
			<i>geolocation_label</i>	Latitude, Longitude	H5T C S1	20
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE_MINMAXRANGE</i>	[0,4000]	H5T STD U16LE	4
0.099			FilteredRadiance_SyntheticLW	H5T_STD_U16LE	Number_of_Scans	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	filtered radiance for SyntheticLW channel	H5T C S1	41
			<i>units</i>	W.m-2.sr -1	H5T C S1	13
			<i>scale_factor</i>	0.01	H5T C S1	21
			<i>add_offset</i>	0	H5T C S1	2
			<i>valid_range</i>	[0,500]	H5T C S1	24
			<i>min_max</i>	[0,50000]	H5T C S1	28
			<i>FillValue</i>	65535	H5T C S1	6
			<i>quality_flag</i>	QF_RD_SyntheticLW	H5T C S1	17
			<i>comment</i>	calibrated filtered radiance for SyntheticLW channel	H5T C S1	53
			<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
			<i>geolocation_label</i>	Latitude, Longitude	H5T C S1	20
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE_MINMAXRANGE</i>	[0,50000]	H5T STD U16LE	4
0.099			QF_Pixels_Visible	H5T_STD_U16LE	Number_of_Scans	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	quality flag for pixels radiance of Visible channel	H5T C S1	68
			<i>standard_name</i>	quality flag	H5T C S1	13

SCARAB

L1A2

Estimated Size

2.108 Mb

for typical [Number_of_Scans]

[1020]

Science data group associated attributes

ScienceData

Attributes				
Index	Name	Value	Type	Size
#1	Product_Identification	MT1SCASL1A2_1.00_9_01_1_2012_05_09_000	H5T_C_S1	84
#2	Organization_Name	ISRO	H5T_C_S1	5
#3	Property_of_data	ISRO_and_CNES	H5T_C_S1	15
#4	Satellite_Name	MEGHA-TROPIQUES	H5T_C_S1	16
#5	Payload_Name	SCARAB	H5T_C_S1	12
#6	Product_Name	Level-1A2-segment wise	H5T_C_S1	35
#7	Product_Format	NCSA-HDF	H5T_C_S1	9
#8	Product_Format_Version	HDF5-1.6.4	H5T_C_S1	11
#9	Product_Generation_Date	2012MAI09	H5T_C_S1	10
#10	Imaging_Date	2012MAI09	H5T_C_S1	10
#11	Date_Format	YYYYMMDD	H5T_C_S1	10
#12	INS_AuxFile_Version	9_01	H5T_C_S1	5
#13	PRO_AuxFile_Version	9_01	H5T_C_S1	5
#14	RAD_AuxFile_Version	9_01	H5T_C_S1	5
#15	GEO_AuxFile_Version	9_01	H5T_C_S1	5
#16	PCS_AuxFile_Version	9_01	H5T_C_S1	5
#17	GRB_AuxFile_Version	9_01	H5T_C_S1	5
#18	UCS_AuxFile_Version	9_01	H5T_C_S1	5
#19	Number_of_Channels	4	H5T_C_S1	8
#20	Synthetic_LW_Channel	1	H5T_C_S1	2
#21	Channel_Bandwith	[0.5, 0.7] [0.2, 4] [0.2, 200] [10.5, 12.5] micr	H5T_C_S1	53
#22	Orbit_StartNumber	00001	H5T_C_S1	19
#23	Orbit_EndNumber	00001	H5T_C_S1	17
#24	Orbit_Cycle_Number	01	H5T_C_S1	3
#25	SLConf	100001	H5T_C_S1	7
#26	Nskip	0005	H5T_C_S1	5
#27	ProcessorVersion	1.00	H5T_C_S1	5
#28	Pixel_Size_Diagonal_AcrossTrack	[192.152, 168.811, 150.542, 135.896, 123.93]	H5T_C_S1	424
#29	Pixel_Size_Diagonal_ALongTrack	[99.328, 94.144, 89.699, 85.845, 82.473, 79.5]	H5T_C_S1	409
#30	SCARAB_QF_Scan_Definition	16-bits array (=0:good/=1:bad);, #15: scan/r	H5T_C_S1	16x24
#31	SCARAB_QF_Pixel_Definition	16-bits array (=0:good/=1:bad);, #15: Radiar	H5T_C_S1	16x24
#32	Top of atmosphere height	[20] Km	H5T_C_S1	8
#33	Aprime Coefficient	[0.9142]	H5T_C_S1	9
#34	Skip_StartScanNumber	[00000064,00000165,00000266,00000367,00	H5T_C_S1	1*Nskip
#35	Skip_EndScanNumber	[00000066,00000167,00000268,00000370,00	H5T_C_S1	1*Nskip
#36	Flip_StartScanNumber	00000012	H5T_C_S1	9
#37	Flip_EndScanNumber	00000042	H5T_C_S1	9
#38	Maneuver_StartScanNumber	00000011	H5T_C_S1	9

#39	Maneuver_EndScanNumber	00000043	H5T_C_S1	9
#40	FirstScanNumber	00000000	H5T_C_S1	8
#41	Time_Pixel_Interval	62.5	H5T_C_S1	4
#42	Number_of_Scans	00001020	H5T_C_S1	22
#43	Number_of_Pixels	51	H5T_C_S1	8
#44	QF_Product_%Processed_Scans	099	H5T_C_S1	4

Science data group elements

Estimated size of dataset [Mb]	Index	Name	Type	Typical Value	
0.002	#1	SCARAB_QF_scan	H5T_STD_U16LE	Number_of_Scans	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		<i>long_name</i>	Quality flag applicable to the scan line	H5T_C_S1	41
		<i>comment</i>	16-bits array (=0:good/=1:bad);, #15: scan/row quality flag validity, #14: pass type, #13: Scanning type, #12: Scan/Row error, #11: datation error, #10-8: Blank, #7 CRC Status, #6: Blank, #5-3: Payload Mode, #2-0: Satellite Mode	H5T_C_S1	232
		<i>dimension_label</i>	Number_of_Scans	H5T_C_S1	16
		<i>geolocation_label</i>	Scan_FirstPixelAcqTime	H5T_C_S1	35
0.002	#2	Scan_Number	H5T_STD_U16LE	Number_of_Scans	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		<i>long_name</i>	Scan Number	H5T_C_S1	12
		<i>valid_range</i>	[0,65535]	H5T_C_S1	10
		<i>min_max</i>	[0,65535]	H5T_C_S1	10
		<i>FillValue</i>	65535	H5T_C_S1	6
<i>comment</i>	scan number from the first scan of the product	H5T_C_S1	47		
<i>dimension_label</i>	Number_of_Scans	H5T_C_S1	16		
0.002	#3	Colatitude_Nadir	H5T_STD_U16LE	Number_of_Scans	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		<i>long_name</i>	colatitude of subsatellite point	H5T_C_S1	33
		<i>standard_name</i>	colatitude	H5T_C_S1	11
		<i>units</i>	degrees	H5T_C_S1	8
		<i>scale_factor</i>	0.01	H5T_C_S1	5
		<i>add_offset</i>	0	H5T_C_S1	2
		<i>valid_range</i>	[50,130]	H5T_C_S1	9
		<i>min_max</i>	[5000,13000]	H5T_C_S1	13
<i>FillValue</i>	65535	H5T_C_S1	6		
<i>comment</i>	colatitude [0,180]: 0 is north, 90 is equator and 180 is south (accuracy 1km)	H5T_C_S1	78		
<i>dimension_label</i>	Number_of_Scans	H5T_C_S1	16		
0.002	#4	Longitude_Nadir	H5T_STD_U16LE	Number_of_Scans	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		<i>long_name</i>	longitude of subsatellite point	H5T_C_S1	32
<i>standard_name</i>	longitude	H5T_C_S1	10		

			<i>units</i>	degrees	H5T C S1	8
			<i>scale factor</i>	0.01	H5T C S1	5
			<i>add offset</i>	0.0	H5T C S1	4
			<i>valid range</i>	[0.0,360.0]	H5T C S1	12
			<i>min_max</i>	[0,36000]	H5T C S1	10
			<i>FillValue</i>	65535	H5T C S1	6
			<i>comment</i>	Longitude [0,360]: 0 is Greenwich meridian (accuracy 1km)	H5T C S1	59
			<i>dimension label</i>	Number_of_Scans	H5T C S1	16
0.016			Scan_Gain	H5T_IEEE_F32LE	Number_of_Scans	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	Estimated gain	H5T C S1	15
			<i>units</i>	count/W.m-2.sr -1	H5T C S1	19
			<i>scale factor</i>	1.0	H5T C S1	4
			<i>add offset</i>	0.0	H5T C S1	4
			<i>valid range</i>	[-300,0]	H5T C S1	21
			<i>min_max</i>	[-300,0]	H5T C S1	21
			<i>FillValue</i>	3.4E38	H5T C S1	7
			<i>comment</i>	Estimated gain value applied to radiance calculation for each channels in the following sequence: Visible, Solar, Total, Infrared	H5T C S1	124
			<i>dimension label</i>	Number_of_Scans, Number_of_Channels	H5T C S1	36
0.001			Scan_FirstPixelAcqTime	H5T_C_S1	Number_of_Scans	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	date of the first pixel	H5T C S1	45
			<i>standard name</i>	time	H5T C S1	5
			<i>units</i>	UTC Time in microseconds	H5T C S1	25
			<i>FillValue</i>	yyyymmdd hhmmssuuuuuu	H5T_C_S1	22
			<i>comment</i>	format: yyyymmdd hhmmssuuuuuu	H5T C S1	30
			<i>dimension label</i>	Number_of_Scans	H5T C S1	16
0.099			Colatitude_surface_Pixels	H5T_STD_U16LE	Number_of_Scans	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	colatitude of pixels at surface	H5T C S1	79
			<i>standard name</i>	colatitude	H5T C S1	11
			<i>units</i>	degrees	H5T C S1	8
			<i>scale factor</i>	0.01	H5T C S1	5
			<i>add offset</i>	0	H5T C S1	2
			<i>valid range</i>	[50,130]	H5T C S1	9
			<i>FillValue</i>	65535	H5T C S1	6
			<i>comment</i>	colatitude [0,180]: 0 is north, 90 is equator and 180 is south (accuracy 1km)	H5T C S1	78
			<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
			<i>CLASS</i>	IMAGE	H5T_C_S1	6
			<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T_C_S1	16
			<i>IMAGE_MINMAXRANGE</i>	[5000,13000]	H5T_STD_U16LE	4
0.099			Colatitude_TOA_Pixels	H5T_STD_U16LE	Number_of_Scans	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	colatitude of pixels at TOA	H5T C S1	79
			<i>standard name</i>	colatitude	H5T_C_S1	11

		<i>units</i>	degrees	H5T C S1	8
		<i>scale_factor</i>	0.01	H5T C S1	5
		<i>add_offset</i>	0	H5T C S1	2
		<i>valid_range</i>	[50,130]	H5T C S1	9
		<i>FillValue</i>	65535	H5T_C_S1	6
		<i>comment</i>	colatitude [0,180]: 0 is north, 90 is equator and 180 is south (accuracy 1km)	H5T C S1	78
		<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
		<i>CLASS</i>	IMAGE	H5T C S1	6
		<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
		<i>IMAGE_MINMAXRANGE</i>	[5000,13000]	H5T_STD_U16LE	4
0.099		Longitude_surface_Pixels	H5T_STD_U16LE	Number_of_Scans	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		<i>long_name</i>	longitude of pixels at surface	H5T C S1	78
		<i>standard_name</i>	longitude	H5T C S1	10
		<i>units</i>	degrees	H5T C S1	8
		<i>scale_factor</i>	0.01	H5T C S1	5
		<i>add_offset</i>	0	H5T C S1	2
		<i>valid_range</i>	[0,360]	H5T C S1	8
		<i>FillValue</i>	65535	H5T_C_S1	6
		<i>comment</i>	Longitude [0,360]: 0 is Greenwich meridian (accuracy 1km)	H5T C S1	59
		<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
		<i>CLASS</i>	IMAGE	H5T C S1	6
		<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
		<i>IMAGE_MINMAXRANGE</i>	[0,36000]	H5T_STD_U16LE	4
0.099		Longitude_TOA_Pixels	H5T_STD_U16LE	Number_of_Scans	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		<i>long_name</i>	longitude of pixels at TOA	H5T C S1	78
		<i>standard_name</i>	longitude	H5T C S1	10
		<i>units</i>	degrees	H5T C S1	8
		<i>scale_factor</i>	0.01	H5T_C_S1	5
		<i>add_offset</i>	0	H5T C S1	2
		<i>valid_range</i>	[0,360]	H5T C S1	8
		<i>FillValue</i>	65535	H5T_C_S1	6
		<i>comment</i>	Longitude [0,360]: 0 is Greenwich meridian (accuracy 1km)	H5T C S1	59
		<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
		<i>CLASS</i>	IMAGE	H5T C S1	6
		<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
		<i>IMAGE_MINMAXRANGE</i>	[0,36000]	H5T_STD_U16LE	4
0.099		Viewing_azimuth_angle_Pixels	H5T_STD_U16LE	Number_of_Scans	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		<i>long_name</i>	Viewing azimuth angle at pixel centre	H5T C S1	40
		<i>units</i>	degrees	H5T C S1	8
		<i>scale_factor</i>	0.01	H5T_C_S1	5
		<i>add_offset</i>	-180		
		<i>valid_range</i>	[-180,+180]	H5T C S1	12
		<i>FillValue</i>	65535	H5T_C_S1	6
		<i>comment</i>	Viewing azimuth angle at pixel centre	H5T C S1	40

			<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
			<i>geolocation label</i>	Latitude, Longitude	H5T C S1	20
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE MINMAXRANGE</i>	[0,36000]	H5T STD U16LE	4
0.099			Relative_azimuth_angle_Pixels	H5T_STD_U16LE	Number_of_Scans	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		#12	<i>long_name</i>	Relative azimuth angle at pixel centre	H5T C S1	41
			<i>units</i>	degrees	H5T C S1	8
			<i>scale_factor</i>	0.01	H5T C S1	5
			<i>add_offset</i>	0	H5T C S1	2
			<i>valid_range</i>	[0,360]	H5T C S1	8
			<i>FillValue</i>	65535	H5T C S1	6
			<i>comment</i>	Relative azimuth angle at pixel centre	H5T C S1	41
			<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
			<i>geolocation label</i>	Latitude, Longitude	H5T C S1	20
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE MINMAXRANGE</i>	[0,36000]	H5T STD U16LE	4
0.099			Viewing_zenith_angle_Pixels	H5T_STD_U16LE	Number_of_Scans	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		#13	<i>long_name</i>	Viewing zenith angle at pixel centre	H5T C S1	42
			<i>units</i>	degrees	H5T C S1	8
			<i>scale_factor</i>	0.01	H5T C S1	5
			<i>add_offset</i>	0	H5T C S1	2
			<i>valid_range</i>	[0,90]	H5T C S1	27
			<i>FillValue</i>	65535	H5T C S1	6
			<i>comment</i>	Viewing zenith angle at pixel centre	H5T C S1	41
			<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
			<i>geolocation label</i>	Latitude, Longitude	H5T C S1	20
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE MINMAXRANGE</i>	[0,9000]	H5T STD U16LE	4
0.099			Solar_zenith_angle_Pixels	H5T_STD_U16LE	Number_of_Scans	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		#14	<i>long_name</i>	Solar zenith angle at pixel centre	H5T C S1	42
			<i>units</i>	degrees	H5T C S1	8
			<i>scale_factor</i>	0.01	H5T C S1	5
			<i>add_offset</i>	0	H5T C S1	2
			<i>valid_range</i>	[0,180]	H5T C S1	27
			<i>FillValue</i>	65535	H5T C S1	6
			<i>comment</i>	Solar zenith angle at pixel centre	H5T C S1	41
			<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
			<i>geolocation label</i>	Latitude, Longitude	H5T C S1	20
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE MINMAXRANGE</i>	[0,18000]	H5T STD U16LE	4
0.099			AlongTrack_DiagonalSize	H5T_STD_U16LE	Number_of_Scans	
			<i>Attributes</i>			
		#15	<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	along track diagonal size of pixel	H5T C S1	36

		<i>units</i>	meters	H5T C S1	7
		<i>scale_factor</i>	10	H5T C S1	3
		<i>add_offset</i>	0	H5T C S1	2
		<i>valid_range</i>	[0, 500]km	H5T C S1	11
		<i>FillValue</i>	65535	H5T C S1	6
		<i>comment</i>	along track diagonal of pixel	H5T C S1	31
		<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
		<i>geolocation_label</i>	Latitude, Longitude	H5T C S1	20
		<i>CLASS</i>	IMAGE	H5T C S1	6
		<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
		<i>IMAGE_MINMAXRANGE</i>	[0,50000]	H5T STD_U16LE	4
0.099		AcrossTrack_DiagonalSize	H5T_STD_U16LE	Number_of_Scans	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		<i>long_name</i>	across track diagonal of size pixel	H5T C S1	37
		<i>units</i>	meters	H5T C S1	8
		<i>scale_factor</i>	10	H5T C S1	3
		<i>add_offset</i>	0	H5T C S1	2
		<i>valid_range</i>	[0,500]Km	H5T C S1	10
		<i>FillValue</i>	65535	H5T C S1	6
		<i>comment</i>	across track diagonal of pixel	H5T C S1	32
		<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
		<i>geolocation_label</i>	Latitude, Longitude	H5T C S1	20
		<i>CLASS</i>	IMAGE	H5T C S1	6
		<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
		<i>IMAGE_MINMAXRANGE</i>	[0,50000]	H5T STD_U16LE	4
0.099		Pixel_Orientation	H5T_STD_U16LE	Number_of_Scans	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		<i>long_name</i>	Pixel orientation on earth	H5T C S1	28
		<i>units</i>	degres	H5T C S1	8
		<i>scale_factor</i>	0.01	H5T C S1	5
		<i>add_offset</i>	0	H5T C S1	2
		<i>valid_range</i>	[0,360]	H5T C S1	9
		<i>FillValue</i>	65535	H5T C S1	6
		<i>comment</i>	pixel orientation : angle between north and along track diagonal- Positive convention North to Est	H5T C S1	100
		<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
		<i>geolocation_label</i>	Latitude, Longitude	H5T C S1	20
		<i>CLASS</i>	IMAGE	H5T C S1	6
		<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
		<i>IMAGE_MINMAXRANGE</i>	[0,36000]	H5T STD_U16LE	4
0.099		FilteredRadiance_Visible	H5T_STD_U16LE	Number_of_Scans	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		<i>long_name</i>	filtered radiance for Visible channel	H5T C S1	41
		<i>units</i>	W.m-2.sr -1	H5T C S1	13
		<i>scale_factor</i>	0.01	H5T C S1	21
		<i>add_offset</i>	0	H5T C S1	2
		<i>valid_range</i>	[0,250]	H5T C S1	24
		<i>min_max</i>	[0,25000]	H5T C S1	28
		<i>FillValue</i>	65535	H5T C S1	6
		<i>quality_flag</i>	QF_RD_Visible	H5T C S1	17

#16

#17

#18

			<i>comment</i>	calibrated filtered radiance for Visible channel	H5T C S1	53
			<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
			<i>geolocation label</i>	Latitude, Longitude	H5T C S1	20
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE MINMAXRANGE</i>	[0,25000]	H5T STD U16LE	4
0.099			FilteredRadiance_Solar	H5T_STD_U16LE	Number_of_Scans	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	filtered radiance for Solar channel	H5T C S1	41
			<i>units</i>	W.m-2.sr -1	H5T C S1	13
			<i>scale_factor</i>	0.02	H5T C S1	21
			<i>add_offset</i>	0	H5T C S1	2
			<i>valid_range</i>	[0,800]	H5T C S1	24
			<i>min_max</i>	[0,40000]	H5T C S1	28
			<i>FillValue</i>	65535	H5T C S1	6
			<i>quality_flag</i>	QF_RD_Solar	H5T C S1	17
		#19	<i>comment</i>	calibrated filtered radiance for Solar channel	H5T C S1	53
			<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
			<i>geolocation label</i>	Latitude, Longitude	H5T C S1	20
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE MINMAXRANGE</i>	[0,40000]	H5T STD U16LE	4
0.099			FilteredRadiance_Total	H5T_STD_U16LE	Number_of_Scans	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	filtered radiance for Total channel	H5T C S1	41
			<i>units</i>	W.m-2.sr -1	H5T C S1	13
			<i>scale_factor</i>	0.02	H5T C S1	21
			<i>add_offset</i>	0	H5T C S1	2
			<i>valid_range</i>	[0,800]	H5T C S1	24
			<i>min_max</i>	[0,40000]	H5T C S1	28
			<i>FillValue</i>	65535	H5T C S1	6
			<i>quality_flag</i>	QF_RD_Total	H5T C S1	17
		#20	<i>comment</i>	calibrated filtered radiance for Total channel	H5T C S1	53
			<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
			<i>geolocation label</i>	Latitude, Longitude	H5T C S1	20
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE MINMAXRANGE</i>	[0,40000]	H5T STD U16LE	4
0.099			FilteredRadiance_Infrared	H5T_STD_U16LE	Number_of_Scans	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	filtered radiance for Infrared channel	H5T C S1	41
			<i>units</i>	W.m-2.sr -1	H5T C S1	13
			<i>scale_factor</i>	0.01	H5T C S1	21
			<i>add_offset</i>	0	H5T C S1	2
			<i>valid_range</i>	[0,40]	H5T C S1	24
			<i>min_max</i>	[0,4000]	H5T C S1	28
			<i>FillValue</i>	65535	H5T C S1	6
			<i>quality_flag</i>	QF_RD_Infrared	H5T C S1	17
		#21				

			<i>comment</i>	calibrated filtered radiance for Infrared channel	H5T C S1	53
			<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
			<i>geolocation label</i>	Latitude, Longitude	H5T C S1	20
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE MINMAXRANGE</i>	[0,4000]	H5T STD U16LE	4
0.099			FilteredRadiance_SyntheticLW	H5T_STD_U16LE	Number_of_Scans	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long name</i>	filtered radiance for SyntheticLW channel	H5T C S1	41
			<i>units</i>	W.m-2.sr -1	H5T C S1	13
			<i>scale_factor</i>	0.01	H5T C S1	21
			<i>add_offset</i>	0	H5T C S1	2
			<i>valid range</i>	[0,500]	H5T C S1	24
			<i>min max</i>	[0,50000]	H5T C S1	28
			<i>FillValue</i>	65535	H5T C S1	6
			<i>quality flag</i>	QF_RD_SyntheticLW	H5T C S1	17
			<i>comment</i>	calibrated filtered radiance for SyntheticLW channel	H5T C S1	53
			<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
			<i>geolocation label</i>	Latitude, Longitude	H5T C S1	20
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE MINMAXRANGE</i>	[0,50000]	H5T STD U16LE	4
0.099			QF_Pixels_Visible	H5T_STD_U16LE	Number_of_Scans	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long name</i>	quality flag for pixels radiance of Visible channel	H5T C S1	68
			<i>standard name</i>	quality flag	H5T C S1	13
			<i>comment</i>	16-bits array (=0:good/=1:bad):, #15: Radiance validity flag , #14:blank, #13:land/sea contamination, #12: surface type, #11:ChannelON/OFF, #10:Level-0 Count Saturated, #9:Level-0 Count poor value, #8:geolocation estimation, #7:Spacecount error, #6-4: Blank, #3: interpolation quality, #2: Gainflag, #1-0: Blank	H5T C S1	17
			<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
			<i>geolocation label</i>	Latitude, Longitude	H5T C S1	20
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE MINMAXRANGE</i>	[0,8000]	H5T STD U16LE	4
0.099			QF_Pixels_Solar	H5T_STD_U16LE	Number_of_Scans	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long name</i>	quality flag for pixels radiance of Solar channel	H5T C S1	68
			<i>standard name</i>	quality flag	H5T C S1	13

SCARAB**L1A3**

Estimated Size

18.146 Mb

for typical [Number_of_Scans]

[2467]

Science data group associated attributes

ScienceData

Attributes				
Index	Name	Value	Type	Size
#1	Product_Identification	MT1SCASL1A3_1.00_9_01_1_2012_05_09_000	H5T_C_S1	84
#2	Organization_Name	ISRO	H5T_C_S1	5
#3	Property_of_data	ISRO_and_CNES	H5T_C_S1	15
#4	Satellite_Name	MEGHA-TROPIQUES	H5T_C_S1	16
#5	Payload_Name	SCARAB	H5T_C_S1	12
#6	Product_Name	Level-1A3-segment wise	H5T_C_S1	35
#7	Product_Format	NCSA-HDF	H5T_C_S1	9
#8	Product_Format_Version	HDF5-1.6.4	H5T_C_S1	11
#9	Product_Generation_Date	2012MAI09	H5T_C_S1	10
#10	Imaging_Date	2012MAI09	H5T_C_S1	10
#11	Date_Format	YYYYMMDD	H5T_C_S1	10
#12	INS_AuxFile_Version	9_01	H5T_C_S1	5
#13	PRO_AuxFile_Version	9_01	H5T_C_S1	5
#14	RAD_AuxFile_Version	9_01	H5T_C_S1	5
#15	GEO_AuxFile_Version	9_01	H5T_C_S1	5
#16	PCS_AuxFile_Version	9_01	H5T_C_S1	5
#17	GRB_AuxFile_Version	9_01	H5T_C_S1	5
#18	UCS_AuxFile_Version	9_01	H5T_C_S1	5
#19	Number_of_Channels	4	H5T_C_S1	8
#20	Synthetic_LW_Channel	1	H5T_C_S1	2
#21	Channel_Bandwith	[0.5, 0.7] [0.2, 4] [0.2, 200] [10.5, 12.5] micr	H5T_C_S1	53
#22	Orbit_StartNumber	00001	H5T_C_S1	19
#23	Orbit_EndNumber	00001	H5T_C_S1	17
#24	Orbit_Cycle_Number	01	H5T_C_S1	3
#25	SLConf	100001	H5T_C_S1	7
#26	Nskip	0005	H5T_C_S1	5
#27	ProcessorVersion	1.00	H5T_C_S1	5
#28	SCARAB_QF_Scan_Definition	16-bits array (=0:good/=1:bad);, #15: scan/r	H5T_C_S1	16x24
#29	SCARAB_QF_Pixel_Definition	16-bits array (=0:good/=1:bad);, #15: Radiar	H5T_C_S1	16x24
#30	Aprime Coefficient	[0.9142]	H5T_C_S1	9
#31	Skip_StartScanNumber	[00000064,00000165,00000266,00000367,00	H5T_C_S1	1*Nskip
#32	Skip_EndScanNumber	[00000066,00000167,00000268,00000370,00	H5T_C_S1	1*Nskip
#33	Flip_StartScanNumber	00000012	H5T_C_S1	9
#34	Flip_EndScanNumber	00000042	H5T_C_S1	9
#35	Maneuver_StartScanNumber	00000011	H5T_C_S1	9
#36	Maneuver_EndScanNumber	00000043	H5T_C_S1	9
#37	MADRAS_FirstScanNumber	00000000	H5T_C_S1	8
#38	Number_of_Scans	00002467	H5T_C_S1	22
#39	Number_of_Pixels	214	H5T_C_S1	8

	#40	QF_Product_%Processed_Scans	099	H5T_C_S1	4	
Science data group elements						
Estimated size of dataset [Mb]		Index	Name	Type	Typical Value	
0.005		#1	SCARAB_QF_scan	H5T_STD_U16LE	Number_of_Scans	
			Attributes			
			Name	Value	Type	Size
			long_name	Quality flag applicable to the scan line	H5T C S1	41
			comment	16-bits array (=0:good/=1:bad)., #15: scan/row quality flag validity, #14: pass type, #13: Scanning type, #12: Scan/Row error, #11: datation error, #10-8: Blank, #7 CRC Status, #6: Blank, #5-3: Payload Mode, #2-0: Satellite Mode	H5T C S1	232
			dimension_label	Number_of_Scans	H5T C S1	16
			geolocation_label	Scan_FirstPixelAcqTime	H5T C S1	35
0.005			#2	MADRAS_Scan_Number	H5T_STD_U16LE	Number_of_Scans
		Attributes				
		Name		Value	Type	Size
		long_name		Scan Number	H5T C S1	12
		add_offset		0	H5T C S1	2
		valid_range		[0,65535]	H5T C S1	10
		min_max		[0,65535]	H5T C S1	10
		FillValue		65535	H5T C S1	6
		comment	scan number from the first scan of the product	H5T C S1	47	
		dimension_label	Number_of_Scans	H5T C S1	16	
0.005		#3	Latitude_Nadir	H5T_STD_U16LE	Number_of_Scans	
			Attributes			
			Name	Value	Type	Size
			long_name	latitude of subsatellite point	H5T C S1	31
			standard_name	latitude	H5T C S1	9
			units	degrees	H5T C S1	8
			scale_factor	0.01	H5T C S1	5
			add_offset	-40.0	H5T C S1	6
			valid_range	[-40.0,40.0]	H5T C S1	13
			min_max	[0,8000]	H5T C S1	9
			FillValue	65535	H5T C S1	6
		comment	accuracy 1km	H5T C S1	13	
		dimension_label	Number_of_Scans	H5T C S1	16	
0.005		#4	Longitude_Nadir	H5T_STD_U16LE	Number_of_Scans	
			Attributes			
			Name	Value	Type	Size
			long_name	longitude of subsatellite point	H5T C S1	32
			standard_name	longitude	H5T C S1	10
			units	degrees	H5T C S1	8
			scale_factor	0.01	H5T C S1	5
			add_offset	0.0	H5T C S1	4
			valid_range	[0.0,360.0]	H5T C S1	12
			min_max	[0,36000]	H5T C S1	10

			<i>FillValue</i>	65535	H5T C S1	6	
			<i>comment</i>	Longitude [0,360]: 0 is Greenwich meridian (accuracy 1km)	H5T C S1	59	
			<i>dimension label</i>	Number_of_Scans	H5T C S1	16	
0.002		#5	Scan_FirstPixelAcqTime	H5T_C_S1	Number_of_Scans		
			<i>Attributes</i>				
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>	
			<i>long_name</i>	date of the first pixel	H5T C S1	45	
			<i>standard_name</i>	time	H5T C S1	5	
			<i>units</i>	UTC Time in microseconds	H5T C S1	25	
			<i>FillValue</i>	yyyymmdd hhmmssuuuuuu	H5T C S1	22	
			<i>comment</i>	format: yyyymmdd hhmmssuuuuuu	H5T C S1	30	
			<i>dimension label</i>	Number_of_Scans	H5T C S1	16	
2.014			#6	Pixel_AcquisitionTime	H5T_IEEE_F32LE	Number_of_Scans	
		<i>Attributes</i>					
		<i>Name</i>		<i>Value</i>	<i>Type</i>	<i>Size</i>	
		<i>long_name</i>		Time between first pixel and current pixel	H5T C S1	44	
		<i>standard_name</i>		time	H5T C S1	5	
		<i>units</i>		seconds	H5T C S1	9	
		<i>FillValue</i>		3.4E38	H5T C S1	7	
		<i>comment</i>		Average time at pixel centre from first pixel time	H5T C S1	52	
		<i>dimension label</i>		Number_of_Scans, Number_of_Pixels	H5T C S1	56	
		<i>CLASS</i>		IMAGE	H5T C S1	6	
		<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16		
		<i>IMAGE_MINMAXRANGE</i>	[0,3.4E38]	H5T_IEEE_F32LE	8		
1.007		#7	Latitude_Pixels	H5T_STD_U16LE	Number_of_Scans		
			<i>Attributes</i>				
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>	
			<i>long_name</i>	latitude of pixels	H5T C S1	77	
			<i>standard_name</i>	latitude	H5T C S1	9	
			<i>units</i>	degrees	H5T C S1	8	
			<i>scale_factor</i>	0.01	H5T C S1	5	
			<i>add_offset</i>	-40.0	H5T C S1	6	
			<i>valid_range</i>	[-40.0,40.0]	H5T C S1	13	
			<i>FillValue</i>	65535	H5T C S1	6	
		<i>comment</i>	accuracy 1km	H5T C S1	13		
		<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	59		
		<i>CLASS</i>	IMAGE	H5T C S1	6		
		<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16		
		<i>IMAGE_MINMAXRANGE</i>	[0,8000]	H5T_STD_U16LE	4		
1.007		#8	Longitude_Pixels	H5T_STD_U16LE	Number_of_Scans		
			<i>Attributes</i>				
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>	
			<i>long_name</i>	longitude of pixels	H5T C S1	78	
			<i>standard_name</i>	longitude	H5T C S1	10	
			<i>units</i>	degrees	H5T C S1	8	
			<i>scale_factor</i>	0.01	H5T C S1	5	
			<i>add_offset</i>	0	H5T C S1	2	
			<i>valid_range</i>	[0,360]	H5T C S1	8	
			<i>FillValue</i>	65535	H5T C S1	6	
		<i>comment</i>	Longitude [0,360]: 0 is Greenwich meridian (accuracy 1km)	H5T C S1	59		

		<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
		<i>CLASS</i>	IMAGE	H5T C S1	6
		<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
		<i>IMAGE MINMAXRANGE</i>	[0,36000]	H5T STD U16LE	4
1.007	#9	Viewing_azimuth_angle_Pixels	H5T_STD_U16LE	Number_of_Scans	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		<i>long_name</i>	Viewing azimuth angle at pixel centre	H5T C S1	40
		<i>units</i>	degrees	H5T C S1	8
		<i>scale_factor</i>	0.01	H5T C S1	5
		<i>add_offset</i>	-180		
		<i>valid_range</i>	[-180,+180]	H5T C S1	12
		<i>FillValue</i>	65535	H5T C S1	6
		<i>comment</i>	Viewing azimuth angle at pixel centre	H5T C S1	40
		<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
		<i>geolocation label</i>	Latitude, Longitude	H5T C S1	20
		<i>CLASS</i>	IMAGE	H5T C S1	6
		<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
		<i>IMAGE MINMAXRANGE</i>	[0,36000]	H5T STD U16LE	4
1.007	#10	Relative_azimuth_angle_Pixels	H5T_STD_U16LE	Number_of_Scans	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		<i>long_name</i>	Relative azimuth angle at pixel centre	H5T C S1	41
		<i>units</i>	degrees	H5T C S1	8
		<i>scale_factor</i>	0.01	H5T C S1	5
		<i>add_offset</i>	0	H5T C S1	2
		<i>valid_range</i>	[0,360]	H5T C S1	8
		<i>FillValue</i>	65535	H5T C S1	6
		<i>comment</i>	Relative azimuth angle at pixel centre	H5T C S1	41
		<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
		<i>geolocation label</i>	Latitude, Longitude	H5T C S1	20
		<i>CLASS</i>	IMAGE	H5T C S1	6
		<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
		<i>IMAGE MINMAXRANGE</i>	[0,36000]	H5T STD U16LE	4
1.007	#11	Viewing_zenith_angle_Pixels	H5T_STD_U16LE	Number_of_Scans	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		<i>long_name</i>	Viewing zenith angle at pixel centre	H5T C S1	42
		<i>units</i>	degrees	H5T C S1	8
		<i>scale_factor</i>	0.01	H5T C S1	5
		<i>add_offset</i>	0	H5T C S1	2
		<i>valid_range</i>	[0,90]	H5T C S1	27
		<i>FillValue</i>	65535	H5T C S1	6
		<i>comment</i>	Viewing zenith angle at pixel centre	H5T C S1	41
		<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
		<i>geolocation label</i>	Latitude, Longitude	H5T C S1	20
		<i>CLASS</i>	IMAGE	H5T C S1	6
		<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
		<i>IMAGE MINMAXRANGE</i>	[0,9000]	H5T STD U16LE	4
1.007	#12	Solar_zenith_angle_Pixels	H5T_STD_U16LE	Number_of_Scans	
		<i>Attributes</i>			
		<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
		<i>long_name</i>	Solar zenith angle at pixel centre	H5T C S1	42
		<i>units</i>	degrees	H5T C S1	8

<i>scale factor</i>	0.01	H5T C S1	5
<i>add offset</i>	0	H5T C S1	2
<i>valid range</i>	[0,180]	H5T C S1	27
<i>FillValue</i>	65535	H5T C S1	6
<i>comment</i>	Solar zenith angle at pixel centre	H5T C S1	41
<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
<i>geolocation label</i>	Latitude, Longitude	H5T C S1	20
<i>CLASS</i>	IMAGE	H5T C S1	6
<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
<i>IMAGE MINMAXRANGE</i>	[0,18000]	H5T STD U16LE	4

1.007

#13

FilteredRadiance_Visible	H5T_STD_U16LE	Number_of_Scans	
<i>Attributes</i>			
<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
<i>long name</i>	filtered radiance for Visible channel	H5T C S1	41
<i>units</i>	W.m-2.sr -1	H5T C S1	13
<i>scale factor</i>	0.01	H5T C S1	21
<i>add offset</i>	0	H5T C S1	2
<i>valid range</i>	[0,250]	H5T C S1	24
<i>min max</i>	[0,25000]	H5T C S1	28
<i>FillValue</i>	65535	H5T C S1	6
<i>quality flag</i>	QF_RD_Visible	H5T C S1	17
<i>comment</i>	calibrated filtered radiance for Visible channel	H5T C S1	53
<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
<i>geolocation label</i>	Latitude, Longitude	H5T C S1	20
<i>CLASS</i>	IMAGE	H5T C S1	6
<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
<i>IMAGE MINMAXRANGE</i>	[0,25000]	H5T STD U16LE	4

1.007

#14

FilteredRadiance_Solar	H5T_STD_U16LE	Number_of_Scans	
<i>Attributes</i>			
<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
<i>long name</i>	filtered radiance for Solar channel	H5T C S1	41
<i>units</i>	W.m-2.sr -1	H5T C S1	13
<i>scale factor</i>	0.02	H5T C S1	21
<i>add offset</i>	0	H5T C S1	2
<i>valid range</i>	[0,800]	H5T C S1	24
<i>min max</i>	[0,40000]	H5T C S1	28
<i>FillValue</i>	65535	H5T C S1	6
<i>quality flag</i>	QF_RD_Solar	H5T C S1	17
<i>comment</i>	calibrated filtered radiance for Solar channel	H5T C S1	53
<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
<i>geolocation label</i>	Latitude, Longitude	H5T C S1	20
<i>CLASS</i>	IMAGE	H5T C S1	6
<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
<i>IMAGE MINMAXRANGE</i>	[0,40000]	H5T STD U16LE	4

1.007

#15

FilteredRadiance_Total	H5T_STD_U16LE	Number_of_Scans	
<i>Attributes</i>			
<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
<i>long name</i>	filtered radiance for Total channel	H5T C S1	41
<i>units</i>	W.m-2.sr -1	H5T C S1	13
<i>scale factor</i>	0.02	H5T C S1	21
<i>add offset</i>	0	H5T C S1	2
<i>valid range</i>	[0,800]	H5T C S1	24

<i>min_max</i>	[0,40000]	H5T C S1	28
<i>FillValue</i>	65535	H5T C S1	6
<i>quality_flag</i>	QF_RD_Total	H5T C S1	17
<i>comment</i>	calibrated filtered radiance for Total channel	H5T C S1	53
<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
<i>geolocation_label</i>	Latitude, Longitude	H5T C S1	20
<i>CLASS</i>	IMAGE	H5T C S1	6
<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
<i>IMAGE_MINMAXRANGE</i>	[0,40000]	H5T STD_U16LE	4

1.007

#16

FilteredRadiance_Infrared	H5T_STD_U16LE	Number_of_Scans	
<i>Attributes</i>			
<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
<i>long_name</i>	filtered radiance for Infrared channel	H5T C S1	41
<i>units</i>	W.m-2.sr -1	H5T C S1	13
<i>scale_factor</i>	0.01	H5T C S1	21
<i>add_offset</i>	0	H5T C S1	2
<i>valid_range</i>	[0,40]	H5T C S1	24
<i>min_max</i>	[0,4000]	H5T C S1	28
<i>FillValue</i>	65535	H5T C S1	6
<i>quality_flag</i>	QF_RD_Infrared	H5T C S1	17
<i>comment</i>	calibrated filtered radiance for Infrared channel	H5T C S1	53
<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
<i>geolocation_label</i>	Latitude, Longitude	H5T C S1	20
<i>CLASS</i>	IMAGE	H5T C S1	6
<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
<i>IMAGE_MINMAXRANGE</i>	[0,4000]	H5T STD_U16LE	4

1.007

#17

FilteredRadiance_SyntheticLW	H5T_STD_U16LE	Number_of_Scans	
<i>Attributes</i>			
<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
<i>long_name</i>	filtered radiance for SyntheticLW channel	H5T C S1	41
<i>units</i>	W.m-2.sr -1	H5T C S1	13
<i>scale_factor</i>	0.01	H5T C S1	21
<i>add_offset</i>	0	H5T C S1	2
<i>valid_range</i>	[0,500]	H5T C S1	24
<i>min_max</i>	[0,50000]	H5T C S1	28
<i>FillValue</i>	65535	H5T C S1	6
<i>quality_flag</i>	QF_RD_SyntheticLW	H5T C S1	17
<i>comment</i>	calibrated filtered radiance for SyntheticLW channel	H5T C S1	53
<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
<i>geolocation_label</i>	Latitude, Longitude	H5T C S1	20
<i>CLASS</i>	IMAGE	H5T C S1	6
<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
<i>IMAGE_MINMAXRANGE</i>	[0,50000]	H5T STD_U16LE	4

1.007

#18

QF_Pixels_Visible	H5T_STD_U16LE	Number_of_Scans	
<i>Attributes</i>			
<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
<i>long_name</i>	quality flag for pixels radiance of Visible channel	H5T C S1	68
<i>standard_name</i>	quality flag	H5T C S1	13

			<i>comment</i>	16-bits array (=0:good/=1:bad);, #15: Radiance validity flag , #14:blank, #13:land/sea contamination, #12: surface type, #11:ChannelON/OFF, #10:Level-0 Count Saturated, #9:Level-0 Count poor value, #8:geolocation estimation, #7:Spacecount error, #6-4: Blank, #3: interpolation quality, #2: Gainflag, #1-0: Blank	H5T C S1	17
			<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
			<i>geolocation label</i>	Latitude, Longitude	H5T C S1	20
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE_MINMAXRANGE</i>	[0,8000]	H5T STD U16LE	4
1.007			QF_Pixels_Solar	H5T_STD_U16LE	Number_of_Scans	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	quality flag for pixels radiance of Solar channel	H5T C S1	68
			<i>standard_name</i>	quality flag	H5T C S1	13
		#19	<i>comment</i>	16-bits array (=0:good/=1:bad);, #15: Radiance validity flag , #14:blank, #13:land/sea contamination, #12: surface type, #11:ChannelON/OFF, #10:Level-0 Count Saturated, #9:Level-0 Count poor value, #8:geolocation estimation, #7:Spacecount error, #6-4: Blank, #3: interpolation quality, #2: Gainflag, #1-0: Blank	H5T C S1	17
			<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
			<i>geolocation label</i>	Latitude, Longitude	H5T C S1	20
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE_MINMAXRANGE</i>	[0,8000]	H5T STD U16LE	4
1.007			QF_Pixels_Total	H5T_STD_U16LE	Number_of_Scans	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	quality flag for pixels radiance of Total channel	H5T C S1	68
			<i>standard_name</i>	quality flag	H5T C S1	13
		#20	<i>comment</i>	16-bits array (=0:good/=1:bad);, #15: Radiance validity flag , #14:blank, #13:land/sea contamination, #12: surface type, #11:ChannelON/OFF, #10:Level-0 Count Saturated, #9:Level-0 Count poor value, #8:geolocation estimation, #7:Spacecount error, #6-4: Blank, #3: interpolation quality, #2: Gainflag, #1-0: Blank	H5T C S1	17
			<i>dimension label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
			<i>geolocation label</i>	Latitude, Longitude	H5T C S1	20
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE_MINMAXRANGE</i>	[0,8000]	H5T STD U16LE	4
1.007			QF_Pixels_Infrared	H5T_STD_U16LE	Number_of_Scans	
			<i>Attributes</i>			
		#21	<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>

				<i>long_name</i>	quality flag for pixels radiance of Infrared channel	H5T C S1	68
				<i>standard_name</i>	quality flag	H5T C S1	13
				<i>comment</i>	16-bits array (=0:good/=1:bad);, #15: Radiance validity flag , #14:blank, #13:land/sea contamination, #12: surface type, #11:ChannelON/OFF, #10:Level-0 Count Saturated, #9:Level-0 Count poor value, #8:geolocation estimation, #7:Spacecount error, #6-4: Blank, #3: interpolation quality, #2: Gainflag, #1-0: Blank	H5T C S1	17
				<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
				<i>geolocation_label</i>	Latitude, Longitude	H5T C S1	20
				<i>CLASS</i>	IMAGE	H5T C S1	6
				<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
				<i>IMAGE_MINMAXRANGE</i>	[0,8000]	H5T STD U16LE	4
1.007				QF_Pixels_SyntheticLW	H5T_STD_U16LE	Number_of_Scans	
				<i>Attributes</i>			
				<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
				<i>long_name</i>	quality flag for pixels radiance of SyntheticLW channel	H5T C S1	68
				<i>standard_name</i>	quality flag	H5T C S1	13
				<i>comment</i>	16-bits array (=0:good/=1:bad);, #15: Radiance validity flag , #14:blank, #13:land/sea contamination, #12: surface type, #11:ChannelON/OFF, #10:Level-0 Count Saturated, #9:Level-0 Count poor value, #8:geolocation estimation, #7:Spacecount error, #6-4: Blank, #3: interpolation quality, #2: Gainflag, #1-0: Blank	H5T C S1	17
				<i>dimension_label</i>	Number_of_Scans, Number_of_Pixels	H5T C S1	37
				<i>geolocation_label</i>	Latitude, Longitude	H5T C S1	20
				<i>CLASS</i>	IMAGE	H5T C S1	6
				<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
				<i>IMAGE_MINMAXRANGE</i>	[0,8000]	H5T STD U16LE	4
			#22				

SCARAB**L1B**Estimated Size
2.352 Mbfor typical [Number_of_Rows_40km]
[960]

Science data group associated attributes

ScienceData

Attributes				
Index	Name	Value	Type	Size
#1	Product_Identification	MT1SCASL1B_1.00_9_01 2012_05_09_0000	H5T_C_S1	84
#2	Organization_Name	ISRO	H5T_C_S1	5
#3	Property_of_data	ISRO_and_CNES	H5T_C_S1	15
#4	Satellite_Name	MEGHA-TROPIQUES	H5T_C_S1	16
#5	Payload_Name	SCARAB	H5T_C_S1	12
#6	Product_Name	Level-1B-segment wise	H5T_C_S1	35
#7	Product_Format	NCSA-HDF	H5T_C_S1	9
#8	Product_Format_Version	HDF5-1.6.4	H5T_C_S1	11
#9	Product_Generation_Date	2012MAI09	H5T_C_S1	10
#10	Imaging_Date	2012MAI09	H5T_C_S1	10
#11	Date_Format	YYYYMMDD	H5T_C_S1	10
#12	INS_AuxFile_Version	9_01	H5T_C_S1	5
#13	PRO_AuxFile_Version	9_01	H5T_C_S1	5
#14	RAD_AuxFile_Version	9_01	H5T_C_S1	5
#15	GEO_AuxFile_Version	9_01	H5T_C_S1	5
#16	PCS_AuxFile_Version	9_01	H5T_C_S1	5
#17	GRB_AuxFile_Version	9_01	H5T_C_S1	5
#18	UCS_AuxFile_Version	9_01	H5T_C_S1	5
#19	Number_of_Channels	4	H5T_C_S1	8
#20	Synthetic_LW_Channel	1	H5T_C_S1	2
#21	Channel_Bandwith	[0.5-0.7], [0.2-4],[0.2-200],[10.5-12.5] mm	H5T_C_S1	44
#22	Aprime Coefficient	[0.9142]	H5T_C_S1	9
#23	Orbit_StartNumber	00001	H5T_C_S1	19
#24	Orbit_EndNumber	00001	H5T_C_S1	17
#25	Orbit_Cycle_Number	01	H5T_C_S1	3
#26	SLConf	100001	H5T_C_S1	7
#27	Nskip	0005	H5T_C_S1	5
#28	ProcessorVersion	1.00	H5T_C_S1	5
#29	SCARAB_QF_Row_Definition	#{(SCARAB_QF_scan_comment)}#	H5T_C_S1	16x24
#30	SCARAB_QF_Cell_Definition	#{(qf_comment)}#	H5T_C_S1	16x24
#31	Skip_StartScanNumber	[00000064,00000165,00000266,00000367,00	H5T_C_S1	1*Nskip
#32	Skip_EndScanNumber	[00000066,00000167,00000268,00000370,00	H5T_C_S1	1*Nskip
#33	Flip_StartScanNumber	00000012	H5T_C_S1	9
#34	Flip_EndScanNumber	00000042	H5T_C_S1	9
#35	Maneuver_StartScanNumber	00000011	H5T_C_S1	9
#36	Maneuver_EndScanNumber	00000043	H5T_C_S1	9
#37	Number_of_Rows_40km	960	H5T_C_S1	8
#38	Number_of_Columns_40km	61	H5T_C_S1	8
#39	Number_of_Processed_Rows	950	H5T_C_S1	4

	#40	QF_Product_%Processed_Rows	099	H5T_C_S1	4	
Science data group elements						
Estimated size of dataset [Mb]		Index	Name	Type	Typical Value	
0.002		#1	Row_SCARAB_QF_40km	H5T_STD_U16LE	Number_of_Rows_4	
			Attributes			
			Name	Value	Type	Size
			long_name	Quality flag applicable to the scan line	H5T C S1	41
			comment	16-bits array (=0:good/=1:bad)., #15: scan/row quality flag validity, #14: pass type, #13: Scanning type, #12: Scan/Row error, #11: datation error, #10-8: Blank, #7 CRC Status, #6: Blank, #5-3: Payload Mode, #2-0: Satellite Mode	H5T C S1	232
			dimension_label	Number_of_Rows_40km	H5T C S1	20
			geolocation_label	Row_StartTime_40km_LF	H5T C S1	22
0.004		#2	Row_Number_40km	H5T_STD_U32LE	Number_of_Rows_4	
			Attributes			
			Name	Value	Type	Size
			long_name	Row Number (40km grid)	H5T C S1	29
		comment	Row Number (40km grid)	H5T C S1	29	
		dimension_label	Number_of_Rows_40km	H5T C S1	26	
0.001		#3	Row_FirstCellAcqTime_40km	H5T_C_S1	Number_of_Rows_4	
			Attributes			
			Name	Value	Type	Size
			long_name	date for the first cell of the row (40km grid)	H5T C S1	105
			standard_name	time	H5T C S1	5
			units	UTC Time in microseconds	H5T C S1	25
			FillValue	yyyymmdd hhmmssuuuuuu	H5T C S1	22
		comment	format: yyyymmdd hhmmssuuuuuu	H5T C S1	32	
		dimension_label	Number_of_Rows_40km	H5T C S1	37	
0.112		#4	Cell_population_Visible_40km	H5T_STD_U16LE	Number_of_Rows_4	
			Attributes			
			Name	Value	Type	Size
			long_name	Cell population for channel Visible	H5T C S1	52
			FillValue	65535	H5T C S1	6
			comment	number of samples per Cell	H5T C S1	40
			dimension_label	Number_of_Rows_40km, Number_of_Columns_40km	H5T C S1	68
			geolocation_label	Latitude_40km, Longitude_40km	H5T C S1	54
			CLASS	IMAGE	H5T C S1	6
			IMAGE_SUBCLASS	IMAGE_GRAYSCALE	H5T C S1	16
		IMAGE_MINMAXRANGE	[0,65535]	H5T STD U16LE	4	
0.112		#5	Cell_population_Solar_40km	H5T_STD_U16LE	Number_of_Rows_4	
			Attributes			
			Name	Value	Type	Size
			long_name	Cell population for channel Solar	H5T C S1	52
			FillValue	65535	H5T C S1	6
		comment	number of samples per Cell	H5T C S1	40	

			<i>dimension label</i>	Number_of_Rows_40km, Number_of_Columns_40km	H5T C S1	68
			<i>geolocation label</i>	Latitude_40km, Longitude_40km	H5T C S1	54
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE MINMAXRANGE</i>	[0,65535]	H5T STD U16LE	4
0.112			Cell_population_Total_40km	H5T_STD_U16LE	Number_of_Rows_4	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	Cell population for channel Total	H5T C S1	52
			<i>FillValue</i>	65535	H5T C S1	6
			<i>comment</i>	number of samples per Cell	H5T C S1	40
		#6	<i>dimension label</i>	Number_of_Rows_40km, Number_of_Columns_40km	H5T C S1	68
			<i>geolocation label</i>	Latitude_40km, Longitude_40km	H5T C S1	54
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE MINMAXRANGE</i>	[0,65535]	H5T STD U16LE	4
0.112			Cell_population_Infrared_40km	H5T_STD_U16LE	Number_of_Rows_4	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	Cell population for channel Infrared	H5T C S1	52
			<i>FillValue</i>	65535	H5T C S1	6
			<i>comment</i>	number of samples per Cell	H5T C S1	40
			<i>dimension label</i>	Number_of_Rows_40km, Number_of_Columns_40km	H5T C S1	68
			<i>geolocation label</i>	Latitude_40km, Longitude_40km	H5T C S1	54
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE MINMAXRANGE</i>	[0,65535]	H5T STD U16LE	4
0.112			Cell_population_SyntheticLW_40km	H5T_STD_U16LE	Number_of_Rows_4	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	Cell population for channel SyntheticLW	H5T C S1	52
			<i>FillValue</i>	65535	H5T C S1	6
			<i>comment</i>	number of samples per Cell	H5T C S1	40
			<i>dimension label</i>	Number_of_Rows_40km, Number_of_Columns_40km	H5T C S1	68
			<i>geolocation label</i>	Latitude_40km, Longitude_40km	H5T C S1	54
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE MINMAXRANGE</i>	[0,65535]	H5T STD U16LE	4
0.112			Latitude_Cells_40km	H5T_STD_U16LE	Number_of_Rows_4	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	latitude of cells (40km grid)	H5T C S1	49
			<i>standard name</i>	latitude	H5T C S1	9
			<i>units</i>	degrees	H5T C S1	8
			<i>scale factor</i>	0.01	H5T C S1	5
			<i>add offset</i>	-40	H5T C S1	4
			<i>valid range</i>	[-40,40]	H5T C S1	9
			<i>min max</i>	[0,8000]	H5T C S1	9
			<i>FillValue</i>	65535	H5T C S1	6
			<i>comment</i>	accuracy 1km	H5T C S1	13
		#9				

				<i>dimension label</i>	Number_of_Rows_40km, Number_of_Columns_40km	H5T C S1	56
				<i>CLASS</i>	IMAGE	H5T C S1	6
				<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
				<i>IMAGE_MINMAXRANGE</i>	[0,8000]	H5T STD U16LE	4
0.112				Longitude_Cells_40km	H5T_STD_U16LE	Number_of_Rows_4	
				<i>Attributes</i>			
				<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
				<i>long_name</i>	longitude of cells (40km grid)	H5T C S1	50
				<i>standard_name</i>	longitude	H5T C S1	10
				<i>units</i>	degrees	H5T C S1	8
				<i>scale_factor</i>	0.01	H5T C S1	5
				<i>add_offset</i>	0.0	H5T C S1	4
				<i>valid_range</i>	[0,360]	H5T C S1	8
				<i>min_max</i>	[0,36000]	H5T C S1	10
				<i>FillValue</i>	65535	H5T C S1	6
				<i>comment</i>	Longitude [0,360]: 0 is Greenwich meridian (accuracy 1km)	H5T C S1	59
				<i>dimension label</i>	Number_of_Rows_40km, Number_of_Columns_40km	H5T C S1	56
				<i>CLASS</i>	IMAGE	H5T C S1	6
				<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
				<i>IMAGE_MINMAXRANGE</i>	[0,36000]	H5T STD U16LE	4
0.112				Viewing_azimuth_angle_Cells_40km	H5T_STD_U16LE	Number_of_Rows_4	
				<i>Attributes</i>			
				<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
				<i>long_name</i>	Viewing azimuth angle at cell centre	H5T C S1	39
				<i>units</i>	degrees	H5T C S1	8
				<i>scale_factor</i>	0.01	H5T C S1	5
				<i>add_offset</i>	-180		
				<i>valid_range</i>	[-180,+180]	H5T C S1	12
				<i>min_max</i>	[0,+360000]	H5T C S1	12
				<i>FillValue</i>	65535	H5T C S1	6
				<i>comment</i>	Viewing azimuth angle at cell centre	H5T C S1	39
				<i>dimension label</i>	Number_of_Rows_40km, Number_of_Columns_40km	H5T C S1	68
				<i>geolocation_label</i>	Latitude_40km, Longitude_40km	H5T C S1	54
				<i>CLASS</i>	IMAGE	H5T C S1	6
				<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
				<i>IMAGE_MINMAXRANGE</i>	[0,36000]	H5T STD U16LE	4
0.112				Relative_azimuth_angle_Cells_40km	H5T_STD_U16LE	Number_of_Rows_4	
				<i>Attributes</i>			
				<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
				<i>long_name</i>	Relative azimuth angle at cell centre	H5T C S1	40
				<i>units</i>	degrees	H5T C S1	8
				<i>scale_factor</i>	0.01	H5T C S1	5
				<i>add_offset</i>	0	H5T C S1	2
				<i>valid_range</i>	[0,360]	H5T C S1	8
				<i>min_max</i>	[0,36000]	H5T C S1	10
				<i>FillValue</i>	65535	H5T C S1	6
				<i>comment</i>	Relative azimuth angle at cell centre	H5T C S1	40
				<i>dimension label</i>	Number_of_Rows_40km, Number_of_Columns_40km	H5T C S1	68
				<i>geolocation_label</i>	Latitude_40km, Longitude_40km	H5T C S1	54

			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE MINMAXRANGE</i>	[0,36000]	H5T STD U16LE	4
0.112			Viewing_zenith_angle_Cells_40km	H5T_STD_U16LE	Number_of_Rows_4	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	Viewing zenith angle at cell centre	H5T C S1	41
			<i>units</i>	degrees	H5T C S1	8
			<i>scale_factor</i>	0.01	H5T C S1	5
			<i>add_offset</i>	0	H5T C S1	2
			<i>valid_range</i>	[0,90]	H5T C S1	27
			<i>min_max</i>	[0,9000]	H5T C S1	31
			<i>FillValue</i>	65535	H5T C S1	6
			<i>comment</i>	Viewing zenith angle at cell centre	H5T C S1	40
			<i>dimension_label</i>	Number_of_Rows_40km, Number_of_Columns_40km	H5T C S1	68
			<i>geolocation_label</i>	Latitude_40km, Longitude_40km	H5T C S1	54
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE MINMAXRANGE</i>	[0,9000]	H5T STD U16LE	4
0.112			Solar_zenith_angle_Cells_40km	H5T_STD_U16LE	Number_of_Rows_4	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	Solar zenith angle at cell centre	H5T C S1	41
			<i>units</i>	degrees	H5T C S1	8
			<i>scale_factor</i>	0.01	H5T C S1	5
			<i>add_offset</i>	0	H5T C S1	2
			<i>valid_range</i>	[0,180]	H5T C S1	27
			<i>min_max</i>	[0,18000]	H5T C S1	31
			<i>FillValue</i>	65535	H5T C S1	6
			<i>comment</i>	Solar zenith angle at cell centre	H5T C S1	40
			<i>dimension_label</i>	Number_of_Rows_40km, Number_of_Columns_40km	H5T C S1	68
			<i>geolocation_label</i>	Latitude_40km, Longitude_40km	H5T C S1	54
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE MINMAXRANGE</i>	[0,18000]	H5T STD U16LE	4
0.112			FilteredRadiance_Visible	H5T_STD_U16LE	Number_of_Rows_4	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	filtered radiance for Visible channel	H5T C S1	41
			<i>units</i>	W.m-2.sr -1	H5T C S1	13
			<i>scale_factor</i>	0.01	H5T C S1	21
			<i>add_offset</i>	0	H5T C S1	2
			<i>valid_range</i>	[0,250]	H5T C S1	24
			<i>min_max</i>	[0,25000]	H5T C S1	28
			<i>FillValue</i>	65535	H5T C S1	6
			<i>quality_flag</i>	QF_RD_	H5T C S1	7
			<i>comment</i>	calibrated filtered radiance for Visible channel	H5T C S1	53
			<i>dimension_label</i>	Number_of_Rows_40km, Number_of_Columns_40km	H5T C S1	68
			<i>geolocation_label</i>	Latitude_40km, Longitude_40km	H5T C S1	54
			<i>CLASS</i>	IMAGE	H5T C S1	6

			<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16	
			<i>IMAGE_MINMAXRANGE</i>	[0,25000]	H5T STD U16LE	4	
0.112		#16	FilteredRadiance_Solar	H5T_STD_U16LE	Number_of_Rows_40km		
			<i>Attributes</i>				
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>	
			<i>long_name</i>	filtered radiance for Solar channel	H5T C S1	41	
			<i>units</i>	W.m-2.sr -1	H5T C S1	13	
			<i>scale_factor</i>	0.02	H5T C S1	21	
			<i>add_offset</i>	0	H5T C S1	2	
			<i>valid_range</i>	[0,800]	H5T C S1	24	
			<i>min_max</i>	[0,40000]	H5T C S1	28	
			<i>FillValue</i>	65535	H5T C S1	6	
			<i>quality_flag</i>	QF_RD_	H5T C S1	7	
			<i>comment</i>	calibrated filtered radiance for Solar channel	H5T C S1	53	
			<i>dimension_label</i>	Number_of_Rows_40km, Number_of_Columns_40km	H5T C S1	68	
			<i>geolocation_label</i>	Latitude_40km, Longitude_40km	H5T C S1	54	
			<i>CLASS</i>	IMAGE	H5T C S1	6	
			<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16	
			<i>IMAGE_MINMAXRANGE</i>	[0,40000]	H5T STD U16LE	4	
0.112		#17	FilteredRadiance_Total	H5T_STD_U16LE	Number_of_Rows_40km		
			<i>Attributes</i>				
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>	
			<i>long_name</i>	filtered radiance for Total channel	H5T C S1	41	
			<i>units</i>	W.m-2.sr -1	H5T C S1	13	
			<i>scale_factor</i>	0.02	H5T C S1	21	
			<i>add_offset</i>	0	H5T C S1	2	
			<i>valid_range</i>	[0,800]	H5T C S1	24	
			<i>min_max</i>	[0,40000]	H5T C S1	28	
			<i>FillValue</i>	65535	H5T C S1	6	
			<i>quality_flag</i>	QF_RD_	H5T C S1	7	
			<i>comment</i>	calibrated filtered radiance for Total channel	H5T C S1	53	
			<i>dimension_label</i>	Number_of_Rows_40km, Number_of_Columns_40km	H5T C S1	68	
			<i>geolocation_label</i>	Latitude_40km, Longitude_40km	H5T C S1	54	
			<i>CLASS</i>	IMAGE	H5T C S1	6	
			<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16	
			<i>IMAGE_MINMAXRANGE</i>	[0,40000]	H5T STD U16LE	4	
0.112		#18	FilteredRadiance_Infrared	H5T_STD_U16LE	Number_of_Rows_40km		
			<i>Attributes</i>				
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>	
			<i>long_name</i>	filtered radiance for Infrared channel	H5T C S1	41	
			<i>units</i>	W.m-2.sr -1	H5T C S1	13	
			<i>scale_factor</i>	0.01	H5T C S1	21	
			<i>add_offset</i>	0	H5T C S1	2	
			<i>valid_range</i>	[0,40]	H5T C S1	24	
			<i>min_max</i>	[0,4000]	H5T C S1	28	
			<i>FillValue</i>	65535	H5T C S1	6	
			<i>quality_flag</i>	QF_RD_	H5T C S1	7	
		<i>comment</i>	calibrated filtered radiance for Infrared channel	H5T C S1	53		

			<i>dimension label</i>	Number_of_Rows_40km, Number_of_Columns_40km	H5T C S1	68
			<i>geolocation label</i>	Latitude_40km, Longitude_40km	H5T C S1	54
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE_MINMAXRANGE</i>	[0,4000]	H5T STD U16LE	4
0.112			FilteredRadiance_SyntheticLW	H5T_STD_U16LE	Number_of_Rows_4	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	filtered radiance for SyntheticLW channel	H5T C S1	41
			<i>units</i>	W.m-2.sr -1	H5T C S1	13
			<i>scale_factor</i>	0.01	H5T C S1	21
			<i>add_offset</i>	0	H5T C S1	2
			<i>valid_range</i>	[0,500]	H5T C S1	24
			<i>min_max</i>	[0,50000]	H5T C S1	28
			<i>FillValue</i>	65535	H5T C S1	6
			<i>quality_flag</i>	QF_RD_	H5T C S1	7
			<i>comment</i>	calibrated filtered radiance for SyntheticLW channel	H5T C S1	53
			<i>dimension label</i>	Number_of_Rows_40km, Number_of_Columns_40km	H5T C S1	68
			<i>geolocation label</i>	Latitude_40km, Longitude_40km	H5T C S1	54
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE_MINMAXRANGE</i>	[0,50000]	H5T STD U16LE	4
0.112			QF_Cells_Visible	H5T_STD_U16LE	Number_of_Rows_4	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	quality flag for cells radiance of Visible channel	H5T C S1	55
			<i>standard_name</i>	quality flag	H5T C S1	13
			<i>comment</i>	16-bits array (=0:good/=1:bad):, #15: Radiance validity flag , #14:blank, #13:land/sea contamination, #12: surface type, #11:ChannelON/OFF, #10:Level-0 Count Saturated, #9:Level- 0 Count poor value, #8:geolocation estimation, #7:Spacecount error, #6-4: Blank, #3: interpolation quality, #2: Gainflag, #1-0: Blank	H5T C S1	314
			<i>dimension label</i>	Number_of_Rows_40km, Number_of_Columns_40km	H5T C S1	68
			<i>geolocation label</i>	Latitude_40km, Longitude_40km	H5T C S1	54
			<i>CLASS</i>	IMAGE	H5T C S1	6
			<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
			<i>IMAGE_MINMAXRANGE</i>	[0,8000]	H5T STD U16LE	4
0.112			QF_Cells_Solar	H5T_STD_U16LE	Number_of_Rows_4	
			<i>Attributes</i>			
			<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
			<i>long_name</i>	quality flag for cells radiance of Solar channel	H5T C S1	55
			<i>standard_name</i>	quality flag	H5T C S1	13

					16-bits array (=0:good/=1:bad);, #15: Radiance validity flag , #14:blank, #13:land/sea contamination, #12: surface type, #11:ChannelON/OFF, #10:Level-0 Count Saturated, #9:Level-0 Count poor value, #8:geolocation estimation, #7:Spacecount error, #6-4: Blank, #3: interpolation quality, #2: Gainflag, #1-0: Blank	H5T C S1	314
				<i>comment</i>			
				<i>dimension label</i>	Number_of_Rows_40km, Number_of_Columns_40km	H5T C S1	68
				<i>geolocation label</i>	Latitude_40km, Longitude_40km	H5T C S1	54
				<i>CLASS</i>	IMAGE	H5T C S1	6
				<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
				<i>IMAGE_MINMAXRANGE</i>	[0,8000]	H5T STD U16LE	4
0.112				QF_Cells_Total	H5T_STD_U16LE	Number_of_Rows_40km	
				<i>Attributes</i>			
				<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
				<i>long name</i>	quality flag for cells radiance of Total channel	H5T C S1	55
				<i>standard name</i>	quality flag	H5T C S1	13
				<i>comment</i>			
			#22	<i>dimension label</i>	Number_of_Rows_40km, Number_of_Columns_40km	H5T C S1	68
				<i>geolocation label</i>	Latitude_40km, Longitude_40km	H5T C S1	54
				<i>CLASS</i>	IMAGE	H5T C S1	6
				<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
				<i>IMAGE_MINMAXRANGE</i>	[0,8000]	H5T STD U16LE	4
0.112				QF_Cells_Infrared	H5T_STD_U16LE	Number_of_Rows_40km	
				<i>Attributes</i>			
				<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
				<i>long name</i>	quality flag for cells radiance of Infrared channel	H5T C S1	55
				<i>standard name</i>	quality flag	H5T C S1	13
				<i>comment</i>			
			#23	<i>dimension label</i>	Number_of_Rows_40km, Number_of_Columns_40km	H5T C S1	68
				<i>geolocation label</i>	Latitude_40km, Longitude_40km	H5T C S1	54
				<i>CLASS</i>	IMAGE	H5T C S1	6
				<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T C S1	16
				<i>IMAGE_MINMAXRANGE</i>	[0,8000]	H5T STD U16LE	4

0.112				QF_Cells_SyntheticLW	H5T_STD_U16LE	Number_of_Rows_4	
				<i>Attributes</i>			
				<i>Name</i>	<i>Value</i>	<i>Type</i>	<i>Size</i>
				<i>long_name</i>	quality flag for cells radiance of SyntheticLW channel	H5T_C_S1	55
				<i>standard_name</i>	quality flag	H5T_C_S1	13
			#24	<i>comment</i>	16-bits array (=0:good/=1:bad);, #15: Radiance validity flag , #14:blank, #13:land/sea contamination, #12: surface type, #11:ChannelON/OFF, #10:Level-0 Count Saturated, #9:Level-0 Count poor value, #8:geolocation estimation, #7:Spacecount error, #6-4: Blank, #3: interpolation quality, #2: Gainflag, #1-0: Blank	H5T_C_S1	314
				<i>dimension label</i>	Number_of_Rows_40km, Number_of_Columns_40km	H5T_C_S1	68
				<i>geolocation label</i>	Latitude_40km, Longitude_40km	H5T_C_S1	54
				<i>CLASS</i>	IMAGE	H5T_C_S1	6
				<i>IMAGE_SUBCLASS</i>	IMAGE_GRAYSCALE	H5T_C_S1	16
				<i>IMAGE_MINMAXRANGE</i>	[0,8000]	H5T_STD_U16LE	4